

MACHINERY WORKS COMPANY

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SAFARI-ESAF.COM

Moarref Group established in 1983.

Since more than 35 years we are dealing with the development , design and production of MTCO products .

Any one of our products distinguishes itself by Quality , Accuracy , Sustainability and Consistent Value .We develop our machines ourselves to a large extent . Beside our production plants we have our articles solely produced by manufacturers who are able to fulfil our high quality requirements .Our knowledge serves to constantly advance and improve our products .Since 1993 ESAF produces a large part of its metal working machines in its own factory in Taichung in Taiwan . There the quality is controlled by German quality management representatives on-site .

Another large part of the MTCO metal working machinery is manufactured exclusively or in accordance with specific requirements for MTCO.

PRESIDENT



Einollah Safari

گروه معرف ابزار در سال ۱۳۶۲ تاسیس شد.

گروه معرف ابزار افتخار دارد که کلکسیونی از بهترین و برترین برندهای جهان و ۳ دهه استفاده از تجارت - مهندسان و کارشناسان خبره در زمینه ابزار های دقیق و فوق دقیق تراشکاری و صنعتی و ماشین آلات صنعتی و ... توانایی تامین ابزار و ماشین آلات توسط دفتر مرکزی آمریکا - آلمان - ترکیه - دبی - چین در این امر به عنوان یکی از بهترین تامین کنندگان ابزار در کشور قرار گیرد



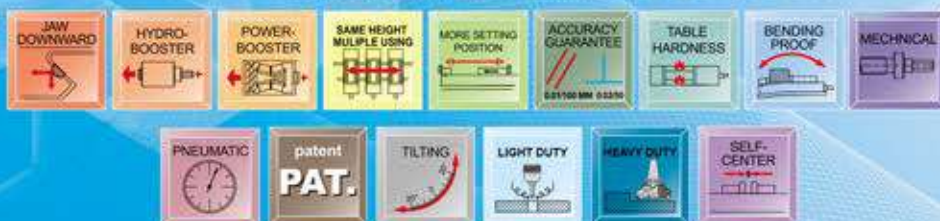
Einollah Safari



SINCE 1978

VERTIEX

MACHINERY WORKS CO., LTD.



A1-A58

MILLING MACHINE ACCESSORIES

A58-A115

GRINDING MACHINE ACCESSORIES

A116-A191

TOOLING SYSTEM

A192-A195

MACHINE CENTER ACCESSORIES

A196-A225

LATHE MACHINE ACCESSORIES

A226-A236

CUTTING TOOLS



Horizontal / Vertical Rotary Table VERTEX®

صفحه گردان عمودی / افقی



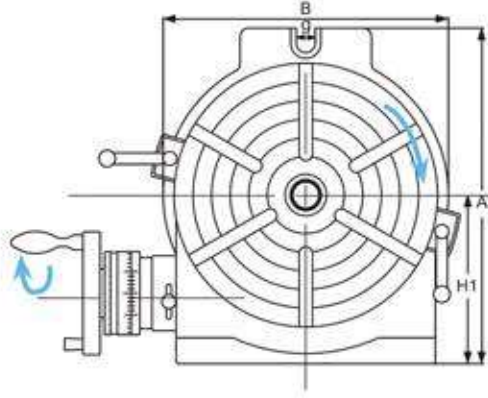
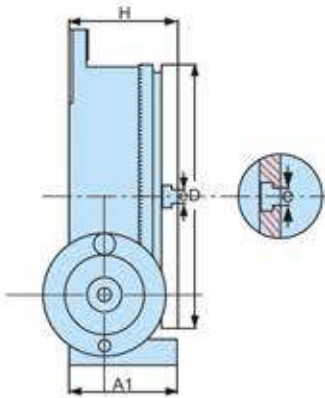
HV-6, 8, 10, 12, 14, 16



New Model



HV-4



SPECIFICATIONS	HV-4,6	HV-8,10,12,14,16
Degree per one handle rotation	4°	4°
Scale of micro collar	2'	1'
vernier reading	20"	10"
Gear ratio	1:90	1:90

Specifications

ORDER NO.	Table			Base dimension		Width of T-slot	Bolt slots	The Load Capacity For Rotary Table	Gross Weight(kg)		Center sleeve	Meas. CFT	CODE NO.	
	Outer diameter	Height	H	H1	A				B	wooden case(W) Carton(C)				
										N.W.				G.W.
HV-4	58	110	72	80	138	118	11	35 KGS	18 KGS	MT-2	7KGS	7.5KGS (C)	0.3	1001-000
HV-6	78	150	80	102	205	163	11	40 KGS	20 KGS	MT-2	12.1KGS	12.7KGS (C)	0.4	1001-001
HV-8	100	205	102	135	265	219	14	80 KGS	40 KGS	MT-3	24.7KGS	26.2KGS (C)	0.8	1001-002
HV-10	106	254	109	163	321	276	14	90 KGS	50 KGS	MT-3	35.5KGS	37.3KGS (C)	2	1001-003
HV-12	123	305	125	194	388	330	16	120 KGS	60 KGS	MT-4	58.7KGS	69.8KGS (W)	2.6	1001-004
HV-14	123	353	125	225	445	389	16	130 KGS	70 KGS	MT-4	76.61KGS	90.3KGS (W)	3.2	1001-005
HV-16	128	406	130	255	500	435	16	140 KGS	70 KGS	MT-4	106.4KGS	123.1KGS (W)	4.2	1001-006

Optional Accessories

(Details on page A3)



Flange



Tailstock



Dividing Plate



EXAMPLE :



W/O Flange



W/ Flange



W/ Dividing Plate

3-Jaw Chuck For Rotary Table, Indexer

● Detail specification & Order NO. shown on page E9

The Fixing Hole is From Front



ORDER NO.

- VSC-5A SUIT FOR BS-0 OR HV-6, VUT-6, VU-150
- VSC-6A SUIT FOR BS-1 OR HV-8, 10, VUT-6, VU-200
- VSC-7A, 8A SUIT FOR BS-2 OR HV-10, 12, 14, VUT-10, 12
- VSC-10A SUIT FOR HV-14, 16

Reversible type

● For indexer, The fixing hole is from front.



ORDER NO.

- VSK-6A SUIT FOR CS-6, CC-6
- VSK-8A SUIT FOR CS-8, CC-8
- VSK-12A SUIT FOR CC-12

- Our Tables are made of high density Meehanite inspect angle to assure the excellent quality and durableness.
- Use excellent machining center to process. Spindle end be applied accuracy bearing. Can be assured to keep very steady under load cutting.
- Worm is hardened and ground. The ratio is 90:1. The work table is graduated a full 360° so that one turn of the handle moves the table through 4°. Micro collar is graduated in steps of 1' min. And vernier scale makes settings down to 10 seconds possible.
- These Rotary Tables are popular for their excellent performance, practical design and reasonable cost. They are widely used for circular cutting work, angle setting, boring, spot-facing and similar work.
- Indexing accuracy of direct Indexing mechanism Maximum cumulative spacing error 1 minute.
- Please choose Front-Lock 3 Jaw chuck only.

ITEM NO.	TESTING OBJECTIVE	VARIATION(PER100mm) MAXIMUM TESTED
1	FLATNESS OF CLAMPING SURFACE(CONCAVE)	±0.015
2	PARALLELISM OF CLAMPING SURFACE TO BASE	±0.02
3	SQUARENESS OF CLAMPING SURFACE TO ANGLE FACE	±0.02
4	TRUE RUNNING OF CLAMPING SURFACE	±0.015
5	TRUE RUNNING OF CENTER HOLE MEASURED AT HOLE EDGE	±0.02



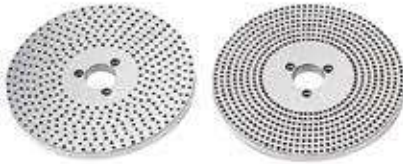
Optional For Rotary Table



متعلقات صفحه گردان

A. DIVIDING PLATES

DP-2, 3, 4, 5



*DP-2 set include index plate, crank handle, 3 pcs screw, sector, & U Washer.

1 carton with 1 set. Gross weight: 3.5kgs.

Meas.: 0.13 CFT.

Number of the holes of Dividing Plates

EXAMPLE :



ORDER NO.	SUIT FOR MODEL	WEIGHT kgs	CODE NO.
*DP-2	for HV-8, VU-200	4.5	1001-031
DP-3	for HV-10, 12, 14, 16, VUT-10, VUT-12	4.6	1001-032
DP-4	for CS-6, 8	4.6	1001-033
DP-5	for VU-300	4.6	1001-034

Holes Number

A-Plate	26, 30, 34, 38, 41, 44, 47, 51, 57, 28, 32, 37, 39, 43, 46, 49, 53, 59
B-Plate	61, 67, 71, 77, 81, 87, 91, 97, 63, 69, 73, 79, 83, 89, 93, 99

A. DIVIDING PLATES

DP-1



Holes Number

A-Plate	15, 16, 17, 18, 19, 20
B-Plate	21, 23, 27, 29, 31, 33
C-Plate	37, 39, 41, 43, 47, 49

EXAMPLE :

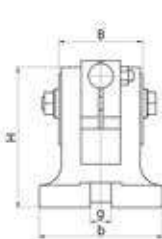


ORDER NO.	SUIT FOR MODEL	WEIGHT kgs	CODE NO.
*DP-1	for HV-4, HV-6, VUT-6, VU-100, 150	1.4	1001-030

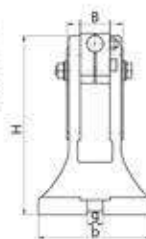
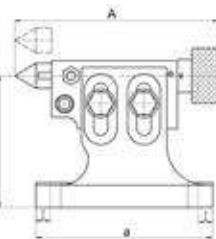
B. TAILSTOCK



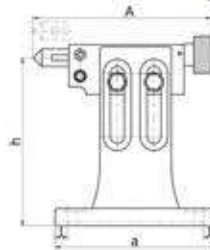
TS-1



TS-1



TS-2~TS-4



TS-3



Tailstock

Unit:mm

ORDER NO.	adjustable(h)		A	B	H	I	a	b	g	SUIT FOR MODEL	G.W. kgs	Meas. CFT	CODE NO.
	highest	lowest											
TS-1	108	80	155-180	64	107	11	134	94	16	HV-4, HV-6, VSI-4, VSI-5, BS-0, VUT-6, VU-100, VU-150	3.9	0.4	1001-022
TS-2	150	115	170-195	64	150	11	155	110	16	BS-1, CC-6, CS-6, HV-8	5.5	0.4	1001-023
TS-3	205	130	210-235	64	205	13	185	138	16	CS-8, HV-10, HV-12, CC-8, VUT-10, VUT-12, VU-200	8.1	0.4	1001-024
TS-4	260	182	210-235	75	260	17	205	144	16	HV-14, CC-12, HV-16	11.9	0.7	1001-025

Tilting Rotary Table



NEW

صفحه گردان سینوسی

Heavy Duty Type, Rigid & Strong Design



VUT-6

VUT-12



VUT-6

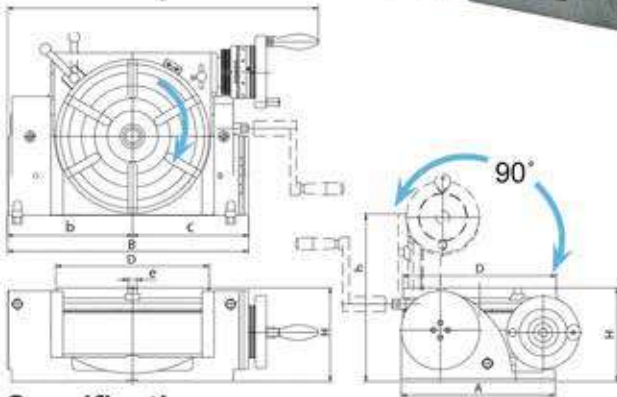
Table Tilting Handle



VUT-10



New Model



- Low profile, low center height.
- Tilting by rigid & strong design, 2 supporter & rigid clamping system construction.
- Minimum set-up time.
- Tilting angle can adjusted by worm & worm gear system.
- Accurate and built for use in milling, boring and other machines.
- Indexing, facing and other operations can be done rapidly with extreme precision.
- Worm shafts are hardened and ground.
- Indexing can be done with optional dividing plates.



Specifications

ORDER NO.	TABLE DIAMETER & TABLE HEIGHT			MOUNTING SURFACE		OVER ALL SIZE			T-SOLT WIDTH	CENTER HOLE	CENTER HEIGHT (Tilted at 90°)	WEIGHT (kgs)	CODE NO.
	D	H	h	A	B	a	b	c	e				
VUT-6	150	115	165	180	268	380	143	125	11	MT-2	90	23.5	1001-014
VUT-10	250	155	275	255	397	495	210	187	14	MT-3	150	75.5	1001-015
VUT-12	300	178	319	300	447	551	235	212	16	MT-4	169	108	1001-016

OPTIONAL : Detail see A3

FLANGE & DP-1, DP-3



DIVIDING PLATES

ORDER NO.	SUIT FOR MODEL	WEIGHT (kgs)	CODE NO.
DP-1	for VUT-6	1.4	1001-030
DP-3	for VUT-10, VUT-12	4.6	1001-032

TAILSTOCK

Unit:mm



ORDER NO.	Adjustable highest	Adjustable lowest	SUIT FOR MODEL	G.W. (kgs)	MEAS CFT	CODE NO.
TS-1	108	80	VUT-6	3.9	0.4	1001-022
TS-3	205	130	VUT-10, VUT-12	8.1	0.4	1001-024

MAIN SPECIFICATIONS		VUT-6	VUT-10 VUT-12
TILTING	Degree per one handle rotation	6°	1°
	vernier reading	1'	2'
	Scale of micro collar	5'	1'
TABLE	Degree per one handle rotation	4°	4°
	Scale of micro collar	2'	1'
	vernier reading	20"	10"
	Gear ratio	1:90	1:90



Multiple Tilting Rotary Table



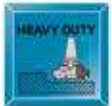
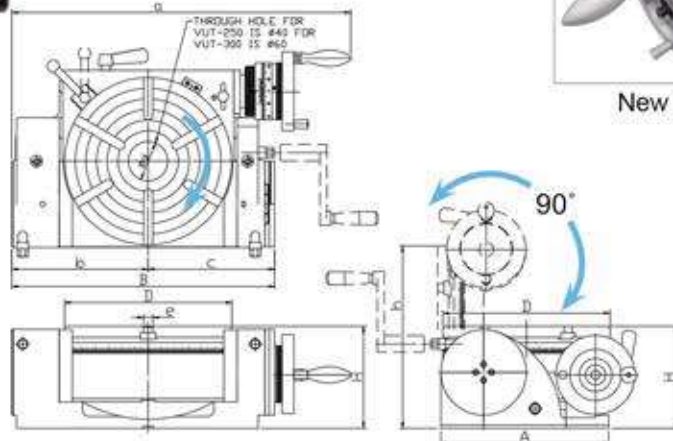
صفحه گردان سینوسی

NEW

1. BIG THROUGH HOLE DESIGN TYPE 250 IS Ø45, TYPE 300 IS Ø65
2. WITH 15°, 24 DIVISION DIRECT INDEX.
3. HEAVY DUTY TYPE. RIGID & STRONG DESIGN.



New Model



- The Feature is same as VUT-6, 10, 12 type.
- For the long bar & other work piece need BIGGER BORE size.
- Multiple purpose.
- Fast dividing function : 15° division by handle x 24/360°
- Improve efficiency, save cost.
- Upgrade your millig machine to speed up production.

Specifications

ORDER NO.	TABLE DIAMETER & TABLE HEIGHT			MOUNTING SURFACE		OVER ALL SIZE			T-SOLT WIDTH	CENTER HOLE	CENTER HEIGHT (Tilted at 90°)	WEIGHT (kgs)	CODE NO.
	D	H	h	A	B	a	b	c	e				
VUT-250	250	155	275	255	397	495	210	187	14	Ø45	150	75.5	1001-015A
VUT-300	300	178	319	300	447	551	235	212	16	Ø65	169	108	1001-016A

OPTIONAL : Detail see A3

FLANGE & DP-3



TS-3



DIVIDING PLATES

ORDER NO.	SUIT FOR MODEL	WEIGHT (kgs)	CODE NO.
DP-3	for VUT-250, VUT-300	4.6	1001-032

TAILSTOCK

ORDER NO.	Adjustable		SUIT FOR MODEL	G.W. (kgs)	MEAS CFT	CODE NO.
	highest	lowest				
TS-3	205	130	VUT-250, VUT-300	8.1	0.4	1001-024

Unit:mm

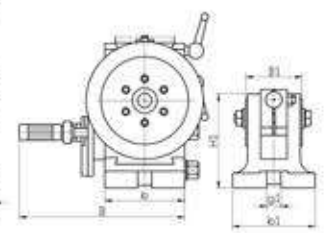
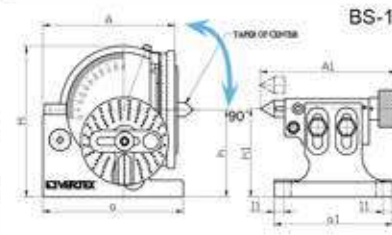
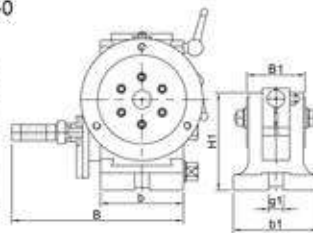
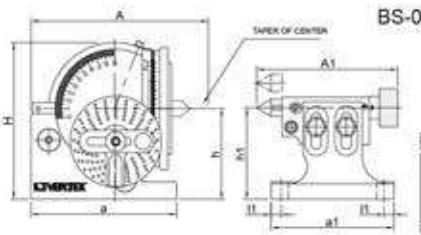
دستگاه تقسیم

Standard Accessories



Dividing Plate A, B, C

Plate A	15	16	17	18	19	20
Plate B	21	23	27	29	31	33
Plate C	37	39	41	43	47	49



BS-0,1 (Head-stock):

BS-0,1 (Tail-Stock):

Unit:mm

ORDER NO.	A	B	H	I	a	b	g	h	TAPER OF CENTER	SPINDLE THROUGH HOLE	CODE NO.
BS-0	177	188	173	13	160	91	16	100	MT-2	18	1001-050
BS-1	245	230	220	19	205	114	16	128	MT-3	20	1001-051

ORDER NO.	A1	B1	H1	I1	a1	b1	h1	g1	N.W. (KG)
BS-0	155-180	64	107	11	134	94	80-108	16	4
BS-1	170-195	64	150	11	155	110	150-115	16	5.3

- Dividing Head can divide in any angle by the direct, indirect, or different methods. The ratio between the worm and the worm gear is 40:1. Indirect indexing of all numbers from 2 to 50 and many numbers up to 380 possible
- Hardened and ground spindle is rigidly held in a taper roller bearing. Worm is hardened and ground also.
- The swivel head can be locked of any angle from 10° below horizontal to 90° vertical-precision fitting to base assures smooth rotation.
- All models have threaded spindle nose and 24 hole dividing plate with easy conversion to fast direct indexing on numbers 2, 3, 4, 6, 8, 12, and 24.
- Accurate precision, little backlash, fine appearance and strong structure so can assure smooth rotation.



BS-0-J-5 is BS-0 fitted with 5" 3-Jaw Chuck



BS-2A-J-8 The Chuck Fixing Hole Is From Front.

OPTIONAL

The Chuck Fixing Hole Is From Front.
F. TYPE



BS-0T 1 1/2 - 8TPI TYPE
BS-0T 1 1/8 - 12TPI TYPE
BS-1T 1 1/2 - 8TPI TYPE
Call VERTEX to check old model's stock.

ORDER NO.	N.W. (kgs)	G.W. (kgs)	Meas. CFT	Applicable Chuck	CODE NO.
BS-0	19	(C)20	0.8	5" (Ø130mm)	1001-050
BS-1	32	(C)33	1.3	6" (Ø160mm)	1001-051
BS-0-J-5	24	(C)25	0.8	WITH 5" CHUCK	1001-053
BS-1-J-6	42	(C)45	1.3	WITH 6" CHUCK	1001-054



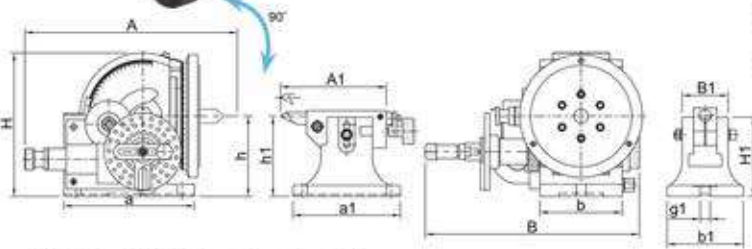
Universal Dividing Head



BS-2

دستگاه تقسیم

Standard Accessories



BS-2-J-8

THE CHUCK FIXING HOLE IS FROM FRONT.

BS-2T TYPE

Thread Spindle: 2 1/4" - 8tpi
Call To Check Old Model's Stock.

BS-2, 2A (Head-stock)

Unit:mm

ORDER NO.	A	B	H	I	a	b	g	h	Taper of center	SPINDLE THROUGH HOLE	CODE NO.
BS-2	359	340	235	20	212	135	16	134	MT-4	25	1001-052
BS-2A	285	202	237	20	213	134	16	134	MT-4	25	1001-057

ORDER NO.	WITH CHUCK	WEIGHT (kgs)	CODE NO.
BS-2		65	1001-052
BS-2-J-6	6"	78.5	1001-055
BS-2-J-8	8"	80	1001-056
BS-2A		47.5	1001-057
BS-2A-J-6	6"	57	1001-058
BS-2A-J-8	8"	63	1001-059

BS-2, 2A (Tail-stock)

Unit:mm

ORDER NO.	A1	B1	H1	I1	a1	b1	h1	g1	N.W. (KG)
BS-2	135-175	75	130	15	175	125	120-145	16	10
BS-2A	218	74	139	15	175	124	134	16	10

ORDER NO.	Gross Weight kg	Meas. CFT	Applicable Chuck
BS-2	(C)65	3.4	6" OR 8" F TYPE
BS-2A	(C)47.5	1.24	6" OR 8" F TYPE



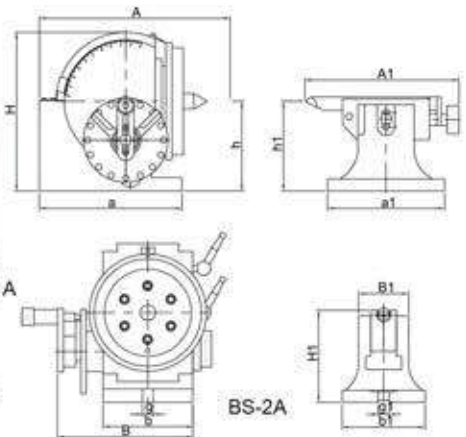
Semi-Universal Dividing Head BS-2A

BS-2A

Semi-UNIVERSAL DIVIDING HEAD W/O CHANGE GEAR TYPE



Standard Accessories



BS-2A COMES WITH A TAIL STOCK, A SET OF DIVIDING PLATE, A SET OF CARRIER CLAMP, A 3 JAW PLATE, A CENTER
BS-2A BODY STRUCTURE IS SAME AS BS-2 WITHOUT CHANGING GEAR ARBOR OR BRACKET. OTHER ACCESSORIES ARE SAME AS BS-2.

BS-2A

BS-2A

صفحه تقسیم / گردان

Standard Accessories



Masking Plate



Face Plate

Optional Accessories

The same as Rotary table
Please see page A3

TS-2 for CS-6
TS-3 for CS-8

CS-8 with VSK-8A 3-JAW CHUCK MASKING PLATE & FACE PLATE

This product combines the advantages of the Super Index with those of a worm-gearred index. When mounted on a milling, boring or other machine tool it can carry out single-purpose indexing and indirect indexing using the worm-drive mechanism. Disengaging the worm drive the 24-notch master plate permits 2, 3, 4, 6, 8, 12 and 24 dividing in the same manner as the Simple Index. When the chuck is removed, the unit can be used as a horizontal and vertical type rotary table. The operating handle to rotary table worm gear reduction ratio is 1:90. The operating handle collar is graduated in one minute, and readings down to ten seconds can be set on the vernier. Super spacer index include 3 jaw chuck, 10"/250mm face plate, masking plates 2, 3, 4, 6, 8, 12.



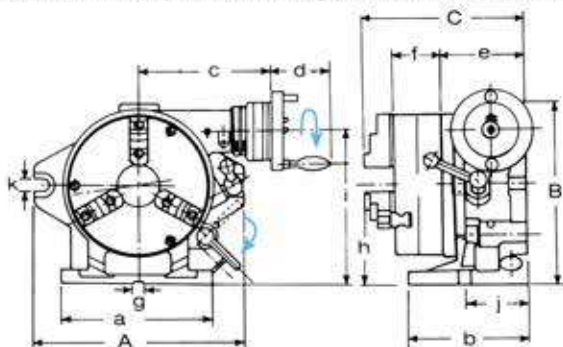
DP-4



The state of CS-8
fitted with Face Plate
& Dividing Plate



New Model



SPECIFICATIONS	CS-6 CC-6	CS-8 CC-8
Degree per one handle rotation	4°	4°
Scale of micro collar	2'	1'
vernier reading	20"	10"
Gear ratio	1:90	1:90

Specifications

ORDER NO.	Numbers of dividing	Chuck Through Hole				Face plate		A	B	C	a
		Outer diameter	Inner jaw	Outer jaw	Inner dia	Outer dia	Thickness				
CS-6	2, 3, 4, 6 8, 12, 24	160 VSK-6A	4~42	10~156	44	203	50	250	235	221	220
CS-8		210 VSK-8A	4~62	10~180	63	254	58	310	285	243	225

Unit:mm

ORDER NO.	b	c	d	e	f	g	h	i	j	k	Gross Weight kgs	Meas. CFT	CODE NO.
CS-6	150	184	82	112	66	16	123	186	80	18	(C)43.6	1.2	1001-060
CS-8	160	201	82	125	75	16	155	232	90	18	(W)78.3	3.1	1001-061

Unit:mm

(W)Wooden Case (C)Carton Case



Simple Indexing Spacer



صفحه تقسیم / گردان



CC-12, Ø105
BIG THROUGH HOLE DESIGN



CC-8

※ When order optional higher accuracy chuck , price will be higher. **Masking Plate**

- The center through hole is big to be suitable for the large and long workpiece.
- Hardened and ground 24 position master plate, can index the special angle of 15 with excellent accuracy.
- CS-Type can be used with 2 pcs type 3-Jaw Chuck. Especially, it does similar work. as rotary table when it match with face plate.
- Rapid indexing and easy operation. It's a sharp equipment for mass-production.
- Simple index include 3-jaw chuck, Masking Plates 2, 3, 4, 6, 8, 12
- Used the key guide block, the center can be corrected quickly and accurately.
- CC-6 with VSK-6A chuck front fixing hole type.
- CC-8 with VSK-8A chuck front fixing hole type.
- CC-12 with VSK-12 chuck front fixing hole type.
- CC-12A with VSK-12A chuck economical chuck.

CS-6 with VSK-6A chuck front fixing hole type.
CS-8 with VSK-8A chuck front fixing hole type.

FIG. (I) CC-6, 8

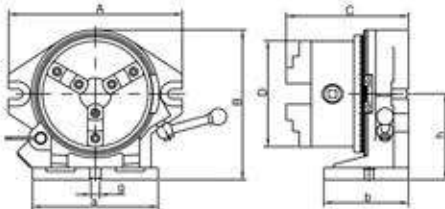
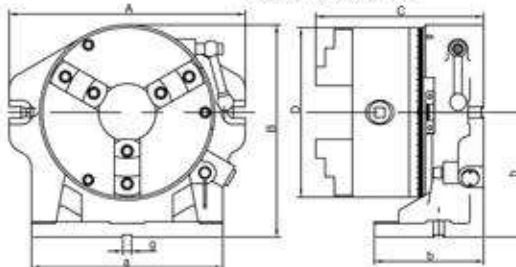


FIG. (II) CC-12



STANDARDS OF ACCURACY for Simple Index for Super-Dex.		
NO.	Testing Objective	Tolerances Per 100mm Permitted Max.
1	Parallelism of table surface to base	0.02
2	True running of axial movement of table surface	0.03
3	True running of center boss	0.02
4	Squareness of base to angle face	0.02

Optional Accessories

Tailstock

TS-2 FOR CC-6
TS-3 FOR CC-8
TS-4 FOR CC-12
please see page A3



Specifications

Unit:mm

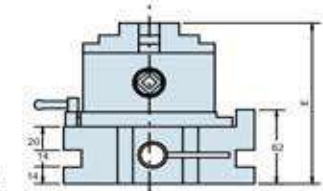
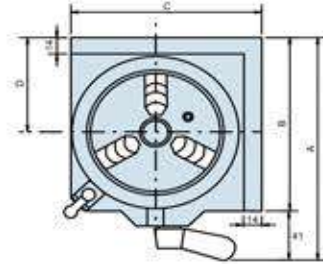
ORDER NO.	Fig.	Dividual number	A	B	C	D	a	b	h	Inner jaw	g	Outer jaw	Diameter of hole (turret)	Diameter of hole (chuck)	Gross weight kgs	Meas. CFT	CODE NO.
CC-6	I	2, 3, 4, 6	253	225	179	160	187	115	130	Ø55~Ø145	16	Ø3~Ø160	44	44	(C)29.5	0.9	1001-062
CC-8	II	8, 12, 24	318	274	209	200	230	155	157	Ø65~Ø200	16	Ø4~Ø200	63	58	(C)51.5	1.3	1001-063
CC-12	II	2, 3, 4, 6	432	388	293	315	350	200	228	Ø100~Ø315	16	Ø10~Ø315	106	105	(W)163	3.6	1001-066
CC-12A	II	8, 12, 16, 24, 48	432	388	293	315	350	200	228	Ø100~Ø315	16	Ø10~Ø315	106	105	(W)163	3.6	1001-066A



صفحة تقسيم تخت



COLLET INDEXER NON ECONOMICAL



- 3 JAW CHUCK VSC-4A, for VSI-4 / VSC-5A for VSI-5, the big range clamping capacity $\phi 3 - \phi 100$, it's better than collet fixing type.
- Simple & rapid operation.
- Dividual number 24-notch (15° each)
- Table scale 1° , for angular indexing.
- Table bore 30mm.
- Horizontal / vertical & 2 direction
- Suit for milling & drilling machine using.
- Optional: tailstock TS-1, Please see page A2

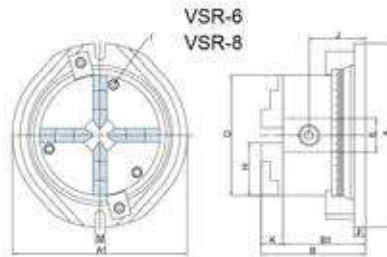
ORDER NO.	A	B	C	D	E	Through Hole	kgs	CODE NO.
VSI-4	187	146	146	80	135	$\phi 30$	10.5	1001-064
VSI-5	202	161	161	87	142	$\phi 30$	14.5	1001-065

Simple Rotary Chuck

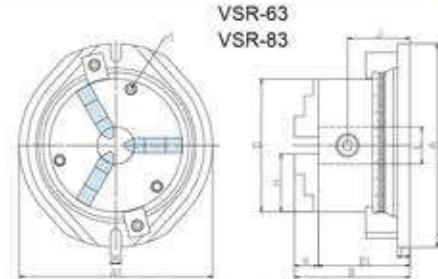
NEW



VSR-63








VSR-6 + VPS-6A 4JAW CHUCK
VSR-8 + VPS-8A 4JAW CHUCK



VSR-63 + VSC-6A 3JAW CHUCK
VSR-83 + VSC-8A 3JAW CHUCK

- 4-jaw chuck (include reversable and removable jaw) is designed with swivel base for multifunctional purpose.
- VERTEX simple rotary chuck can be placed and fixed on your desired position.
- 360° vernier scale: smooth swival motion and easy locking by screws.
- Both horizontal and vertical position could be used on milling and machining center.

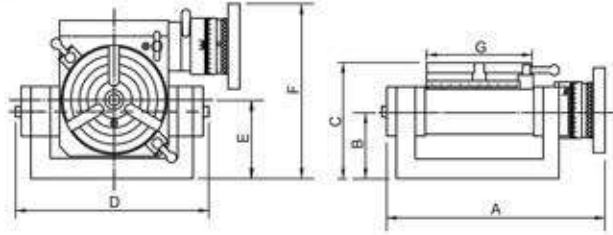
ORDER NO.	FOR SHAPE	A	A1	B	B1	D	E	F	H	I	J	K	M	kgs	CODE NO.
VSR-6		245	233	139	110	160	45	15	70	3-M8	69	29	14	18	1001-068
VSR-8		305	270	159	125	200	65	20	86	3-M10	75	34	18	30.5	1001-067
VSR-10		373	355	165				22		3-M12			16	43.5	1001-069
VSR-63		245	233	139	110	160	45	15	70	3-M8	69	29	14	18	1001-068A
VSR-83		305	270	159	125	200	65	20	86	3-M10	75	34	18	30.5	1001-067A



Universal Tilting Rotary Table



صفحه گردان سینوسی



- Tilting range 0°-90° degrees from horizontal to vertical position, It is high rigidity.
- Minimum Set-up time: It has two screws to lock setting. Low profile body for bigger capability.
- Worm is hardened and ground. The ratio is 90:1. The work table is graduated a full 360° so that of the handle moves the table through 4°. Micro collar is graduated in steps of 2' min.
- The tailstock & Dividing plates are optional. The sizes is same as the rotary table, please see page A2.
- For arc or index cutting at milling machine, Grinding machine or drill Machine.....

OPTIONAL:

Please see page A3

1. TAILSTOCK

ORDER NO.	CODE NO.
TS-1	1001-022
TS-3	1001-024

2. DIVIDING PLATE

ORDER NO.	CODE NO.
*DP-1 for VU-100, 150	1001-030
*DP-2 for VU-200	1001-031



ORDER NO.	A	B	C	D	E	F	G	SUITABLE TAILSTOCK	SUITABLE DIVIDING PLATE	WEIGHT kgs/cuft	CODE NO.
VU-100	228	68	117	202	80	177	110	TS-1	DP-1	13.5 / 1.5	1001-011
VU-150	266	75	140	246	90	216	150	TS-1	DP-1	21.5 / 2.0	1001-012
VU-200	429	111	177	432	141	283	205	TS-3	DP-2	46 / 2.5	1001-013

Big Through Hole / Fast Indexing Rotary Table



15° DIVISION

Feature:

- Center Bore = $\phi 65\text{mm}$
- For the long bar & other work piece need BIGGER BORE size.
- Multiple purpose.
- Fast dividing function : 15° division by handle x 24/360°
- Improve efficiency, save cost.
- Upgrade your millig machine to speed up production.



SPECIFICATIONS	HVD-400
Degree per one handle rotation	4°
Scale of micro collar	1'
vernier reading	10"
Gear ratio	1:90



New Model

Specifications

ORDER NO.	Through Center hole	Numbers of dividing	Table			Base dimension			Width of T-slot		Bolt slots	The load capacity for rotary table		Weight (kg)		CODE NO.	
			Outer diameter		Height	H1	A	B	e	TYPE		g	Horizontal	Vertical	N.W.		G.W
			A1	D													
HVD-400	$\phi 65$	15°	128	406	130	255	500	435	16		18	140kgs	70kgs	122	1001-110		

Hydraulic Machine Vise



PATENT

- New design: Adjustable pressure device.
- Jam proof system.
- Hydro limit proof.
- Screw shaft broken proof

گیره هیدرولیک



VH-12

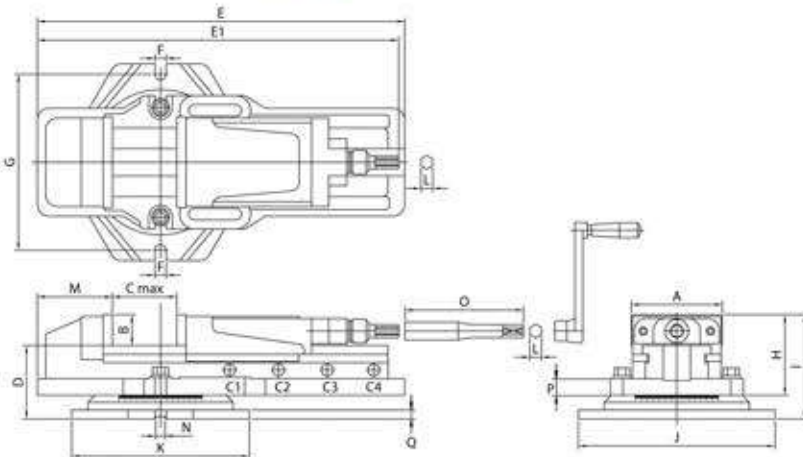


VH-6

Hydraulic controller: provide stable pressure, Hydro indexer. Protect the hydro system. Hydro limit proof reference scale. Screw shaft broken proof.



- New design: jam proof system: prevent wrong clamping force sticks the vise.
- Constructed for milling, drilling, shaping, grinding and many other machine shop applications.
- Sliding bed ways flame hardened and ground.
- Concealed spindle for protection against chips and dirt.
- Hydraulic-booster system for maximum clamping pressure with minimum force.
- Quick of clamping & locking and easy of operation.
- Accuracy within 0.02mm.
- Furnished with or without swivel base.
- Hydraulic-booster system is guaranteed for using 1 years limited.
- The hydraulic oil number is #68.
- Hydro line - one scale indicate about 1/3 of the max. clamp force.
- In order to ensure the accuracy when using it better that don't put swivel base together



Order No. & Dimensions



ORDER NO.	A	B	C max	Opening Size For Capacity				D	E	E1	F	G	H	I	J	K	L	M	N	O	P	Max. Clamp Force (kgf)	G.W. (kgs)	CFT (cm)	CODE NO.
				C1	C2	C3	C4																		
VH-4	108	36	170	0-58	56-115	113-170		98	443	583	14	235	95	135	270	240	14	110	16	156	22	2500	28	45x25x16	1002-001
VH-5	132	48	210	0-75	73-150	148-210		113	550	703	17	253	118	161	290	263	19	124	16	165	22	4500	47	56x28x18	1002-002
VH-6	151	52	300	0-100	98-200	198-300		124	620	800	19	298	136	176	332	300	19	126	16	200	30	4500	63	65x34x22	1002-003
NEW VH-6L	151	52	355	0-100	98-200	198-300	298-355	124	620	800	19	298	136	176	332	300	19	126	16	200	30	4500	63	65x34x22	1002-007
VH-8	204	62	300	0-100	98-200	198-300		144	680	857	17	342	162	206	375	350	19	155	16	200	30	7500	110	71x38x25	1002-004
NEW VH-8L	204	62	400	0-100	98-200	198-300	298-400	144	795	950	17	342	162	206	375	350	19	155	16	200	30	7500	108	84x42x30	1002-005
NEW VH-12	305	72	375	0-75	73-175	173-275	273-375	144	795	950	17	342	162	206	375	350	19	170	16	200	30	7500	138	84x35x27	1002-006



Tilting Hydraulic Machine Vise **VERTEX**

PATENT

گیره هیدرولیک سینوسی

New Design

- Jam proof system
- Great smooth operation
- Hydro limit proof.
- Screw shaft broken proof



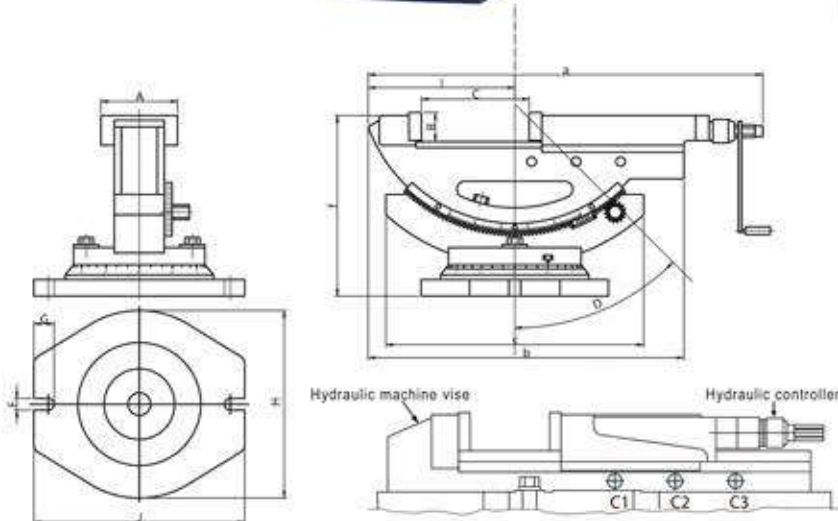
VHT-4



VHT-6

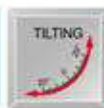
TILTING ADJUSTABLE BY GEAR SYSTEM

50°



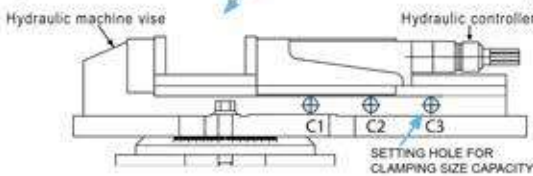
Hydraulic controller:
provide stable pressure,
Hydro indexer. Protect the hydro system.
Hydro limit proof reference scale.
Screw shaft broken proof.

- The same as characters of VH type. Swivel base same as VH type.
- Tilting seat set by two locking screws, works in high stability.
- Angle setting ranges from 0°~50°. Tilting degrees graduated for easy reading.
- Swivel base graduated to 360° and fixable in any position.
- THE (3 STEPS CLAMPING POSITION) SAME AS VH TYPE.
- Accuracy within 0.02mm
- Hydraulic-booster system is guaranteed for using 1 years limited.

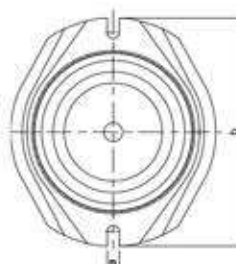


ORDER NO.	A	B	C OPEN	Opening Size For Capacity			D	E	F	G	H	J	a	b	c	f	Max. Clamp Force (kgf)	G.W. (kgs)	Meas CFT	CODE NO.
				C1	C2	C3														
VHT-4	110	36	170	0-58	56-115	113-170	50°	15	15	26	240	270	500	404	335	230	2500	(W)33.3	1.2	1002-020
VHT-6	154	54	300	0-100	98-200	198-300	50°	20	19	28	300	330	800	585	415	290	4500	(W)88	4.4	1002-021

CLAMPING CAPACITY (3 STEPS CLAMPING POSITION FIG)



Swivel base



Swivel base

Unit:mm

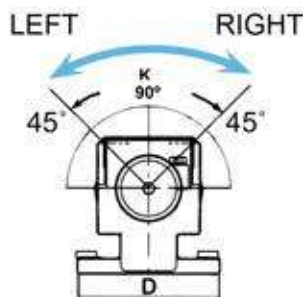
ORDER NO.	a	b	c	n	Q	G.W. (kg)	CODE NO.
HS-4	280	210	30	16	15	4	1002-010
HS-5	297	267	43	16	20	7	1002-011
HS-6	335	310	40	16	20	10	1002-012
HS-8	373	355	45	16	22	16	1002-013

Universal Tilting Hydraulic Machine Vise

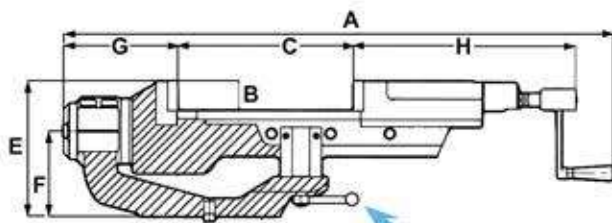
PATENT گيره هيدروليک سينوسي

NEW

- JAM PROOF
- HYDRO LIMIT PROOF.
- SCREW SHAFT BROKEN PROOF



Hydraulic controller: provide stable pressure, Hydro indexer. Protect the hydro system. Hydro limit proof reference scale. Screw shaft broken proof.

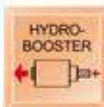
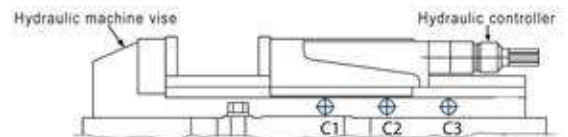


CLAMPING HANDLE



CLAMPING HANDLE FOR TILTING

- New design: adjustable pressure device.
- Suit for processing of brass, AL, plastic, steel.
- New design: super open jaw size, smallest open jaw size.
- Lock proof system: prevent wrong clamping force sticks the vise.
- 45 Degree tilting function by hand, allow 90 degree processing!
- Tilting function has more work free allowance will not block or hit machine!
- Lower overall height provides more space for heavy cutting stability and bigger workpiece!
- Tilting structure has strong tightening design.
- All function same as VH series. Except the tilting Structure.



ORDER NO.	A	B	C OPEN	Opening Size For Capacity			D	E	F	G	H	Max. Clamp Force (kgf)	K Max. Degree	G.W. (kgs)	CODE NO.
				C1	C2	C3									
VHT-4U	690	36	170	0-58	56-115	113-170	ø165	175	110	130	290	2500	90°	37.39	1002-025
VHT-6U	940	54	300	0-100	98-200	198-300	ø225	235	140	150	375	4500	90°	93.96	1002-026



Hydraulic Machine Vise

HYDRO + MECHANICAL PAT.

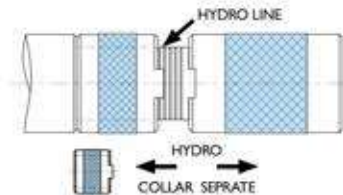
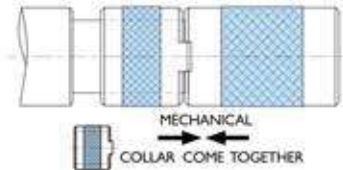
Power Build Out Type



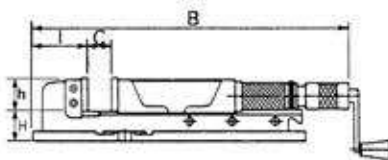
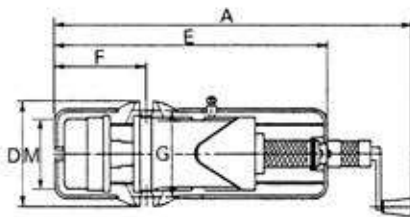
گیره هیدرولیک



COLLAR OPERATE



MECHANICAL USEING
SUIT FOR PROCESSING OF
BRASS, AL, PLASTIC, STEEL,
CASTING



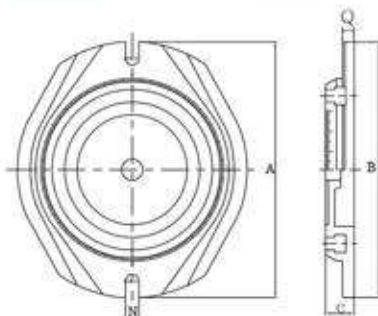
Features

- Hydro : move the spindle ring until see the hydro line to work vise.
- Mechanical : move the spindle ring toward the end until the bushing close the hydro line.
- Heavy duty cutting.
- Hardness > HRC 45° : vise sliding bed.
- High durability & high precision.
- Tolerance : 0.01/100mm
- Lift proof : press down design.
- FCD 60 with 60 kgs/mm² or 80,000 psi high quality ductile cast iron - body material - reduce the cutting vibration.



VHO-VISE

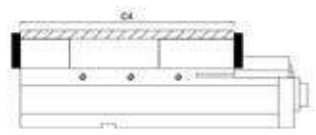
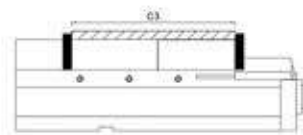
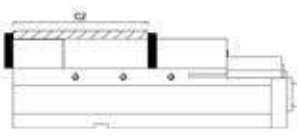
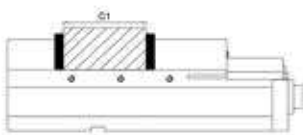
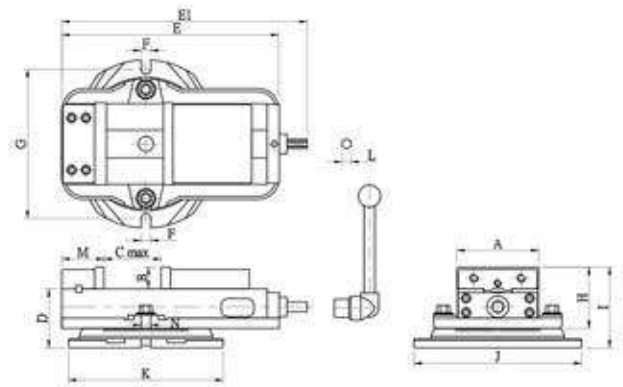
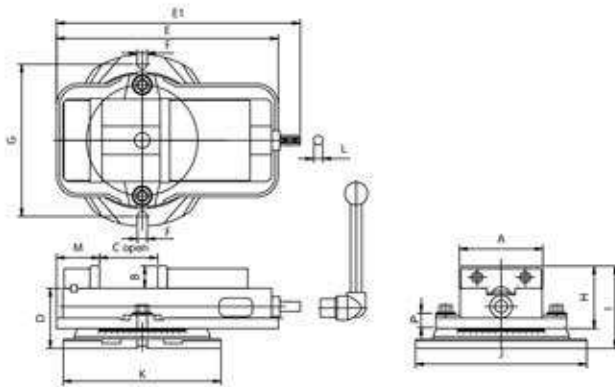
ORDER NO.	A	B	C OPEN	D	E	F	G	H	I	M	h	Jaw w	Max. Clamp Force (kgf)	N.W. (kgs)	CODE NO.
VHO-5	695 920	545 775	0-220	190	505	180	160	74	105	130	55	130	3500	36.5	1002-220
VHO-6	750 1060	600 915	0-300	240	625	208	196	80	125	160	58	160	4000	59.1	1002-221
VHO-8	830 1140	700 1015	0-310	280	700	265	240	100	165	200	63	200	5000	94.3	1002-228



Optional : Swivel Base

ORDER NO.	A	B	C	N	N.W. (kgs)	CODE NO.
HSO-5	285	263	35	16	12.5	1002-222
HSO-6	330	320	40	18	16.5	1002-223
HSO-8	415	413	50	21	35	1002-229

VD-690
VD-810



- The enclosed lead screw and sliding surface are harden and ground.
- Highest clamping power. It's very accurate and durable.
- This Vise is so designed that the horizontal Force generated by tightening the handle pushes the semisphere within the movable jaw and thus thrusts the movable jaw downward - angle lock feature.
- There fore, the workpiece does not lift, even if it is held at the top of the jaw plates.
- Four setting positions of the jaw plates are available, widening the jaw plates opening.
- ACCURACY WITHIN 0.02mm
- Mini order quantity : 3 sets for same height by request.
- In order to ensure the accurence when using it' better that don't put swivel base together



Order No. & Dimensions

ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	K	L	M	N	P	MAX. Clamp Force (kgf)	G.W. (KG)	C.F.T. (CM)	CODE NO.
VA-4	106	36	103	90	324	351	13	211	96	126	242	228	14.5	75	16	15	1500	20	35x24x15	1002-030
VA-5	135	36	110	97	359	394	17	246	101	133	277	255	14.5	85	16	15	2000	30	41x31x17	1002-031
VA-6	155	46	150	110	422	452	20	288	118	158	326	302	19	95	16	17	2500	42	49x35x20	1002-032
VA-8	210	60	197	129	553	583	19	355	145	190	395	366	19	105	16	19	3000	80	63x41x24	1002-033
VD-675	160	49	190	110	445	478	19	296	121	160	333	305	19	80	16	17	2500	42	52x35x21	1002-034
VD-690	155	46	230	110	450	480	20	288	118	158	326	302	19	67	16	17	2300	43	49x35x20	1002-034B
VD-810	205	62	275	129	555	615	19	378	147	191	420	377	19	79	16	17	3000	76	63x41x24	1002-035B



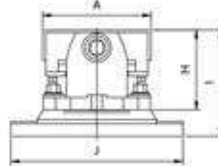
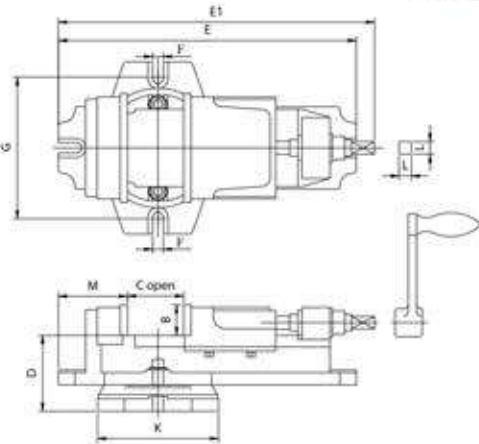
K-Type Milling Vise



گیره مکانیکی



- It's a practical piece of equipment with excellent precision and a high quality finished.
- Body, movable jaw and swivel base made of closes-grained high tensile iron castings. Built for machining and retained accuracy.
- Jaw plates were made of hardened and grounded tool steel.
- It's the most suitable for the Milling, Grinding and Drilling.
- ACCURACY WITHIN 0.02mm
- In order to ensure the accuracy when using it' better that don't put swivel base together.



Order No. & Dimensions

ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	K	L	M	Max. Clamp Force (kgf)	G.W. (kgs)	C.F.T. (cm)	CODE NO.
VK-4	104	36	62	76	293	310	13	145	83	113	176	122	15	65	900	10	33x13x13	1002-040
VK-5	132	37	80	92	362	384	13	172	97	129	209	147	15	84	900	16	40x16x15	1002.041
VK-6	154	43	112	105	442	473	15	209	108	148	260	181	16.5	90	1000	27	51x22x19	1002-042
VK-8	204	63	146	127	579	609	18	312	148	190	350	234	21	122	1400	59	65x27x25	1002-043

Super Open Vise

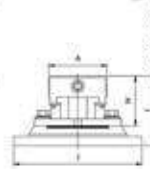
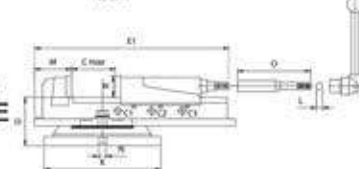
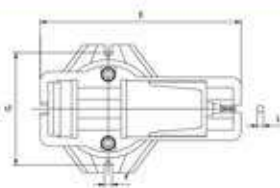
MECHANICAL TYPE



VJ-600

EXCEPT THE HYDRAULIC SYSTEM, THE FEATURE IS SAME AS VH-TYPE. ACCURACY WITHIN 0.02mm

Order No. & Dimensions



VJ-400 JAW OPENED 185mm
VJ-500 JAW OPENED 245mm
VJ-600 JAW OPENED 305mm

- In order to ensure the accuracy when using it' better that don't put swivel base together



ORDER NO.	A	B	C max	Opening Size For Capacity			D	E	E1	F	G	H	I	J	K	L	M	N	O	Max. Clamp Force (kgf)	G.W. (kgs)	CFT (cm)	CODE NO.
				C1	C2	C3																	
VJ-400	110	38	185	0-65	52-129	116-185	97	386	516	15	240	96	135	270	238	14.5	90	16	156	1500	25	46x26x16	1002-050
VJ-500	132	48	245	0-78	70-158	150-245	110	455	580	17	255	113	158	290	265	19	85	16	166	1500	34	48x28x18	1002-051
VJ-600	154	56	305	0-111	97-211	197-305	118	546	722	17	255	131	175	290	265	19	111	16	200	1500	46	57x30x22	1002-052

2-Way Angle Milling Vise

TW PAT.

گیره سینوسی

MECHANICAL TYPE



NEW



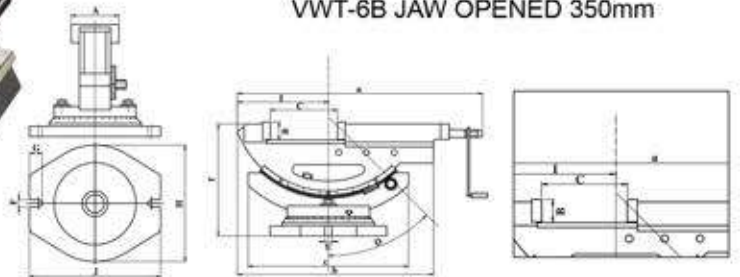
VWT-4B

VWT-6B

SUPER OPEN CAPACITY:

VWT-4B JAW OPENED 220mm

VWT-6B JAW OPENED 350mm



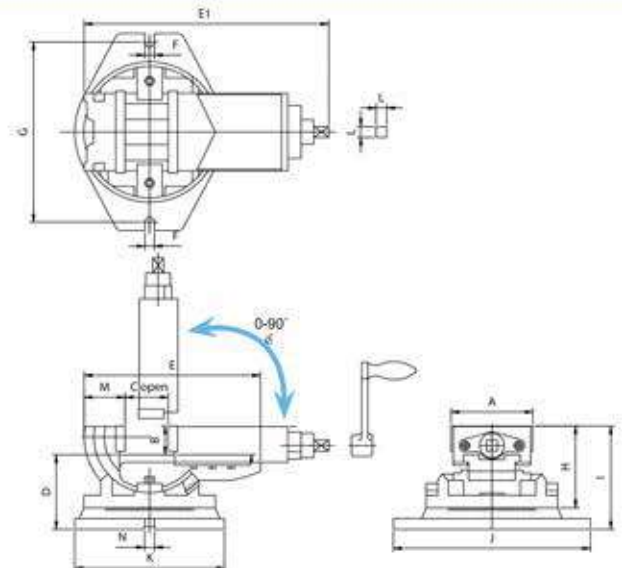
- Tilting seat set by two locking screws, works in high stability.
- Angle setting ranges from 0°~50°. Tilting degrees graduated for easy reading. Swivel base graduated to 360° and fixable in any position.



Order No. & Dimensions

ORDER NO.	A	B	C OPEN	D	E	F	G	H	I	J	a	b	c	f	Max. Clamp Force (kgf)	G.W. (kgs)	Meas CFT	CODE NO.
VWT-4B	110	36	220	50°	15	15	26	240	185	270	500	404	335	230	1200	(C) 33.3	1.2	1002-060B
VWT-6B	152	54	350	50°	20	19	28	300	246	330	800	585	415	290	1600	(W) 79.7	4.4	1002-061B

2-Way Machine Vise



- Heavy cast iron structure
- Scales in both axis
- 360°swivel around Z-axis
- 90° vertical and horizontal swivel



Order No. & Dimensions

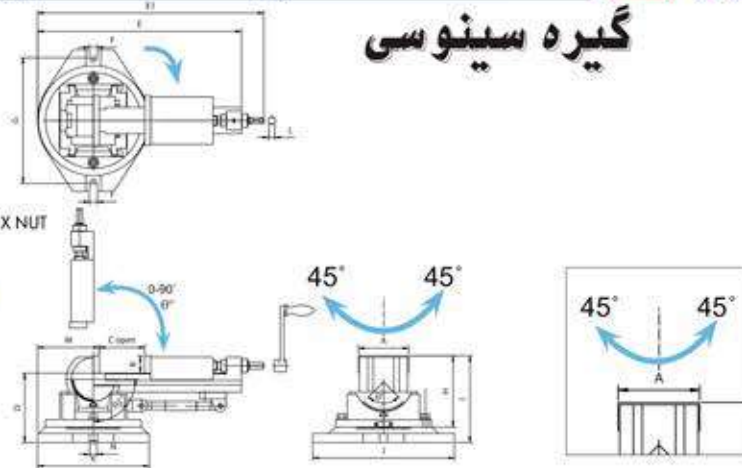
ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	K	L	M	N	θ	Clamp Force(kgf)	Meas CFT	CODE NO.
VWT-5	130	46	100	118	280	415	15	286	130	164	313	238	17	65	16	0°~90°	900	31.7	1002-090
VWT-6A	160	51	120	140	360	510	17	293	150	191	328	252	17	83	16	0°~90°	1600	47	1002-091



3-Way Angle Milling Vise



گیره سینوسی



- Angles can be set in 3 dimensions. Swivels 360° around base. The vise can be elevated through 90° from the horizontal to vertical. And also can be tilted on its lower angle base up to 45° in both right and left.
- Tilting of any angle all keep the workpiece steady, smooth.
- Particularly the clamping part of screw is strengthened by a bush made of gunmetal.
- Turn ① to adjust tilting angle. fix ② to lock.



Specifications

ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	K	L	M	N	θ	θ_1	MAX. Clamp Force (kgf)	G.W. (kgs)	Meas CFT	CODE NO.
VW-3	80	31	85	126	335	370	15	210	127	157	240	185	10	95	16	-45°~45°	-0°~90°	800	16.7	40x21x19	1002-080
VW-4	110	38	116	152	448	497	17	276	157	190	311	245	13	135	16	-45°~45°	-0°~90°	1000	32.7	56x27x23	1002-081
VW-5	135	40	145	170	530	580	17	310	173	210	358	271	13	140	16	-45°~45°	-0°~90°	1600	49.4	66x31x25	1002-082

Quick Index Holder

VFV-40H

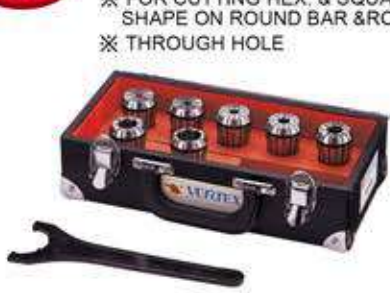
- SHANK HEX. TYPE
- FOR CUTTING 6 DIVISION TYPE
- EACH 60° FOR 1 DIVISION
- ※ FOR CUTTING HEX. & SQUARE SHAPE ON ROUND BAR & ROD
- ※ THROUGH HOLE

NEW

VFV-41S

- SHANK SQUARE TYPE
- FOR CUTTING 4 DIVISION
- EACH 90° FOR 1 DIVISION

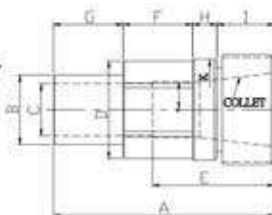
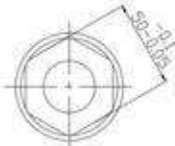
patent PAT.



60° DIVIDING FOR PUT ON THE VISE



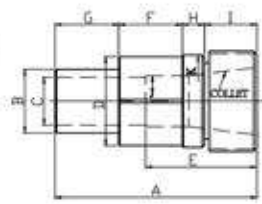
HORIZONTAL



90° DIVIDING FOR PUT ON THE VISE



VERTICAL



mm

ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	COLLET SIZE	WEIGHT KGS	CODE NO.
VFV-40H	127	40	30	56	70	40	40	14	33	32	58	ER-40 7 PCS/SET	4.8	1001-101
VFV-41S	127	40	30	56	70	40	40	14	33	32	58	ER-40 7 PCS/SET	5.2	1001-102

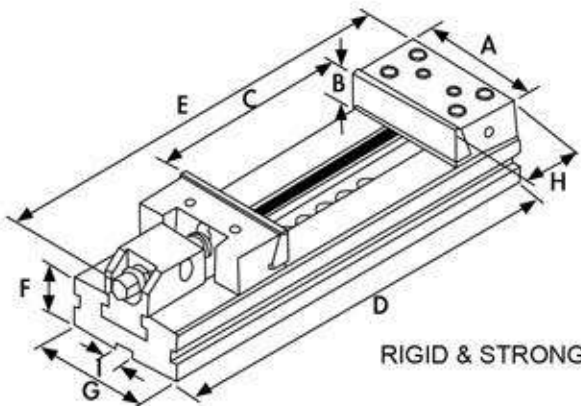


Modular Precision Machine Vise



SAME HEIGHT GUARANTEE

گیره دقیق



RIGID & STRONG

Features

- High Accuracy 0.01/100 mm
- Unlimited Clamping Range
- High Quality Alloy Steel with HRC 59
- High Clamping Pressure
- EACH ONE IS SAME AS HEIGHT.
- CAN BE USED IN MULTIPLE STYLE.
- No Length of Height Limitation
- No Jaw Lift
- Low Profile
- All Vises are Matched parallelism $\pm 0.01/100$ mm
- Optional : Swivel base



ORDER NO.	VMP -4	VMP -5	VMP -6	VMP -6B	VMP -6C	VMP -7A	VMP -7B	VMP -7C	VMP -8A	VMP -8B	VMP -8C	VMP -8D
A	100	125	150	150	150	175	175	175	200	200	200	200
B	30	40	50	50	50	60	60	60	65	65	65	65
C OPEN	100	150	200	300	400	200	300	400	200	300	400	500
D	270	345	420	520	620	455	555	655	573	595	695	795
E	325	360	530	600	700	620	620	620	718	718	718	880
F	35	40	50	50	50	58	58	58	70	70	70	70
G	75	96	125	125	125	145	145	145	170	170	170	170
H	78	78	90	89.4	89.4	97	97	97	114	114	114	113.4
I	16	16	16	16	16	16	16	16	16	16	16	16
Max. Clamp Force (kgf)	900	1300	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
KGS	9.2	16	28.5	34.8	38.1	43.7	48.3	53.5	66.3	73.2	81.3	87.2
CODE NO.	1002-190	1002-191	1002-192	1002-201	1002-202	1002-193	1002-194	1002-195	1002-196	1002-197	1002-198	1002-203



Modular Precision Hydraulic Machine Vise



PAT.

SAME HEIGHT GUARANTEE

گیره هیدرولیک دقیق

NEW

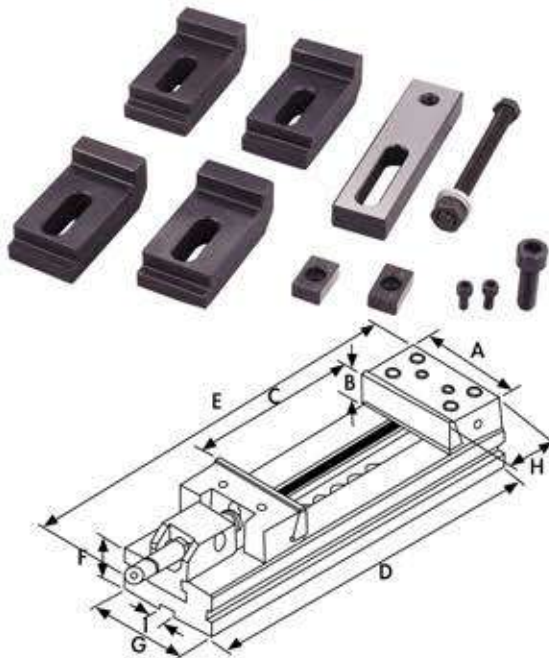


Hydraulic Type

Hydraulic Control Unit

Features

- New design: Adjustable pressure device.
- Suit for processing of brass, AL, plastic, steel.
- New design: super open jaw size, smallest open jaw size.
- lock proof system: prevent wrong clamping force sticks the vise.
- Hydraulic clamping force 4500kg for heavy duty cutting. The screw mechanism type clamping force is 2200 kgs
- Smooth & light operation for the handle.
- High accuracy 0.01/100 mm
- Unlimited clamping range
- High quality alloy steel with HRC 59
- High clamping pressure
- Each one is same as height.
- Can be used in multiple style.
- No length of height limitation
- No jaw lift
- Low profile, strong & rigid.
- All vises are matched parallelism $\pm 0.01/100$ mm



ORDER NO.	VMP -6BH	VMP -6CH	VMP -7AH	VMP -7BH	VMP -7CH	VMP -8AH	VMP -8BH	VMP -8CH	VMP -8DH
A	150	150	175	175	175	200	200	200	200
B	50	50	60	60	60	65	65	65	65
C OPEN	300	400	200	300	400	200	300	400	500
D	520	620	455	555	655	573	595	695	795
E	700	800	635	735	835	738	760	860	960
F	50	50	58	58	58	70	70	70	70
G	125	125	145	145	145	170	170	170	170
H	89.4	89.4	97	97	97	114	114	114	113.4
I	16	16	16	16	16	16	16	16	16
Max. Clamp Force (kgf)	4500	4500	4500	4500	4500	4500	4500	4500	4500
KGS	29	33	38	43	48	65	69	74	90
CODE NO.	1002-201H	1002-202H	1002-193H	1002-194H	1002-195H	1002-196H	1002-197H	1002-198H	1002-203H



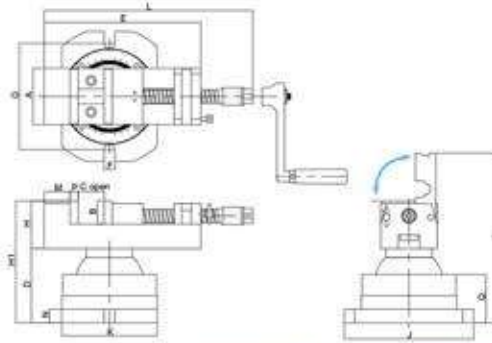
Free Angle Vise



Features ANY TILTING ANGLE

- Special design for quick clamping. (From the acme thread shaft stationly)
- Quick setting by sliding movement. Big clamping capability.
- Operating very quick and easy, can increase so much working efficiency than you can image.
- 360° Rotation, Tilting 30°
- Most free angle vise
- For non-normal angle setting.
- Its swivelling and tilting features with clamping make this unit for straight or inclined surface, angular drilling machining on various machine tools or for bench work table.

NEW



ORDER NO.	A	B	C OPEN	D	E	F	G	H	H1	J	K	L	M	N	P	Q	R	MAX. Clamp Force (kgf)	Weight (kgs)	CODE NO.
VAV-3	82	34	85	110	230	17	158	70	194	190	140	374	38	20	12	72	268	700	17.6	1002-214
VAV-4	106	36	104	120	256	17	158	72	206	190	140	422	38	20	16	72	280	800	21.4	1002-215

Lock-Fixed II Precision Machine Vise

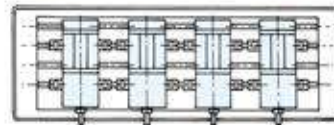
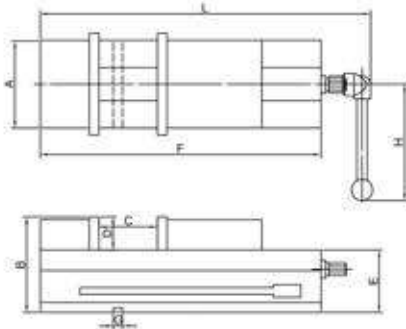
گیره دقیق

ORDER NO. VMC-4
VMC-6

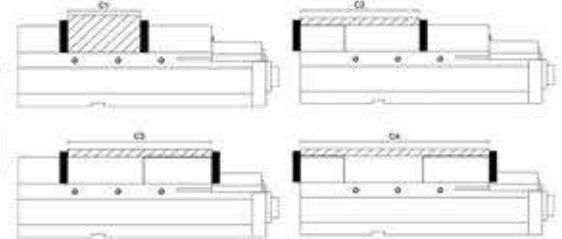


Performed sided vertically.

- With the ability of lock-fixed III 2, 3, 4, 5.
- Use the semi-sphere segment principle.
- When operate several vises (in a row) put on one machine bed, the operating situation is as shown.



Aligned Performance



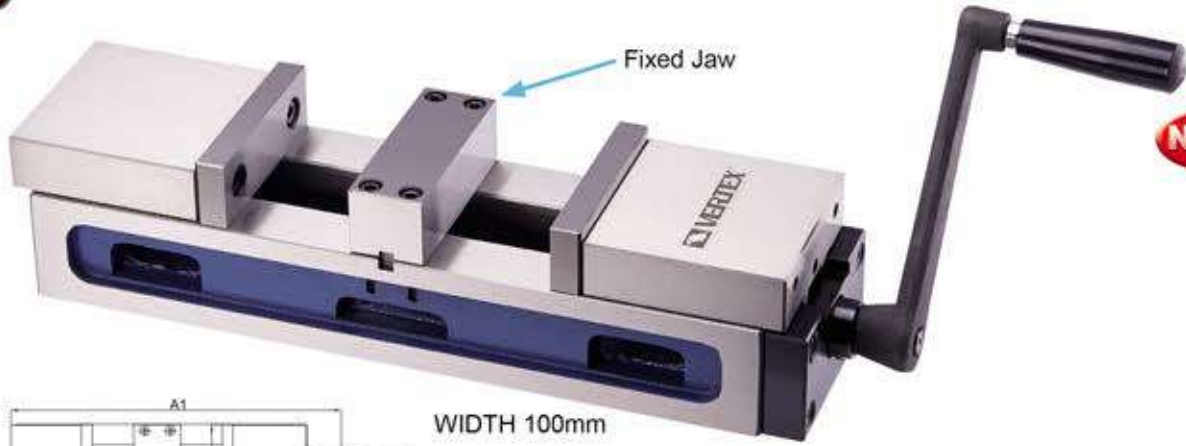
ORDER NO.	A	B	C OPEN	D	E	F	G	L	H	Max. Clamp Force (kgf)	Meas CUFT	Weight (kgs)	CODE NO.
VMC-4	108	100	103	36	63	283	16	374	202	1500	0.4	14.2	1002-185
VMC-6	156	120	150	46	74	370	16	472	221	2500	1.1	29.8	1002-186



Double Clamp Vice

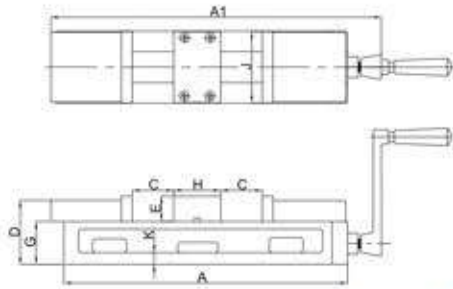


NEW



Fixed Jaw

WIDTH 100mm



- Opened 50mm each side.
- Accept 3mm workpiece different length.
- The slide ways are hardened.
- Precision made.
- One handle can operate two movable jaws and clamps 2 pieces of workpiece of similar size, for 3mm space.
- Lift Proof : Press down design.



Unit:mm

ORDER NO.	A	A1	B	C OPEN	D	E	G	H	J	K	MAX. Clamp Force (kgf)	Weight kgs	CODE NO.	
VCV-4D	410	469	108	0~50	0~50	92	36	62	68	107	16	450	18.2	1002-236



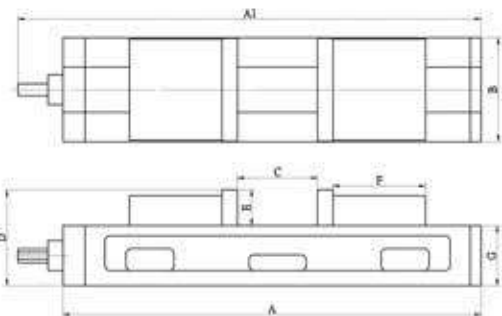
Compound Precision Vice

گیره های ۲ فک

NEW



SELF-CENTERING



- Self centering. Suit for rough or irregular workpiece.
- Compact design, 185mm super opened.
- High Accuracy
- Super open capacity=190mm
- Rapid and convenient centralizing.
- Lift Proof : Press down design.



ORDER NO.	A	A1	B	C OPEN	D	E	F	G	MAX. Clamp Force (kgf)	Weight (kgs)	CODE NO.
VCV-44	420	469	108	185	98	36	102	62	450	17.7	1002-240

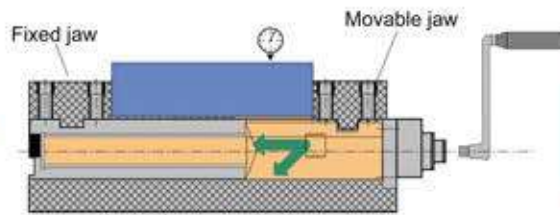
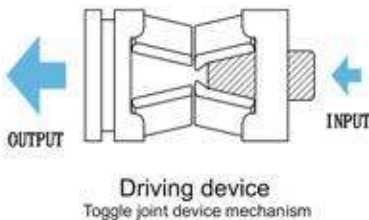
گیره قدرتی

GERMAN TYPE
JAPAN TYPE

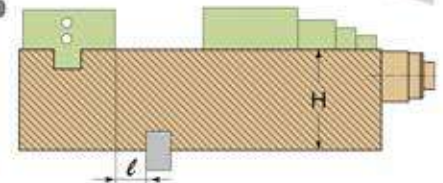


TOGGLE JOINT MECHANISM
DESIGN FOR HEAVY DUTY
WORKING

HEAVY DUTY
EURO STYLE



LOCK DOWN DESIGN



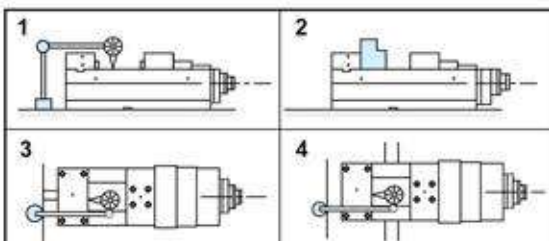
H-Accurance $\pm 0.01\text{mm}$
L-Accurance $\pm 0.01\text{mm}$

SAME HEIGHT GUARANTEE

Features

- Compact design. Great clamping capacity & rigid.
- "Toggle joint mechanism". Provides a steady clamping force against shocks and vibrations during the operations, since it clamps the workpiece resiliently with an aid of the "disc-springs" mounted inside.
- Strong clamping force.
- Large jaw stroke range.
- Exclusive Power Vise provide same height same position for horizontal and vertical MC, NC, Machine.
- Body is made of FCD60 high quality ductile cast iron, resists deflection or bending.
- Sliding bed ways flame hardened and ground.
- Concealed spindle for protection against chips and dirt.
- Quick of clamping & locking and easy of operation.

INSPECTION SPECIFICATION



NO.	Inspection Item	Per (100mm)	Guaranteed
1	Parallelism: table face to bottom of bed.		0.01/100mm
2	Squareness :between table face and jaw plate.		0.02/100mm
3	Squareness: keways on bottom of table face to jaw plate.		0.02/100mm
4	Parallelism: table face of the block to bottom of bed.		0.02/100mm



گیره قدرتی



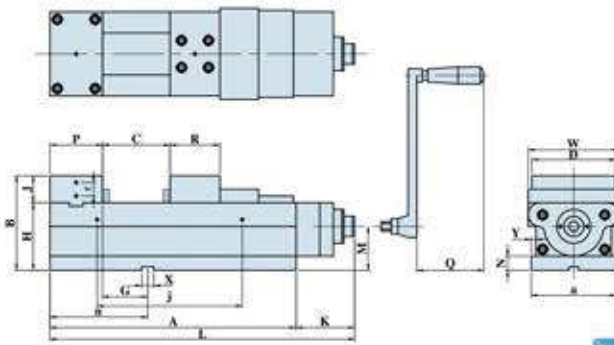
ADJUSTING METHOD

1. FIXED COLLAR
2. TURN BY WRENCH TO GET NO. 0, 1, 2, 3, 4. TO HAVE CLAMPING FORCE
3. NO.2 IS MOST SUIT FOR WORKING

CLAMPING FORCE CHART

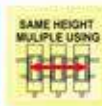
ORDER NO.	SCALE				
	4	3	2	1	0
VQC-100	-	30KN	21KN	12KN	6KN
VQC-125	-	40KN	28KN	16KN	8KN
VQC-160	60KN	46KN	32KN	18KN	10KN
VQC-160L	60KN	46KN	32KN	18KN	10KN
VQC-200L	60KN	46KN	32KN	18KN	10KN

GREAT SMOOTH OPERATION



CLAMPING CAPACITY

ORDER NO.	JAW J	JAW Open C	B	MAX. Clamping Force (KN)	N.W. kg	G.W. kg
VQC-100	35	128	120	30	23.2	26.2
VQC-125	40	205	140	40	36.5	40.4
VQC-160	45	275	165	60	67.0	72.3
VQC-160L	45	355	165	60	72.5	78.6
VQC-200L	70	405	190	60	99.5	108



ORDER NO.	A	B	a	D	P	R	G	H	J	K	L
VQC-100	273	120	105	99	73	64	39	85	35	82.5	356.5
VQC-125	364	140	126	124.5	78	74	59	100	40	86	452
VQC-160	456	165	161	159.5	86	86	58	120	45	98	554
VQC-160L	536	165	162	160	86	86	58	120	45	98	634
VQC-200L	616	180	202	200	102	98	74	120	70	95	711

ORDER NO.	M	N	Q	W	X	Y	C OPEN	f	j	n	CODE NO.
VQC-100	50	15	74	110	14	6.5	128	20	105	112	4005-004
VQC-125	65	21	74	135	18	7	205	20	215	139	4005-005
VQC-160	78	21	94	170	18	7	275	20	286	145	4005-006
VQC-160L	78	21	94	174	18	7	355	20	286	145	4005-007
VQC-200L	75	21	96	217	18	7	405	20	386	177	4005-008



Precision Compact MC Vise

SAME HEIGHT GUARANTEE

for machining center



گیره دقیق

Mechanical Type
Great Smooth Operation



DESIGN FOR THIN WORKPIECE



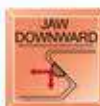
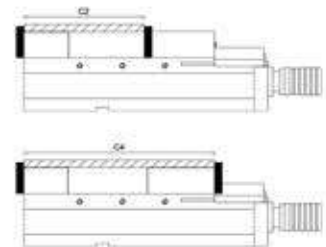
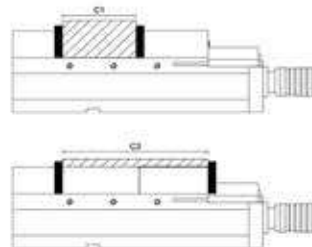
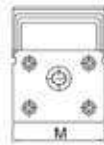
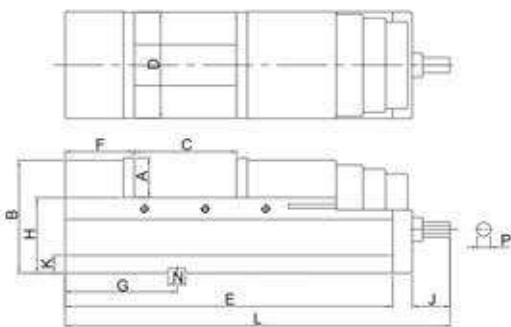
Features

- FCD 60 high quality ductile cast iron - body material - reduce the cutting vibration.
- Angle-fixed design : for vertical & horizontal cutting & processing machine.
- Everlasting clamping power.
- Heavy cutting.
- Hardness > HRC 45° : vise sliding bed.
- High durebility & high precision.
- Tolerance : 0.01/100mm
- Lift proof : press down design.
- Bending resistance : rigid & strong.
- Dust proof : concealed spindle.
- Fast & easy operation.

EXP.



EXP.



Mechanical Type

ORDER NO.	A	B	C OPEN	D	E	F	G	H	J	K	L	M	N	P	Clamping Force (kgf)	Weight Body	CODE NO.
VMC-100M	48	130	125	100	340	80	125	85	55	15	425	101	16	19	3000	26 kgs	4005-064
VMC-130M	55	147	180	130	405	85	150	96	55	21	490	131	18	19	3000	39 kgs	4005-065
VMC-160M	58	168	240	160	495	100	165	105	55	21	580	161	18	19	3000	60 kgs	4005-066
VMC-200M	61	170	280	200	570	118	190	110	55	21	655	201	18	19	3000	86 kgs	4005-067
VMC-160ML	58	168	350	160	595	100	165	105	55	21	680	161	18	19	3000	67 kgs	4005-058



NEW



**COMPARE WITH SAME WIDTH
VISE JAW, VNC TYPE HAS THE
BIGGEST OPENING CAPACITY.**

Features

- Hydro-booster system for maximum clamping pressure with minimum force.
- Sliding bed ways flame hardened and ground.
- Compact design. Great clamping capacity. Light & smooth operation.
- Body is made of FCD60 ductile cast iron, High deflection/bending resistant.
- Constructed for machining center, milling, drilling, grinding and many other machine shop applications.
- Hydro line - one scale indicate about 1/3 of the max. clamp force.

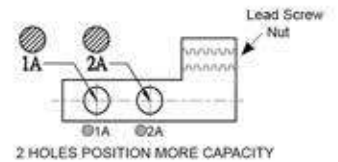
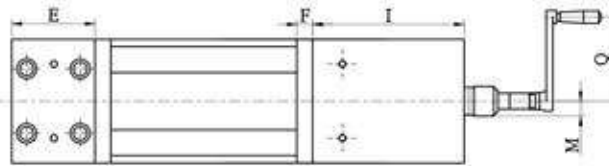




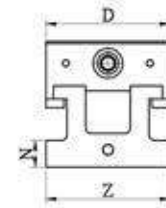
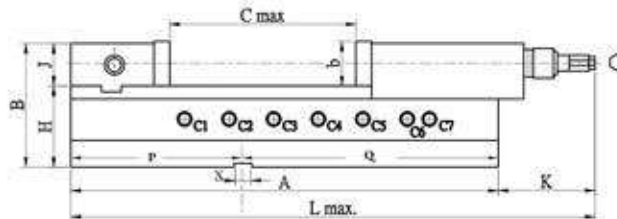
گیره دقیق NC

Hydraulic controller:
provide stable pressure,
Hydro indexer. Protect the hydro system.
Hydro limit proof reference scale.
Screw shaft broken proof.

Accessories:



2 HOLES POSITION MORE CAPACITY



ORDER NO.	C MAX. Open	MAX. Clamping Force KN	L MAX. mm	C Lock Pin Hole Position For Opening Jaw Size (Clamping Size Capacity)							
				Lead Screw Nut	C1	C2	C3	C4	C5	C6	C7
VNC-100H	205	25	464	⊙1A	2-30	57-90	115-146	173-205	-	-	-
				⊙2A	0-3	28-60	86-116	145-175	-	-	-
VNC-125H	225	40	556	⊙1A	10-46	70-106	130-166	190-225	-	-	-
				⊙2A	0-12	38-72	98-132	158-192	-	-	-
VNC-160H	310	50	684	⊙1A	13-70	93-150	173-230	253-310	-	-	-
				⊙2A	0-30	53-110	133-190	213-270	-	-	-
VNC-160LH	510	50	884	⊙1A	13-70	93-150	173-230	253-310	333-390	410-470	450-510
				⊙2A	0-30	53-110	133-190	213-270	293-350	370-430	410-470

ORDER NO.	A	B	D	E	F	b	H	J	N	I	Z	X	P	Q	Weight (kgs)	CODE NO.
VNC-100H	380	107	100	67	13	38	70	37	24	133	100	14	152	228	23	4005-100
VNC-125H	432	126	124	85	15	45	82	44	27	147	125	18	174	258	37	4005-101
VNC-160H	550	148	159	102	18	54	95	53	27	189	160	18	219	331	63	4005-102
VNC-160LH	750	148	159	102	18	54	95	53	27	189	160	18	219	531	77	4005-103



Convenient Type Machine Vise

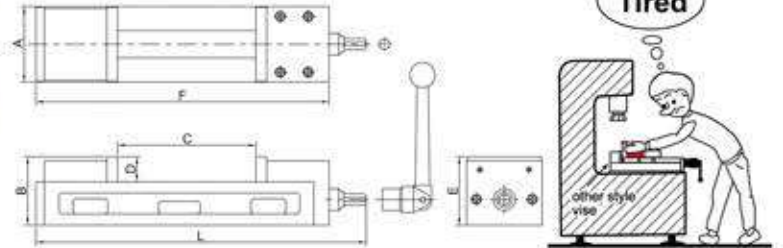


گیره دقیق

NEW



- Moveable jaw located at outer end and align surface for workpiece is in front of operator. It is convenient for loading or unloading workpiece on such design of vise.
- The overall length of this vise is shorter than other similar vises, but keep the more jaw opening. Save space on work table.
- Extra opened
- Semi-spherical segment eliminates jaw lifting and workpiece tilting.
- Time & energy saving
- Width 100 mm opened 180 mm.



ORDER NO.	A	B	C OPEN	D	E	F	L	Max. Clamp Force (kgf)	Weas (kgs)	CODE NO.
VCM-47	108	98	180	36	62	420	470	450	17.7	4005-080

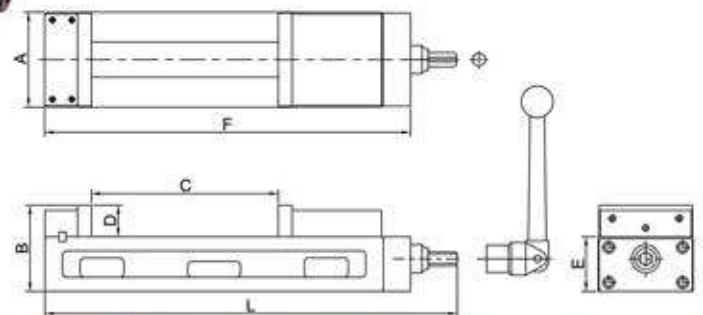


Super Open Ang-Fixed Machine Vise

NEW



- The overall length of this vise is shorter than other similar vises, but keep the more jaw opening. Save space on work table.
- Semi-spherical segment eliminates jaw lifting and workpiece tilting.
- Vise bed flange hardend to HRC up is capable to obtain low weariness and last the high accuracy for long.
- Chip covers is applied on this vise to prevent from chips falling to leadscrew and inside of vise.
- Width 100 mm opened 210 mm super open.



ORDER NO.	A	B	C OPEN	D	E	F	L	Max. Clamp Force (kgf)	Weas (kgs)	CODE NO.
VMC-4L	108	98	203	36	62	420	470	450	17.3	4005-095



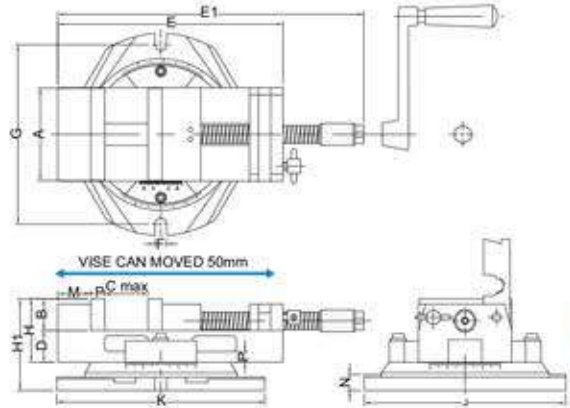
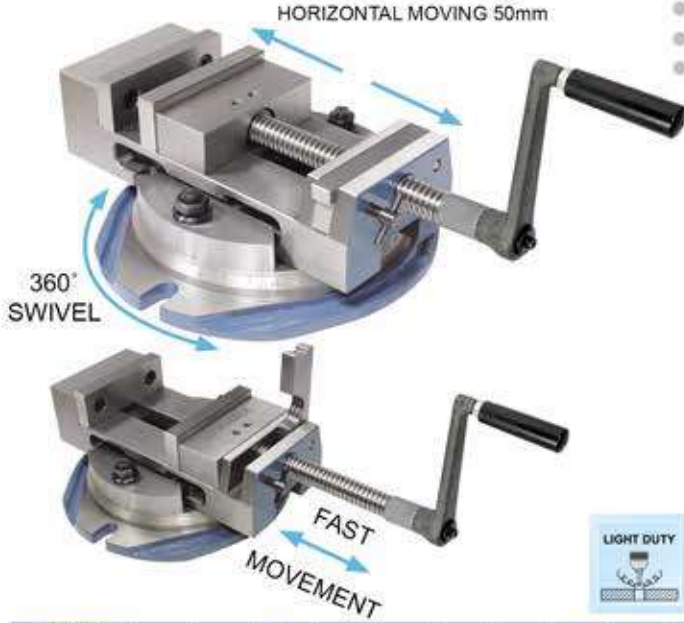
Horizontal Moving Quick Vise



گیره سرعتی افقی

2 WAY MOVING

- Special design, for milling M/C, drilling M/C.
- Easy & quick to find process position.
- For round table drilling machine. If it don't have cross table.
- 360° rotation



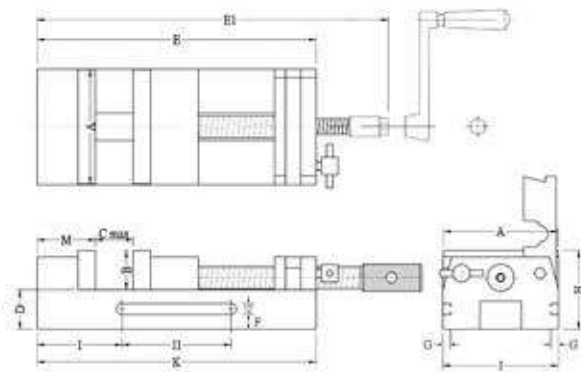
ORDER NO.	A	B	C max.	D	E	E1	F	G	H	H1	J	K	M	N	P	MAX.Clamp Force kgf	G.W.	CODE NO.
VQW-80	81	34	85	36	230	374	14	214	70	100	242	230	28	30	12	700	13.5	1002-245
VQW-100	105	36	104	36	256	422	16	264	72	106	303	272	37	34	16	800	15.8	1002-246
VQW-130	131	36	125	38	297	490	16	264	74	108	303	272	38	34	29	800	22.7	1002-247

Quick Setting Vise



Features

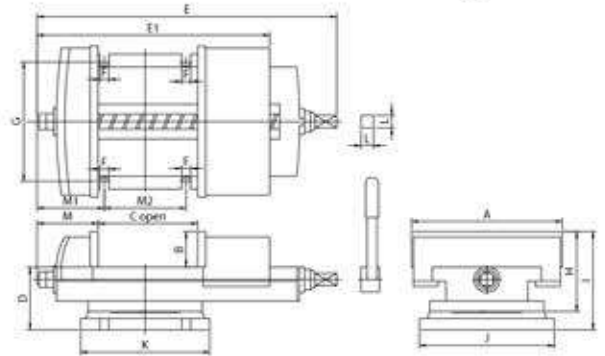
- Special design for quick clamping. (From the acme thread shaft stationly)
- Quick setting by sliding movement. Big clamping capability.
- Operating very quick and easy, can increase so much working efficiency than you can image.
- Good for short term and massive production or proto type work.
- Suit for milling machine, grinder machine, precision drilling machine using.
- Accurate grounded and assembled.
- Precision cut acme thread, it can get 800kgs high clamping force.
- Horizontal & vertical
- Accuracy 0.02 / 100 mm



ORDER NO.	A	B	C max.	D	E	E1	F	G	H	I	H1	J	K	M	MAX.Clamp Force kgf	G.W.	CODE NO.
VQS-3	81	34	85	36	230	374	12	5	70	51	128	82	230	50	700	7	1002-262
VQS-4	105	36	104	36	256	422	12	5	72	54	148	106	256	54	800	9.5	1002-263
VQS-5	131	36	125	38	297	490	13	5	74	59	178	132	297	67	800	14.5	1002-264



گیره صفحه تراش



The vise is made of the high tension cast iron, rigidity, large range of clamping spans and more bigger clamping force at press down jaws, especially suitable for the heavy duty cutting and the heavy duty planer milling machine to clamp large workpiece.

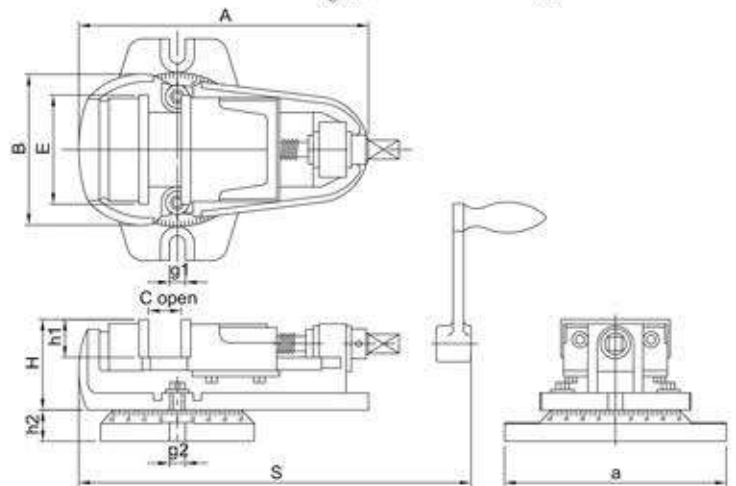
Unit:mm



ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	K	L	M	M1	M2	Max. Clamp Force (kgf)	G.W. (kgs)	CUFT (cm)	CODE NO.
VSM-12	304	72	290	126	604	560	18	240	161	198	272	260	25	123	135	165	800	84	67x35x23	1002-270
VSM-16	405	96	415	145	763	738	20	292	200	241	336	336	25	135	143	248	1000	142	84x45x27	1002-271
VSM-20	508	95	505	150	902	871	21	288	204	245	336	336	25	169	211	246	1200	200	97x56x28	1002-272

B-Type Milling Vise

گیره فرز تیپ B



- A wider bottom to increase clamping force.
- Groove device to collect cutting oil.
- Full 360° swivel base with line, accurate graduation.
- In order to ensure the accuracy when using it better that don't put swivel base together



ORDER NO.	A	B	E	H	C OPEN	S	a	h1	h2	g1	g2	Max. Clamp Force (kgf)	G.W. kgs	CODE NO.
VBV-4	270	140	100	79	65	305	212	33	28	12	12	900	13	1002-280
VBV-5	350	180	125	96	100	410	280	37	35	15	15	900	21.5	1002-281
VBV-6	452	218	160	103	132	483	317	48	40	16	16	1000	41	1002-282



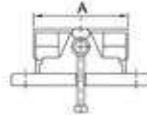
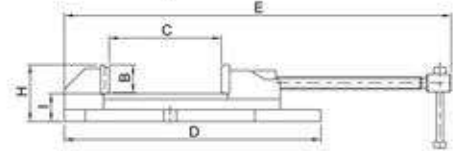
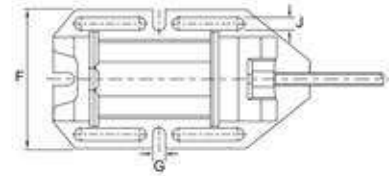
Super Open Drill Vise



EURO TYPE

NEW

گیره دریل



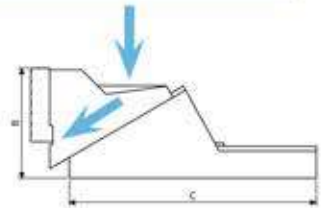
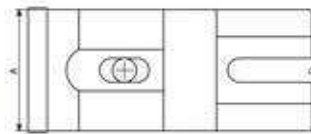
- Big opened.
- Big clamping capacity.
- With prisma jaw for round workpiece.
- For drilling & milling using.



Unit:mm

ORDER NO.	A	B	C OPEN	D	E	F	G	H	I	J	V	MAX.Clamp Force kgf	G.W. (kgs)	CFT (cm)	CODE NO.
VRV-4	110	32	130	316	471	179	16	73	40	16	5-32	450	9.8	32.3 x 13.3 x 12.9	1002-320
VRV-5	135	40	160	366	552	207	16	81	40	16	6-40	650	14.0	32.3 x 13.3 x 12.9	1002-321
VRV-6	160	50	220	447	693	247	16	96	45	16	7-48	900	25.7	32.3 x 13.3 x 12.9	1002-322

Free Vise

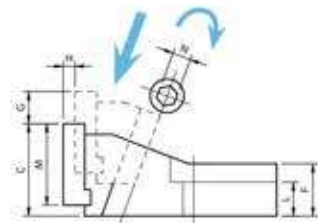
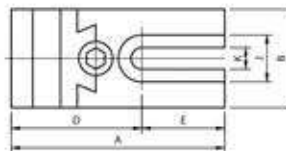


- FV type is light duty.
- Free style clamping For big workpiece.
- Adjustable distance 15mm For clamping.



Unit:mm

ORDER NO.	DIMENSION (WxHxL)	CLAMPING CAPACITY (HxL)	ACCESSORIES BOLT SIZE	MAX.Clamp Force kgf	WEIGHT (kgs/2PCS)	CODE NO.
FV-350	75x67x150mm	140x350mm	M12 x 75L x 2PCS. M12 x 125L x 2PCS	900	7.5	1002-290
FV-450	100x90x200mm	180x450mm	M12 x 75L x 2PCS. M12 x 125L x 2PCS	900	14	1002-291
FV-550	125x120x250mm	250x550mm	M16 x 75L x 2PCS. M16 x 125L x 2PCS	900	23	1002-292



- Free style clamping For big workpiece.
- Heavier duty.
- Adjustable distance 10mm For clamping.



Unit:mm

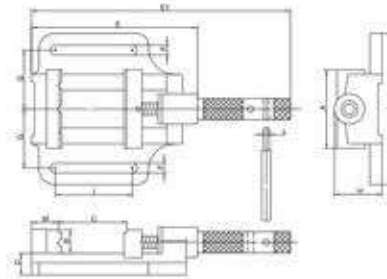
ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	MAX.Clamp Force kgf	ACCESSORIES BOLT SIZE	N.W. (kgs)	CODE NO.
SV-62	139	64	59.5	85	54	33.5	21	9	30.5	18	22	52.5	12	1800	M12 x 75L x 4PCS	5.8	1002-293
SV-85	192	86.5	86	115	77	53	24	10	36	18	25.5	59.5	12	1800	M16 x 75L x 4PCS	11	1002-294
SV-125	218	127	84	124	94	51.5	33	18	45.5	20	23.5	73	12	1800	M16 x 75L x 4PCS	21	1002-295



Drill Vise



گیره دریل



NEW

- Designed with solid structure, main body is made of FC15, assemble a pair of heat treated steel jaws with hardness HRC 45°~50°
- Suitable for clamping work piece on drill press machine & milling machine
- Jaw pair and handle are surface treated by black oxide finish
- Front fixed prismatic jaw with cross V-grooves is designed for clamping work piece firmly in both vertical & horizontal directions

LIGHT DUTY



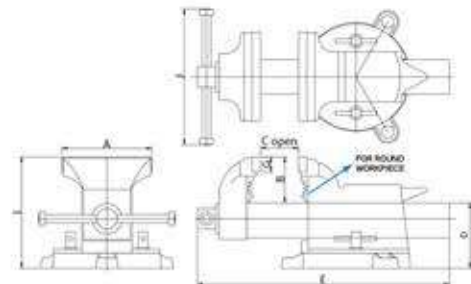
ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	L	M	WEIGHT	CODE NO.
DV-85	84	25	85	27	182	287	12	64	56	80	167	8	32	3.5	1015-041
DV-100	104	31	100	28.5	220	343	13	78	63	102	200	8	36	5.7	1015-042
DV-120	132	38	120	32	250	395	14	91	71	127	226	9.5	45	8.2	1015-043

Steel Bench Vise With Base

NEW



360° SWIVING BASE



mm

ORDER NO.	A	B	C OPEN	D	E	G	I	J	Clamp Force (kgf)	WEIGHT (kgs)	CODE NO.
BVV-3	79	51	75	87	280	18	138	178	1300	6	1002-330
BVV-4	104	61	100	87	310	18	148	178	1800	7	1002-331
BVV-5	127	68	125	93	370	22	165	198	2300	10.5	1002-332
BVV-6	154	78	150	108	420	22	183	228	2800	14	1002-333
BVV-8	205	87	200	115	500	22	202	238	3000	18	1002-334
BVV-10	253	100	250	114	570	22	220	263	3000	24	1002-335

Quick Bench Vise

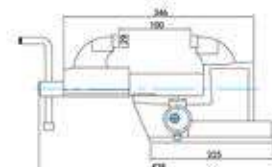
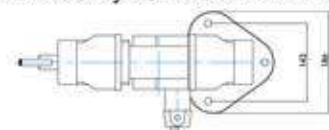
ORDER NO.VQS-40 CODE NO.1002-096

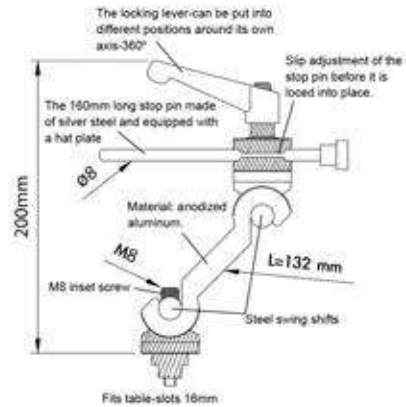
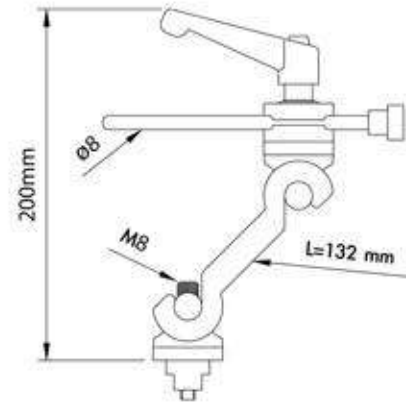
NEW



QUICK ACTION HANDLE

- Hardened & Ground Jaw
- Jaw Width 100 mm
- Jaw Height 29 mm
- Opened Capacity 100 mm
- 8 mm Distance of Quick Clamping System
- Can Be Move By Handle & By Quick Action Arm
- Weight: 13.3 kgs





NON TEETH TYPE
ORDER NO. VWS-123
CODE NO. 1002-105
WEIGHT: 0.9kg
T-SLOT: 16mm

TEETH TYPE
ORDER NO. VWS-125
CODE NO. 1002-106
WEIGHT: 1.1kg
T-SLOT: 16mm

ORDER NO.	CODE NO.
VWS-123	1002-105
VWS-125	1002-106

- It is fixed and secured by its rigid serration without skid. (300kg bump is permanent)

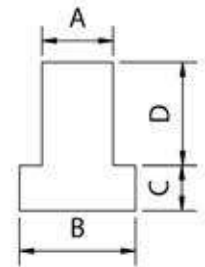
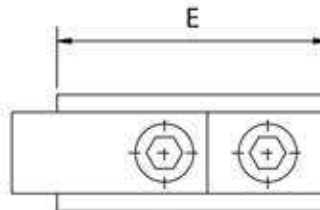
T Slot Clamps

PATENT

NEW

بغل بند

For Thin Work Piece



- 1 Set consist of 4 vices.
- For thin or small workpiece.
- Good clamping force.
- Quick setting
- Suit for light duty cutting on the milling drilling / EDM machine.



ORDER NO.	A	B	C	D	E	N.W.	CODE NO.
CK-3712	11.5	18	7	16	42	0.6	1002-311
CK-3714	13.5	22	8	18	42	0.7	1002-312
CK-3716	15.5	25	10	20	45	0.9	1002-313
CK-3718	17.5	28	11	24	45	1.1	1002-314
CK-3720	19.5	32	12	26	53	1.5	1002-315



Prisma Jaw



فک گیره



ORDER NO.
 VWS-VK-4.5.6.8
 VWS-VA-4.5.6.8
 VWS-VH-4.5.6.8
 VWS-VJ-400.500.600
 VWS-VW-3.4.5
 VWS-VMC-4.6
 VWS-VQS-3.4.5

V CLAMPING CAPACITY	
HORIZONTAL V	VERTICAL V
Ø25	Ø25
Ø25	Ø25
Ø30	Ø30
Ø40	Ø40

ORDER NO.	kgs	CODE NO.
VWS-VK-4	0.26kg	1002-110
VWS-VK-5	0.36kg	1002-111
VWS-VK-6	0.46kg	1002-112
VWS-VK-8	1.16kg	1002-113

ORDER NO.	kgs	CODE NO.
VWS-VW-3	0.21kg	1002-120
VWS-VW-4	0.36kg	1002-121
VWS-VW-5	0.44kg	1002-122

ORDER NO.	kgs	CODE NO.
VWS-VA-4	0.4kg	1002-130
VWS-VA-5	0.51kg	1002-131
VWS-VA-6	0.96kg	1002-132
VWS-VA-8	1.76kg	1002-133

ORDER NO.	kgs	CODE NO.
VWS-VMC-4	0.35kg	1002-140
VWS-VMC-6	0.4kg	1002-141

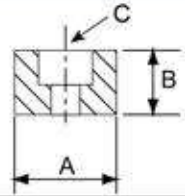
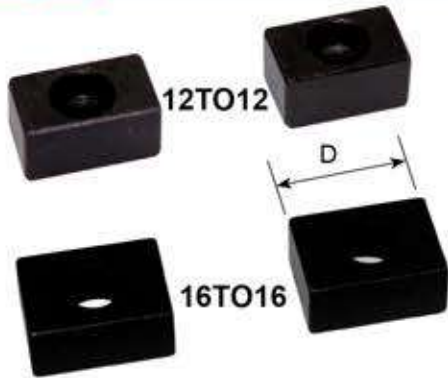
ORDER NO.	kgs	CODE NO.
VWS-VJ-400	0.36kg	1002-163
VWS-VJ-500	0.58kg	1002-164
VWS-VJ-600	0.9kg	1002-165

ORDER NO.	kgs	CODE NO.
VWS-VH-4	0.44kg	1002-150
VWS-VH-5	0.70kg	1002-151
VWS-VH-6	0.88kg	1002-152
VWS-VH-8	1.78kg	1002-153

ORDER NO.	kgs	CODE NO.
VWS-VQS-3	0.3kg	1002-160
VWS-VQS-4	0.42kg	1002-161
VWS-VQS-5	0.51kg	1002-162



Thread Rod Guide Block



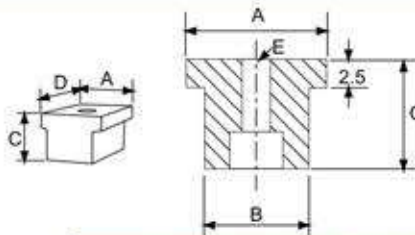
- For quick vise setup
- Multi - Purpose
- 4 PCS / SETS
- Match vise with Machine table slot
- Material: S45C

For vise

ORDER NO.	A	-0.01 -0.08	B	C For	D	WEIGHT kgs	CODE NO.
12TO12	12		10	M4	20	0.07	1002-370
14TO14	14		10	M5	20	0.07	1002-371
16TO16	16		10	M6	22	0.09	1002-372
18TO18	18		12	M6	22	0.13	1002-373
20TO20	20		12	M6	24	0.20	1002-374



Thread Rod Guide Block



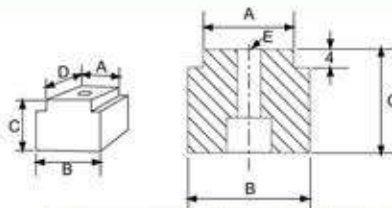
- For quick vise setup
- Multi - Purpose
- 4 PCS / SETS
- Material: S45C

For vise

ORDER NO.	A	-0.01 -0.08	B	-0.01 -0.08	C	D	E	WEIGHT kgs	CODE NO.
16TO14	16		14		14	20	M6	0.10	1002-350
18TO14	18		14		16	20	M6	0.12	1002-351
18TO16	18		16		16	20	M6	0.13	1002-352



Thread Rod Guide Block



- For quick vise setup
- Multi - Purpose
- 4 PCS / SETS
- Material: S45C

For vise

ORDER NO.	A	-0.01 -0.08	B	-0.01 -0.08	C	D	E	WEIGHT kgs	CODE NO.
14TO16	14		16		14	20	M6	0.12	1002-361
14TO18	14		18		16	20	M6	0.13	1002-362
16TO18	16		18		16	20	M6	0.15	1002-363

52-PCS Steel Clamping Kit



58 PCS/SET

کیت روبند

Specifications

Inch Size

ORDER NO.	Table Slot	Stud Size	G.W. kg	Meas. CFT	CODE NO.
CK-103A	7/16"	3/8"-16w	6.5	(C) 0.8	1003-009
CK-103B	1/2"		6.5		1003-010
CK-104A	9/16"	1/2"-12w 1/2"-13UNC	9.7	(C) 1.0	1003-011
CK-104B	5/8"		10.4		1003-012
CK-105A	11/16"	5/8"-11w	12.5	(C) 1.5	1003-013
CK-105B	3/4"		11.8		1003-014
CK-206	7/8"	3/4"-10w	26.5	2.0	1003-015

- Heat treated steel black oxide finish.
- Block size 1" (25mm). Set in plastic rack consists of:
 - 24 PCS Studs (4 ea, 3/4/5/6/7/8 inches or 75/100/125/150/175/200mm.)
 - 6 PCS T-Nuts
 - 4 PCS Coupling Nuts
 - 6 PCS Flange Nuts
 - 6 PCS Step Clamps
 - 6 PCS Step Blocks



CK-20

Metric Size

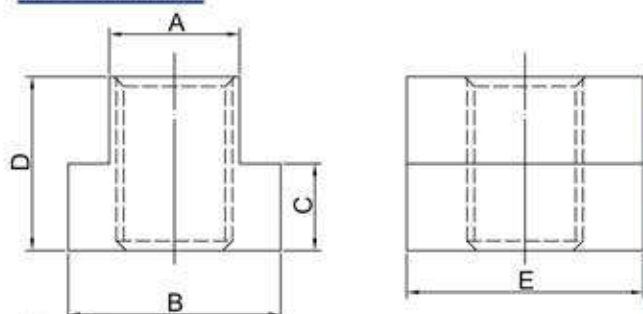
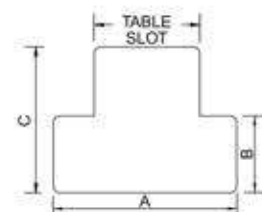
ORDER NO.	Table Slot	Stud Size	G.W. kg	Meas. CFT	CODE NO.
CK-08	10	M8-1.25P	7.4	(C) 0.8	1003-001
CK-10	12	M10-1.5P	7.6		1003-002
CK-12A	14	M12-1.75P	9.4	(C) 1.0	1003-003
CK-12B	15.7		9.5		1003-004
CK-14	16	M14-2.0P	11.1	(C) 1.5	1003-005
CK-16	18	M16-2.0P	12.6		1003-006
CK-18	20	M18-2.5P	25.3	(C) 1.6	1003-007
CK-20	22	M20-2.5P	27	(C) 2.0	1003-008

- CK-18, CK-20, CK-206, Pack in wooden No Plastic Tray.
- The parts of every specification all can be purchased individually.

INDIVIDUALLY PARTS

T-SLOT NUT

HRC 34°



Metric Size

ORDER NO.	Table Slot	Thread Size	A±0.3	B	C	D	E	CODE NO.
3412M	10	M8	9	16	6	12	22	1003-020
3423M	12	M10	11.5	18	7	14	22	1003-021
3414M	14	M12	13.5	22	8	16	28	1003-022
A3424M	16	M12	15.3	25	8	16	28	1003-023
B3424M	16	M14	15.3	25	8	16	28	1003-024
3415M	18	M16	17	28	11	20	32	1003-025
3416M	20	M18	19.5	32	12	24	38	1003-026
3417M	22	M20	21.5	35	14	28	38	1003-027
3418M	28	M24	26.5	44	18	36	38	1003-028

Inch Size

ORDER NO.	Table Slot	Thread Size	A	B	C	Length	WEIGHT (kg)	CODE NO.
3413I	7/16	3/8-16	11/16	7/32	1/2	7/8	0.023	1003-180
3423I	1/2		7/8	9/32	1/2	7/8	0.032	1003-181
3433I	9/16		7/8	11/32	5/8	1-1/8	0.048	1003-182
3414I	9/16	1/2-12 1/2-13	7/8	11/32	5/8	1-1/8	0.048	1003-183
3424I	5/8		1	11/32	5/8	1-1/8	0.06	1003-184
3434I	11/16		1-1/8	7/16	3/4	1-1/4	0.087	1003-185
3415I	11/16		1-1/8	7/16	3/4	1-1/4	0.087	1003-186
3425I	3/4	5/8-11	1-1/4	15/32	3/4	1-1/4	0.102	1003-187
3435I	13/16		1-1/4	9/16	1	1-1/2	0.142	1003-188
3416I	13/16	3/4-10	1-1/4	9/16	1	1-1/2	0.142	1003-189
3426I	7/8		1-1/2	9/16	1	1-1/2	0.175	1003-190
3436I	1		1-5/8	5/8	1	1-3/4	0.2	1003-191
3446I	1-1/16		1-5/8	11/16	1-1/2	2	0.23	1003-192
3417I	1	7/8-9	1-5/8	5/8	1	1-1/2	0.21	1003-193
3418I	1-1/16	1-8	1-5/8	11/16	1-1/2	2	0.25	1003-194



Coupling Nut

HRC 34°

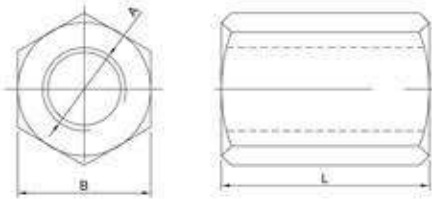


مهرد روبند



Metric Size

ORDER NO.	A Thread	B Parallel	L Length	Weight (kg)	CODE NO.
2612M	M8x1.25	13	22	0.033	1003-060
2613M	M10x1.5	17	25	0.035	1003-061
2614M	M12x1.75	21	32	0.065	1003-062
2614M-1	M14x2.0	21	32	0.06	1003-063
2615M	M16x2.0	26	41	0.128	1003-064
2616M	M18x2.5	32	48	0.228	1003-065
2617M	M20x2.5	32	48	0.208	1003-066
2618M	M24x3.0	41	64		1003-067



Inch Size

ORDER NO.	A Thread	B Parallel	L Length	Weight(kg)	CODE NO.
2612I	5/16-18	9/16	7/8	0.033	1003-060I
2613I	3/8-16	11/16	1	0.035	1003-061I
2614I	1/2-12 1/2-13	7/8	1-1/4		1003-062I
2615I	5/8-11	1-1/16	1-5/8	0.128	1003-064I
2616I	3/4-10	1-1/4	1-7/8	0.22	1003-065I
2617I	7/8-9	1-1/4	1-7/8		1003-066I
2618I	1-8	1-5/8	2-1/2		1003-067I



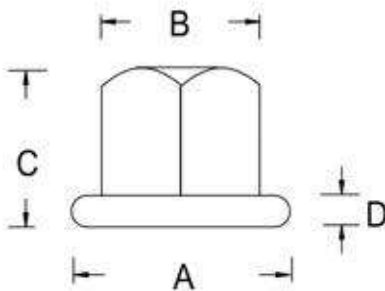
Flange Nut

HRC 34°



Metric Size

ORDER NO.	Thread	A	B (Mm)	C	D	Weight (kg)	CODE NO.
4512	M8x1.25	19	13	8	2	0.013	1003-050
4513	M10x1.5	22	17	12	3	0.023	1003-051
4514	M12x1.75	28	21	16	4	0.043	1003-052
4514M	M14x2.0	28	21	16	4	0.047	1003-053
4515	M16x2.0	35	26	17	5	0.087	1003-054
4516	M18x2.5	40	32	25	6	0.10	1003-055
4517	M20x2.5	40	32	25	6	0.092	1003-056
4518	M24x3.0	50	41	32	6	0.12	1003-057



Inch Size

ORDER NO.	Thread	A	B (Mm)	C	D	Weight (kg)	CODE NO.
4512I	5/16-18	3/4	9/16	3/8	3/32	0.013	1003-050I
4513I	3/8-16	7/8	11/16	1/2	1/8	0.023	1003-051I
4514I	1/2-12NC 1/2-13NC	1-1/8	21	5/8	5/32	0.043	1003-052I
4515I	5/8-11	1-3/8	1-1/16	11/16	3/16	0.087	1003-054I
4516I	3/4-10	1-5/8	1-1/4	1	1/4	0.092	1003-055I
4517I	7/8-9	1-3/4	1-7/16	1-1/8	1/4	0.12	1003-056I
4518I	1-8	2	1-5/8	1-1/4	1/4	0.12	1003-057I



Metric Size

ORDER NO.	D	L	L1	WEIGHT (kgs)	CODE NO.	
1323M	M8x1.25P	75	30	0.023	1003-071	
1324M		100	40	0.03	1003-072	
1325M		125	40	0.04	1003-073	
1326M		150	40	0.05	1003-074	
1327M		175	40	0.06	1003-075	
1328M		200	40	0.07	1003-076	
1333M	M10x1.5P	75	30	0.04	1003-081	
1334M		100	40	0.05	1003-082	
1335M		125	40	0.06	1003-083	
1336M		150	40	0.07	1003-084	
1337M		175	40	0.09	1003-085	
1338M		200	40	0.10	1003-086	
1343M	M12x1.75P	75	30	0.06	1003-091	
1344M		100	40	0.07	1003-092	
1345M		125	40	0.09	1003-093	
1346M		150	40	0.11	1003-094	
1347M		175	40	0.13	1003-095	
1348M		200	40	0.15	1003-096	
1343MA	M14x2.0P	75	30	0.07	1003-101	
1344MA		100	40	0.10	1003-102	
1345MA		125	40	0.13	1003-103	
1346MA		150	40	0.15	1003-104	
1347MA		175	40	0.18	1003-105	
1348MA		200	40	0.20	1003-106	
1353M	M16x2.0P	75	30	0.09	1003-111	
1354M		100	45	0.13	1003-112	
1355M		125	45	0.16	1003-113	
1356M		150	45	0.19	1003-114	
1357M		175	45	0.23	1003-115	
1358M		200	45	0.25	1003-116	
13510M		250	45	0.31	1003-117	
13512M		300	45	0.38	1003-118	
1363M	M18x2.5P	75	30	0.12	1003-120	
1364M		100	40	0.16	1003-121	
1365M		125	45	0.20	1003-122	
1366M		150	45	0.25	1003-123	
1367M		175	45	0.30	1003-124	
1368M		200	45	0.32	1003-125	
13610M		250	50	0.40	1003-126	
13612M		300	50	0.50	1003-127	
1373M		M20x2.5P	75	30	0.15	1003-140
1374M			100	40	0.20	1003-141
1375M	125		45	0.25	1003-142	
1376M	150		45	0.30	1003-143	
1377M	175		45	0.35	1003-144	
1378M	200		45	0.40	1003-145	
13710M	250	50	0.50	1003-146		
13712M	300	50	0.65	1003-147		
1384M	M24x3.0P	100	40	0.25	1003-150	
1385M		125	45	0.35	1003-151	
1386M		150	45	0.45	1003-152	
1387M		175	45	0.53	1003-153	
1388M		200	45	0.60	1003-154	

OPERATING TORQUE FOR

TUNT. FLANGE NUT. SCREW	
SCREW SIZE	TORQUE(NM)
M3	1.1
M4	2.4
M5	4.8
M6	8.4
M8	21
M10	42
M12	72
M16	180
M20	352
M24	564

Inch Size

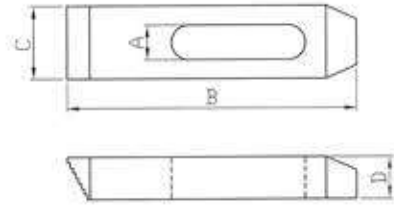
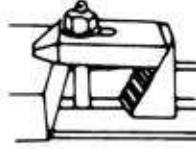
ORDER NO.	D	L	L1	WEIGHT (kgs)	CODE NO.
1333I	3/18-16	3"	30	0.04	1003-081I
1334I		4"	40	0.05	1003-082I
1335I		5"	40	0.06	1003-083I
1336I		6"	40	0.07	1003-084I
1337I		7"	40	0.09	1003-085I
1338I		8"	40	0.10	1003-086I
1343I	1/2-12 1/2-13	3"	30	0.06	1003-091I
1344I		4"	40	0.07	1003-092I
1345I		5"	40	0.09	1003-093I
1346I		6"	40	0.11	1003-094I
1347I		7"	40	0.13	1003-095I
1348I		8"	40	0.15	1003-096I
1353I	5/8-11	3"	30	0.09	1003-111I
1354I		4"	40	0.13	1003-112I
1355I		5"	40	0.16	1003-113I
1356I		6"	40	0.19	1003-114I
1357I		7"	40	0.23	1003-115I
1358I		8"	40	0.25	1003-116I
13510I		10"	45	0.31	1003-117I
13512I		12"	45	0.38	1003-118I
1363I	3/4-10	3"	30	0.12	1003-120I
1364I		4"	40	0.16	1003-121I
1365I		5"	45	0.20	1003-122I
1366I		6"	45	0.25	1003-123I
1367I		7"	45	0.30	1003-124I
1368I		8"	45	0.32	1003-125I
13610I		10"	50	0.40	1003-126I
13612I		12"	50	0.50	1003-127I
13614I		14"	50	0.62	1003-128I
13616I		16"	50	0.75	1003-129I
13618I	18"	50	0.87	1003-130I	
13620I	20"	50	1.00	1003-131I	
1373I	7/8-9	3"	30	0.183	1003-140I
1374I		4"	45	0.25	1003-141I
1375I		5"	45	0.30	1003-142I
1376I		6"	45	0.40	1003-143I
1377I		7"	45	0.45	1003-144I
1378I		8"	45	0.50	1003-145I
1384I	1"-8	4"	45	0.25	1003-150I
1385I		5"	45	0.35	1003-151I
1386I		6"	45	0.45	1003-152I
1387I		7"	45	0.53	1003-153I
1388I		8"	45	0.60	1003-154I



Step Clamp

کلمپ روبند

HRC 37°



Metric Size

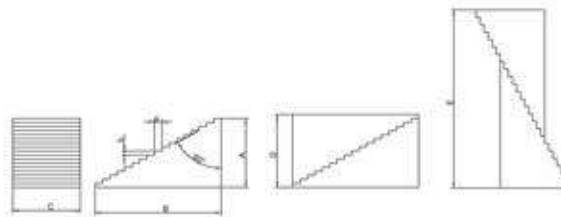
ORDER NO.	Bolt Size	A slot	B Length	C Width	D Thickness	Weight (kg)	CODE NO.
6113	M8 or M10	11	64	25	12	0.11	1003-030
6123	M8 or M10		100	25	16	0.26	1003-031
6133	M8 or M10		150	28	19	0.48	1003-032
6214	M12	14	64	28	12	0.125	1003-033
6224	M12		100	32	19	0.31	1003-034
6234	M12		150	32	22	0.59	1003-035
6215	M16	18	64	32	16	0.16	1003-036
6225	M16		100	38	19	0.39	1003-037
6235	M16		150	38	22	0.71	1003-038
6316	M20 or M18	20	100	38	19	0.36	1003-039
6326	M20 or M18		150	38	25	0.73	1003-040
6336	M20 or M18		200	44	28	1.44	1003-041
6417	M24	26	150	50	32	1.15	1003-042
6427	M24		200	50	35	2	1003-043
6437	M24		250	50	38	2.67	1003-044



Step Block

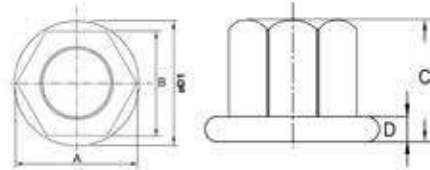
بلوک پله ای

HRC 37°



ORDER NO.	A	B	C	D	E	a	b	CODE NO.
5114	19	30	25	21	45	3.1	1.8	1003-170
5124	30	47	25	32	70	3.1	1.8	1003-171
5134	59	97	25	61	147	3.1	1.8	1003-172
5114B	19	30	32	21	45	3.1	1.8	1003-170B
5124B	30	47	32	32	70	3.1	1.8	1003-171B
5134B	59	97	32	61	147	3.1	1.8	1003-172B
5215	39	59	38	41	87	3.1	1.8	1003-173
5225	61	97	38	63	147	3.1	1.8	1003-174
5235	86	140	38	88	210	3.1	1.8	1003-175

NEW



By machine process.
With turned & milled
Heat treated and oxide fines
HRC 34°

Metric Size

ORDER NO.	Thread	A	B	C	D	ØD1	Weight (kg)	CODE NO.
CFN1017	M10 X 1.5	18.90	17	15	4	22	0.02	1003-160
CFN1219	M12 X 1.75	21.10	19	18	4	25	0.03	1003-161
CFN1422	M14 X 2.0	24.50	22	21	4.5	28	0.04	1003-162
CFN1624	M16 X 2.0	26.80	24	24	5	31	0.06	1003-163
CFN1827	M18 X 2.5	30.10	27	27	5	34	0.09	1003-164



C-Clamp Cast Steel

NEW



ORDER NO.	MAX. OPEN	THROAT DEPTH	LxW	WEIGHT (kgs)	CODE NO.
VCL-2C	1-7/8"	1-7/8"	120x84mm	0.22	1003-210
VCL-3C	2-3/4"	2"	163x91mm	0.38	1003-211
VCL-4C	3-7/8"	2-1/2"	195x102mm	0.59	1003-212
VCL-6C	6"	3-1/2"	270x127mm	1.18	1003-213
VCL-8C	7-3/8"	4-1/2"	345x161mm	1.75	1003-214

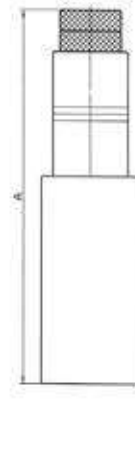
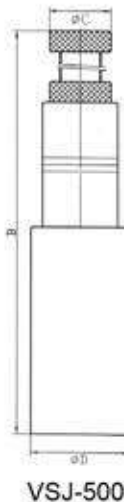


Screw Jack

جک پیچی



- Work clamping
- Material: S45C
- Support heavy weight



ORDER NO.	ADJUSTABLE CAPACITY	A	B	C	ØD	KN	K.G.	CODE NO.
VSJ-40	40-50mm	40	52	30	40	50	0.3	1014-000
VSJ-70	65-90mm	65	95	28	38	50	0.4	1014-001
VSJ-150	90-140mm	88	140	40	50	50	1.1	1014-002
VSJ-250	140-230mm	135	230	45	55	50	2.3	1014-003
VSJ-500	265-360mm	265	360	45	72	50	4.6	1014-004

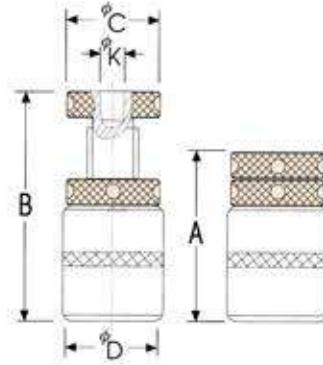


Thread Rod Jack With Magnet VERTEX®

جک مگنتی



- Cross type fixture gives best positioning.
- Built-in magnets designed, easy to clean chips.
- Height adjuster



ORDER NO.	A	B	C	D	K	K.G.	CODE NO.
VSJM-50	42	47	35	40	11.5	0.4	1014-010
VSJM-70	51	65	35	40	11.5	0.5	1014-011
VSJM-85	67	87	40	45	11.5	0.7	1014-012
VSJM-110	86	116	40	45	11.5	0.8	1014-013
VSJM-165	110	170	45	50	11.5	1.4	1014-014

Thread Rod Jack Set

NEW



- SUITABLE FOR IRREGULAR WORKPIECE. RAPID SETTING & FIXED.
- WORK CLAMPING & SUPPORT.
- HEIGHT ADJUSTER

PADS:



6 PADS For different work piece shape

ORDER NO.	SIZE	CODE NO.
VSJ-1A	Ø25xØ11x10mm	1014-030
VSJ-2A		1014-031
VSJ-3A		1014-032
VSJ-4A		1014-033
VSJ-5A		1014-034
VSJ-6A		1014-035

ORDER NO.	SET INCLUDING		WEIGHT K.G.	CODE NO.
	JACKS	PARTS EACH ONE		
VSJ-A	VSJ-70A x 2 VSJ-150A x 2	VSJ-1A, VSJ-2A, VSJ-3A VSJ-4A, VSJ-5A, VSJ-6A	4.0	1014-020
VSJ-B	VSJ-150A x 2 VSJ-250A x 2	VSJ-1A, VSJ-2A, VSJ-3A VSJ-4A, VSJ-5A, VSJ-6A	7.5	1014-021

Ground Parallels

ORDER NO.VP-100 CODE NO.1004-001

To provide more convenient processing for milling vise.

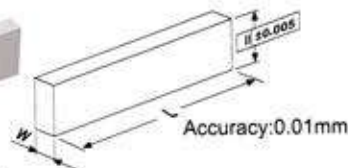


کیت زیرکاری

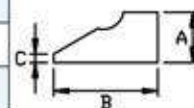
Unit:mm



- Hardness: HRC 48°-53°
- Accuracy: 0.01mm
- Process: Four-side ground
- 1 set includes 18 pcs
- Packed by plastic case, G.W.: 11.7 kgs, Meas: 0.3 CFT.
- Dimension: 390x292x84mm



BODY SIZE WxHxLxPcs	CLAMP SIZE AxBxCxLxPcs
5x16x100x2	15x31x2.5x200x2
6x18x100x2	
8x24x100x2	
10x30x100x2	
12x36x150x2	
14x48x150x2	
18x60x150x2	
22x62x150x2	



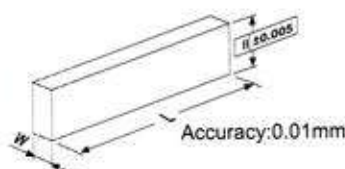
Ground Parallels

ORDER NO.VP-118A CODE NO.1004-010

8.5mm WIDTH, 5.8kgs



- Hardness: HRC 48°-53°
- MADE OF HIGH GRADE ALLOY STEEL HARDENED AND GROUND.
- Dimension: 290x228x80mm



Unit:mm

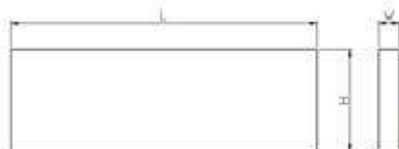
WxHxLxPcs	
8.5x14x150x2	8.5x32x150x2
8.5x16x150x2	8.5x36x150x2
8.5x20x150x2	8.5x40x150x2
8.5x24x150x2	8.5x44x150x2
8.5x30x150x2	

Ground Parallels

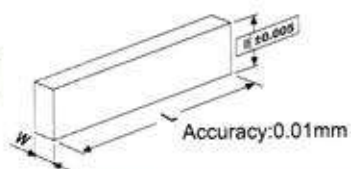
ORDER NO.VP-128A CODE NO.1004-020

28 PCS/SET 10.7kgs

VP-128A 10mm WIDTH



- Hardness: HRC 48°-53°
- MADE OF HIGH GRADE ALLOY STEEL HARDENED AND GROUND.
- Dimension: 390x292x82mm



Unit:mm

WxHxLxPcs	
10x14x150x2	10x28x150x2
10x16x150x2	10x30x150x2
10x18x150x2	10x32x150x2
10x20x150x2	10x35x150x2
10x22x150x2	10x40x150x2
10x24x150x2	10x45x150x2
10x26x150x2	10x50x150x2



Precision Parallels

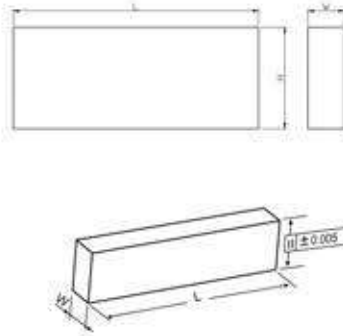
کیت زیر کاری



ORDER NO.VP-136 CODE NO.1004-030

To provide more convenient processing for milling vise

- Hardness: HRC 48°-53°



ACCURACY:0.01mm

WIDTH 8.0mm

36 PCS/SET 12.3kgs

Unit:mm

WxHxLxPcs	
8x16x150x2	8x34x150x2
8x18x150x2	8x36x150x2
8x20x150x2	8x38x150x2
8x22x150x2	8x40x150x2
8x24x150x2	8x42x150x2
8x26x150x2	8x44x150x2
8x28x150x2	8x46x150x2
8x30x150x2	8x48x150x2
8x32x150x2	8x50x150x2

- Dimension: 390x292x82mm

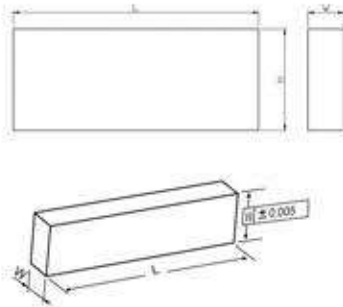


VP-018 Thin Type Parallels Set

ORDER NO.VP-018 CODE NO.1004-040

3Wx150Lx20 PCS/SET

- Hardness: HRC 48°-53°



G.W. 2.5kgs.

ACCURACY: 0.01mm

THICKNESS 1/8" ≈ 3mm

WxHxLxPcs	WxHxLxPcs
3x13x150x2	3x28x150x2
3x16x150x2	3x31x150x2
3x19x150x2	3x35x150x2
3x22x150x2	3x38x150x2
3x25x150x2	3x41x150x2

- Dimension: 290x230x73mm

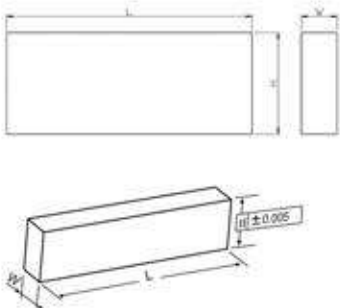


VP-163 Precision Parallels

ORDER NO.VP-163 CODE NO.1004-050

5Wx150Lx8 PCS/SET

- Hardness: HRC 48°-53°



G.W. 1.7kgs.

ACCURACY: 0.01mm

THICKNESS 3/16" ≈ 5mm

WxHxLxPcs
5x25x150x2
5x31x150x2
5x38x150x2
5x44x150x2

- Dimension: 175x85x55mm



VP-146 Ground Parallels

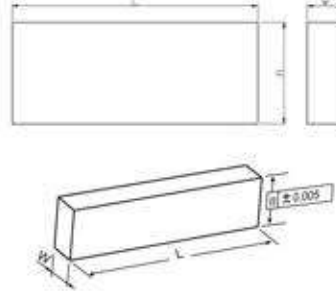
ORDER NO.VP-146 CODE NO:1004-082



4.6Wx150Lx12 PCS/SET
Accuracy: 0.01 mm

کیت زیر کاری

NEW



G.W. 3kgs.
Material: S45C
Hardness: HRC48°-53°

WxHxLxPCS
4.6x32x150x2
4.6x34x150x2
4.6x36x150x2
4.6x38x150x2
4.6x40x150x2
4.6x44x150x2

● Dimension: 195x180x90mm

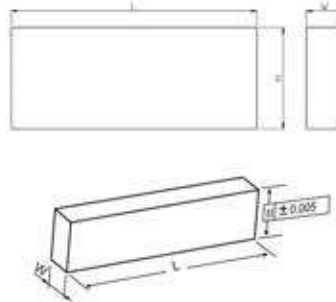


VP-168 Ground Parallels

ORDER NO.VP-168 CODE NO:1004-083

6.8Wx150Lx14 PCS/SET
Accuracy: 0.01 mm

NEW



G.W. 3.5kgs.
Material: S45C
Hardness: HRC48°-53°

WxHxLxPCS
6.8x15x150x2
6.8x18x150x2
6.8x21x150x2
6.8x25x150x2
6.8x27x150x2
6.8x31x150x2
6.8x35x150x2

● Dimension: 225x200x90mm



VP-200 Ground Parallels

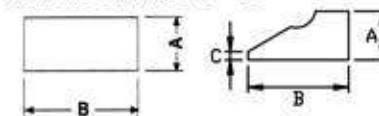
ORDER NO.VP-200 CODE NO.1004-085

NEW



MADE OF HIGH GRADE
ALLOY STEEL
HARDENED AND
GROUND.
ACCURACY: 0.01/100 MM
G.W. :15.6 KGS

● Hardness: HRC 48°-53°



FOR OVER 150 mm, 200mm
JAW PLATE VISE USING

● Dimension: 355x318x85mm

BODY SIZE	CLAMP SIZE
AxBxLxPcs	AxBxCxLxPcs
5x16x150x2	31x15x200x2x2.5
6x18x150x2	
8x24x150x2	
10x30x150x2	
12x36x200x2	
14x48x200x2	
18x60x200x2	
22x62x200x2	



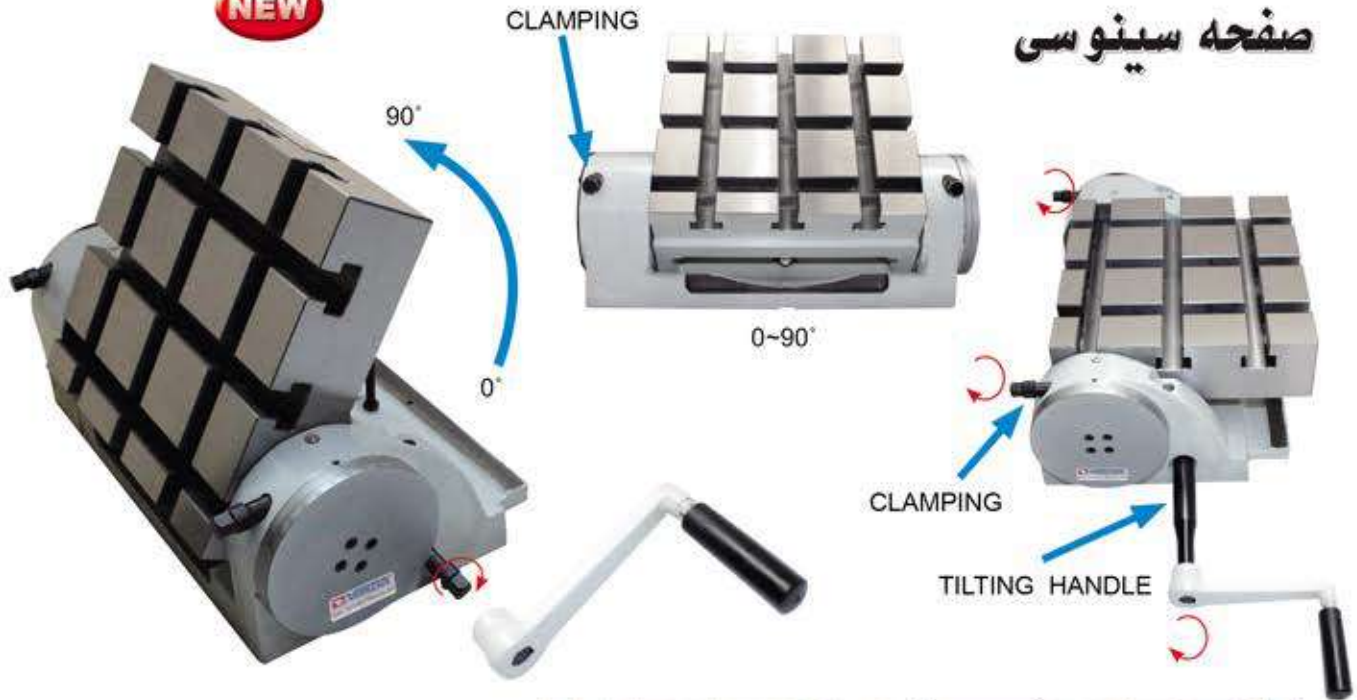
Heavy Duty Tilting Plate



TILTING PLATE & CLAMPING HANDLE

NEW

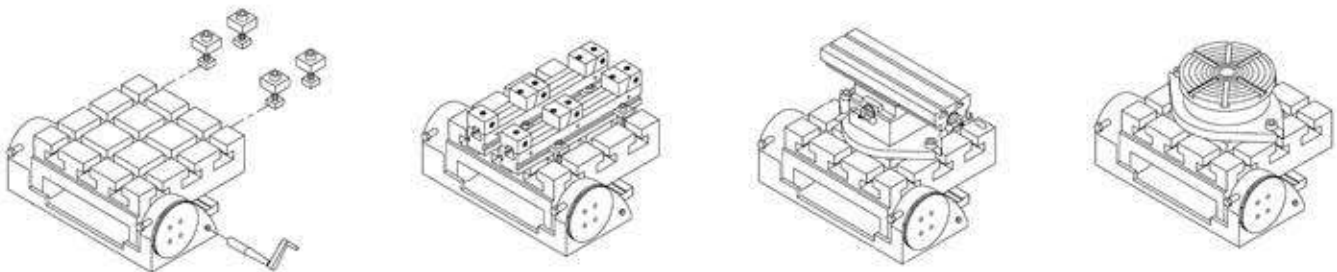
صفحه سینوسی



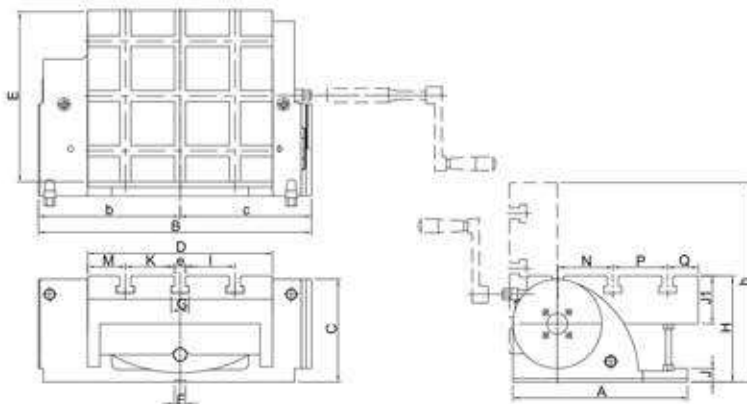
ORDER NO.	Horizontal	Vertical	CODE NO.
VUT-1515	30 kgs	12 kgs	1004-110
VUT-2726	45 kgs	20 kgs	1004-111
VUT-3230	70 kgs	35 kgs	1004-112



USING EXAMPLE:



- Tilting by rigid & strong design, 2 supporter & rigid clamping system construction.
- Minimum set-up time.
- Tilting angle can adjusted by worm & worm gear system.
- Accurate and built for use in milling, boring and other machines.
- Worm shafts are hardened and ground.
- Tilting plate with slots enable Multi-position work fixing.
- Strong structure.
- FC 25



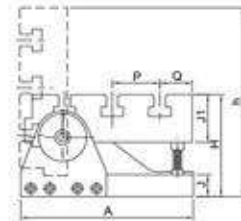
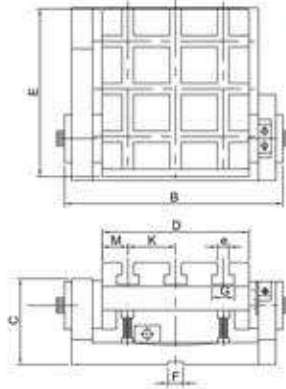
Unit:mm

ORDER NO.	A	B	C	D	E	F	G	H	I	J	J1	K	M	N	P	Q	b	c	e	h	KGS	CODE NO.
VUT-1515	180	285	113	156	150	16	20	115	44	16	50	44	28	50	50	30	145	140	10	251	17.6	1004-110
VUT-2726	255	399	150	270	258	16	22	155	72	20	70	72	55	80	80	45	207	192	12	291	59.4	1004-111
VUT-3230	300	449	169	320	298	16	26	169	92	25	75	92	60	98	100	48	232	217	16	305	83	1004-112

Light Duty Tilting Plate



صفحه سینوسی



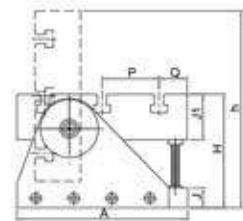
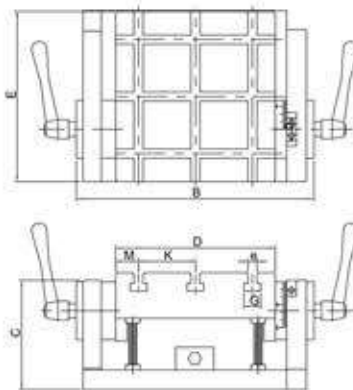
- Light cutting.
- Tilting angle adjustable: 0°-90°
- Can install with vise and mag. chuck.

5Unit:mm

ORDER NO.	A	B	C	D	E	F	G	H	I	J	J1	K	M	P	Q	e	h	Kgs	CODE NO.
VU-1517	180	228	92	154	176	16	20	105	44	22	50	50	27	50	34	12	198	14	1004-120

Light Duty Tilting Plate

NEW



- Light cutting.
- Tilting angle adjustable: 0°-90°
- Can install with vise and mag. chuck.

5Unit:mm

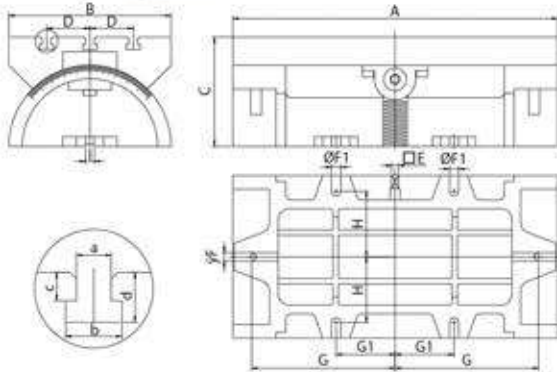
ORDER NO.	A	B	C	D	E	G	H	I	J	J1	K	M	P	Q	e	h	Kgs	CODE NO.
VU-2122	225	312	144	210	224	20	154	69	26	60	75	30	75	37	12	258	28	1004-121

Adjustable Angle Plate

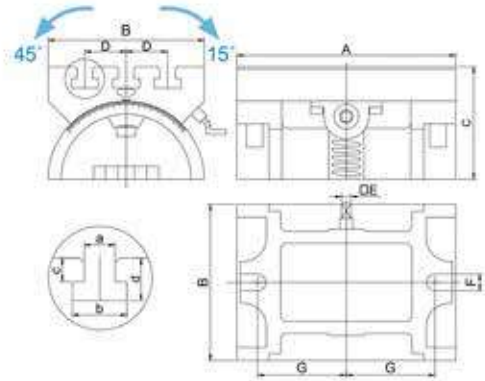


میز سینیوسی

1. For angle setting on various machine tools.
2. Adjustable 45°
3. Material: FC25
4. Lower plate and bigger working space.



VP-600



VP-180
VP-250
VP-380



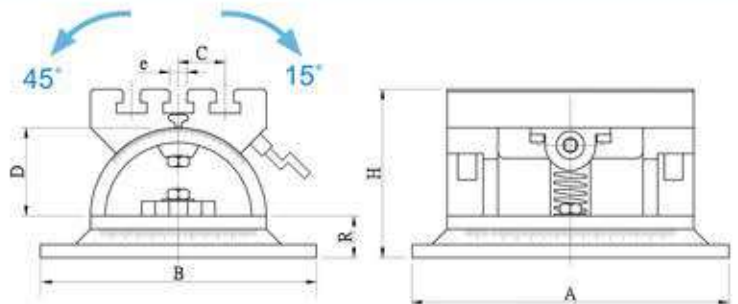
Unit:mm

ORDER NO.	A	B	C	D	E	F	G	a	b	c	d	kg	CODE NO.
VP-180	185	132	95	35	8	14	75	13	23	10	18	7.38	1004-089
VP-250	255	180	136	50	10	16	95	16	26	13.5	25	28.7	1004-090
VP-380	380	255	181	69	13	18	150	16	26	14	25	56	1004-091

Unit:mm

ORDER NO.	A	B	C	D	E	F	F1	G	G1	H	I	a	b	c	d	kg	CODE NO.
VP-600	600	300	202	80	13	16	17	265	109	121	16	16	26	13	23	85	1004-092

Angle Plate With Swivel Base



360° SWIVEL BASE.



Unit:mm

ORDER NO.	Table LxW			T-SLOT			R	WEIGHT (kg)	CODE NO.
	A	B	H	e	C	D			
VP-250S	290	180	206	16	50	105	52	36	1004-100
VP-380S	390	360	255	16	68	127	60	86	1004-101



Precision Cross Table



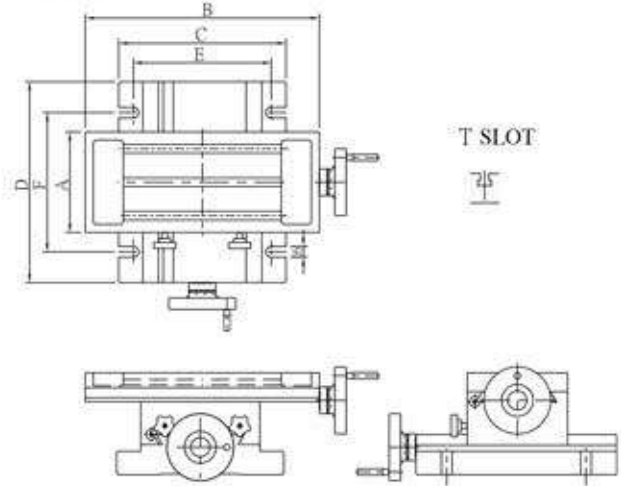
میز صلیبی



VCT-407



VCT-514



DRAWING OF VCT-514

Unit:mm

- Material: over FC-30
- Precision: 0.02/100mm

Specifications

ORDER NO.	A	B	C	D	E	F	Travel Stroke	T Slot	Total height	Dial graduation	PACKING LxWxH mm	WEIGHT kgs	MAX.LOAD kgs	CODE NO.
VCT-407	100	180	130	100	115	50	50x80	3/8"	100	2.5mm/0.02	290x240x140	12	35	1007-001
VCT-514	150	350	250	300	206	208	156x170	3/8"	134	4mm/0.02	510x450x240	33.5	105	1007-002
VCT-820	200	500	300	400	250	290	200x250	3/8"	155	4mm/0.02	640x520x200	72	140	1007-003
VCT-1024	250	600	400	500	340	430	250x300	1/2"	210	4mm/0.02	790x680x310	141	175	1007-004

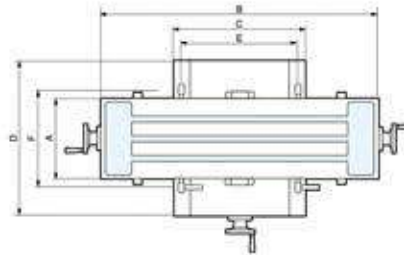
Precision Cross Table

ORDER NO.VCT-830 CODE NO.1007-010



VCT-830

A heavy, rugged slide in all kinds of positioning, milling, drilling micro-scope viewing and staging, adjustable bases for heavy loads, small jig boring, precision cut-off.



Unit:mm

Specifications

ORDER NO.	A	B	C	D	E	F	Travel Stroke	T Slot	Total height	Dial graduation	PACKING LxWxH mm	WEIGHT kgs	MAX.LOAD kgs	CODE NO.
VCT-830	210	730	345	405	305	230	190x350	16	185	2.5mm/0.05	991x584x292	100	35	1007-010



Cross Table

ORDER NO.VCT-512 CODE NO.1007-020

LIGHT DUTY

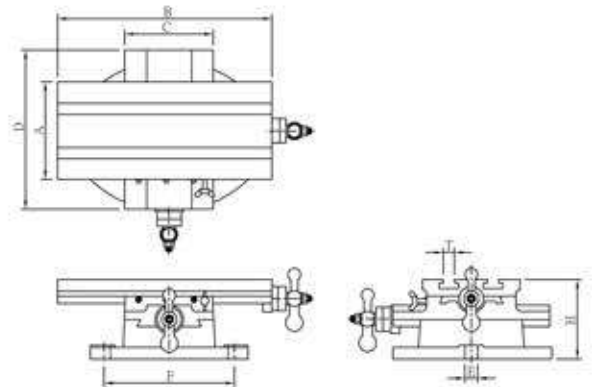


میز صلیبی



VCT-512

Table: 310x141mm
 Height: 115mm
 Travel: 200mm longitudinal.
 125mm transverse.
 Base: 225mm x 200mm oval with U slots for up to 16 bolts
 on 190 to 210 bolts circle.
 Dial Graduated: 0.03mm
 Net weight: 16.5kgs
 Max.Load:20kgs
 Packing Volume of each unit: 430x265x155mm
 LIGHT DUTY ONLY

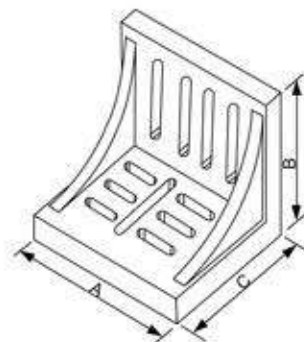


ORDER NO.	A	B	C	D	E	F	Stroke	T Slot	Total height	PACKING LxWxH mm	WEIGHT kgs	CODE NO
VCT-512	141	310	128	230	19	185	200x125	16	115mm	430x265x155	16.5	1007-020



Right Angle Plate

گونيا



- Made of high tensile cast iron
- Webbed style accurately grounded, square and parallel on outside faces and ends within 0.01mm per 100mm

Unit:mm

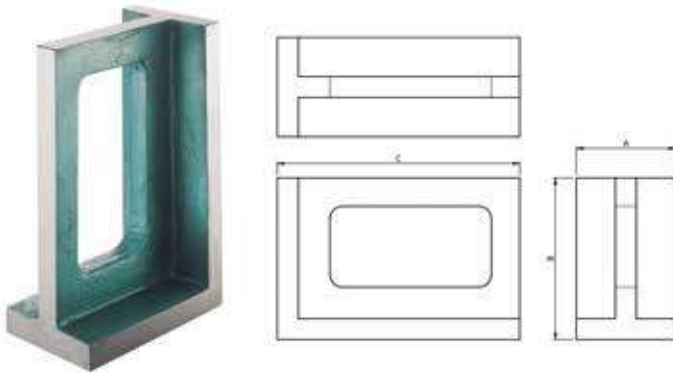
ORDER NO.	Approx Dimensions			WEIGHT (kgs)	CODE NO.
	A	B	C		
VR-6	150	126	115	3.8	1013-010
VR-8	202	150	126	7.4	1013-011
VR-10	250	202	126	12.1	1013-012
VR-12	300	228	202	23.7	1013-013



Precision Right Angle Plate



گونیا



- Made of finest quality castings, stress relieved.
- All outside surfaces closely finished for square and parallel references.
- Precision ground: Square within 0.01mm per 100mm
Parallel within 0.01mm per 100mm

Unit:mm

ORDER NO.	Approx Dimensions			WEIGHT (kgs)	CODE NO.
	A	B	C		
VRH-4	102	126	150	6.3	1013-001
VRH-5	126	202	300	16.9	1013-002
VRH-6	150	150	202	14.5	1013-003
VRH-8	202	250	300	32.5	1013-004



Slotted Angle Plate

VR-45



- Many size also stocked with precision ground finish.
- Made of high tensile cast iron properly seasoned against distortion.
Open end style accurately machined square and parallel on all faces.

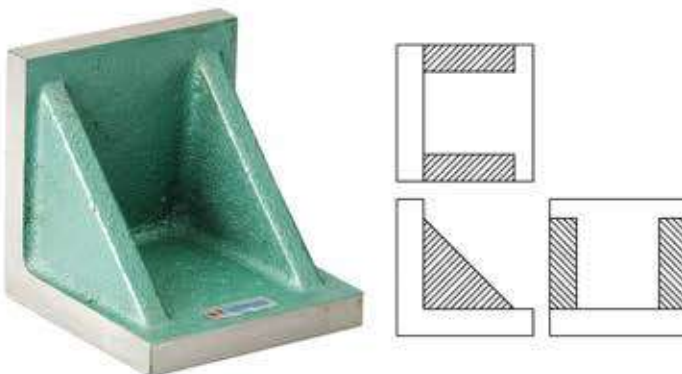
ORDER NO.	Approx Dimensions			APPROX WEIGHT (kgs)	CODE NO.
	A	B	C		
VR-45	4-1/2"	3-1/2"	3"	1.3	1013-020
VR-60	6"	5"	4-1/2"	3.2	1013-021
VR-80	8"	6"	5"	7.4	1013-022
VR-100	10"	8"	6"	12	1013-023
VR-120	12"	9"	8"	19.4	1013-024



Plain Angle Plate

Machined & precision ground

- Made from high tensile cast iron - normalized and stress relieved.
- Precision ground: Flat and square within 0.01 per 100mm



ORDER NO.	Size in inches	APPROX WEIGHT (kgs)	CODE NO.
VR-22	2x2x2	0.4	1013-030
VR-33	3x3x3	1.2	1013-031
VR-44	4x4x4	2.5	1013-032
VR-55	5x5x5	4.3	1013-033
VR-66	6x6x6	7	1013-034
VR-88	8x8x8	15.2	1013-035
VR-1010	10x10x10	27.7	1013-036
VR-1212	12x12x12	42.9	1013-037



- Material: S45C
- Easy adjustment
- Work clamping & support.

ORDER NO.	STUD	LxWxH	K.G.	CODE NO.
VCA-404	M12x5"	105x45x35mm	1.5	1015-001
VCA-405	M16x6"	126x54x40mm	2.6	1015-002
VCA-406	M20x7"	155x58x55mm	4.2	1015-003
VCA-408	M24x8"	190x70x65mm	8.2	1015-004



Pivot Clamp



- The clamping height is adjustable
- With brass plate under the clamp arm for protecting the working material from damage
- By using spherical Flange nut, it will be assured to clamp the material tightly
- The clamping arm is forged
- Material: S45C

ORDER NO.	Table T-Slot Size	Stud X L Size	Body	Clamping height	Clamping Force	G.W.	CODE NO.
VCB-404	16	M12x5"	115x42x39	0 or 3 1/2"	1	1.6	1015-005
VCB-405	18	M16x6"	133x50x49	0 or 4"	1.5	2.7	1015-006
VCB-406	22	M20x7"	157x60x54	0 or 4 3/4"	2	4.6	1015-007
VCB-408	28	M24x8"	7x2 7/8	0 or 6"	2.5	8.6	1015-008



Hand Drift

ORDER NO.VHD-1 CODE NO.1016-001

An essential tool for machinery processing

Specially applied for: Vertical drill, radial drill, compounding miller, boring miller, and any drill drifting, etc.



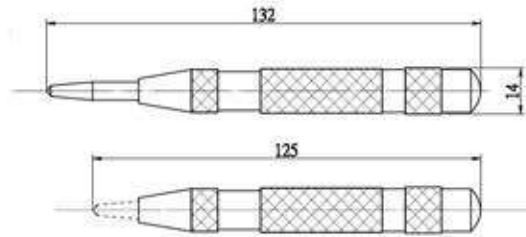
- Easy and fast operation.
- Enhance the working efficiency.
- Protect toolings to be safe.
- Economical, practical & durable.
- Medium Carbon Steel.
- Hardness:HRC 44°-48°

Suit For Spindle Notes	Length	30pcs/Box Size	30pcs/ Carton Size	N.W.(kg)
M.T.#2 #3 #4 #5	375mm	385x45x37mm	390x270x240mm	1.3

سنجه نشان



L: 120MM



Automatic point marker is the best tool final the central point before punching. It's operated to aim at the central line and be pressed downward; the central point will appear. The size of the point can be adjusted by the pressure lid, no need to use hammers. The force from spring pressure.

- Also can use to break car windows
- N.W. : 0.07kg

 **Draw Bar**



- For milling machine

ORDER NO.	DRAW BAR THREAD	LENGTH mm		WEIGHT (kg)	CODE NO.
		STEPS (S) TYPE	VARIABLE (A) SPEED		
VDR-R8-S	7/16-20UNF	518	598	0.5	1020-001
VDR-R8-A				0.8	1020-002
VDR-NT302-S	1/2-12UNF	555	635	0.6	1020-003
VDR-NT302-A				0.9	1020-004
VDR-NT303-A	1/2-13UNF	555	635	0.9	1020-006
VDR-NT30M-S	M12x1.75P	555	635	0.6	1020-007
VDR-NT30M-A				0.9	1020-008
VDR-NT40I-S	5/8-11UNF	545	630	1	1020-009
VDR-NT40I-A				1.3	1020-010
VDR-NT40M-S	M16x2.0P	545	630	1	1020-011
VDR-NT40M-A				1.3	1020-012

 **Expandable Machine Guard Cover**



B TYPE



F TYPE

F IS FOR FRONT (X)
B IS FOR BACK (Y)
(MILLING MACHINE)
B SERIES RUBBER IS PLAIN TYPE.

ORDER NO.	WxL	SUITFUL MILLING SINE	WEIGHT (kg)	CODE NO.
VGC-3833F	380x330	1.5"	0.3	1021-001
VGC-3860F	380x600	1.6" 1.7"	0.6	1021-002
VGC-4550F	450x500	1.6"	0.7	1021-003
VGC-3775B	370x750	1.5"	0.7	1021-004
VGC-4585B	450x850	1.6" 1.7"	1.1	1021-005
VGC-6085B	600x850	2.0"	2	1021-006



Dustproof Halogen Lamp Beam



WATER PROOF UNIVERSAL TYPE



چراغ هالوژن

VHL-300 SERIES



VHL-300S

VHL-300M

VHL-300L

Features

- Coil transformer built in base for directly connect to voltage of Ac power. (110V, 220V, 380V, 24V...)
- Specify voltage as desired when ordering.
- It accepts bulb 55W
- Furnished with 1.8 meter cord with plug.
- Fitted with coil transformer resisting unstable voltage.
- Long service life.
- IP65
- with water proof articulated arm.
- ※ Please confirm voltage & phase when order.

Unit:mm

ORDER NO.	ARM LENGTH L x l	WEIGHT (kg)	CODE NO.
VHL-300L	430x400	2.4	1025-001
VHL-300M	250x200	2.1	1025-002
VHL-300S	1 JOINT	2.3	1025-003
J-L02		0.3	1025-004
J-C02		0.5	1025-005



Quartz Halogen Lamp Beam



UNIVERSAL TYPE

- Gooseneck arm for smooth lighting angle adjustment.
- Lighting reaches any direction.

VHL-20FT SERIES

- Engineering plastic shade and base provides complete insulation for maximum operator safety.
- Power source available: Any voltage on customer's request. Such as 110V, 220V, 240V, 380V, 415V.
- Transformer built in base.
- Accept 20, 35 and 50 watt bulb. Included with 20 watt bulb, 35 and 50 watt bulb on request.
- Furnished with 1.8 meter (70") cord.
- Available with magnetic base. (optional)
- Engineering mounting angle plate. (optional)
- Double shades designed permits fast heat dissipation.

چراغ هالوژن



VHL-20F SERIES

- The quartz halogen lamp has great light output, soft illuminating without irritating to the eyes.
- Low voltage 12 or 24 volt operation without danger of electric shock.
- The articulated arm provides vibration resistance performance.
- Use top quality electric components.
- Accept 20, 35, 50 watt bulb. Included with 20 watt bulb, 35 and 50 watt bulb on request.
- Complete with 1.8 meters (70") cord.
- Economical model, jet quality constructed.
- Ideally suited to machine tools and machinery without big working area.
- Engineering plastic shade and base provides complete insulation.

OPTIONAL



J-M01



J-C02



J-L02



- MAGNETIC SEAT
- MOUNTING CLAMP J-C02
- MOUNTING ANGLE PLATE J-L02

ORDER NO.	WEIGHT(kg)	CODE NO.
VHL-20FT	1.6	1025-020
VHL-20F	1.1	1025-021
J-M01	0.6	1025-006
J-L02	0.3	1025-004
J-C02	0.5	1025-005

※ Please confirm voltage & phase when order.

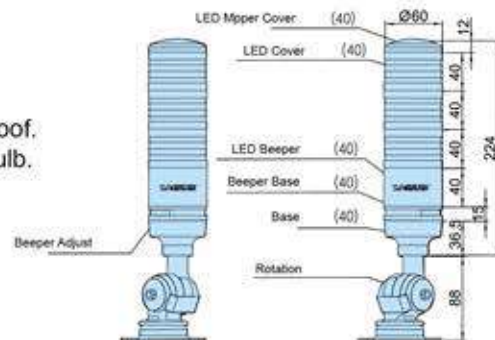
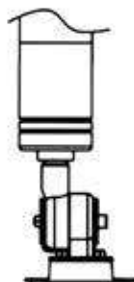


Water - Proof Bright LED Signal Light

NEW



- Signal light with feature of multi-function, water proof.
 - Lamp of signal light, adopted high efficient LED bulb.
- ※ Please confirm voltage & phase when order.



- Suit for machine tools & etc, show signal of machine process
- Good for automatic process line multi angle
- Double layer lamp shade high illumination LED water & dust proof-steam 360° lighting without shade

ORDER NO.	Bulb	Enclosure IP	weight (kgs)	CODE NO.
VLED-SL	24V	IP54	0.77	1025-026



Magnifying Fluorescent Work Light Beam VERTEX®

چراغ ذره بین دار



VHL-30TEB
BENCH TYPE

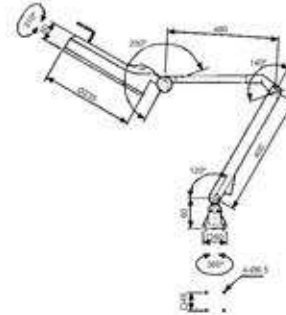


VHL-30MEB

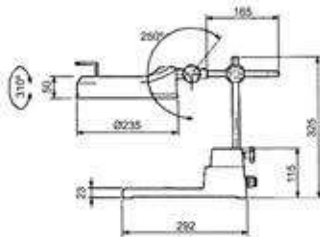


WITH 5X LENSE
3 Diopter auxiliary lens
(optional)

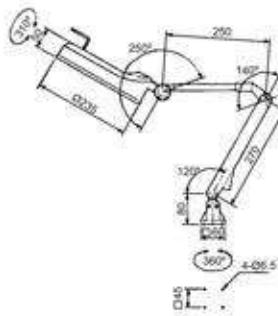
VHL-30LEB



VHL-30LEB LONG ARM



VHL-30TEB BENCH TYPE



VHL-30MEB MEDIUM ARM

VHL-30TEB

- Bench type model.
- Constructed with a wide base for placing object, allowing it especially suited for inspection lighting.
- Electronic ballast is built in arm.
- Accepts 22 watt fluorescent tube.
- ※ 110V, or 220V operation. Supplied single voltage only. Specify desired voltage when ordering.
- Furnished with 1.8 meter cord with plug. Extended cord length is available when required.

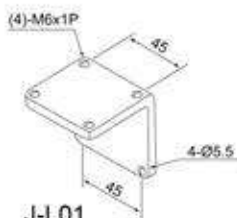
Designed with a magnifier lense on luminaire head giving 5 Diopter of magnification 2.25x than actual object. The fluorescent lighting provides day light effect without flash.

●OPTIONAL●

ORDER NO. VHL-3X
3 Diopter magnifier lense=1.75X

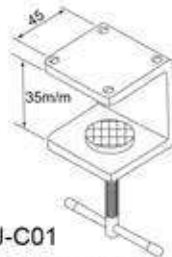


●OPTION



J-L01
MOUNTING ANGLE
PLATE

●STANDARD ACC.



J-C01
MOUNTING CLAMP

VHL-30 MEB

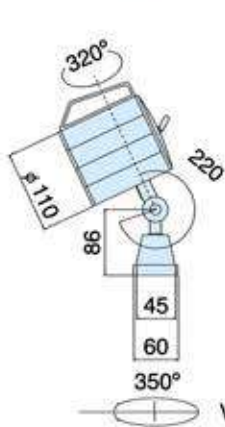
- Medium arm model.
- Electronic ballast is built in arm.
- Accepts 22 watt fluorescent tube.
- 110V, or 220V operation. Supplied single voltage only. specify desired voltage when ordering.
- Furnished with 1.8 meter cord with plug. Extended cord length is available when required.

VHL-30 LEB

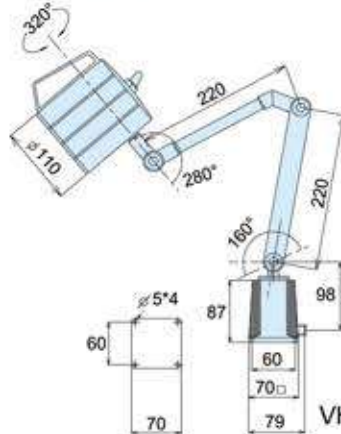
- Long arm model.
- Electronic ballast is built in arm.
- Accepts 22 watt fluorescent tube.
- 110V, or 220V operation. Supplied single voltage only. Specify desired voltage when ordering.
- Furnished with 1.8 meter cord with plug. Extended cord length is available when required.

ORDER NO.	WEIGHT (kg)	CODE NO.
VHL-30TEB	3.5	1025-060
VHL-30MEB	2.9	1025-062
VHL-30LEB	2.9	1025-063
J-L01	0.6	1025-014
VHL-3X	0.3	1025-065

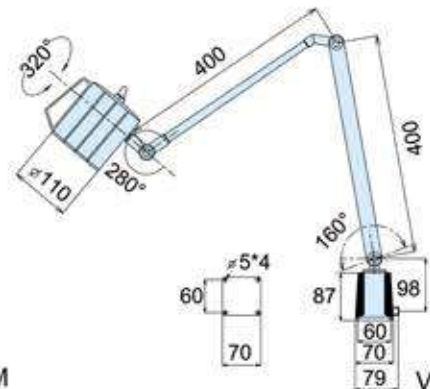
- All VHL-XXXEB work lights are with 5 Diopter magnifier lense, The MAX.=5+3=8 Diopter



VHL-400S



VHL-400M



VHL-400L

WATER-PROOF HALOGEN LIGHTING LAMP (VHL-400L SERIES)

LIGHTING HEADS OF THESE SERIES WITH SPECIFIC FEATURES OF WATER-PROOF, DUST-FREE, ANTI-LUBRICAT, ANIT-CUTTING OIL, ETC. THE LIGHTING UNITS ADPOTED WITH A BULB (12V/50W). CUSTOMERS' SPECIFICATIONS ALSO ACCEPTED.

VHL-400L

- Water-proof lighting head with reinforced glass resists big temperature fluctuations of cutting oil.
- 12V/24V Voltage.
- Flexible Arm (round arm), 400x400mm
- With universal Lighting Base.
- Specifications of Bulb: 12V/50W.
- Different conditions demand different lighting bases. Selected rectangular L-type (#V-20) base or C-type (#V-21) base.

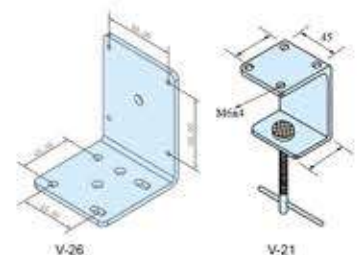
VHL-400M

- Performance & features: same as, but with shorter flexible arm at 220x185mm.

VHL-400S

- Specially designed to fit particular locations and spaces, The flexible arm is very short.

OPTIONAL



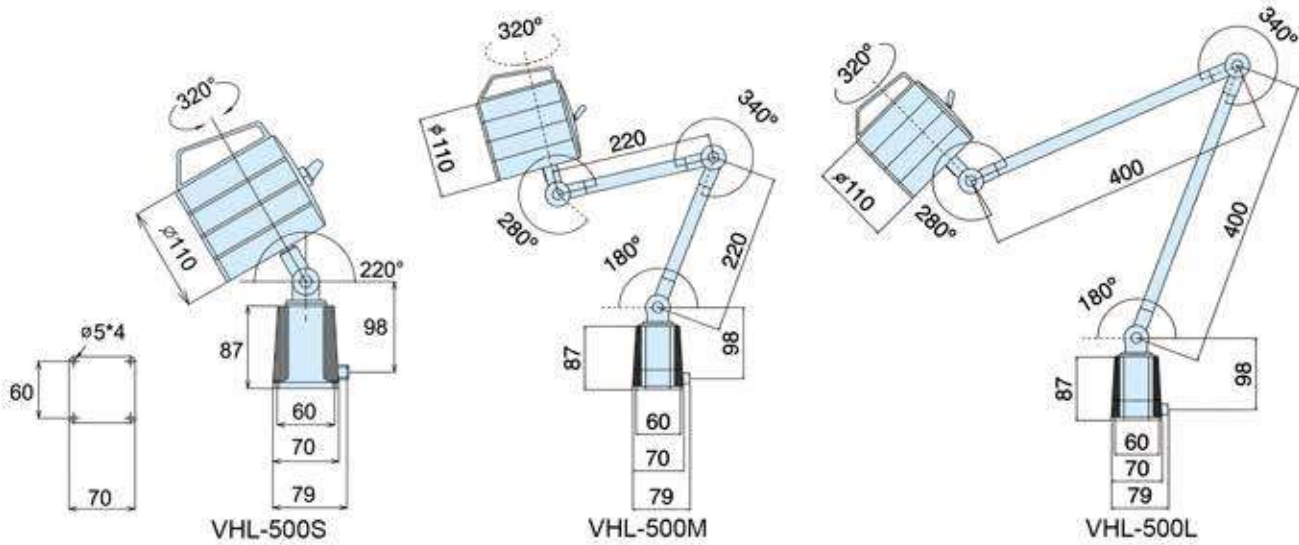
ORDER NO.	VOLTAGE	BULB	ARM LENGTH L x l	OPTIONAL ACCESSORIES	WEIGHT (N.W.)	CODE NO.
VHL-400L	110V - 220V	12V 50W	400x400	V-26	3.8	10 25-100
VHL-400M	110V - 220V	12V 50W	220x220	V-26	3.5	1025-101
VHL-400S		12V 50W		V-20 / V-21	2.8	1025-102

ORDER NO.	WEIGHT (kg)	CODE NO.
V-21	0.48	1025-107
V-26	0.19	1025-108



Water-Proof Halogen Lighting Beam

چراغ هالوژن ضد آب



VHL-500L

● Performance & features of these series: same as. The main difference is that VHL-500L can be installed with a shorter arm, and connected with AC current below 240V.

※ Please indicate the required voltage when placing the orders to us.

● Specifications of the bulb: 12V/50W

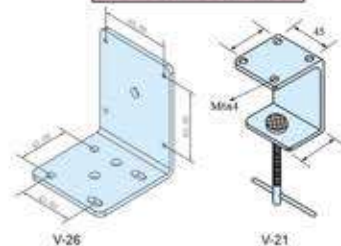
VHL-500M

● Same specifications as VHL-500L, but with shorter flexible arm at 220x220mm.

VHL-500S

● Specially designed to fit particular locations and spaces. The flexible arm is very short.

● OPTIONAL ●



ORDER NO.	VOLTAGE	BULB	ARM LENGTH L x l	OPTIONAL ACCESSORIES	WEIGHT (N.W.)	CODE NO.	ORDER NO.	WEIGHT (kg)	CODE NO.
VHL-500L	110V - 220V	12V 50W - 24V 50W	400x400	V-26	4	1025-103	V-21	0.48	1025-107
VHL-500M	110V - 220V	12V 50W - 24V 50W	200x220	V-26	3.8	1025-104	V-26	0.19	1025-108
VHL-500S	110V - 220V	12V 50W - 24V 50W		V-26	2.7	1025-105			

Concentrate LED Lamp

UNIVERSAL TYPE

VERTEX®

LED چراغ



NEW



Features

- Energy saving
- LED light long service life
- 1 year guarantee
- Luminous flux: 250~330 lumen
- No high heat produce
- Dust proof
- Flexible & folding arm
- Built-in transformer
- Suit for small CNC, engraving, sewing machine, drill press, lathe, and working table

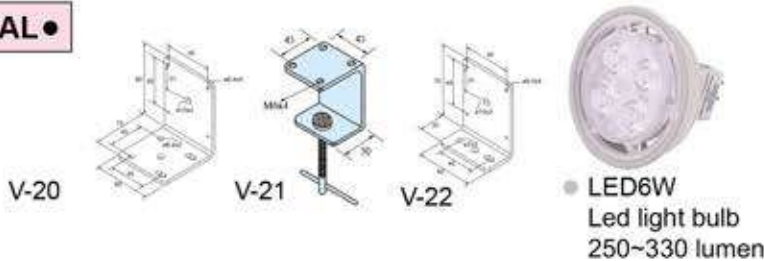
VLED-30L

VLED-30M

※ Please confirm voltage & phase when order.

ORDER NO.	VOLTAGE	BULB	ARM L x ℓ	WEIGHT N.W.(KGS)	CODE NO.
VLED-30L	INPUT: 220V OUTPUT: AC / DC 12V	12V 6W	400 X 310 mm	2	1025-125
VLED-30L	INPUT: 110V OUTPUT: AC / DC 12V	12V 6W	400 X 310 mm	2	1025-126
VLED-30M	INPUT: 220V OUTPUT: AC / DC 12V	12V 6W	220 X 310 mm	1.8	1025-127
VLED-30M	INPUT: 110V OUTPUT: AC / DC 12V	12V 6W	220 X 310 mm	1.8	1025-128

•OPTIONAL•



OPTIONAL ACCESSORIES

ORDER NO.	WEIGHT (kg)	CODE NO.
V-20	0.28	1025-106
V-21	0.48	1025-107
V-22	0.16	1025-119
LED6W	0.14	1025-140

Wide Range LED Lamp

NEW



Features

- Power consumption :21.5W
- Angle:36°
- Color temperature:2800K
- Lumens value:210 lm
- Voltage:AC 220V power 12V
- With transformer built-in

•OPTIONAL•



ORDER NO.	VOLTAGE	BULB	ARM L x ℓ	WEIGHT N.W.(KGS)	CODE NO.	ORDER NO.	WEIGHT (kg)	CODE NO.
VHL-50FT	AC 220V	12V / 20W	500 mm	1.69	1025-151	V-51	0.52	1025-161
						V-52	0.27	1025-162



Concentric Test Stand



صفحه دو مرنگ

NEW



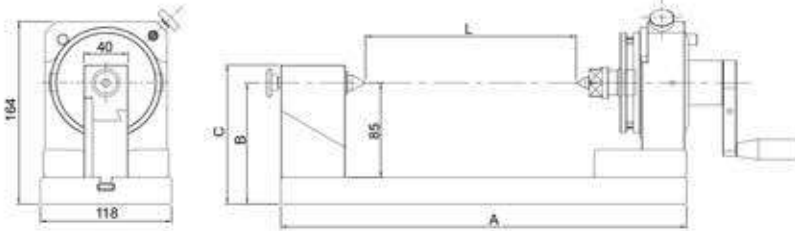
Feature

- For Checking Roundness & True Running Accuracy
- For Grinding High Accuracy Outer Diameter & Round Bar On Surface Grinder By Accurated Center And Holder.

Specification

- Body Center high : 85 mm
- Base to punch center : 109 mm
- Division & Accuracy : 24 & $15' \pm 10''$
- Workpiece length : 0~450mm
- Material : sks-3, HRC 60~62'
- Roundness : 0.002 mm
- Parallelism : 0.002 / 100mm
- Squareness : 0.002 / 100mm

Unit:mm



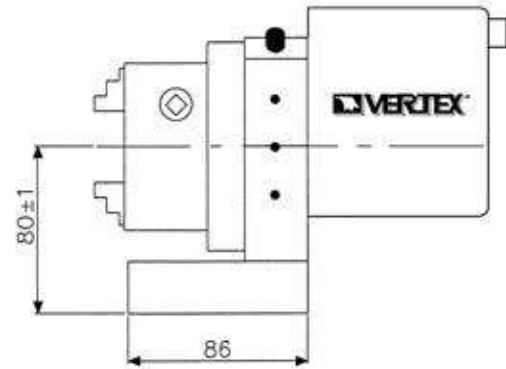
ORDER NO.	A	B	C	L	Division	Graduation	N.W. (kgs)	CODE NO.
VCI-150P	375	109	125	0-150	24 ($15' \pm 10''$)	360°	20	2021-113
VCI-250P	475	109	125	0-250			23	2021-114
VCI-350P	575	109	125	0-350			26	2021-115



Fixed Speed Punch Former

AUTO TYPE

NEW



- The Punch Former with a motor attached can be applied to precisely grind a punch to round in a short time and saves the processing time.
- Chuck Type can clamp workpieces in a wide range.
- 3 inch 3 jaw chuck.

ORDER NO.	O.D.	I.D.	Max. Dia. of Workpiece	Center Height	Motor Output-W Input-V	Graduation	R.P.M.	N.W. (kgs)	CODE NO.
V-PS-80M	2-70	24-64	Ø50	80-81	15W 110/220V	360°	110	11.72	2021-130

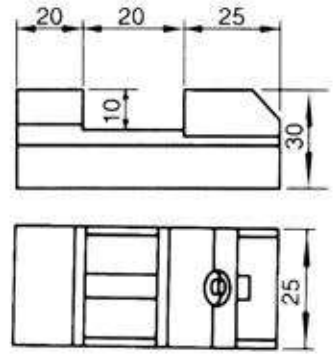
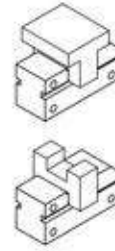
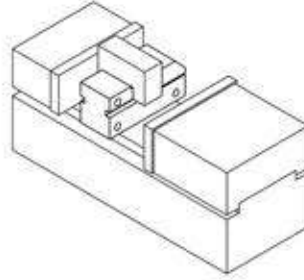


Mini Tool Maker Vise

ORDER NO.VMV-10 CODE NO.2003-001

WEIGHT:0.3kg

گیره سنگ خورده



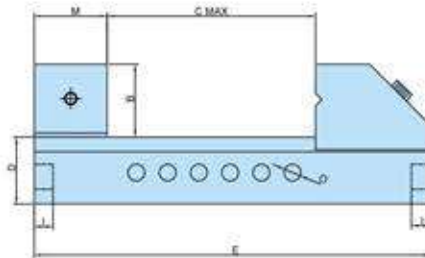
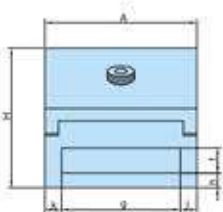
Tool makers vise of mini type which can be put in a bigger vise to process the small and precise workpiece. Also it can be used in an E.D.M. machine and grinding machine.

Squareness and parallelism : within ± 0.005 mm / 100 mm.

ORDER NO.	Weight (kgs)	CODE NO.
VMV-10	0.3	2003-001



Tool Maker Vise



- Made of SK material of J.I.S. specification.
- Hardened by heat treatment and precision ground.
- Squareness and parallelism are ensured to be within ± 0.005 mm / 100 mm.
- It can be used and kept its high precision while standing on its base, sides or extremity, for inspection use in stead of squares due to its extremely accuracy.
- Hardness: HRC 54 \pm 2°

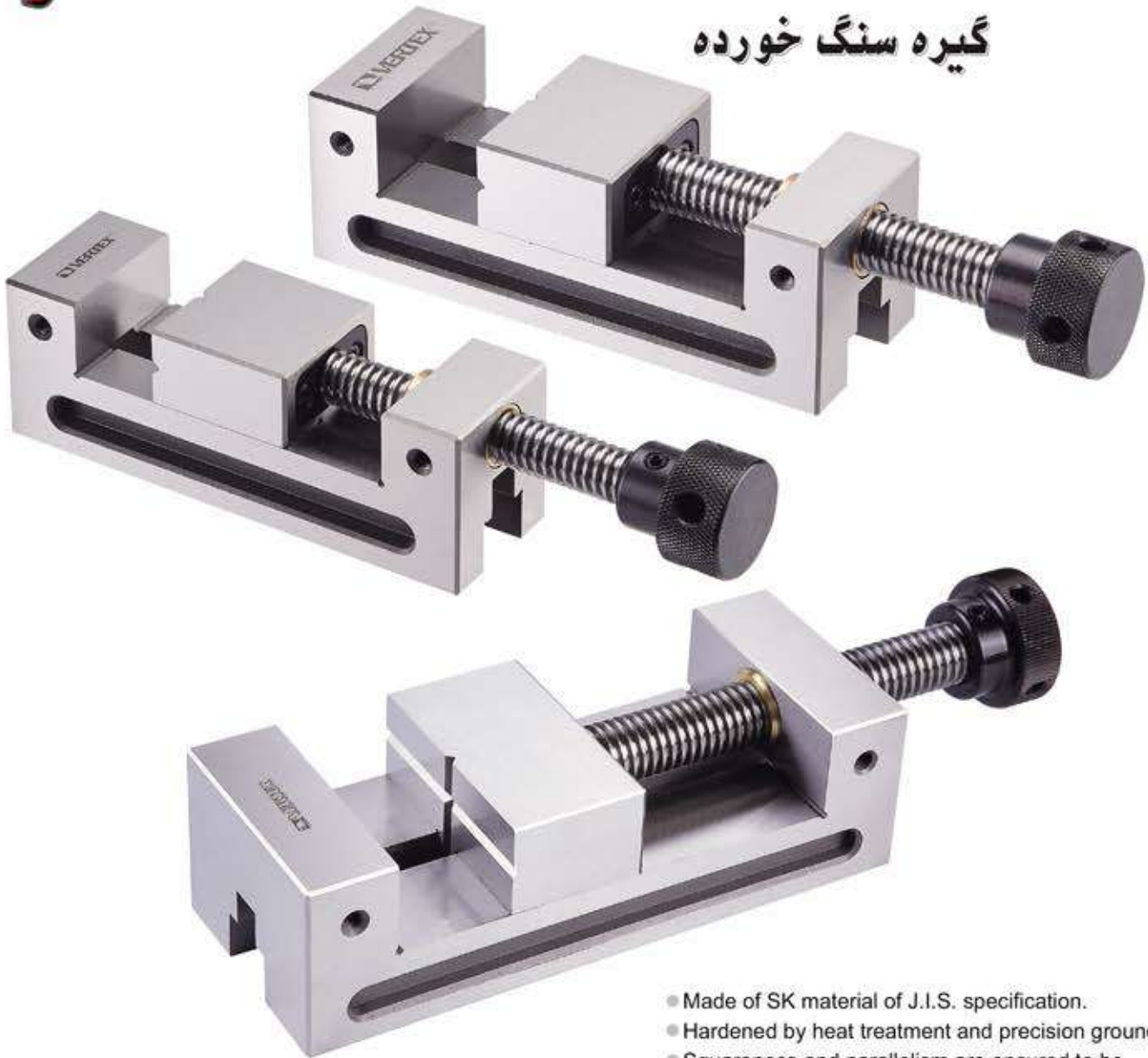
ORDER NO.	MATERIAL	A	B	C max	D	E	I	f	g	h	j	k	H	M	O	N.W (KGS)	CODE NO
VMV-15	SK2	36	20	40	20	100	5	8	24	5	6	6	40	20	6	0.9	2003-010
VMV-20	SK2	47	29	74	28	150	5	10	37	6	5	5	57	30	8	2	2003-011
VMV-25	SK2	62	34	89	28	170	7	10	52	6	5	5	62	30	8	3.3	2003-012
VMV-30	SK2	72	34	99	32	190	9	12	56	7	8	8	66	35	8	4.5	2003-013
VMV-35	SK2	88	45	120	40	225	12	12	64	11	12	12	85	40	10	7	2003-014
VMV-40	SK2	98	45	125	40	230	12	12	64	11	17	17	85	40	10	8.9	2003-015
VMV-50	SK2	125	50	157	50	287	12	13	73	14	26	26	100	50	14	15.5	2003-016
VMV-60	S50C	150	50	200	50	330	12	14	76	14	37	37	100	50	14	21.4	2003-017



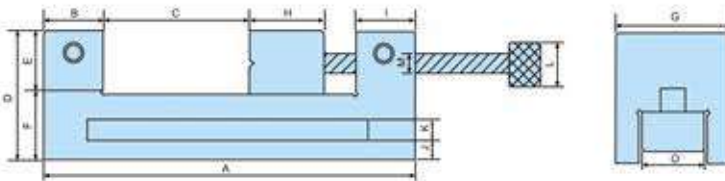
Tool Maker Vise



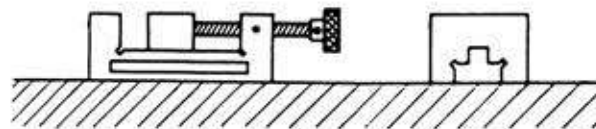
گیره سنگ خورده



- Made of SK material of J.I.S. specification.
- Hardened by heat treatment and precision ground.
- Squareness and parallelism are ensured to be within ± 0.005 mm / 100 mm.
- It can be used and kept its high precision while standing on its base, sides or extremity, for inspection use in stead of squares due to its extremely accuracy.
- Hardness: HRC $54^{\circ} \pm 2^{\circ}$



TOLERANCE ± 0.005 mm / 100mm



Unit:mm

ORDER NO.	MATERIAL	A LENGTH	B	JAW C OPENING	D	E	F	G	H	I	J	K	L	M	O	HEIGHT (mm)	HARDEN	WEIGHT (KGS)	CODE NO.
VDV-20	SK2	154	25	55	54	24	29	47	45	25	9.50	10.15	34.70	15.80	18.7	54	HRC54'±2'	2.5	2003-020
VDV-25	SK2	175	25	75	60	29	30	62	44.80	25	10	10.90	39.60	18.95	26	60	HRC54'±2'	3.9	2003-021
VDV-30	SK2	180	30	71	70	29	40	72	51.85	25	14	12.35	50.35	18.95	26	70	HRC54'±2'	5.7	2003-022
VDV-35	SK2	250	35	121	73	38	35	88	55.40	35.55	10.80	11.60	54.85	25.35	30.20	73	HRC54'±2'	9.2	2003-023
VDV-40	SK2	250	35	121	73	38	35	98	55	34.75	11.80	11.55	54.65	25.35	29.60	73	HRC54'±2'	10.1	2003-024



Tool Makers Vise

گیره سنگ خورده



Good Design With High Precision And Rigid Accuracy :

Material Hardened: SKS HRC 60° Sub-zero processing.

Parallelism: Within 0.003 / 100 mm

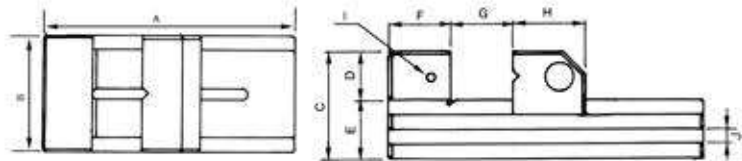
Squareness: Within 0.005 / 100 mm

Angle tol: Within 15 sec Within 20 sec

Material: SKS2

*Sine conversion table attached page B16

Fixed Down Jaw Designed



ORDER NO.	A	B	C	D	E	F	G	H	I	J	N.W (kgs)	CODE NO.
VC20	150	48	53	25	28	25	84	40	M6	8	1.6	2003-070
VC25	176	63	59	30	29	30	95	48	M6	8	2.8	2003-071
VC30	190	73	68	35	33	35	100	53	M6	9	4	2003-072
VC40	245	98	90	45	45	45	135	65	M8	12	9.02	2003-073



Tool Makers Vise



Accuracy :

Material Hardened: Sub-zero processing.

Parallelism: Within 0.003 / 100 mm

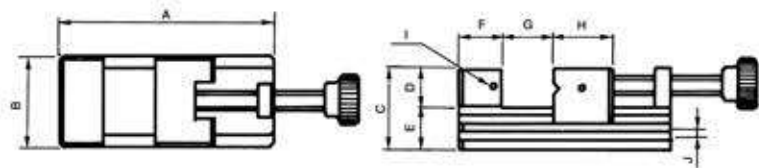
Squareness: Within 0.005 / 100 mm

Angle tol: Within 15 sec Within 20 sec

Material: SKS2

Hardness: HRC 54 \pm 2°

*Sine conversion table attached page B16



ORDER NO.	A	B	C	D	E	F	G	H	I	J	N.W (kgs)	CODE NO.
V-VE20	90	60	50	23	27	25	32	30	M5	6x6	1.62	2003-080
V-VE25	160	70	62	28	34	33	80	45	M6	7.5x7	4.02	2003-081
V-VE30	175	73	65	30	35	35	93	45	M6	7.5x7	4.7	2003-082



Precision Universal Angle Vise



گیره سنگ خورده سینوسی

PAT.

NEW



VUA-3

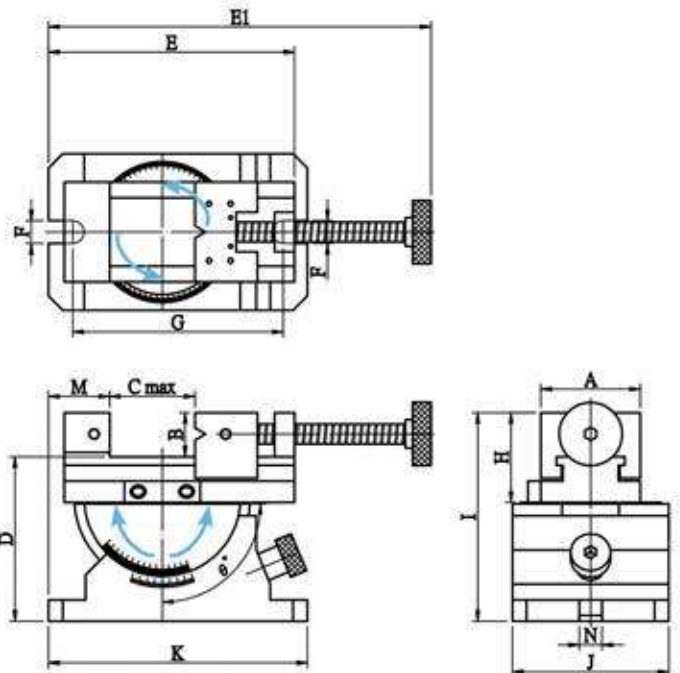


VUA-4



Features

- Precision graduation for accurate reading.
- Its swivelling and tilting features make this unit well suited for straight or inclined surface, angular drilling machining on various machine tools as precision grinding machine, boring and milling machine, electrical discharge machine etc.
- Tolerance $\pm 0.01\text{mm}/100\text{mm}$.
- Vise bottom to base parallelism $\pm 0.02\text{ mm}$
- Squareness ± 0.02
- 360° Horizontal swivel
- 45° Vertical tilting
- Precision ground
- Material: VISE SK-2
- Hardness: HRC 52° $\pm 2^\circ$
- Load capacity : 25kgs



Unit:mm

ORDER NO.	A	B	C MAX	D	E	E1	F	G	H	I	J	K	M	N	θ	G.W(KGS)	CODE.NO.
VUA-3	70	31	80	115	173	291	16	156	63	146	110	182	43	16	-20°~50°	12	2003-050
VUA-4	88	35	110	132	193	346	16	156	83	167	110	182	29	16	-20°~50°	15	2003-051



Precision Universal Angle Plate

ميز دقيق سينوسي

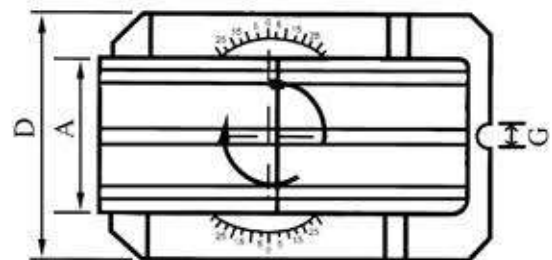
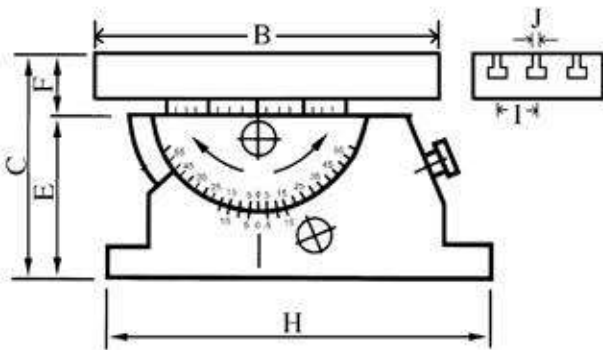


Features

- Precision grounded.
- Rigid design.
- The table can swivel 360°, and tilts 45°
- It can put tool maker vise VMV-type VDV-type or 3 jaw chuck for clamping
- The graduation for accurate reading
- Vise bottom to base parallelism ± 0.02 mm
- Squareness ± 0.02
- Material: SK-2
- Hardness: HRC $52^{\circ} \pm 2^{\circ}$
- Load capacity : 25kgs



- Example
For single purpose



Unit:mm

ORDER NO.	A	B	C	D	E	F	G	H	I	J	G.W (kgs)	CODE NO.
VUA-408	100	200	133	110	83	50	16	182	30	12	15	2003-055
VUA-510	126	250	133	110	83	50	16	182	40	12	18.1	2003-056



Sine Bar With Magnetic



خط کش سینوسی



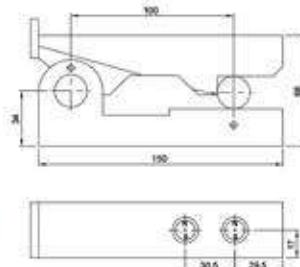
There is magnet in the bottom which can be run on any kind of machine for testing angle use.

The thread can for stopper screw



Height Gage Block PAGE B76

● Example

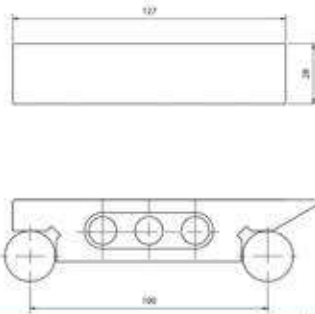


Unit:mm

ORDER NO.	SQUARNESS	ACCURACY	PARALLELISM	HARDNESS	MATERIAL	N.W. (kgs)	CODE NO.
V-S50M	0.005mm /100mm	±0.002	0.002mm/100mm	HRC50°	SK-3	0.34	2004-001
V-S100M	0.005mm /100mm	±0.002	0.002mm/100mm	HRC50°	SK-3	2.06	2004-002



Sine Bar



Unit:mm

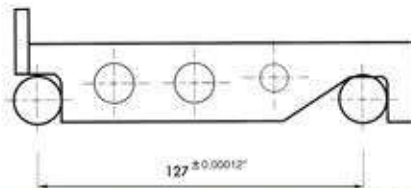
ORDER NO.	LENGTH	WIDTH	HEIGHT	CENTER DISTANCE	PARALLEL	HARDEN	BLOCKS DIA.	MATERIAL	N.W (kgs)	CODE NO.
VS-100	127	28	35	0.005	0.005/100mm	HRC50°	Ø20mm	SK-3	0.76	2004-010



Sine Bar-Inch



Change of the sine angle must be count on sine bar inspection, the bar's tolerance within 0.005 mm / 100 mm



Unit:inch

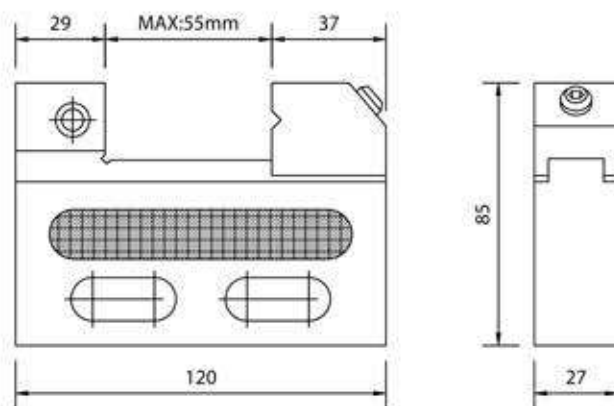
ORDER NO.	LENGTH	WIDTH	HEIGHT	CENTER DISTANCE	PARALLEL	HARDEN	BLOCKS DIA.	MATERIAL	N.W (kgs)	CODE NO.
V-S25	6-3/8"	1"	1-1/4"	127	0.00012"	HRC52°	3/4"	SK2	1	2004-020
V-S50	6-3/8"	2"	1-1/4"	127	0.00012"	HRC52°	3/4"	SK2	1.8	2004-021

HOW TO CHOOSE THE BLOCK FOR SINE BAR

DISTANCE GAUGE BLOCK CAN GET DEGREE	SIN BAR CENTER	SIN BAR CENTER
	+50-	+100-
2°	1.7405	3.4899
3°	2.6168	5.2336
4°	3.4878	6.9756
5°	4.3578	8.7155
6°	5.2264	10.4528
7°	6.0935	12.1869
8°	6.9587	13.9173
9°	7.8217	15.6434
10°	8.6824	17.3648
11°	9.5404	19.0809
12°	10.3956	20.7911
13°	11.2476	22.4951
14°	12.0961	24.1921
15°	12.9401	25.8819
16°	13.7819	27.5637
17°	14.6186	29.2371
18°	15.4058	30.9017
19°	16.2784	32.5586
20°	17.1010	34.2020
21°	17.9184	35.8367
22°	18.7303	37.4606
23°	19.5366	39.0713
24°	20.3368	40.6736
25°	21.1309	42.2618
26°	21.9186	43.8371
27°	22.6995	45.3990
28°	23.4736	46.9471
29°	24.2405	48.4809
30°	25.0000	50.0000
31°	25.7519	51.5038
32°	26.4960	52.9919
33°	27.2320	54.4639
34°	27.9596	55.9192
35°	28.6788	57.3576
36°	29.3893	58.7785
37°	30.0908	60.1815
38°	30.7831	61.5661
39°	31.4660	62.9320
40°	32.1394	64.2787
41°	32.8030	65.6059
42°	33.4565	66.9130
43°	34.0999	68.1998
44°	34.7329	69.4658
45°	35.3553	70.7106

EDM Tool Marker Vise (STAINLESS) VERTEX®

گیره مخصوص وایر کات



Material: SUS 440

Hardness: HRC 58°~60°

Squareness: Within 0.005 mm

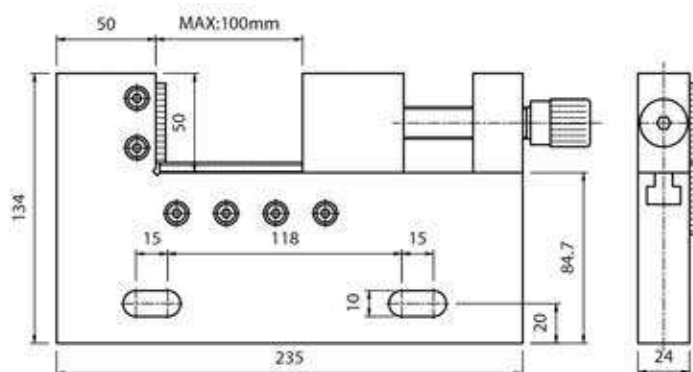
This vise is for wire cutter use. Each of the parts was manufactured by stainless steel and with the appliance of high erosion resisting.

※ Not 100% magnetic proof

PARALLELISM	±0.002 mm / 100 mm	
SQUARENESS	±0.002 mm / 100 mm	
ORDER NO.	WEIGHT (kgs)	CODE NO.
VSTV-50W	1.4	2008-040

MAX.OPENING	55 mm
THICKNESS	27 mm
JAW DEEP	25 mm
N.W	1.01 kgs
MATERIAL	SUS 440
HARDNESS	HRC 54°±2°

EDM Tool Maker Vise (STAINLESS)



● Do not over lock.

※ Not 100% magnetic proof

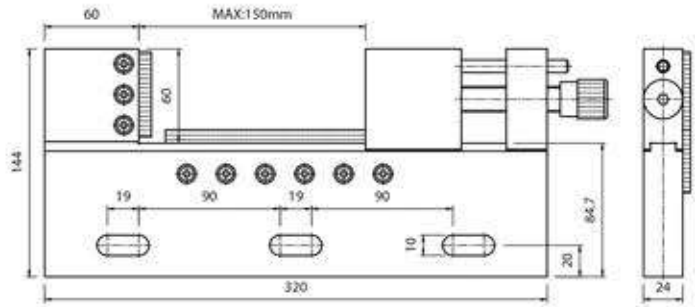
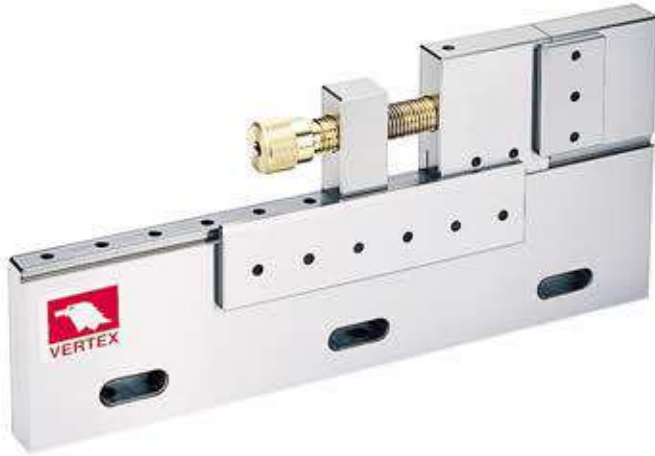
PARALLELISM	±0.002 mm / 100 mm	
SQUARENESS	±0.002 mm / 100 mm	
ORDER NO.	WEIGHT (kgs)	CODE NO.
VSTV-100W	4.88	2008-050

MAX.OPENING	100 mm
THICKNESS	24 mm
JAW DEEP	50 mm
N.W	4.88 kgs
MATERIAL	SUS420
HARDNESS	HRC 54°±2°



EDM Tool Marker Vise (STAINLESS) VERTEX®

گیره مخصوص وایر کات



- Do not over lock.
- ✘ Not 100% magnetic proof

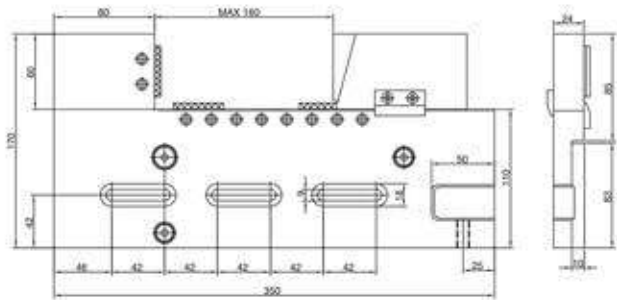
PARALLELISM	±0.002 mm / 100 mm	
SQUARENESS	±0.002 mm / 100 mm	
ORDER NO.	WEIGHT (kgs)	CODE NO.
VSTV-150W	6.75	2008-060

MAX.OPENING	150 mm
THICKNESS	24 mm
JAW DEEP	60 mm
N.W	6.75 kgs
MATERIAL	SUS420
HARDNESS	HRC 54°±2°

EDM Tool Maker Vise (STAINLESS)



- Over lock may break vise.
- ✘ Not 100% magnetic proof



- Parallelism: 0.003 / 100 mm, Squareness: 0.005 / 100 mm.
- Hardness: up to HRC 45°~55°.
- The vise can be adjusted up and down, left and right, forth and back to set parallelism.
- High water pressure resistance.



PARALLELISM	±0.003 mm / 100 mm	
SQUARENESS	±0.005 mm / 100 mm	
ORDER NO.	WEIGHT (kgs)	CODE NO.
VSTV-320W	8	2008-090

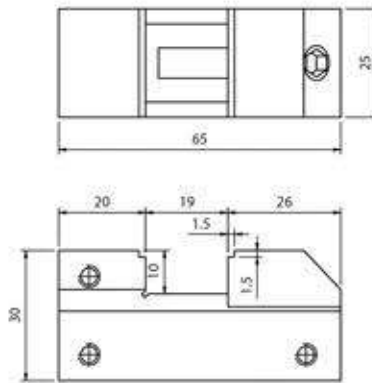
MAX.OPENING	160 mm
THICKNESS	24 mm
JAW DEEP	60 mm
N.W	8 kgs
MATERIAL	STAVAX
HARDNESS	HRC 52'±2'



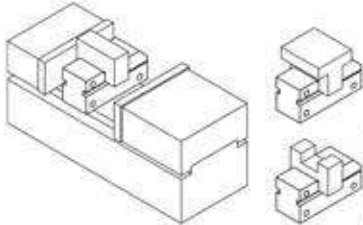
Tool Maker Vise (STAINLESS)



گیره سنگ خورده



Tool makers vise of mini type which can be put in a bigger vise to process the small and precise workpiece. Also it can be used in an E.D.M. machine and grinding machine.
Squareness and parallelism: within $\pm 0.003 / 100$ mm
※ Not 100% magnetic proof



ORDER NO.	MATERIAL	LENGHT	WIDTH	JAW OPENING	JAW HEIGHT	HARDEN	WEIGHT (kgs)	CODE NO.
VSTV-10V	SUS 440	65	25	19	10	HRC 56°-58°	0.3	2008-070

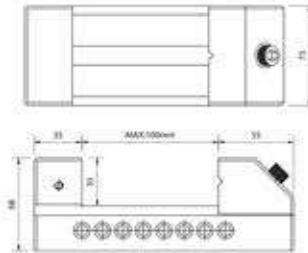


Tool Maker Vise (STAINLESS)

MINI TYPE FOR EDM

ORDER NO.	WEIGHT (kgs)	CODE NO.
VBST-30	4.5	2008-075

Material: SUS 440
Hardness: HRC 58°~60°
Squareness: Within 0.005 / 100 mm
※ Not 100% magnetic proof



Unit:mm

TOLERANCE	
A	± 0.004 mm
B	± 0.005 mm
C	± 0.005 mm
D	± 0.005 mm
E	± 0.005 mm
F	± 0.005 mm
G	± 0.005 mm



Tool Maker Vise (STAINLESS)

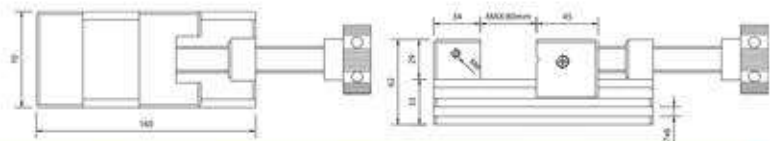
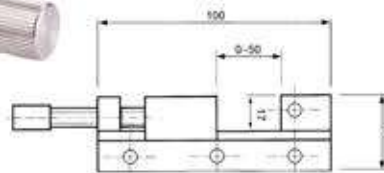
FOR EDM



VSTV-20



VSTV-25



- Material: SUS 440
- Hardness: HRC 56°
- Squareness: Within 0.005 / 100 mm
- It was made by tool steel of stainless steel system and was precision ground after hardened by heat treatment. So, it will not be rusted even permeation.
- The vise can clamp workpiece by moveable Jaw without lifting. It is easier and convenient for processing small workpieces.
- ※ Not 100% magnetic proof

ORDER NO.	MATERIAL	LENGHT	HEIGHT	JAW OPENIG	JAW WIDTH	JAW HEIGHT	HARDEN	WEIGHT (kgs)	CODE NO.
VSTV-20	SUS440	100	35	50	35	17	HRC56°	1.2	2008-079
VSTV-25		160	62	80	70	29		4.4	2008-080



وی بلوک سنگ خورده



VAP-1



VAP-2



VAP-3

90° V-way. High carbon steel hardened to 50°-54° HRC, precision ground to within 0.005mm accuracy in squareness. Angle tolerance ± 10 minutes. Sets any angle 0-60°, vernier reading 10 minutes. 2 set screws provided for firmlocking at fixed angle.

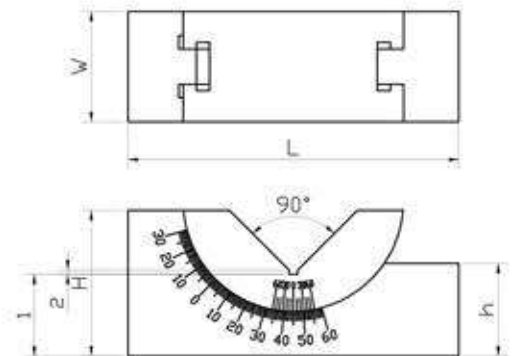
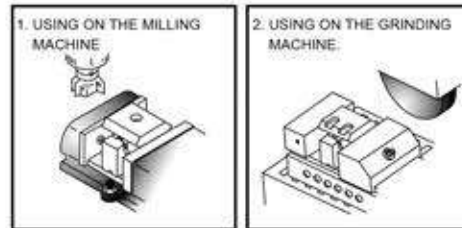
Material: SK2

Hardness: HRC 50°-54°

Squareness: ± 0.01 mm

Angular measures from 0°-60°

※ Not for LAB

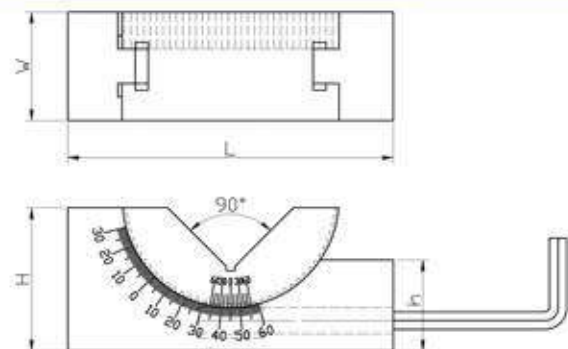


ORDER NO.	H	W	L	h	N.W. (KGS)	CODE NO.
VAP-1	48	45	102	28	1.4	2005-001
VAP-2	49	30	102	28	0.9	2005-002
VAP-3	32.5	25	75	21	0.5	2005-003

Unit:mm



Micro-Adjustable Angle Plate



Angle Can Be Adjusted From 0°~60° By Screw

※ Not for LAB

ORDER NO.	H	W	L	h	N.W. (KGS)	CODE NO.
VAPM-1	47	46	102	28	1.4	2005-010
VAPM-2	47	30	102	28	1	2005-011
VAPM-3	32	25	75	22	0.5	2005-012

Unit:mm



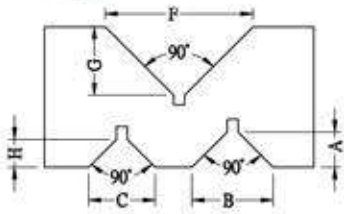
Precision V Block



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Material : Steel
 Hardness : HRC 52
 Accuracy : 0.02 mm / 100 mm
 ● For Production
 ✘ Not for LAB



Unit:mm

ORDER NO.	A	B	C	F	G	H	L X W X H	WEIGHT (KGS)	CODE NO.
V-5VA	14	35	40	63	29	19	124X35X61	2.8	2005-017
V-3VA-S	10	22	18	40	18	8	72.8X25X36.7	0.88	2005-018
V-4VA-S	15	32	18	50	24	8	100X36X60	2.9	2005-019
V-5VA-S	16	35	22	65	31.5	9.5	124.6X49.8X79.8	6.8	2005-020



Precision Angle Blocks

ORDER NO.AB-130 CODE NO.2006-001

WEIGHT:1kg



Furnished in 1° increments to 5 degrees and in 5° increments to 30 degrees. With the addition of the optional 1/4° and 1/2° blocks virtually and conceivable angle to these increments can be established.

- Simple, quick angle set-ups.
- Eliminates calculations, avoids errors.
- Lightly magnetized for better holding.
- Manufactured of steel, hardened, stabilized and ground.
- Sizes: 3" long x 1/4" thick. (75mm x 6mm)
- Accuracy: .0001" per inch.
- Oil-hardened steel, precision ground. 12pcs angle blocks (1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°)
- ✘ Not for LAB



Universal Angle Block Set



No sine plate, sine vise, angle chart or gauge block needed!

- A slope at any angle can be provided by installing a block or blocks on a machine vise up to 5%
- 8 pieces in a deluxe wooden box include: 10°, 15° & 30° vee blocks and 5 angle plates-1° to 5° for AB-164
- Heat treated 50° HRC & ground to 10 sec.
- 9pcs angle blocks (1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 30°) for AB-163
- ✘ Not for LAB

ORDER NO.	L X W X H	WEIGHT (KGS)	CODE NO.
AB-163	Vee blocks: 3" L x 1 3/16" W x 1 3/16" H Angle Plates: 2 3/4" L x 1 3/16" W x 5/64" H	2	2006-010
AB-164	Vee blocks: 4" L x 1 1/2" W x 1 1/2" H Angle Plates: 4" L x 1 1/2" W x 5/32" H	3.8	2006-011

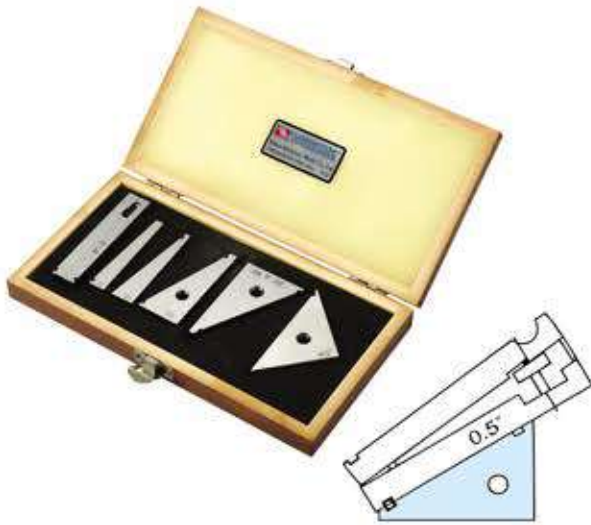


Micrometric Tangent Bar & Angle Gauge Block Set VERTEX®

ORDER NO.AB-166 CODE NO.2006-020

WEIGHT:1kg

گیج زاویه دار



Micrometric Tangent Bar & Angle Gauge Block Set

● Made of Hardened Steel, Precision Ground.

● Accuracy ± 0.001 " Per Inch.

● Interlocking Slots.

● Size of Angle Blocks: .35"x3"

A Complete set for Angular set-ups. No Other Gauges Required.

● Simplicity in application.

Angular set-ups with this are a zip. Just dial your angle direct in degrees and minutes. Add one or two angle block gauges for angles over 5° and Secure assembly by dropping 1/8" dowel or square key into slot provided.

● Complete with fitted case.

● Hardness : HRC 50°

※ Not for LAB



Solid Angle Plates

ORDER NO.AB-167 CODE NO.2006-030

WEIGHT:0.3kg



Solid Angle Plates

● Precision ground angles for convenient set-ups in tooling, production and inspection.

● Four holes on top of it for easy mounting.

● 1/4" Thick, packed in cardboard box.

● Set of 3"x3"x4-3/8", 45°x45°x90°x1pc
2"x3-15/32"x4", 30°x60°x90°x1pc

● Hardness : HRC 50°

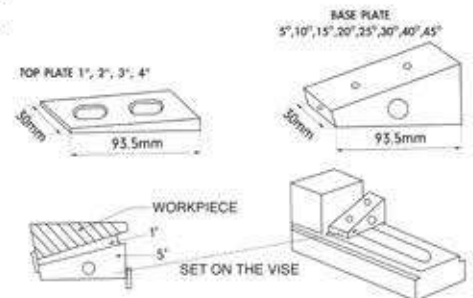
※ Not for LAB



Precision Angle Blocks

ORDER NO:AB-113(13PCS/SET) CODE NO:2006-040

WEIGHT:7.1kg



FEATURES

● Angle Tolerance:0.02Mm

● Can Be Assembled Top Plate With

Base Plate For 6°-9°, 16°-19°, 26°-29°, 36°-39°, 46°- 49°

● Harden Treatment Up To Hrc 55°

● Made By The Material Of Sk2

● Can Be Cooperate Two Set For Use.

※ Not for LAB

PLATE	ANGLE DEGREE
TOP PLATE	1°, 2°, 3°, 4°
BASE PLATE	5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45°



Hardened Steel Square



گونیا مویی



Hardness : HRC50°

Squares have accurate right angles both inside and outside. Made from a single piece of fully tool steel. Beams and blades are ground and accurately lapped for straightness and parallelism. Blades are beveled on both edges of each side. Beam is grooved at inner corner for clearance of burr and dirt. All squares are fully hardened . Packed in individual cartons. Accuracy 0.02mm.

※ Not for LAB

ORDER NO.	L x H x thick	NEW WEIGHT (KGS)	CODE NO.
SS-304	100X75X8MM	0.3	2006-050
SS-306	100X150X8MM	0.6	2006-051
SS-308	130X200X8MM	0.8	2006-052
SS-310	250X160X10MM	1.4	2006-053
SS-312	300X200X12MM	2.2	2006-054

Square

Alloysteel Grounded HRC50° ± 2

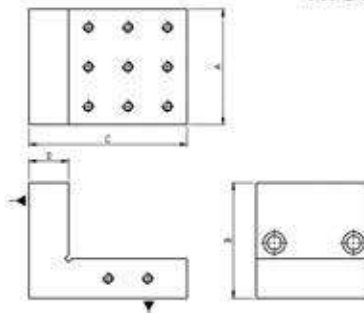


※ Not for LAB

ORDER NO.	LxHxthick	ACCURACY	WEIGHT(kg)	CODE NO.
FS-204	100x75x6mm	0.02mm	0.2	2006-055
FS-206	150x100x6mm		0.3	2006-056
FS-208	200x130x6mm		0.5	2006-057

Precision Steel Angle Plate

HIGH PRECISION TYPE



MATERIAL : YK30 ALLOY STEEL
ACCURACY : 0.005/100MM
HARDEN TREATMENT UP TO HRC 58°
※ Not for LAB

ORDER NO.	A	B	C	D	N.W (KGS)	CODE NO.
VRS-33	3"	3"	4"	1"	2.2	2006-060
VRS-44	75	75	100	25	3.7	2006-061
	100	100	100	25		
VRS-46	4"	4"	6"	1"	4.5	2006-062
	100	100	150	25		
VRS-85	8"	120	8"	40	14.3	2006-063
	200		200			
VRS-1206	12"	150	12"	50	32.3	2006-064
	300		300			



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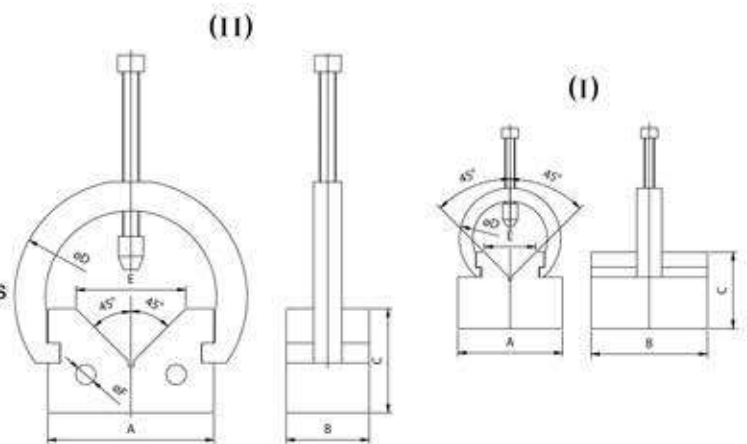


PAIRS
VBC-196
VBC-197



PAIRS
VBC-195

- Two V blocks and two clamps are include in the set.
 - Made of hardened tool steel machined & ground in pairs close tolerances.
 - A precision set for toolmakers & machinists.
- ✘ Not for LAB



ORDER NO.		A	B	C	D	E	F	N.W. (kgs)	CODE.NO.
VBC-195	I	63	70	46	61	31		3.1	2007-001
VBC-196	II	100	50	63	140	66	12	5.9	2007-002
VBC-197	III	150	64	100	193	110	12	14.7	2007-003



V-Block With Clamp

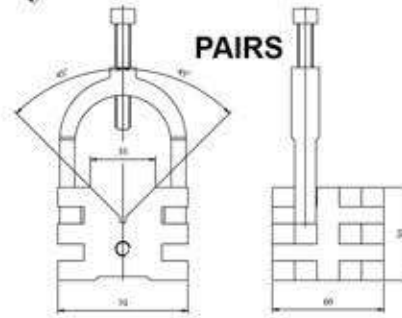


Alloysteel Grounded HRC50*

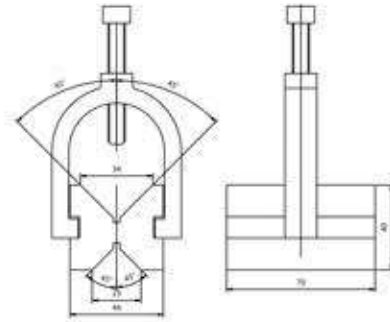
وی بلوک کلمپ دار



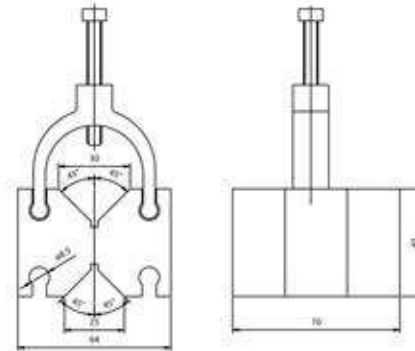
PAIRS
VBC-003



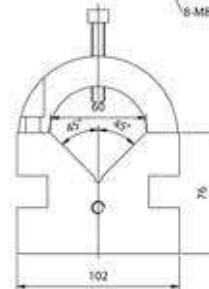
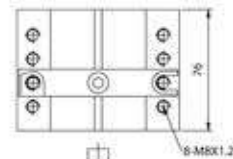
PAIRS
VBC-243



PAIRS
VBC-006



SINGLE
VBC-009



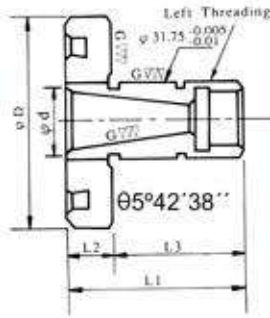
ORDER NO.	W	H	L	W.OF SMALL VEE	W.OF LARGER VEE	PACKING	G.W. (kgs)	CODE NO.
VBC-003	2.36 60mm	1.86 50mm	2.75 70mm	NON	V35 X V5.5	110x80x110mm	2.4	2007-010
VBC-243	2 3/4 70mm	1 3/4 45mm	1 5/8 42mm	NON	V32 X V3.5	75x80x100mm	1.9	2007-020
VBC-006	2 1/2 64mm	1 3/4 45mm	2 3/4 70mm	V25 X V3.5	V30 X V3.5	110x80x110mm	2.6	2007-030
VBC-009	4 102mm	3 76mm	3 76mm	NON	V59 X V4.5	70x50x110mm	3.9	2007-040



Grinding Wheel Flange



بالانس سنگ



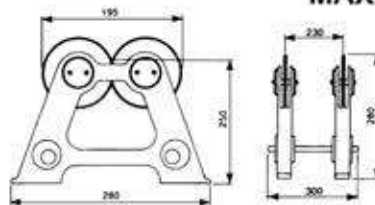
Unit: mm

ORDER NO.	ϕD	ϕd	L1	L2	L3	Brand Mark	WEIGHT (kg)	CODE NO.
FKT-250	78	$25.7+0_{-0.05}$	40	13	27	KENT PROTH	0.8	2013-010
FTA-350	75	$25.4+0_{-0.05}$	40	13	34	TA TUNG	1	2013-011



Wheel Balancing Stand

ORDER NO. WBS-300 CODE NO. 2014-001
 WEIGHT: 12.5 kgs



MAX. WHEEL DIAMETER ALLOWED $\phi 500$ mm

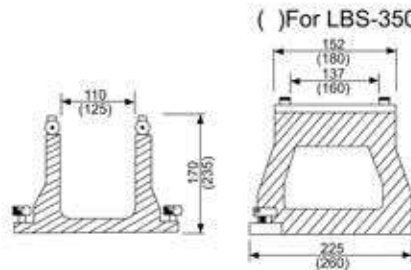
The stand is specifically designed to improve accuracy and longer life for grinding. It is finished with cast iron and fine through hardened to HRC 55°.



Level Balancing Stand

ORDER NO. LBS-100
 CODE NO. 2014-010
 WEIGHT: 8.8 kgs

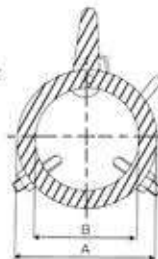
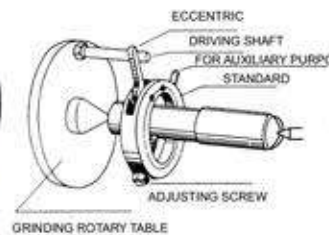
ORDER NO. LBS-350
 CODE NO. 2014-011
 WEIGHT: 15.1 kgs



This machine encloses minute leveling instrument. The adjustment of horizontal enable rapidly and accurately. MAX. WHEEL DIAMETER ALLOWED $\phi 200$ mm, $\phi 350$ mm



Driving Carrier



ORDER NO	CAPACITY	A	B	WEIGHT (kg)	CODE NO.
VDC-13	$\phi 6$ ~ $\phi 14$	36	18	0.1	2014-020
VDC-22	$\phi 13$ ~ $\phi 24$	48	28	0.2	2014-021
VDC-30	$\phi 20$ ~ $\phi 33$	58	38	0.2	2014-022
VDC-40	$\phi 31$ ~ $\phi 42$	68	48	0.2	2014-023
VDC-50	$\phi 36$ ~ $\phi 50$	78	58	0.3	2014-024
VDC-60	$\phi 40$ ~ $\phi 62$	89	68	0.3	2014-025
VDC-80	$\phi 60$ ~ $\phi 80$	119	88	0.6	2014-026
VDC-100	$\phi 80$ ~ $\phi 100$	140	109	0.7	2014-027

FEATURES:

- SUITABLE FOR GRINDING OF SHAFTS.
- EASY ATTACH AND DETACH BY ONE HAND.



Sine Plates



میز سینوسی

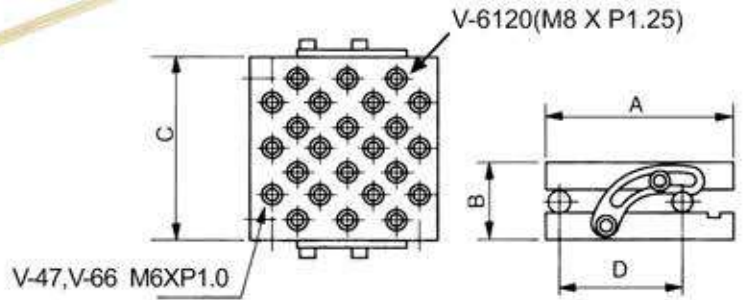
Design by the principles of SINE, angle grinding can be done well. High precision of parallelism within 0.002 mm and squareness within 0.005 mm. Setup and dressing time reduced to a bare minimum due to simplicity.(ANGLE 0° - 46°)

- Made of quality steel, hardened to HRC 55° - 56°
- Two hardened and ground side rails and one.
- Locking strap included.



GAUGE BLOCK
page B76

EXAMPLE



ORDER NO.	A	B	C	D	N.W (kgs)	CODE NO.
V-47	98	66	177	75	8.4	2015-001
V-66	150	62	150	100	9.4	2015-002
V-6120	147	65	300	100	19.8	2015-003



Compound Sine Plate

Made of quality steel, hardened to HRC 55°-62°, angles 0°-60° capacity.

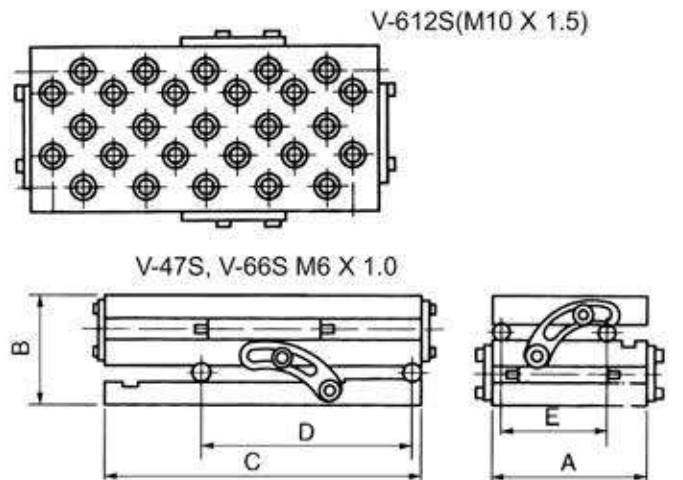
Minute angle step 0.2 built into the front gauge block roll eliminates steps in base plate.

Two end rails and one locking strap included

Tapped holes on the top.

Center distance of tools with 0.005 mm(0.0001")

V-612S within 0.008 mm(0.0003")



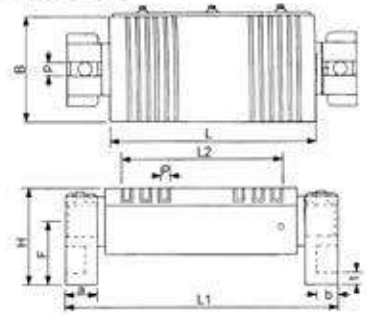
ORDER NO.	A	B	C	D	E	N.W (kgs)	CODE NO.
V-47S	100	100	175	125	75	9.9	2015-010
V-66S	150	100	150	100	100	12.4	2015-011
V-612S	150	100	300	100	100	23.7	2015-012



Rotary Permanent Magnetic Plate VERTEX®

650 GAUSS

مگنت سینوسی



- Can grind the (0°-90°) angle work-piece, could be easily set by graduated collar.

Unit:mm

ORDER NO.	SIZE	OPERATION PLANE			POLE PITCH P	ROTARY SEAT PLANE					HEIGHT H	WEIGHT KGS	CODE NO.	
		B	L	L2		a	b	t	F	L1				d
VLU-510B	125x250	125	250	191	8(2+6)	50	35	17	96	380	16	150	33.2	2015-080
VLU-612B	150x300	150	300	245			430	44.5	2015-081					
VLU-618B	150x450	150	450	414			565	43	2015-082					

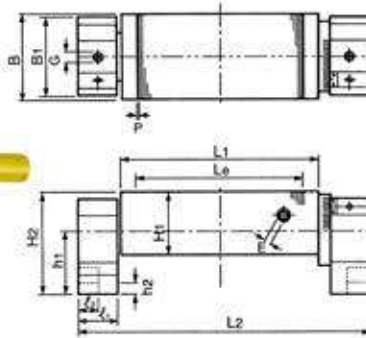
Rotary Fine Pole Permanent Magnetic Plate

APPLICATION 550 GAUSS

Suitable for (0°-90°) angle grinding on grinder.

FEATURES

- Rotary shaft with graduation makes it easy to grind at any angle.
- Integrated molding of machine body and rotary spindle.
- Unchanged surface accuracy during ON/OFF change over.
- Design for distance between both magnets enables machining of various unconfirm in thickness & sizes.



Unit:mm

ORDER NO.	Nominal Dimension	Chuck Dimension				POLE PITCH P	Length L2	Rotary Base						HEIGHT H2	WEIGHT (kgs)	CODE NO.
		B	L1	L2	H1			B	r1	r2	G	h1	h2			
VLU-407BF	100X175	100	175	125	78	2.5 (1+1.5)	293	100	50	25	16	103	50	145	19	2015-090
VLU-510BF	125X250	125	250	200			368								27	2015-091
VLU-612BF	150X300	150	300	246			418								31	2015-092
VLU-614BF	150X350	150	350	296			468								37	2015-093
VLU-618BF	150X450	150	450	396			568								43	2015-094

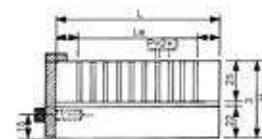
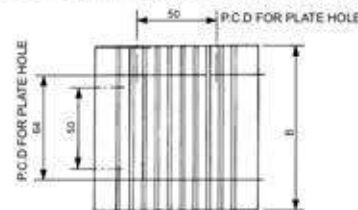
Hi-Power Mini Type Permanent Magnetic Plate

2200 Gauss

FOR CARBIDE MATERIAL ONLY
CAN NOT FOR ALL STEEL

APPLICATION

This chuck is designed for objects with weaker magnetic force. This chuck can be placed in the plate of large permanent magnetic chuck or electro-magnetic chuck for attraction or attachment.



NO ON/OFF SWITCH

Unit:mm

ORDER NO.	DIMENSION	CHUCKING SIZE			POLE PITCH P	HEIGHT H	TESTING BLOCK	WEIGHT (kgs)	CODE NO.
		B	L	Le					
VG-404H	100X100	100	100	72	5(2+3)	50	50x25t TEST BLOCK (TUNGSTEN) 210N(21kgf)	4	2015-100
VG-407H	100X180	100	180	152	5(2+3)	50		7	2015-101
VG-410H	100X250	100	250	222	5(2+3)	50		10	2015-102



Angular Permanent Magnetic Plate VERTEX®

650 GAUSS

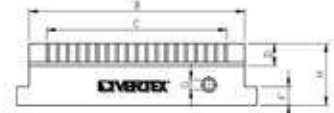
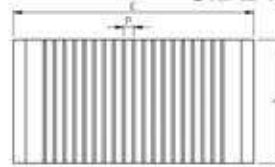
مگنت مکانیکی

SIDE MAGNETIC FORCE 18KGF

PLATE CENTER 26 KGF



TESTING BLOCK
□25X25X20mm
BLOCK (TUNGSTEN)



(2+6) Suit for work piece thickness $\geq 3\text{mm}$ length $\geq 25\text{mm}$
Mag. force : 650 GS

- Permanent magnetic for ce.
- Well operation, specially treated, nondeformation and high precision.

Unit:mm

Good for workpiece bigger in lenght & width

ORDER NO.	SIZE	CHUCKING SIZE				POLE PITCH	CHUCK MOUNTING FACE			SWITCH TYPE	HEIGHT H	WEIGHT KGS	CODE NO.
		A	B	C	D		P	G	E				
VG-407	100x175	100	175	146	20	8(2+6)	8	15	LIVING HEXAGON SOCKET SCREW KEYS	50	7.2	2015-110	
VG-510	125x250	125	250	206							187	2015-111	
VG-612	150x300	150	300	256							262	2015-112	
VG-614	150x350		350	306							318	2015-113	
VG-618	150x450	450	406	468							2015-114		
VG-816	200x400	200	400	365							418	2015-115	
VG-818	200x450		450	406							468	2015-116	
VG-820	200x500		500	456							518	2015-117	
VG-824	200x600		600	556							620	2015-118	
VG-1020	250x500	250	500	456							518	2015-119	
VG-606	150x150	150	150	116							162	2015-121	
VG-1224	300x600	300	600	550							18	620	48



Middle Pitch Permanent Magnetic Chuck

600 GAUSS

SIDE MAGNETIC FORCE 19KGF

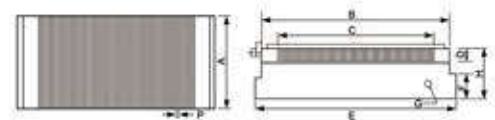
PLATE CENTER 28 KGF



TESTING BLOCK
□25X25X20mm
BLOCK (TUNGSTEN)

(2+6) Suit for work piece thickness $\geq 3\text{mm}$ length $\geq 25\text{mm}$
Mag. force : 600 GS

Good for workpiece bigger in lenght & width

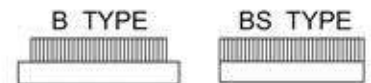


APPLICATION

New type of think chuck, in 50mm thickness, for grinding and electrodischarging works, for thin plate or small works, in wide range of applications, it features a wide effective magnetic area on the chucking face.

FEATURES

- Thin and light to meet versatile applications.
- Fine-pitched magnetic poles, on this model, make it ideally suitable for small and thin works.
- Hexagonal wrench key is used for the magnetic ON/OFF change over handle it is inserted through the side easily removed and operates quite lightly.
- The chuck surface has a wider effective magnetic area than other chucks of similar type.



Unit:mm

ORDER NO.	DIMENSION	CHUCKING SIZE				POLE PITCH	CHUCK MOUNTING FACE			HEIGHT	HEXAGONAL HANDLE HOLE	WEIGHT KGS	CODE NO.
		A	B	C	D		P	A	E				
VG-1018B	100X175	100	175	146	18	5(1+4)	100	195	15	50	8	7.7	2015-160
VG-1515B	150X150	150	150	116	18	5(1+4)	150	175	15	50	8	10	2015-161
VG-1530B	150X300	150	300	256	18	5(1+4)	150	320	15	50	8	18.8	2015-162
VG-1535B	150X350	150	350	306	18	5(1+4)	150	370	15	50	8	21.6	2015-163
VG-1540B	150X400	150	400	356	18	5(1+4)	150	420	15	50	8	25	2015-164A
VG-1545B	150X450	150	450	406	18	5(1+4)	150	470	15	50	8	27.4	2015-164
VG-2040B	200X400	200	400	356	18	5(1+4)	200	420	15	50	8	32.3	2015-165
VG-2045B	200X450	200	450	406	18	5(1+4)	200	470	15	50	8	36.3	2015-166
VG-1018BS	100X175	100	175	146	18	5(1+4)	100	175	15	50	8	8	2015-167
VG-1515BS	150X150	150	150	121	18	5(1+4)	150	150	15	50	8	9	2015-168
VG-1530BS	150X300	150	300	256	18	5(1+4)	150	300	15	50	8	20	2015-169



Fine Pole Magnetic Plate



مگنت گرد



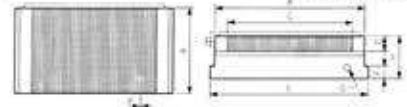
SIDE MAGNETIC FORCE 21KGF
PLATE CENTER 30 KGF
550 GAUSS

A TYPE



(1+1.5)
Suit for work piece thickness ≤ 2mm, length ≥ 25mm
Mag. force : 550 GS.

S TYPE



A TYPE

S TYPE

Good for workpiece smaller in length & width

TESTING BLOCK
□ 25X25X20mm
BLOCK (TUNGSTEN)

FEATURES

Thin and light weight to meet versatile applications.

Fine-pitched magnetic poles on this micropitch model. Make it ideally suitable for small and thin works.

Hexagonal wrench key is used for the magnetic ON/OFF change over handle. It is inserted through the side, easily removed and operates lightly.

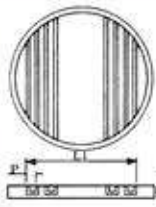
The chuck surface has a wider effective magnetic area than other chuck of similar type.

Unit:mm

ORDER NO.	SIZE	CHUCKING SIZE				POLE PITCH P	CHUCK MOUNTING FACE			HEIGHT H	WEIGHT KGS	CODE NO.	
		A	B	C	D		A	E	F				
VRTW-1018A	100X175	100	175	146	18	2.5 (1+1.5)	100	195	15	50	7.7	2015-130	
VRTW-1515A	150X150	150	150	116			150	170	15		9.8	2015-131	
VRTW-1530A	150X300	150	300	256			150	320	15		18.7	2015-132	
VRTW-1535A	150X350	150	350	306			150	370	15		21.4	2015-133	
VRTW-1540A	150X400	150	400	356			150	420	15		23.7	2015-134	
VRTW-1545A	150X450	150	450	406			150	470	15		27.4	2015-135	
VRTW-2040A	200X400	200	400	356			200	420	15		32.5	2015-137	
VRTW-2045A	200X450	200	450	406			200	470	15		36.4	2015-138	
VRTW-1224A	300X600	306	600	556			300	620	15		73	2015-138A	
VRTW-1018S	100X175	100	175	146			100	175	-		8	2015-139	
VRTW-1515S	150X150	150	150	121			150	150	-		9	2015-140	
VRTW-1530S	150X300	150	300	256			150	300	-		20	2015-141	
VRTW-1325S	125X250	125	250	206			20	125	250		15	13.1	2015-142



Round Type Magnetic Plate



ORDER NO. VGD TYPE

Magnetic field intensity:

Higher than 450 gauss

APPLICATION

Suitable for light cutting and grinding on lathe, grinder, EDM and the Rotary Table.

Unit:mm

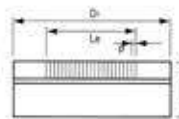
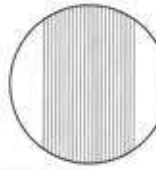
ORDER NO.	FACE PLATE			BOTTOM PLATE		POLE PITCH P	HEIGHT H	WEIGHT KGS	CODE NO.
	B0	t1	L1	t2	L0				
VGD-06	150	21	101	18	200	9 (2+7)	78	9.8	2015-150
VGD-08	200		137		200			12.8	2015-151
VGD-10	250		191		250			20.2	2015-152
VGD-12	300		227		305			30.4	2015-153



Fine Pole Round Type Magnetic Plate

PLATE SIDE 21KGF

PLATE CENTER 30 KGF



APPLICATION

New type of thin chuck, in 50mm thickness, for grinding and electro-discharging works, for thin plate or small works, in wide range of applications, it features a wide effective magnetic area on the face plate (chucking face).

550 GAUSS

Unit:mm

ORDER NO.	DIAMETER	TOP PLATE		POLE PITCH P	HEIGHT H	WEIGHT KGS	CODE NO.
		D1	Le				
VGDW-6	160mm	160	115	2.5 (1+1.5)	50	8	2015-154
VGDW-8	200mm	200	155	2.5 (1+1.5)	50	13	2015-155
VGDW-10	250mm	250	205	2.5 (1+1.5)	50	21	2015-156
VGDW-12	300mm	300	255	2.5 (1+1.5)	50	33.5	2015-157

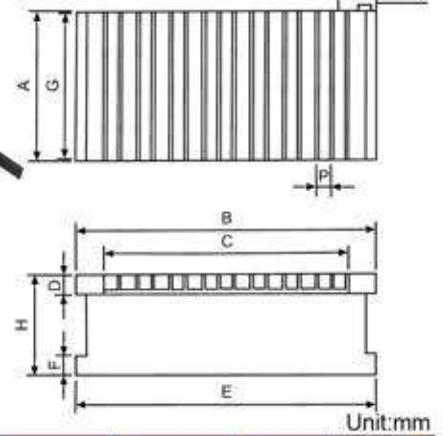


Standard Pole Electro Magnetic Chuck



مگنت برقی

450 GAUSS



Unit:mm

APPLICATION

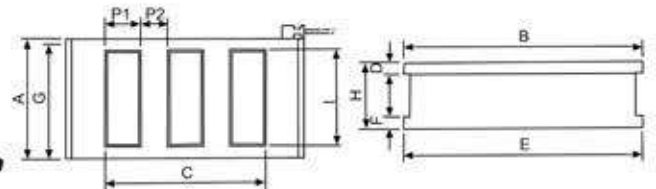
Most suitable for grinding operation, of standard electromagnetic chuck.

ORDER NO.	DIMENSION	CHUCKING SIZE					POLE PITCH		CHUCK MOUNTING FACE				VOLTAGE	CURRENT	WEIGHT (kg)	CODE NO.
		A	B	C	D	P	G	E	F	H						
VEM-1530A	150x300	150	300	228	20	15(3+12)	144	316	20	70	DC-90V	0.15A	21	2015-221		
VEM-1535A	150x350	150	350	288	20	15(3+12)	144	366	20	70	DC-90V	0.18A	25	2015-222		
VEM-1545A	150x450	150	450	378	20	15(3+12)	144	466	20	70	DC-90V	0.24A	32	2015-223		
VEM-2040A	200x400	200	400	348	20	15(3+12)	194	416	20	70	DC-90V	0.47A	38	2015-224		
VEM-2045A	200x450	200	450	378	20	15(3+12)	194	466	20	70	DC-90V	0.35A	43	2015-225		
VEM-2550A	250x500	250	500	438	20	15(3+12)	240	500	20	70	DC-90V	0.73A	67	2015-226		
VEM-3060A	300x600	300	600	529	20	15(3+12)	290	600	20	70	DC-90V	0.97A	97	2015-227		
VEM-4080A	400x800	400	800	725	25	19(3+16)	390	800	20	80	DC-90V	1.56A	182	2015-228		
VEM-40100A	400x1000	400	1000	936	25	19(3+16)	390	1000	20	80	DC-90V	1.60A	228	2015-229		
VEM-50100A	500x1000	500	1000	936	25	19(3+16)	490	1000	20	80	DC-90V	1.72A	285	2015-230		



Super-Powerful Electric Magnetic Chuck

MILLING M / C TYPE
1200 GAUSS



APPLICATION

Most efficient for heavy cutting with milling machine, shaper, planer and planomiller. It displays the power for the thick work and the high speed cutting operation.

Unit:mm

ORDER NO.	DIMENSION	CHUCKING SIZE					POLE PITCH		CHUCK MOUNTING FACE				VOLTAGE	CURRENT	WEIGHT N.W. (kg)	CODE NO.
		A	B	C	D	I	P1	P2	G	E	F	H				
VEM-2040Z	200x400	200	400	332	20	160	40	35	194	400	20	110	DC-90V	0.71	54	2015-251
VEM-2050Z	200x500	200	500	422	20	160	48	34	194	500	20	110	DC-90V	0.91	75	2015-252
VEM-2060Z	200x600	200	600	520	20	160	48	30	194	600	20	110	DC-90V	1.00	80	2015-253
VEM-2550Z	250x500	250	500	422	20	200	42	34	240	500	20	120	DC-90V	1.16	90	2015-254
VEM-3060Z	300x600	300	600	520	20	240	48	30	290	600	20	120	DC-90V	1.63	130	2015-255
VEM-4080Z	400x800	400	800	718	25	340	48	30	390	800	20	120	DC-90V	2.53	230	2015-256
VEM-40100Z	400x1000	400	1000	917	25	340	45	35	390	1000	20	120	DC-90V	2.96	288	2015-257
VEM-50100Z	500x1000	500	1000	917	25	430	45	35	490	1000	20	120	DC-90V	3.96	360	2015-258
VEM-60100Z	600x1000	600	1000	917	25	530	45	35	590	1000	20	120	DC-90V	5.30	432	2015-259



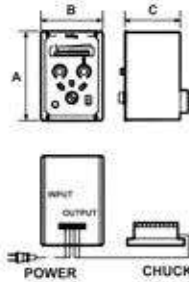
MAGNETIC CHUCK CURRENT ADJUSTER

(For Rectify & Demagnetize)

ترانس مگنت

ORDER NO. VCC-705(5A)

For VGI-618~2048 / VLZ-510~612 / VIW-612~1224 / VEM-1530A~50100A

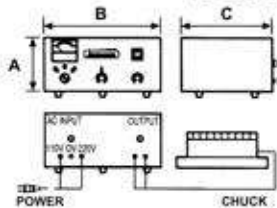


FEATURES

- Suitable for standard type of electric magnetic chucks.
- With current capacity of 5A; demagnetizing time is 6-15 seconds.
- Precisely adjust the magnetic force of electric magnetic chucks and indicate LED voltage.
- Suitable for any kind of electric magnetic chucks.

ORDER NO. VCC-805A (10A) FOR VGI-2060 / VEA-816~1640 / VEM-2040Z~40100Z

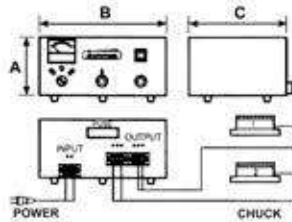
VCC-815 (15A) FOR VEA-2040~VEA2460 / VLZ-2060 / VEM-50100A / VEM-50100Z



FEATURES

- Suitable for standard type of electric magnetic chucks.
- With current capacity of 10A and 15A; demagnetizing time is 6-15 seconds.
- Precisely adjust the magnetic force of electric magnetic chucks and indicate LED voltage and current.
- Suitable for any kind of electric magnetic chucks.

ORDER NO. VCC-820 (20A) FOR VEA-2460~ / VEM-60100Z



FEATURES

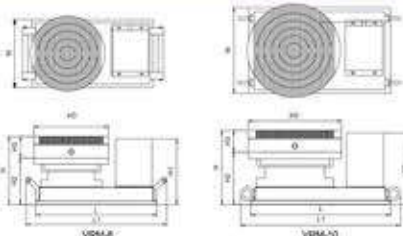
- Suitable for super powerful type of big electric magnetic chucks and could control 2 chucks at the same time.
- With current capacity of 20A; demagnetizing time is 8-15 seconds.
- Precisely adjust the magnetic force of electric magnetic chucks and indicate LED voltage and current.
- Built-in fan for radiating heat.
- Suitable for any kind of electric magnetic chucks.

Unit:mm

ORDER NO.	INPUT VOLTAGE (SINGLE PHASE)	OUTPUT		DIMENSION			NET WEIGHT (KGS)	CODE NO.
		VOLTAGE	CURRENT	A	B	C		
VCC-705	AC 110V/220V	DC 0-100V	5A	200	137	122	3.5	2015-380
VCC-805A	AC 110/220/380/415/440V	DC 0-100V	10A	150	330	260	18	2015-381
VCC-815	AC 220/380/415/440V	DC 0-120V	15A	150	330	260	20	2015-382
VCC-820	AC 220/380/415/440V	DC 0-120V	20A	180	385	295	32	2015-383

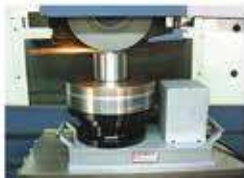


Variable Speed Rotary Magnetic Chuck



FEATURES

- This rotary magnetic chuck with the motor. The rotary speed can adjustable.
- It's easy and simple for set up on the surface grinding machine. It's for rotary grinding.
- The precision is within 0.002 mm. High precision, High efficient.
- It provides well prevention for dust, coolant, and lubricants. Spindle end be applied accuracy bearing, can be assured to keep very steady under load grinding.



ORDER NO.	L	L1	W	H	H1	H2	H3	ØD	VOLT	G.W.	CODE NO.
VRM-8	325	370	176	180	177	122	58	200	220V	60kg	8001-047
VRM-10	376	422	218	190	183	132	58	250	220V	80kg	8001-048



وی بلوک مگنتی

VCP-1



VCP-3



VCP-2



VCP-1 Chuck Parallels
100x50x25 mm
3¹⁵/₁₆"x2"x1" Matched pair.

VCP-2 Chuck Blocks
49.5x58x45.5 mm
1³¹/₃₂"x2⁵/₁₆"x1¹³/₁₆" Matched pair.

VCP-3 Chuck Block
109x58x46 mm
4³/₈"x2³/₈"x1⁷/₈"single

VCP-4 Chuck Block
Each one of VCP-1 & VCP-2

- The V-Blocks and Parallels transfer the magnetism from permanent magnetic chucks. The steel used in all V-Blocks and Parallels is selected for the highest magnetic transfer and is cast integrally with aluminum.

ORDER NO.	WEIGHT KGS	CODE NO.
VCP-1	1.3	2015-401
VCP-2	1.2	2015-402
VCP-3	1.4	2015-403
VCP-4	2.5	2015-404



Magnetic Transisting Block Set

ORDER NO.VCP-6 CODE NO.2015-410

WEIGHT:4.2 kgs



Non-magnetic laminated plates and blocks are extras to increase the versatility of chucks. These plates and blocks offer excellent guidance of the magnetic force, and can be used in combination with chucks as 'extensions' for the clamping of workpieces of complex shapes.

BOXED SET

Comprises a selected set of 4 pairs of blocks

NO. of Blocks	STYLE	LxHxWxPCS	USED MODEL
1Pair		60x35x15x2	VCP-0
2Pair		100x50x25x2	VCP-1
1Pair		49.5x58x45.5	VCP-2



Magnetic Adjustable Link

ORDER NO.VCP-5 CODE NO.2015-420

WEIGHT:0.8 kg

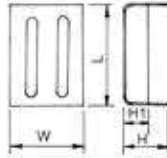


- Each block 2"x1"x1".Length overall: 4¹/₈". width over all 2¹/₈".
- For Holding and welding.
- Magnetic blocks can be set at any angle by adjustment and locking of the wing nut. When used in multiples, a number of sheets can be held in complicated arrangement.
- Compact in size for holding work in confined spaces.



Magnetic Steel Sheet Separator

براده جمع کن



APPLICATION

- Suitable for separating a pile of thin iron plates or for chips separation.

FEATURES

- By the principle of mutual repulsion between same magnetic poles, this item enable easy separation of thin iron plates.
- Also useful for chips separation on the small conveyer belt.

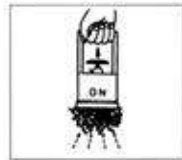


Unit:mm

ORDER NO.	DIMENSION				NET WEIGHT KGS	CODE NO.
	L	W	H	H1		
VCP-10	130	130	65	35	2.6	2015-430
VCP-11	210	155	65	35	4.2	2015-431



Magnetic Chip Collector



Magnet turned ON attracts Powerfully.



Magnet turned OFF Releases by Piling Up Lever.

APPLICATION

- You can use it in a wide range of fields for machining, casting food chemical processing, etc.
- Most suitable for collecting iron pieces scattered on the floor or mixed in the medium, for putting in order, and holding the work at the buffing and other types of operations. This is conveniently applied to uses in selecting and collecting iron powder and granule materials; even for house-hold and educational uses.

FEATURES

- Magnetic force is turned ON/OFF just by operating the level lightly with a hand.
- Powerful magnet ensure very strong adsorptive force with wide attractive face.

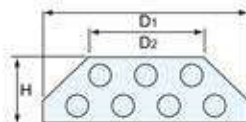
ORDER NO.	Dimension	Holding Mass	Weight kgs	CODE NO.
VCP-15	ø112x178H	0.9	1.9	2015-440



Magnetic Separating Bar Unit



VMS-9B



Magnetic Separating Bar Unit made with Powerful magnet. it is essential to Increase operation efficiency in removing on substances from powder and grain Materials, as in the industries of chemical, various and plastic...etc.

A wide range of applications and easy to mount.

VMS-7B



BAR TUBE

TEMPERATURE LIMIT 60°C

Unit:mm

ORDER NO.	D1	D2	H	BAR TUBE	WEIGHT KGS	CODE NO.
VMS-7B	175	112	75	ø22.2x180	2.4	2015-450
VMS-9B	218	156	75	ø22.2x230	3.8	2015-451



Permanent-Electro Magnetic Chuck VERTEX®

Suitable for Milling

Max. Power 1000 kva / 100 cm²

مگنت برقی

NEW



5 SIDES MACHINING

CONTROLLER TYPE:

- ※ C1 for VPE-2540, 2560, 2580, 3030, 3040, 3060, 4040
44x40x33cm WEIGHT Kgs: 11Kgs
- ※ C2 for VPE-25100, 3080, 3090, 4060, 4080, 5060
44x40x33cm WEIGHT Kgs: 11Kgs
- ※ C4 for VPE-40100, 5080, 50100, 60100
52x40x40cm WEIGHT Kgs: 12Kgs



SETS CONTROLLER INCLUDED

optional:



VSB- 49x48x30 mm
SPRING BLOCK



50x50x32.5 mm
VTJ-
MAGNETIC TRANSISTING
SOFT JAW

ORDER NO.	ACCESSORIES	SIZE	WEIGHT KGS	CODE NO.
VSB-	SPRING BLOCK	49x48x30 mm	0.5	2033-450
VTJ-	MAGNETIC TRANSISTING SOFT JAW	50x50x32.5 mm	0.59	2033-451

FEATURES

- Ensure higher magnetic and mechanical performances, as well as absolute reliability.
- Owing to no power supply to keep the magnetic chuck ON, it could be used for long time and never get temperature to affect the accuracy of workpiece. "COLD" device, not subject to internal wear or deformation resulting from moving internal parts.
- Easy and convenient to clamp a workpiece, shortens clamping time.
- Most suitable for heavy duty machining on medium, large or even rough components.
- Easily integrated with Pallet Change of Horizontal Machining Center and FMS System the Magnetic Chucks will be as geometrically stable as the table itself.
- For the most powerful machine tools available. Systems are switched ON or OFF with simple electrical pulse. A variable output from 20%-100% is controlled from the operator push button unit.
- Entirely independent of external power supply when holding work pieces. There is no risk, when power fails.
- 2 seconds control for power ON & OFF. No electric Power Supply required to keep the magnetic chuck ON. Safety in case of power failure.
- 10mm MIN. Thin workpiece & MIN. 4 block magnetic pole for workpiece.
- Every work piece need 3 transisting soft jaw to stabilize holding power.
- Spring block has 2.5mm displacement up & down.

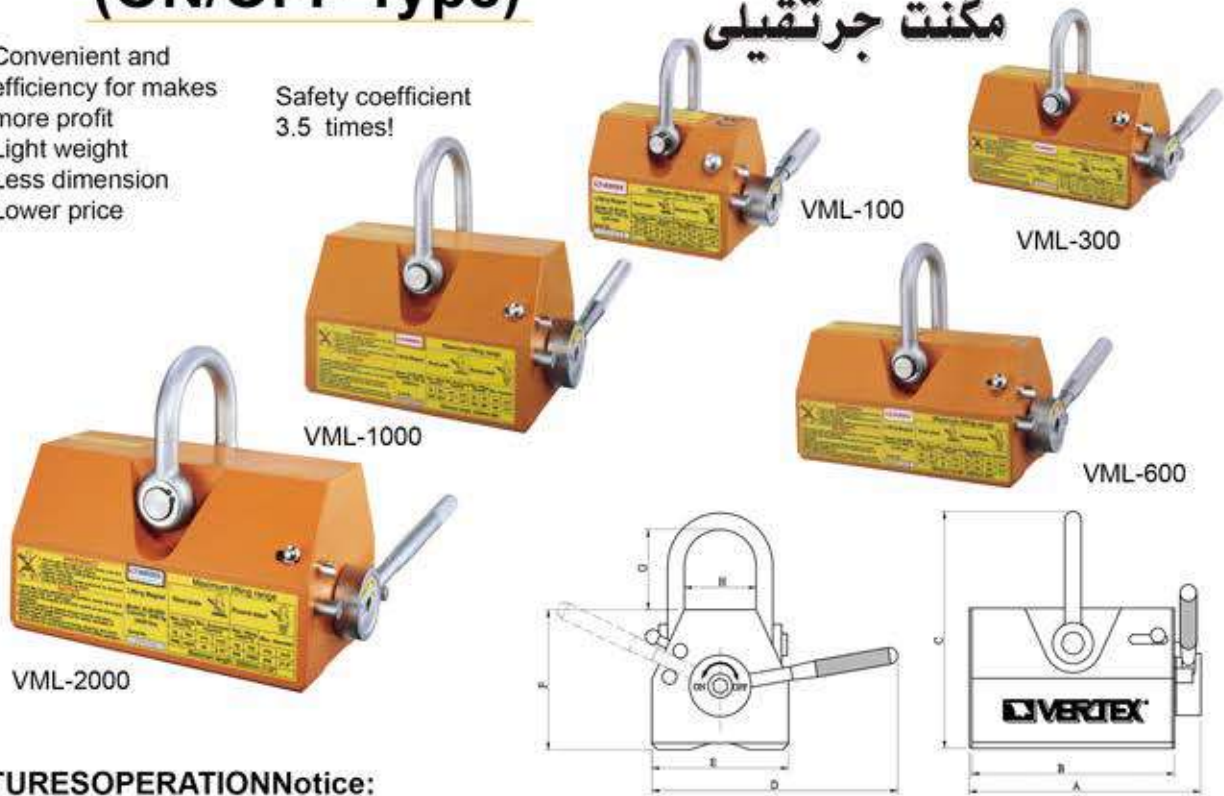


Permanent Magnetic Lifter **VERTEX** (ON/OFF Type)

مگنت جرثقیلی

Convenient and efficiency for makes more profit
Light weight
Less dimension
Lower price

Safety coefficient 3.5 times!



FEATURES OPERATION Notice:

- Each size suit for plate type & round type steel using.
- All new models with "light weight" less dimension" and "lower price".
- Made by permanent magnet, require no power supply, thus eliminating hazards due to failure wiring system as electric type.
- It features powerful magnetic force, with 3.5 times safety coefficient makes more safety in use.

OPERATION

With ON/OFF switch, it is very easy and convenient to operate.

See as the example pictures as below

Notice:

Never moves the handle to "ON" side, except on an iron object of holding.

- Never operate over human's head.

ON



OFF



DIMENSIONS

ORDER NO.	Capacity	A	B	C	D	E	F	G	H	Weight	SAFETY COEFFICIENT	CODE NO.
	kg lbs	mm inch	mm inch	mm inch	mm inch	mm inch	mm inch	mm inch	mm inch	kg lbs		
VML-100	100 220	107 4.2	84 3.3	120 4.7	125 4.9	60 2.4	71 2.8	41 1.6	30 1.2	2.7 5.5	x3.5 times	2018-060
VML-300	300 660	180 7.1	155 6.1	156 6.1	185 7.3	90 3.6	93 3.7	51 2.0	41 1.6	9.1 18.9		2018-061
VML-600	600 1320	255 10	224 8.8	212 8.3	260 10.2	115 4.5	120 4.7	77 3.0	52 2.0	21.5 46		2018-062
VML-1000	1000 2200	280 11	245 9.6	286 11.3	371 14.6	165 6.5	169 6.7	97 3.8	87 3.4	53.4 101		2018-063
VML-2000	2000 4400	422 16.6	380 15	348 13.7	512 20.2	216 8.5	215 8.5	105 4.1	121 4.8	127.8 259		2018-064

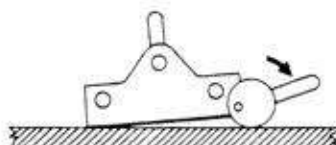
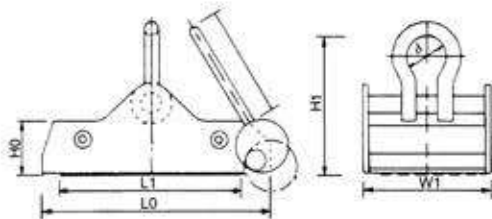
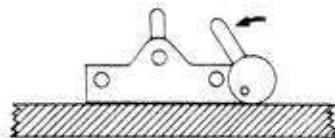


FEATURES

- Normal operation is not influenced on power off or system breakdown, as there is permanent magnet.
- Cam mechanism, easy operation.
- Ground surface of workpiece may be attracted to be scrap occasionally, please be careful.

LOADING

- Take the magnetic table on the workpiece, and move it at the vertical position.



UNLOADING

- Move the level at the horizontal position, the workpiece will be separated.

- Never operate over human's head.

ORDER NO.	CAPACITY	W1	L1	L0	H0	H1	d	l	NET WEIGHT (KGS)	CODE NO.
VGP-100	1000kg	204	298	366	65	125	50	135	25.8	2018-040
VGP-200	2000kg	330	380	445		130			46.8	2018-041

Magnetic Holder

HANDLE TYPE



VML-80



VML-140

FEATURES

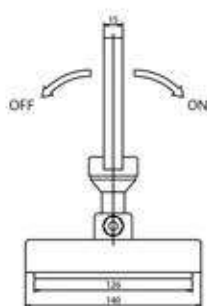
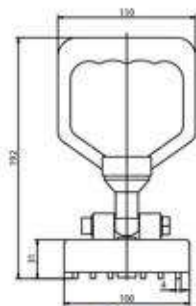
- Work is held and released very smoothly.
- Most suitable to move materials or semi-finished products such as black steel plate, flat iron and other materials etc.

HOLDING POWER

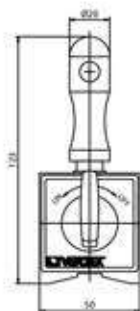
It depends on the attractive face, quality and thickness of material and clearance between the material and magnet.

MAXIMUM HOLDING POWER

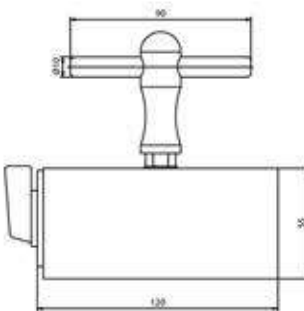
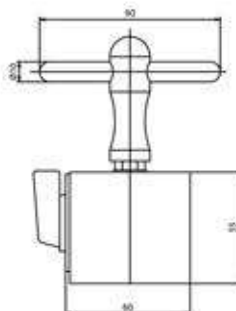
Workpiece must be thick enough and the surface must be free of dust. magnetic attraction is best and with low carbon-soft steels.



VML-150



VML-80



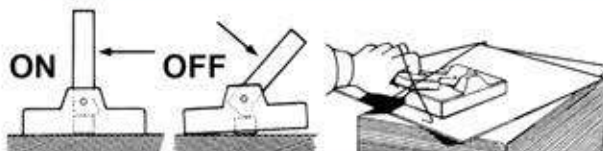
VML-140

Unit:mm



VML-150

ORDER NO.	CAPACITY	L	W	H	N.W (KGS)	CODE NO.
VML-80	80kgf	60	50	55	1.23	2018-054
VML-140	140kgf	120	50	55	2.2	2018-055
VML-130	130kgf	120	50	55	1.9	2018-053
VML-150	150kgf	140	100	192	2.5	2018-056





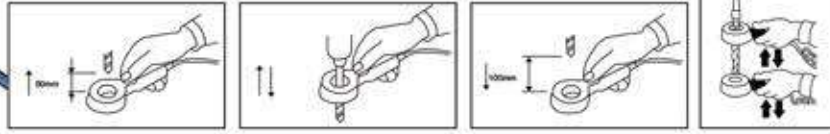
Demagnetizer



دی مگنت



- Suit for drill, end mill, hard ware, cutting tool...etc.
- Handy type, it can also use the cutting tool.
- ※ Guaranteed for 3 months.



ORDER NO.	INPUT VOLTAGE	CURRENT	POWER	DUTY CYCLE	HOLE CAPACITY	WEIGHT KGS	CODE NO.
VDM-40	AC110V/220V	0.5A	80W	20%	Ø40MM	1.3	2019-030

NEW



- Handy Type**
For Bigger Or Heavy Workpiece
 ※ Light Duty Only
 ※ Guaranteed for 3 months.
 ※ Built-in over-heat safety Stop

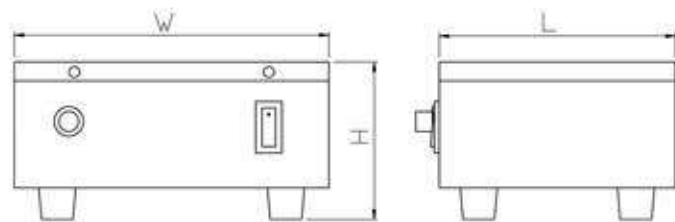
- Suit for molding.
- Work perfectly in the narrow place.
- No need to remove the workpiece.



ORDER NO.	INPUT VOLTAGE (SINGLE PHASE)	CURRENT	※ USING TIME	DIMENSION			WEIGHT KGS	CODE NO.
				L	M	H		
VDM-50	110V/220V/1PH	1.2A	Demagnetize 1 minute waiting 4 minutes	345	35	25	1.2	2019-031

Demagnetizer

Demagnetizer one way only



FEATURES

- Suitable for general component spare parts, attachments, tools, etc, for fixed way demagnetization.
- Suitable for longtime use; be able to use continuously for 24 hours. Rest 10 Min Per 3 hrs.
- With the design of double coils inside to avoid heat release.
- ※ Guaranteed for 3 months.
- ※ If operate ←→ will cause item magnetized

DELUXE TYPE

Unit:mm

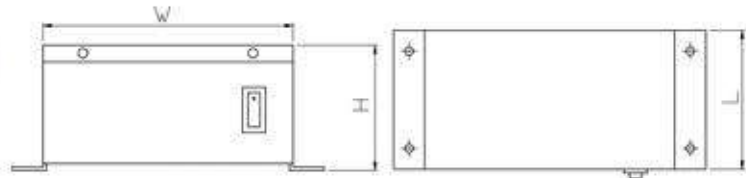
ORDER NO.	INPUT VOLTAGE	CAPACITY	DUTY CYCLE	DIMENSION			NW KGS	CODE NO.
				L	W	H		
VDM-68	110V/220V	AC-330VA	100%	140	195	110	7.4	2019-001



VDM-8, 11

FEATURES

- Input voltage 110-220 Volts AC.
- With On-Off switch.
- Quickly Demagnetizes tools, drills punches, dies, etc. Held by magnetic chucks. Parts are demagnetized by drawing across surface.
- Voltage 200-240 should be ordered.
- ※ Guaranteed for 3 months.



Unit:mm

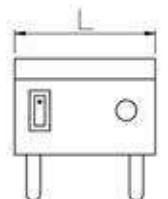
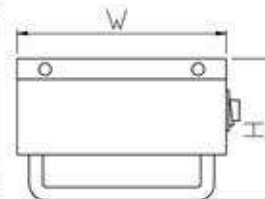
ORDER NO.	INPUT VOLTAGE	CAPACITY	WORKING SURFACE	HEIGHT	WEIGHT (KGS)	DUTY CYCLE	CODE NO.
VDM-8	AC- 110V 220V	210VA	160X110	100	4.5	50%	2019-011
VDM-11	110V 220V	550VA	200X280	130	16	100%	2019-021



Mini Type Demagnetizer

FOR HANDY AND CAN NOT BE MOVED OBJECT

- Suitable for large type workpiece.
- ※ Guaranteed for 3 months.



Unit:mm

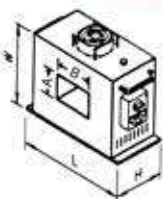
ORDER NO.	INPUT VOLTAGE	CAPACITY	WORKING SURFACE	HEIGHT	WEIGHT (KGS)	DUTY CYCLE	CODE NO.
VDM-9	AC-110V 220V	110VA	123X83	83	1.8	90%	2019-020



Tunnel Type Demagnetizer And Magnetizer

FEATURES

- Merely using tools to pass through or move into a tunnel will cause a good demagnetizing effect.
- Suitable for planned automatic process; be adapted for delivery belts to proceed in order to increase productivity.
- Suitable for hand manual tools, etc. for filling magnetism.
- Suitable for large production of component spare parts, attachments, tools...etc.
- Suitable for longtime use; be able to use continuously for 24 hours.
- Super efficacy in demagnetizing and magnetizing; suitable for many kinds of metals.
- Attached a fan inside for dissipating heat.
- ※ Guaranteed for 3 months.



ORDER NO.	POWER SOURCE	CAPACITY	DIMENSION			THROUGH HOLE		NET WEIGHT KGS	DUTY CYCLE	CODE NO.
			L	W	H	A	B			
VDM-150	AC 220/380V (single phase)	3520 VA	370	370	200	100	150	33	100%	2019-025
VDM-250		4840 VA	470	370	200	150	250			52
VDM-450	AC 220/380V (3 phase)	4400 VA	700	500	200	250	450	80		2019-027



Chip Collector Mini Handy Type



براده جمع کن

NEW



- Pull the trigger to drop attracted items easily.
 - Permanent magnet.
 - Light and handy design fitting ergonomics.
 - Easy to pick up various kinds of hand of hand tools and small iron or steel parts for office, house and factory.
 - Impact-proof plastic materials.
- ※ Need normal work temp

Unit:mm

ORDER NO.	PACKING	HOLDING MASS	CUFT	DIMENSION			WEIGHT KGS	CODE NO.
				L	W	H		
VCC-16	Color BOX	0.65	0.09'	110	110	190	0.7	2019-040



Chip Collector With Adjustable Arm Type

NEW



- Work perfectly in the narrow space.
- Pick up ferrous metal items such as tools, bolt, paper clips, nails, etc.
- Deluxe handle for comfort.
- Easy to use, safe, practical and time saving.
- Permanent magnet.
- Weight : 2 kgs

ORDER NO.	MAGNETIC BASE	HOLDING MASS	CUFT	TOTAL LENGTH	CODE NO.
VCC-17A	120x70mm	0.7	0.4'	700 mm	2019-041A



Chip Collector With Wheels

NEW



- Easy to use, safe and practical time saving device.
- Release magnetic pick up tool has a magnetic device which enable to attract any metal items and spare parts laying on the floor without the trouble to pick them up one by one.
- Pull the trigger to release magnetic force.
- Permanent magnet.

ORDER NO.	PACKING	HOLDING MASS	kgf	CUFT	LENGTH	WEIGHT KGS	TOTAL WIDTH	CODE NO.
VCC-19	In Bulk	0.85	83	1.15'	720-1035mm	1.5	377 mm	2019-043



Chip Collector With Flexible Arm

Flexible Magnetic Pick-Up Tool

WEIGHT:0.4kg



ORDER NO.	VCC-20
PACKING	Tied On Card
HOLDING MASS	0.11
CUFT	0.04'
LENGTH	533 mm
CAPACITY	1.2 lbs / 0.54kgs / 50kgf
CODE NO.	2019-044



Chip Collector With LED

Lighted Flexible Magnetic Pick-Up Tool

WEIGHT:0.2kg



ORDER NO.	VCC-21
PACKING	Tied On Card
HOLDING MASS	0.08
CUFT	0.04'
LENGTH	533 mm
CAPACITY	0.7 lbs / 0.31kgs / 30kgf
CODE NO.	2019-045

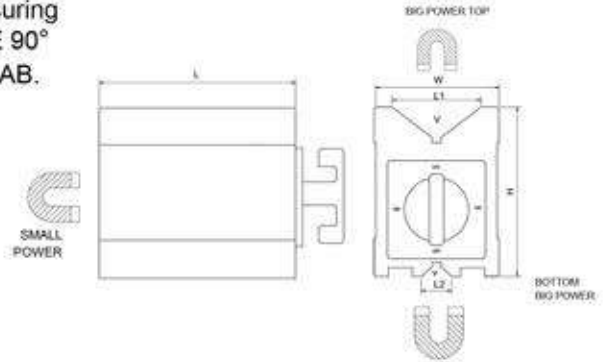
With 2pc 1.5V batteries



Magnetic V Block وی بلوک مگنتی VERTEX®

1 PCS

- For round / square workpiece
- For checking on surface plate during the production.
- For measuring
- V ANGLE 90°
- ※ Not for LAB.



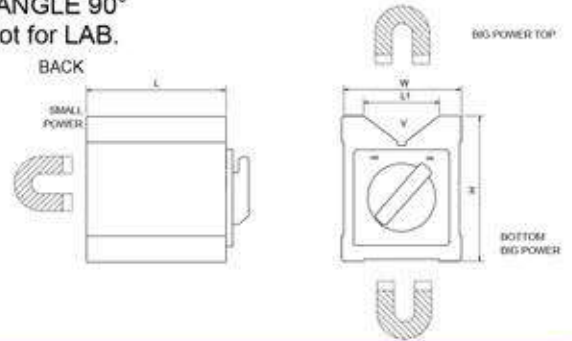
ORDER NO.	Magnetic Power(pull)	V	v	Dimension					Wt. kgs	CODE NO.
				H	W	L	L1	L2		
VCP-25	70kgf	ø7~ø60	ø7~ø25	95.3 3.75"	70 2.76"	101.6 4"	45 1.97"	18 0.75"	3.9	2015-501

Magnetic V Block

1 PCS



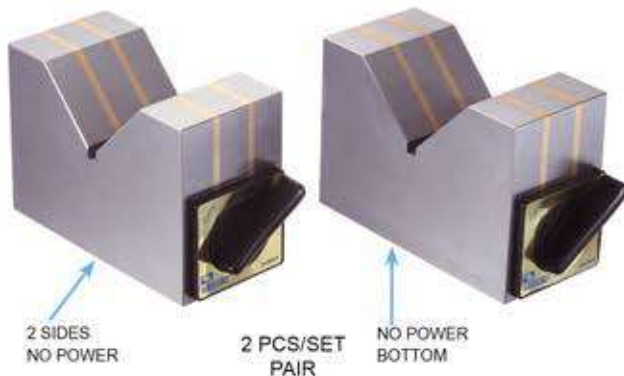
- For round / square workpiece
- For checking on surface plate during the production.
- For measuring
- V ANGLE 90°
- ※ Not for LAB.



ORDER NO.	Magnetic Power(pull)	V	Dimension				Wt. kgs	CODE NO.
			H	W	L	L1		
VCP-26	50kgf	ø8~ø50	73 2.87"	60 2.13"	70 2.76"	37 1.5"	1.8	2015-510
VCP-27	70kgf	ø8~ø50	73 2.87"	60 2.36"	125 4.29"	38 1.5"	3.3	2015-511

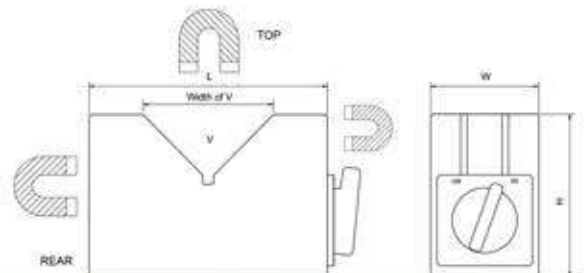
Magnetic V Block

PAIR



Magnetic V-Block

- Two pieces finished to the same dimension and accuracy are used together as a set.
- For round / square workpiece
- For checking on surface plate during the production.
- V ANGLE 90°
- ※ Not for LAB.



ORDER NO.	Magnetic Power(pull)	V	Dimension			Width of V	Wt. kgs	CODE NO.
			H	W	L			
VCP-29	17kgf	ø8~ø80	74 2.91"	48 1.77"	110 4.33"	60 2.36"	4.9	2015-521
VCP-30	23kgf	ø8~ø120	100 3.94"	50 1.97"	150 5.91"	90 3.54"	8.9	2015-522

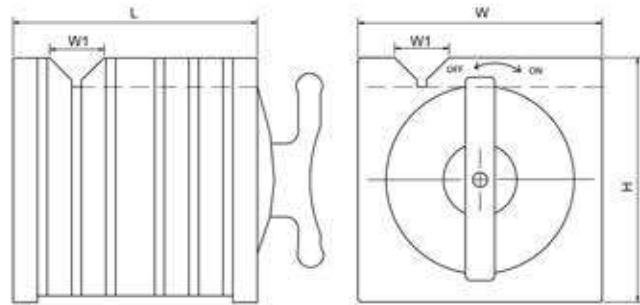


Magnetic Square Block



FOR MEASURING

بلوک مگنتی

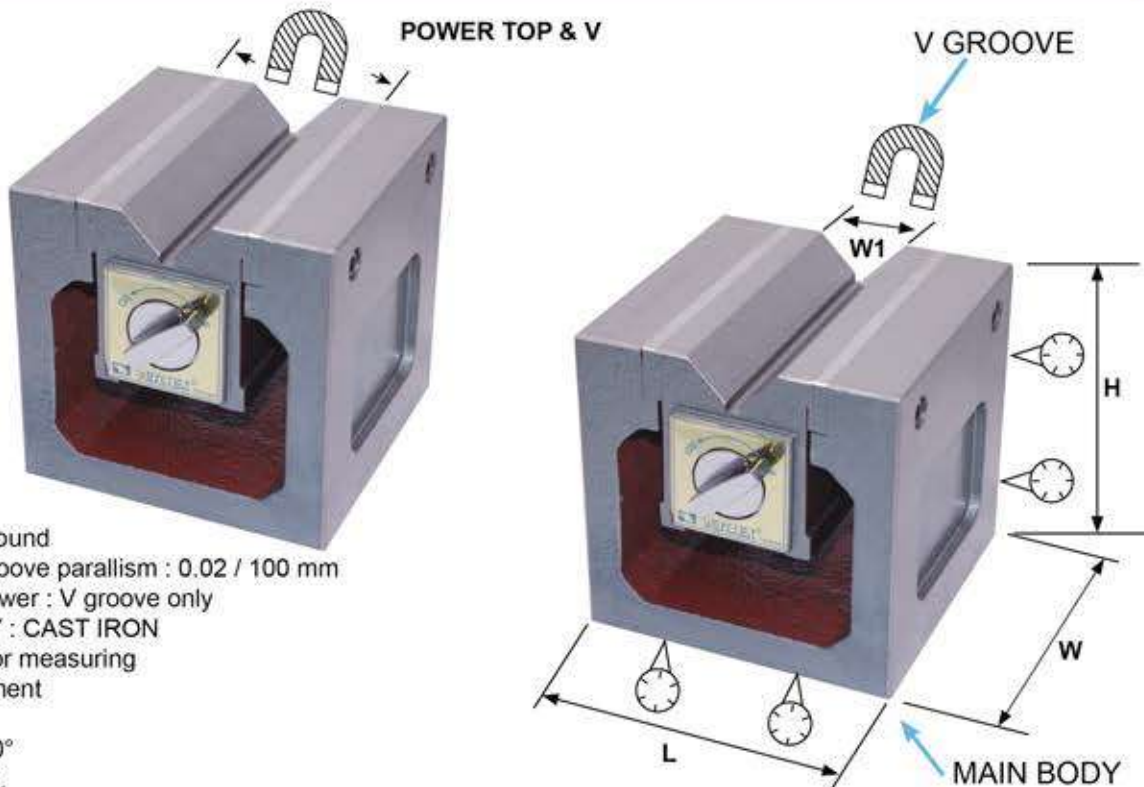


- The V-Blocks and Parallels transfer the magnetism from permanent magnetic chucks.
- The steel used in all V-Blocks and Parallels is selected for the highest magnetic transfer and is cast integrally with aluminum.
- For measuring
- V ANGLE 90°
- ※ Not for LAB

ORDER NO.	Mag. Power of V groove	Mag. Power of base	V	H	W	L	W1	Wt. kgs	CODE NO.
VCP-31	25kgf	50kgf	ø7-ø22	100 3.94"	100 3.94"	100 3.94"	23 1.02"	6.5	2015-530
VCP-32	50kgf	140kgf	ø7-ø29	150 5.91"	150 5.91"	150 5.91"	29 1.26"	20.3	2015-531

Magnetic Square Holder

NEW



- Precision ground
- Base & V groove parallelism : 0.02 / 100 mm
- Magnetic power : V groove only
- MAIN BODY : CAST IRON
- Light duty, for measuring
- Easy movement
- Multi - type
- V ANGLE 90°
- ※ Not for LAB.

ORDER NO.	Mag. Power of V groove	V	H	W	L	W1	Wt. kgs	CODE NO.
VCP-40	70kgf	ø8-ø50	125	125	125	37	8.54	2015-540

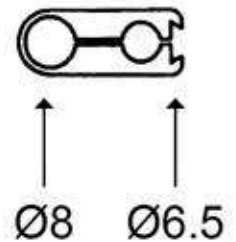
FIXED ARM TYPE VMB-B,01,02 THE DIAL CLAMP HOLE Ø6.5 & Ø8



※knob may vary & shape & color



- If you would like to turn around the ARM of VMB series, don't rotate the ARM directly, because the thread in the base will be disintegrated, please loose the knob first (in the middle of ARM), then the ARM will be rotated, thanks! After you set the position, Fix the Knob.
- Before you set the new position, you must loose the knob. Hold at the connection between Rod & Base to prevent thread breaking.



ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	SUB ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMB-B	60X50X55	80KGS	Ø12X173	Ø10X162	1.6	2015-601
VMB-01	60X50X55	80KGS	Ø12X176	Ø10X150	1.6	2015-602
VMB-02	60X50X55	80KGS	Ø12X171	Ø10X153	1.6	2015-603
VMB-03	115X50X55	130KGS	Ø20X310	Ø14X200	3.9	2015-607
VMB-181	73x50x55	100KGS	Ø30X175.5	Ø21x137	1.9	2015-609A
VMB-185	73x50x55	100KGS	Ø31X124.5	Ø28x113	2.0	2015-609B

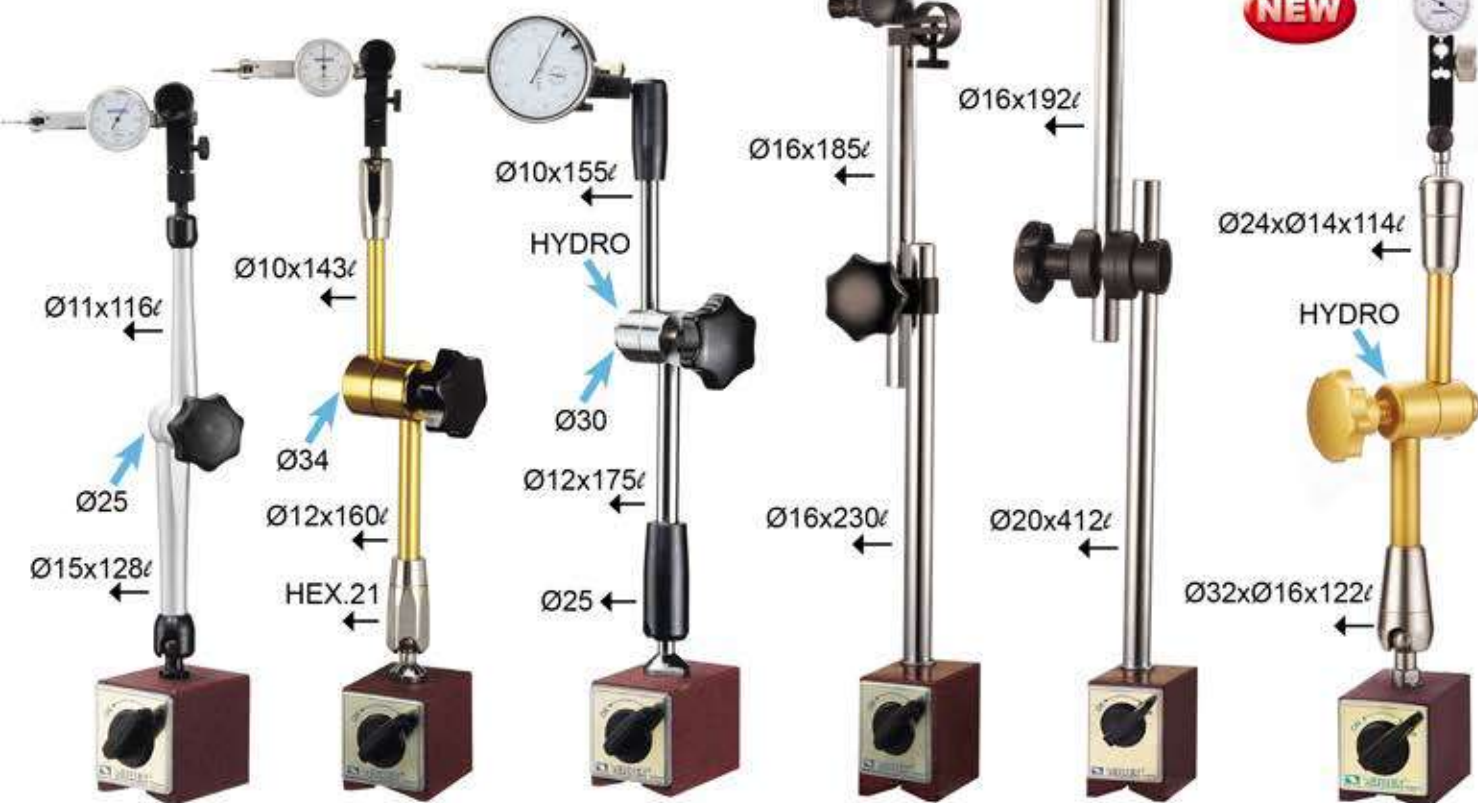


UNIVERSAL ARM TYPE
THE DIAL CLAMP HOLE Ø6.5 & Ø8

※knob may vary & shape & color

پایه ساعت

WITHOUT DIAL INDICATOR



ORDER NO.
VMB-70
DELUXE UNIVERSAL
MAGNETIC BASE/
100kgs

ORDER NO.
VMB-106
MECHANICAL ARM
MAGNETIC BASE/
100kgs

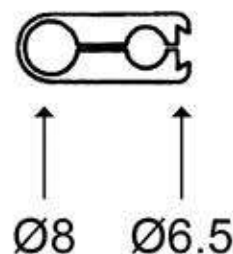
ORDER NO.
VMB-106H
HYDRAULIC ARM
MAGNETIC BASE/
100kgs

ORDER NO.
VMB-160

ORDER NO.
VMB-180

ORDER NO.
VMB-182H
HYDRAULIC ARM
MAGNETIC BASE/
100kgs

- If you would like to turn around the ARM of VMB series, don't rotate the ARM directly, because the thread in the base will be disintegrated, please loose the knob first (in the middle of ARM), then the ARM will be rotated, thanks! After you set the position, Fix the Knob.
- Before you set the new position, you must loose the knob. Hold at the connection between Rod & Base to prevent thread breaking.
- Hold the Mag. Base while moving & lifting



ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	SUB ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMB-70	73X50X55	100KGS	Ø15X128	Ø11X116	1.7	2015-604
VMB-106	73X50X55	100KGS	Ø12X160	Ø10X143	1.9	2015-605
VMB-106H	75X50X55	100KGS	Ø12X175	Ø10X155	2.2	2015-606
VMB-160	70x46x60	100KGS	Ø16x230	Ø16x185	2.1	2015-608
VMB-180	75x60x80	100KGS	Ø20x412	Ø16x192	3.8	2015-609
VMB-182H	73x50x55	100KGS	Ø32xØ16x122	Ø24xØ14x114	1.75	2015-600



Magnetic Tools



MICRO ADJUSTMENT



ORDER NO. VMF-112
MINI MAGNETIC
BASE

W/O MICRO ADJUSTMENT



ORDER NO. VMF-113
MINI MAGNETIC
BASE

پایه ساعت



VMF-102A

VMF-102B

ORDER NO. VMF-102A/B
MINI DELUXE UNIVERSAL
MAGNETIC BASE
SUITABLE FOR EDM USING.

※ knob may vary
& shape & color

ORDER NO. VH-70
MINI MAGNETIC
BASE
ROUND BASE OR
SQUARE BASE



ORDER NO. VMS-1/4
ORDER NO. VMS-3/8
STEEL HOSE WITH
NOZZLE



ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	SUB ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMF-112	34.5X30X35	30KGS	Ø20 X 70	Ø15 X 65	0.6	2015-619
VMF-113	34.5X30X35	30KGS	Ø20 X 70	Ø15 X 65	0.55	2015-619A
VH-70	31X31X32	15KGS	Ø10 X 70	Ø6 X 90	0.4	2015-620
VMF-102A	34.5X30X35	30KGS	Ø20 X 70	Ø20 X 65	0.57	2015-621A
VMF-102B	Ø31X31H	30KGS	Ø20 X 70	Ø15 X 65	0.5	2015-621B
VMS-1/4			Ø11 X 320	HOSE THREAD 1/4	0.2	2015-640
VMS-3/8			Ø15 X 370	HOSE THREAD 3/8	0.4	2015-641



چراغ مگنت دار



ORDER NO. VMB-06
FLEXIBLE ARM
WITH MAGNETEC BASE

ORDER NO. VML-A
MAGNETIC BASE
WORKING BEAM
※ FOR 20W/40W/60W 110V
※ FOR 20W/40W/60W 220V

ORDER NO. VML-B
MAGNETIC BASE
WORKING BEAM
※ FOR 20W/40W/60W 110V
※ FOR 20W/40W/60W 220V

ORDER NO. VML-C
MAGNETIC BASE
WORKING BEAM
※ FOR 20W/40W/60W 110V
※ FOR 20W/40W/60W 220V

※knob may vary
& shape & color

- If you would like to turn around the ARM of VMB series, don't rotate the ARM directly, because the thread in the base will be disintegrated, please loose the knob first (in the middle of ARM), then the ARM will be rotated, thanks!
After you set the position, Fix the Knob.
- Before you set the new position, you must loose the knob.
Hold at the connection between Rod & Base to prevent thread breaking.
- Hold the Mag. Base while moving & lifting

ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMB-06	60X50X55	80KGS	Ø16X208	1.6	2015-610
VML-A	60X50X55	80KGS	Ø20X200	1.5	2015-611
VML-B	60X50X55	80KGS	Ø26X200	1.5	2015-612
VML-C	60X50X55	80KGS	Ø20X460	2.2	2015-616

پایه مگنت



ORDER NO. VMB-00
MAGNETIC BASE ONLY
M8X1.25p,80kgs



ORDER NO. VMB-09
MAGNETIC BASE ONLY
M8X1.25p,30kgs

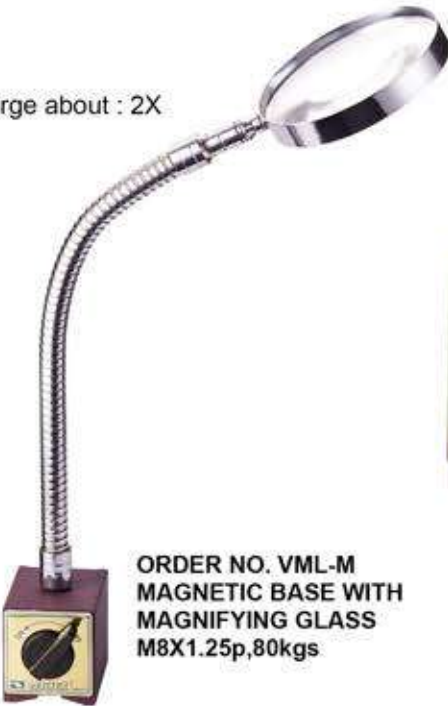


ORDER NO. VMB-10
MAGNETIC BASE ONLY
M8X1.25p,100kgs



ORDER NO. VTB-120
TESTER ARM BASE
please see page B81

Enlarge about : 2X



ORDER NO. VML-M
MAGNETIC BASE WITH
MAGNIFYING GLASS
M8X1.25p,80kgs



ORDER NO. VMB-11
MAGNETIC BASE ONLY
M8X1.25p,140kgs



ORDER NO. VMB-12
WHEEL DRESSER
CLAMP HOLE 12MM
WITHOUT DIAMOND
DRESSER PEN
Page B65

- If you would like to turn around the ARM of VMB series, don't rotate the ARM directly, because the thread in the base will be disintegrated, please loose the knob first (in the middle of ARM), then the ARM will be rotated, thanks!
After you set the position, Fix the Knob.
- Before you set the new position, you must loose the knob.
Hold at the connection between Rod & Base to prevent thread breaking.
- Hold the Mag. Base while moving & lifting

※knob may vary
& shape & color

ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMB-00	60X50X55	80KGS		1.1	2015-613
VMB-09	34.5X30X35	30KGS		0.2	2015-646
VMB-10	73X50X55	100KGS		1.25	2015-645
VMB-11	117X50X55	140KGS		2.1	2015-614
VMB-12	60X50X55	80KGS		1.1	2015-615
VML-M	60X50X55	80KGS	Ø15X325	1.7	2015-617
VTB-120	Ø120		Ø25 X 125	2.65	2022-015



Magnetic Tools



شیلنگ اب صابون پایه مغنت



ORDER NO. VMH-54
(2 HOSE)
MAGNETIC BASE
WITH HOSE NOZZLE

ORDER NO. VMH-62
(3 HOSE)
MAGNETIC BASE
WITH HOSE NOZZLE



ORDER NO. VMH-63
(1 HOSE)
MAGNETIC BASE
WITH STEEL NOZZLE



ORDER NO. VMH-64
(2 HOSE)
MAGNETIC BASE
WITH STEEL NOZZLE



ORDER NO. VMH-65
(3 HOSE)
MAGNETIC BASE
WITH STEEL NOZZLE

※knob may vary
& shape & color

● Hold the Mag. Base while moving & lifting

ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	SUB ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMH-54	60X50X55	80KGS	Ø16 X 330	2PCS.HOSE	1.4	2015-622
VMH-62	60X50X55	80KGS	Ø16 X 330	3PCS.HOSE	1.5	2015-623
VMH-63	60X50X55	80KGS	Ø11 X 330	1PCS.HOSE	1.6	2015-642
VMH-64	60X50X55	80KGS	Ø11 X 330	2PCS.HOSE	2	2015-643
VMH-65	60X50X55	80KGS	Ø11 X 330	3PCS.HOSE	2.2	2015-644

Thin Round Magnet



لیفت مگنت

NEW



VMH-D13, D30



VMH-T66, T80

- For Basic light Mag. force
- To combine with other tool
- To remove light weight iron object.
- I.D. Ø M6.6 / M8
- Can serve as hanger.



Unit : mm

ORDER NO.	HOLDING POWER	ØD	THICKNESS	WEIGHT (kg)	CODE NO.
VMH-D13	13 kgf	66	10.5	0.16	2015-711
VMH-D30	30 kgf	80	13.0	0.34	2015-712
VMH-T66	13 kgf	66	10.5	0.16	2015-716

Round Magnet Holder

NEW



VMD-R30



VMD-R50



VMD-S14



VMD-S20



- For Basic light Mag. force
- To combine with other tool
- To remove light weight iron object.
- Support for positioning
- Magnetic force only work on the bottom.

✗Every magnet need to work under 70°C

ORDER NO.	HOLDING POWER	DIMENSIONS	TAPPER HOLE	WEIGHT (KGS)	CODE NO.
VMD-R18	18 kgf	Ø 30 x 25	M6	0.12	2015-721
VMD-R30	30 kgf	Ø 40 x 30	M8	0.26	2015-722
VMD-R50	50 kgf	Ø 50 x 40	M8	0.54	2015-723
VMD-S14	14 kgf	26 x 26 x 25	-	0.12	2015-724
VMD-S20	20 kgf	26 x 60 x 25	M6	0.28	2015-725



Magnetic Tapper



قلاویز زن دستی

NEW



※ knob may vary & shape & color

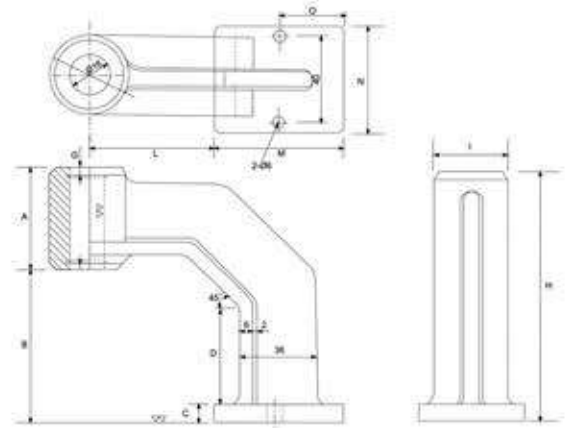
Cost higher



Example.



- MAX. stroke 60 mm
- Suit for large workpiece
- TAP thread capacity M3-M12
- Magnetic force 80 kgf
- Horizontal / Vertical
- Portable
- Great for machine case & thin plate tapping job.
- TAP & Iron piece not included.



Unit : mm

ORDER NO.	A	B	C	D	H	I	L	M	N	O	WEIGHT (kgs)	CODE NO.
VTM-13	50	72	10	45	122	36	60	60	50	30	3.10	2015-731



Magnetic Clamp

Welder's Magnetic Ground Clamp

Heavy-duty steel housing holds a powerful magnet for fast, yet safe ground.

Ground wire will rotate 360° for easy access.

Equipped with a spring-loaded brass electrode, the magnetic ground clamps attach securely direct to work surface.



ORDER NO.	MASS	CUFT	L x W x H	WEIGHT (kg)	CODE NO.
VCC-30	10kgs	0.07'	70 x 52 m/m	0.48	2033-220
VCC-31	5.6kgs	0.05'	49 x 40 m/m	0.12	2033-221



Magnetic Quick Clamp



L



M

ORDER NO.	SIZE	PACKING	MASS	CUFT	DIMENSION			WEIGHT (kg)	CODE NO.
					L	W	H		
VCC-33	M	Sliding Card	26kgs	0.03'	120	82	14	0.32	2033-223
VCC-34	L	Sliding Card	25kgs	0.03'	158	102	19	0.68	2033-224

Multi-Function Mist Coolant System

شینگ آب صابون شیر دار

ORDER NO.VCS-500 CODE NO.2015-700
WEIGHT:0.8kg



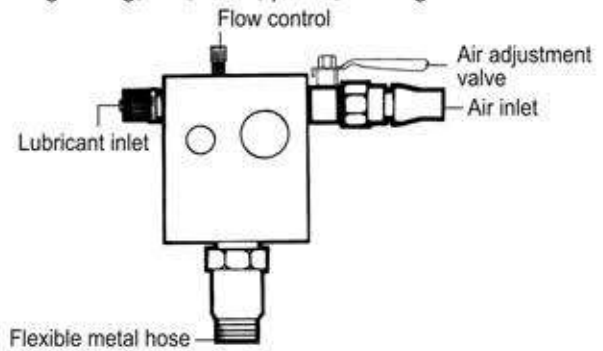
EXAMPLE



FEATURES

- Flexible functions as cooling, lubrication and blowing the metal chips can be performed at the same time.
- Designed and manufactured for improving machinability, cutting speed, and extending tool service life, Saving working time and production cost.
- It insures better quality of parts finishing and cutting performance.
- The unit help to creat micro-finish effect even working on tough alloy steels and exotic metals.

This mist coolant systems are suited to fit on lathe, milling, drilling, tapping, grinding, cutter grinding, NC, CNC, press, sawing machine.....



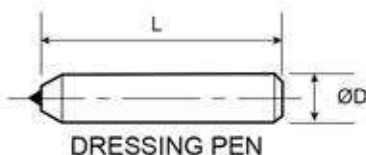
Mist Coolant With Magnetic Base



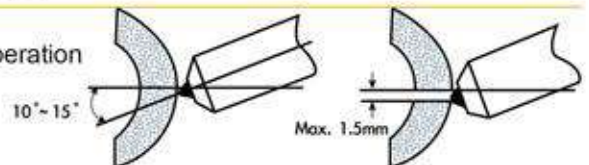
ORDER NO. VMH-71 (1 HOSE)
MAGNETIC BASE WITH
MIST COOLANT SYSTEM

ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	SUB ROD O.D X L	WEIGHT (kgs)	CODE NO.
VMH-71	62X50X55.5	75KGS	Ø15X500	1PCS.HOSE	2	2015-618

Diamond Dressing Tools



Installation And Operation



SINGLE POINT DIAMOND DRESSERS

ORDER NO.	ØD x L	DIAMOND SIZE. wt.(cts.)	For Grinding Wheels Size(mm)	CODE NO.
VDR-1010	Ø10D x 80L	0.20	Ø150 x 25 or smaller	2015-665
VDR-1012	Ø12D x 100L	0.20		2015-666
VDR-3310	Ø10D x 80L	0.75	Ø150 ~ Ø300 x 25	2015-667
VDR-3312	Ø12D x 100L	0.75		2015-668
VDR-5010	Ø10D x 80L	1.0	Ø300 ~Ø450 x 25~40	2015-669
VDR-5012	Ø12D x 100L	1.0		2015-670



Adjustable Magnetic Nozzle Kit VERTEX®

شیلنگ آب صابون شیر دار



- The adjustable magnetic nozzle is suitable for cooling and lubricating in machining process.
- Can be prolonged the cutter life and advance the accuracy and beauty of workpiece.
- By different of usage, there are much models for selection.
- Machine tool made by customer's specification and cooperated to develop.
- When using, please take out the spacer (under the magnetic base)



WITH PLASTIC NOZZLE & VALVE
O.D.34XH230mm

WITH STEEL NOZZLE
O.D.68X330H

ORDER NO.	Weight	CODE NO.
CL-01	0.3kgs	2015-624
CL-02		2015-625
CL-03		2015-626
CL-01A		2015-627
CL-02A		2015-628
CL-03A		2015-629
S-1	0.2kgs	2015-630
L2-S	0.5kgs	2015-631

Adjustable Coolant Hose



- 4 kinds of orifice inner diameter are available: 1/4", 3/8", 1/2", and 3/4".
- Adjustable Coolant Hose is highly pliable; it holds its shape well and will not spring back.
- Made of Dupont 100P material, this highly rigid yet resilient acetal (POM) is strongly resistant to oils and chemicals.
- Adjustable Coolant Hose will not damage cutting blade if there were accident contact.
- Adjustable Coolant Hose does not conduct electricity and is good for operating on electrical discharge machine (EDM).
- Bending hose will not reduce inner diameter, hose will not pinch or fatigue.
- Adjustable Coolant Hose is designed for the transport of low-pressure fluids.

List of suitable fluids

Ordinary Adjustable Coolant Hoses are manufactured from acetal (POM), Hose is available in dark blue and orange colors.



ITEM	SUITABLE	UNSUITABLE
ALCOHOLS, ETHYL	O	
ACIDS		X
ACETONE	O	
BASES, STRONG		X
AMMONIUM HYDROXIDE (STRONG)		X
COMMERCIAL DISH DETERGENTS	O	
GASOLINE	O	
GREASES	O	
HYPOCHLORITE LON SOLUTIONS		X
LACQUER SOLVENTS	O	
OILS	O	
SODIUM HYDROXIDE	O	
SODIUM HYPOCHLORITE		X
INSECTICIDES	O	
BRAKE OILS	O	



Caution:

our materials are good with alcohols, ethyl, acetone, commercial dish detergents, gasoline, greases, lacquer solvents, oils, sodium hydroxide, insecticides, and brake oils. Not good for acids, bases, strong, ammonium hydroxide(strong), Hypo-chlorite Lon solutions, sodium Hypochlorite. Use inappropriate liquids may cause damage.





CODE NO. & DESCRIPTION

FIGURE

شینگ آب صابون

1/4" VALVE & HOSE KIT

62220

33CM Length Hose Kit

Assembled with:

1-Acid Resistant 1/4" Male NPT Valve

1-20 Element Segments

1-(1/16" or 1/8" or 1/4") Round Nozzle

ORDER NO. VHK-1/4A

CODE NO.2016-001



ACID RESISTANT

62720

33CM Length Hose Kit

Assembled with:

1-1/4" Male NPT Valve

1-20 Element Segments

1-(1/16" or 1/8" or 1/4") Round Nozzle

ORDER NO. VHK-1/4

CODE NO.2016-002



3/8" VALVE & HOSE KIT

63320

36CM Length Hose Kit

Assembled with:

1-Acid Resistant 3/8" Male NPT Valve

1-16 Element Segments

1-(1/4" or 3/8" or 1/2") Round Nozzle

ORDER NO. VHK-3/8A

CODE NO.2016-003



ACID RESISTANT

63720

36CM Length Hose Kit

Assembled with:

1-3/8" Male NPT Valve

1-16 Element Segments

1-(1/4" or 3/8" or 1/2") Round Nozzle

ORDER NO. VHK-3/8

CODE NO.2016-004



1/2" VALVE & HOSE KIT

64420

33CM Length Hose Kit

Assembled with:

1-Acid Resistant 1/2" Male NPT Valve

1-12 Element Segments

1-(1/4" or 3/8" or 1/2") Round Nozzle

ORDER NO. VHK-1/2A

CODE NO.2016-005



ACID RESISTANT

64720

33CM Length Hose Kit

Assembled with:

1-1/2" Male NPT Valve

1-12 Element Segments

1-(1/4" or 3/8" or 1/2") Round Nozzle

ORDER NO. VHK-1/2

CODE NO.2016-006



3/4" VALVE & HOSE KIT

66720

44CM Length Hose Kit

Assembled with:

3/4" Male PT or NPT Valve

ORDER NO. VHK-3/4

CODE NO.2016-007





Gauge blocks are fundamental standards for linear measurement. For adjusting, checking, or inspecting measuring instruments and tools, and precision workpieces. Gauge blocks are used either individually or in combination of several blocks which are wrung together.

Steel gauge blocks are made of quality alloy steel, and carbide, the ceramics are also available.

The hardness number of the measuring surfaces is no less than HRC64.

The blocks have fine wear resistance, They are heat treated in special ways so as to stabilize their lengths.

JIS/ISO/DIN ACCURACY STANDARD

SIZE OVER UP TO	ACCURACY AT 20°C (µm)	
	GRADE 00	GRADE 0
10mm	±0.06	±0.12
10 - 25mm	+0.07	±0.14
25 - 50mm	±0.10	±0.20
50 - 75mm	±0.12	±0.25
75 - 100mm	±0.14	±0.30
100 - 150mm	-	±0.40

SIZE OVER UP TO	ACCURACY AT 20°C (µm)	
	GRADE 1	GRADE 2
10mm	±0.20	±0.45
10 - 25mm	±0.30	±0.60
25 - 50mm	±0.40	±0.80
50 - 75mm	±0.50	±1.00
75 - 100mm	±0.60	±1.20
100 - 150mm	±0.80	±1.60

STEEL METRIC GAUGE BLOCKS

ORDER NO.	Total blocks	Nominal dimension	Steps	No. of blocks	Grade	Weight (kg)	CODE NO.
VGB-112-0	112	1.0005	-	1	0	3.7	2006-070
VGB-112-1		1.001-1.009	0.001	9	1	3.7	2006-170
VGB-112-2		1.01-1.49	0.01	49	1	3.7	2006-170
		0.5-24.5	0.05	49	2	3.7	2006-270
		25-100	25	4	2	3.7	2006-270
VGB-103-0	103	1.005	-	1	0	3.6	2006-072
VGB-103-1		1.01-1.49	0.01	49	1	3.6	2006-172
VGB-103-2		0.5-24.5	0.5	49	1	3.6	2006-172
		25-100	25	4	2	3.6	2006-272
VGB-87-0	87	1.001-1.009	0.001	9	0	3	2006-073
VGB-87-1		1.01-1.49	0.01	49	1	3	2006-173
VGB-87-2		0.5-9.5	0.5	19	1	3	2006-173
		10-100	10	10	2	3	2006-273
VGB-47-0	47	1.005	-	1	0	2.4	2006-074
VGB-47-1		1.01-1.09	0.01	9	1	2.4	2006-174
VGB-47-2		1.1-1.9	0.1	9	1	2.4	2006-174
		1-24	1	24	2	2.4	2006-274
		25-100	25	4	2	2.4	2006-274
VGB-38-0	38	1.005	-	1	0	2.5	2006-075
VGB-38-1		1.01-1.09	0.01	9	1	2.5	2006-175
VGB-38-2		1.1-1.9	0.1	9	1	2.5	2006-175
		1-9	1	9	2	2.5	2006-275
		10-100	10	10	2	2.5	2006-275

CARBIDE METRIC GAUGE BLOCKS

ORDER NO.	Total blocks	Nominal dimension	Steps	No. of blocks	Grade	Weight (kgs)	CODE NO.
VGB-112T-0	112	1.0005	-	1	0	5.8	2006-080
VGB-112T-1		1.001-1.009	0.001	9	1	5.8	2006-180
VGB-112T-2		1.01-1.49	0.01	49	1	5.8	2006-180
		0.5-24.5	0.05	49	2	5.8	2006-280
		25-100	25	4	2	5.8	2006-280
VGB-103T-0	103	1.005	-	1	0	5.6	2006-081
VGB-103T-1		1.01-1.49	0.01	49	1	5.7	2006-181
VGB-103T-2		0.5-24.5	0.5	49	1	5.7	2006-181
		25-100	25	4	2	5.7	2006-281
VGB-87T-0	87	1.001-1.009	0.001	9	0	4.8	2006-082
VGB-87T-1		1.01-1.49	0.01	49	1	4.9	2006-182
VGB-87T-2		0.5-9.5	0.5	19	1	4.9	2006-182
		10-100	10	10	2	4.8	2006-282
VGB-47T-0	47	1.005	-	1	0	4.6	2006-083
VGB-47T-1		1.01-1.09	0.01	9	1	4.6	2006-183
VGB-47T-2		1.1-1.9	0.1	9	1	4.6	2006-183
		1-24	1	24	2	4.6	2006-283
		25-100	25	4	2	4.6	2006-283



Ceramic Gauge Blocks



گیج بلوک سرامیکی



CHOICE DIFFERENT SIZE GAUGE BLOCK FOR TOTAL THE HEIGHT

Gauge blocks are fundamental standards for linear measurement. For adjusting, checking, or inspecting measuring instruments and tools, and precision workpieces.

Gauge blocks are used either individually or in combination of several blocks which are wrung together.

JIS/ISO/DIN ACCURACY STANDARD

SIZE OVER UP TO	ACCURACY AT 20°C (μm)	
	GRADE 00	GRADE 0
10mm	±0.06	±0.12
10 - 25mm	+0.07	±0.14
25 - 50mm	±0.10	±0.20
50 - 75mm	±0.12	±0.25
75 - 100mm	±0.14	±0.30
100 - 150mm	-	±0.40

SIZE OVER UP TO	ACCURACY AT 20°C (μm)	
	GRADE 1	GRADE 2
10mm	±0.20	±0.45
10 - 25mm	±0.30	±0.60
25 - 50mm	±0.40	±0.80
50 - 75mm	±0.50	±1.00
75 - 100mm	±0.60	±1.20
100 - 150mm	±0.80	±1.60

CERAMIC GAUGE BLOCKS

ORDER NO.	Total blocks	Nominal dimension	Steps	No. of blocks	Grade	Weight (kgs)	CODE NO.
VGB-112C-0	112	1.0005	-	1	0	3.7	2006-090
VGB-112C-1		1.001-1.009	0.001	9	0	3.7	2006-190
		1.01-1.49	0.01	49	1	3.7	2006-190
		0.5-24.5	0.05	49	1	3.7	2006-190
		25-100	0.25	4	1	3.7	2006-190
VGB-103C-0	103	1.005	-	1	0	3.6	2006-091
VGB-103C-1		1.01-1.49	0.01	9	0	3.6	2006-091
		0.5-24.5	0.05	49	1	3.6	2006-191
		25-100	0.25	4	1	3.6	2006-191
VGB-87C-0	87	1.001-1.009	0.001	9	0	3	2006-092
VGB-87C-1		1.01-1.49	0.01	9	0	3	2006-092
		0.5-9.5	0.5	19	1	3	2006-192
		10-100	10	10	1	3	2006-192
VGB-47C-0	47	1.005	-	1	0	2.4	2006-093
VGB-47C-1		1.01-1.09	0.01	9	0	2.4	2006-093
		1.1-1.9	0.1	9	1	2.4	2006-193
		1-24	1	24	1	2.4	2006-193
		25-100	25	4	1	2.4	2006-193

HOW TO CHOOSE THE BLOCK FOR SINE BAR

DISTANCE GAUGE BLOCK CAN GET DEGREE	SIN BAR CENTER	SIN BAR CENTER
	HEIGHT +50+	HEIGHT +100+
2°	1.7405	3.4899
3°	2.6168	5.2336
4°	3.4878	6.9756
5°	4.3578	8.7155
6°	5.2264	10.4528
7°	6.0935	12.1869
8°	6.9587	13.9173
9°	7.8217	15.6434
10°	8.6824	17.3648
11°	9.5404	19.0809
12°	10.3956	20.7911
13°	11.2476	22.4951
14°	12.0961	24.1921
15°	12.9401	25.8819
16°	13.7819	27.5637
17°	14.6186	29.2371
18°	15.4058	30.9017
19°	16.2784	32.5586
20°	17.1010	34.2020
21°	17.9184	35.8367
22°	18.7303	37.4606
23°	19.5366	39.0713
24°	20.3368	40.6736
25°	21.1309	42.2618
26°	21.9186	43.8371
27°	22.6995	45.3990
28°	23.4736	46.9471
29°	24.2405	48.4809
30°	25.0000	50.0000
31°	25.7519	51.5038
32°	26.4960	52.9919
33°	27.2320	54.4639
34°	27.9596	55.9192
35°	28.6788	57.3576
36°	29.3893	58.7785
37°	30.0908	60.1815
38°	30.7831	61.5661
39°	31.4660	62.9320
40°	32.1394	64.2787
41°	32.8030	65.6059
42°	33.4565	66.9130
43°	34.0999	68.1998
44°	34.7329	69.4658
45°	35.3553	70.7106



صفحه صافی چدنی



- These surface plates are designed for a diversity of applications where a smooth surface is needed.
- Rigidity and lasting accuracy are ensured by adequate top and side thickness and ribbed construction.
- The surfaces are free from pinholes. Precisely finished by planing and hand scraping, suitable for various kinds of high precision work, inspection and countless other uses.

Surface Plates

Unit:mm

ORDER NO.	SIZE	SURFACE ACCURACY	APPROX. WEIGHT	CODE NO.
	mm		kgs	
VS-01	200x200x50	0.005/100	7.1	2021-001
VS-02	250x250x50		11.1	2021-002
VS-03	250x300x50		10.9	2021-003
VS-04	300x300x50		12.6	2021-004
VS-05	300x400x60	0.006/100	20.1	2021-005
VS-06	300x450x65		24	2021-006
VS-07	450x450x80		50.5	2021-007
VS-08	500x500x75		56	2021-008
VS-09	450x600x100		64.5	2021-009
VS-10	600x600x100	0.007/100	78	2021-010
VS-11	600x900x110		117	2021-011
VS-12	900x900x130		220	2021-012
VS-13	900x1200x155		305	2021-013

NEW



Separated Modular Design DIY Type.
Low Profile Packing
With Adjustment Screw For Leveling



Cast Iron Surface Plates Stand

ORDER NO.	STAND SIZE	KGS	CODE NO.
	mm		
VSD-09N	450x600x700	25.6	2021-009N
VSD-10N	600x600x700	28.2	2021-010N
VSD-11N	600x900x700	47.8	2021-011N
VSD-12N	900x900x700	54.3	2021-012N
VSD-13N	900x1200x600	70.0	2021-013N



Black Granite Surface Plates

صفحه صافی گرانیت



- Black Granite Surface Plates meet or exceed JIS B7513/ISO-8512-2 Federal Specification GGG-P-463c.
- Harder than steel.
- Does not nick or burr.
- Retains accuracy for years.
- Auto-collimator checked for overall accuracy.
- Guaranteed repeat reading.
- Includes an inspection certificate to show the unilateral accuracy of plate.
- Does not rust or corrode.
- Surface Accuracy : 0.013~0.0065 / 100 mm

Accuracy and O-Ledge Style available only in toolroom Grade A

Surface Plates

Unit:mm

ORDER NO.	SIZE	SURFACE ACCURACY	APPROX. WEIGHT	CODE NO.
	mm		mm	
VSG-04	250x300x52	0.0065	12.6	2021-019
VSG-05	300x300x60	0.0065	17	2021-020
VSG-06	300x450x60	0.0065	25	2021-021
VSG-07	450x450x75	0.0065	46	2021-022
VSG-09	450x600x100	0.007	82	2021-023
VSG-10	600x600x100	0.009	109	2021-024
VSG-11	600x900x110	0.009	185	2021-025
VSG-13	900x1200x135	0.012	440	2021-027
VSG-14	1000x1000x135	0.012	408	2021-028
VSG-15	1000x1500x200	0.013	910	2021-029
VSG-21	900x900x160	0.013	380	2021-032

NEW



Strong & Rigid

Separated Modular Design DIY Type.
Low Profile Packing
With Adjustment Screw For Leveling
Material : SS41

Black Granite Surface Plates Stand

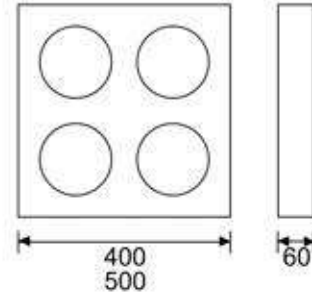
ORDER NO.	STAND SIZE	KGS	CODE NO.
	mm		
VSGD-09N	450x600x700	32.6	2021-023N
VSGD-10N	600x600x700	35.9	2021-024N
VSGD-11N	600x900x700	53.7	2021-025N
VSGD-13N	900x1200x700	72.8	2021-027N
VSGD-14N	1000x1000x700	72.3	2021-028N
VSGD-15N	1000x1500x700	83.7	2021-029N
VSGD-21N	900x900x600	73.0	2021-032N



Granite Square Rulers



خط کش گرانیت



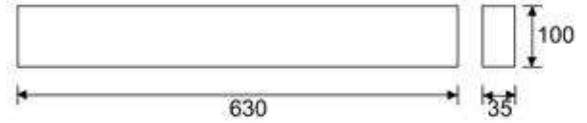
Accuracy:
SQUARENESS 0.002 / 100 mm

Unit: mm

ORDER NO.	SIZE	G.W.(kgs)	CODE NO.
VQR-400	400x400x60	24.8	2021-050
VQR-500	500x500x60	40.2	2021-051



Granite Straight Rulers



Accuracy:
PARALLELISM 0.002 / 100 mm

Unit: mm

ORDER NO.	SIZE	G.W.(kgs)	CODE NO.
VSR-630	630x100x35	8.7	2021-060
VSR-1000	1000x80x50	13.7	2021-061



Granite Triangle Ruler



Accuracy:
SQUARENESS 0.002 / 100 mm

mm

ORDER NO.	Size	Thickness	Weight (kgs)	CODE NO.
VGT-300	300x200	30	5.7	2022-020
VGT-400	400x250	30	8.4	2022-021
VGT-600	600x400	63	27.5	2022-022



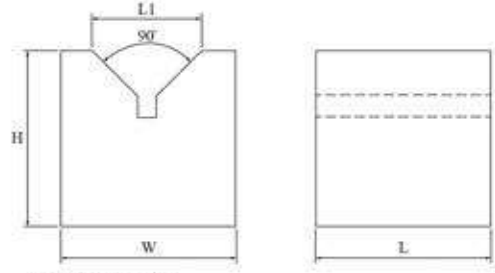
Granite V-Block



وی بلوک گرانیتی



PAIR



Accuracy:

PARALLELISM 0.005 / 100 mm mm

ORDER NO.	CAPACITY Ø		DIMENSION				KGS	CODE NO.
	MIN.	MAX.	H	W	L	L1		
VGV-63	Ø 4	Ø 65	65	65	65	38	1.7	2022-030
VGV-100	Ø 10	Ø 100	100	100	100	62	6.3	2022-031



Horizontal Leveling Instrument



0.02 / 100 mm

- When the bubble is in the center & touch and with in 2 red line, then the surface is leveled.

ORDER NO.	DIMENSION	Weight (kgs)	CODE NO.
VLI-200A	200x46x46	1.96	2022-043
VLI-300A	300x46x45.90	2.78	2022-044



Precision Square Level



0.02 / 100 mm

- When the bubble is in the center & touch and with in 2 red line, then the surface is leveled.

ORDER NO.	DIMENSION	Weight (kgs)	CODE NO.
VSL-200A	200x200x39.5	4.10	2022-053
VSL-300A	300x300x44.6	8.83	2022-054



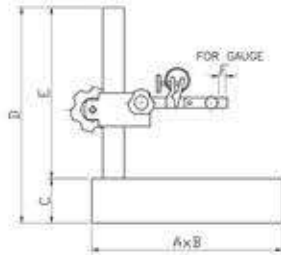
Granite Surface Stand



پایه ساعت گرانیتی



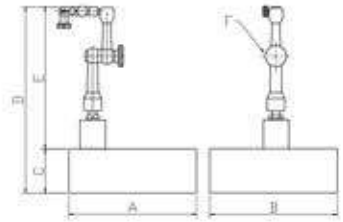
VH-41,42,43



MAX. stroke 60 mm



VH-45,46,47



- THE DIAL GAUGE IS OPTIONAL
- ACCURACY: 0.005/100mm

※ Gauge not included

ORDER NO.	AxB GRANITE PLATE DIEMENSION	C	D	E	F	WEIGHT (kgs)	CODE NO.
VH-41	6" x 6" 150x150 mm	52	252	200	8 mm	6	2022-001A
VH-42	6" x 9" 150x220 mm	52	252	200	8 mm	9	2022-002A
VH-43	9" x 12" 230x300 mm	90	290	200	8 mm	22	2022-003A
VH-45	6" x 6" 150x150 mm	52	185	133	8 mm	6	2022-005
VH-46	6" x 9" 150x220 mm	52	185	133	8 mm	7.9	2022-006
VH-47	9" x 12" 230x300 mm	90	223	133	8 mm	19.1	2022-007

Tester Arm Base

FOR SURFACE PLATE

NEW



For smooth moving on granite / cast iron test surface plate.

- Measuring aid
- Equipped with flexible arm
- For smooth measuring on granite / cast iron surface plate!
- Without dial gauge
- Base fine adjustment
- Bottom high precision finish : 0.02mm tolerance
- Material : Steel
- Single-hand operation
- Great for side measuring
- Reliable 1 knob locking mechanism

2-STEP ROUND SHAPE BASES IS EASY TO MOVE WITH 1 HAND.

EXAMPLE



※ Gauge not included



※ WITHOUT DIAL GAUGE mm

ORDER NO.	BASE (Ø)	MAIN ROD O.D x L	SUB ROD O.L x L	WEIGHT (kgs)	CODE NO.
VTB-120	120	Ø25 x 125	Ø25 x 125	2.65	2022-015



Cleaning Paper



پین گیج



ORDER NO. P-1000(PAPER)
CODE NO.2021-200

SIZE: WIDTH: 240 MM (±1CM)
LENGTH: 350 M, G.W. 11 kgs
PACK: 2 ROLL/CARTON
COLOR: WHITE

ORDER NO. S-1000(STAND)
CODE NO.2021-220

450L x 330W x 800H
G.W. 2.7 kgs

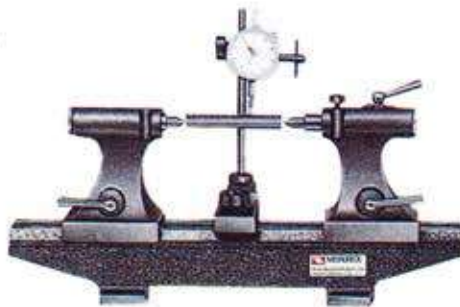


Concentric Test Stand

NEW

• For work shop use only

VCI-400



VCI-200



※ Gauge not included

mm

ORDER NO.	LENGTH	WIDTH	HEIGHT	CENTER DISTANCE	CENTER HEIGHT	WEIGHT (kgs)	CODE NO.
VCI-200	490	90	100	200	145	22	2021-101
VCI-300	530	90	100	300	145	26.8	2021-105
VCI-400	650	90	100	400	145	29.6	2021-102
VCI-600	1000	200	230	600	200	138.5	2021-106



Pin Gauge



EACH 0.01mm FOR ONE STEP SIZE

ORDER NO.	NOMINAL DIMENSION EACH 0.01mm FOR 1 PCS	PCS/SET	WEIGHT (kgs)	CODE NO.
VPG-0B	0.50, 0.51, 0.52~1.00	51	1	2022-060
VPG-1A	1.00, 1.01, 1.02~1.50	51	1	2022-061
VPG-1B	1.50, 1.51, 1.52~2.00	51	1	2022-062
VPG-2A	2.00, 2.01, 2.02~2.50	51	1	2022-063
VPG-2B	2.50, 2.51, 2.52~3.00	51	1	2022-064
VPG-3A	3.00, 3.01, 3.02~3.50	51	1	2022-065
VPG-3B	3.50, 3.51, 3.52~4.00	51	1	2022-066
VPG-4A	4.00, 4.01, 4.02~4.50	51	1.5	2022-067
VPG-4B	4.50, 4.51, 4.52~5.00	51	1.5	2022-068
VPG-5A	5.00, 5.01, 5.02~5.50	51	1.5	2022-069
VPG-5B	5.50, 5.51, 5.52~6.00	51	1.5	2022-070
VPG-6A	6.00, 6.01, 6.02~6.50	51	3.1	2022-071
VPG-6B	6.50, 6.51, 6.52~7.00	51	3.2	2022-072
VPG-7A	7.00, 7.01, 7.02~7.50	51	3.5	2022-073
VPG-7B	7.50, 7.51, 7.52~8.00	51	3.5	2022-074
VPG-8A	8.00, 8.01, 8.02~8.50	51	3.8	2022-075
VPG-8B	8.50, 8.51, 8.52~9.00	51	3.8	2022-076
VPG-9A	9.00, 9.01, 9.02~9.50	51	4	2022-077
VPG-9B	9.50, 9.51, 9.52~10.00	51	4	2022-078
VPG-10A	10.00, 10.01, 10.02~10.50	51	5	2022-079
VPG-10B	10.50, 10.51, 10.52~11.00	51	5	2022-080

FEATURES:

DIAMETER	EACH STEP SIZE	LENGTH	ACCURACY IN DIAMETER	ROUNDNESS TOLERANCE	HARDNESS
0.05~0.09	0.01	5~10	±0.5um	0.5um	HV480
0.10~0.19	0.01	20	±0.5um	0.5um	HV480
0.20~0.99	0.01	40	±1um	0.8um	HV650
1.00~10.00	0.01	50	±1um	0.8um	HV650
10.01~20.00	0.01	50	±1.5um	1.6um	HV650
20.00~30.00	0.01	50	±1.5um	1.6um	HV650

کولیس - میکرومٹر

PRECISION VERNIER CALIPER



L: 150, 200, 300 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VVC-6"	0.02 mm 1/1000"	0.4	2023-001
VVC-8"		0.5	2023-002
VVC-12"		0.8	2023-003

DIGITAL ELECTRONIC CALIPER



L: 150, 200, 300 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VEC-6"	0.01 mm	0.4	2023-010
VEC-8"		0.5	2023-011
VEC-12"		0.8	2023-012

DIAL CALIPER



L: 150, 200, 300 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VDC-6"	0.02 mm	0.4	2023-050
VDC-8"		0.5	2023-051
VDC-12"		0.9	2023-052

OUTSIDE MICROMETER



0 - 25 mm
25 - 50 mm
50 - 75 mm
75 - 100 mm
100-125 mm

INSIDE MICROMETER



5 - 30 mm
25 - 50 mm
50 - 75 mm
75 - 100 mm
100-125 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VOM-0025	0.01 mm	0.3	2023-060
VOM-2550		0.4	2023-061
VOM-5075		0.5	2023-062
VOM-75100		0.6	2023-063

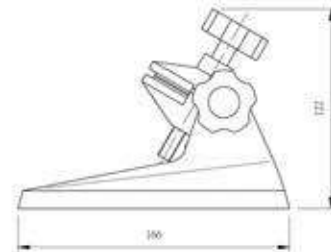
ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VIM-5075	0.01 mm	0.4	2023-067
VIM-75100		0.4	2023-068
VIM-100125		0.42	2023-069

Measuring Instrument



MICROMETER STAND

MAX. OPENED
17mm



166x110x122 mm

ORDER NO.	WEIGHT(kg)	CODE NO.
VH-19	1.3	2023-090



Measuring Instrument



ساعت اندیکاتور

DIAL INDICATOR



0.01-10 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VDI-1	0.01 mm	0.3	2023-020

DIAL TEST INDICATOR

NIDDLE TYPE



0.01-0.8 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VDI-0.8A	0.01 mm	0.2	2023-070

HEIGHT VERNIER CALIPER



H: 300, 450, 500, 600

ORDER NO	1 SCALE	WEIGHT (kgs)	CODE NO.
VHG-12	0.02 mm	4	2023-034
VHG-18		11.9	2023-035
VHG-20		10.7	2023-036
VHG-24		11.8	2023-037

HEIGHT DIAL CALIPER



H: 300, 600 mm

ORDER NO.	1 SCALE	WEIGHT (kgs)	CODE NO.
VHD-12	0.01 mm	4	2023-080
VHD-24		9.4	2023-081



Measuring Instrument

MICROMETER HEAD



ORDER NO.	SCALE x L	WEIGHT(kg)	CODE NO.
VMH-25	0.01x25 mm	0.2	2023-040



VAL-60



VAL-50



VAL-30



VAL-10



VAL-20

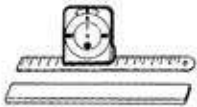
Oil Type Protractor With Magnets

ORDER NO.	LxWxH	BASE	ACU	WEIGHT (kg)	CODE NO.
VAL-10	78x62x14mm	ABS	0.2°	0.2	2033-100
VAL-30	93x79x15mm	ABS	0.1°	0.2	2033-101
VAL-50	93x79x16mm	METAL	0.083°	0.4	2033-102
VAL-60	140x130x20mm	METAL	0.05°	1	2033-103
VAL-20	70x65x30mm	ABS	0.2°	0.2	2033-104
	13mm ¹ / ₂ "x3M/10'				

- The pointer is rotating in a hydraulic oil for stable, precise and error-eliminating reading, even to a differential subgraduation less than one degree. The two pointers or the vernier versus the annular graduations are read super imposedly with minimum reading error.
- Double annular graduations are provided for preventing visual reading error.
- The transparent temperature-resistant oil may visually amplify the pointer for a better optical reading.
- The double-rail magnet may attract this angle level on a round pipe or a surface of ferrous material.
- An extension rule could be inserted into the bottom slot for measurement and drawing line for wider area.

1. RESET: For setting a pseudo-horizon, upon which a new angle on the pseudo-horizon can be directly measured.
2. DOUBLE CHECK: Double annular graduations provided for calibrating either positive or negative degrees.

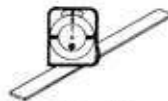
MULTI-FUNCTION ANGLE LEVEL



A Thin iron plate (The magnet power the thicker the weaker) may be attracted under the angle level for wider measurement.



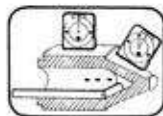
Inserting a straight extension rule into a bottom slot if the angle level.



Attracting the angle level on an iron plate for measuring an angle inside a tank.



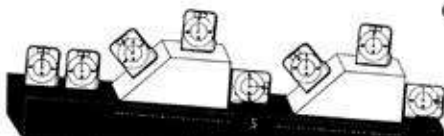
1. Suitable for working machines



2. Grinding machine



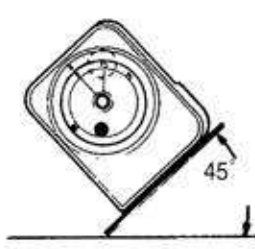
3. Out & inner cone angle



A standard angle block laid on a Non-horizontal Plane showing several measured positions by this angle level.

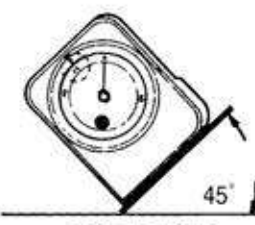
Finding an angle

Align the movable degree scale 0° reading, in line with the fixed vernier, 0° mark. Set your instrument's bottom surface on the object to be measured. Your reading off the pointer is your angle of inclination from 0°



Setting Specific angles

Align the desired angle on the movable scale to the vernier 0° mark. Tilt the instrument until the pointer is aligned with the 0° mark.



OVERLAP



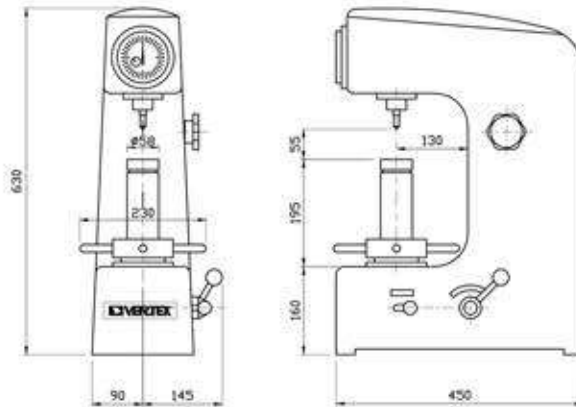
Hardness Tester

ORDER NO.VHT-260 CODE NO.2033-201



سختی سنج

NEW



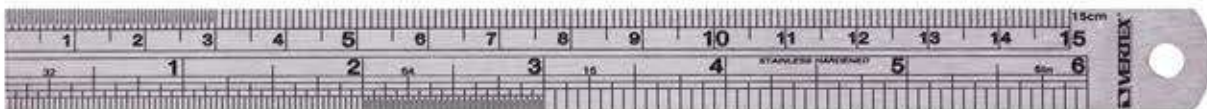
- Swing 260mm
- Workpiece max. height : 170mm
- L x W x H : 466 x 238 x 630 mm
- Weight : 86.2 kgs
- 3 pressure degree : 60, 100, 150 kgs
- Rockwell scale : HRA>70
HRB 30 - 100
HRC 20 - 67

ACCESSORIES :

- Diamond tester x 1
- Steel ball tester x 1
- Flat testing table x 2
- Prisma testing table x 1
- Rockwell standard manual x 1

Stainless Steel Ruler

NEW



- Scale : acid - etched,engraved
- Surface treatment : polished finishing.

ORDER NO.	SIZE	DIMENSION(mm)	N.W.(kg)	CODE NO.
VSR-150	6"/15 cm	170x14.7x0.6	0.015	2033-321
VSR-200	8"/20 cm	226x20.0x0.6	0.03	2033-322
VSR-300	12"/30 cm	334x23.7x1.0	0.06	2033-323

Thread Size & Depth Gauge



رینگ گیج

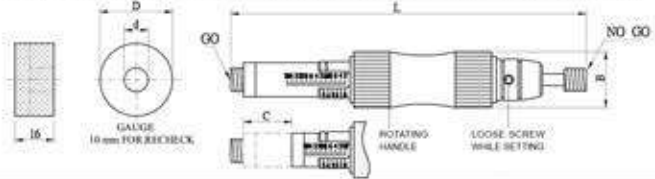
NEW



GO

NO GO

- INSTANT RESULT, QUICK READING
- THREAD PLUG GAUGE CHECK SIZE BY GO / ØD mm STD ACTION & THREAD DEPTH.
- RING GAUGE TO SET O POINT BEFORE USE
- 1 MARK : 0.2 mm, M3 x 0.5-6H H IS GRADE.
- ALLOW TO PRESET THE DESIRED THREAD DEPTH



ORDER NO.	SPECIFICATION					C MEASURING Depth(mm)	WEIGHT (kg)	CODE NO.
	A	B	L	D	d			
VSD-M3	M3x0.5-6H	17	102	Ø30	Ø3.3	8	0.12	2022-400
VSD-M4	M4x0.7-6H	17	102	Ø30	Ø4.3	8	0.12	2022-401
VSD-M5	M5x0.8-6H	17	114	Ø30	Ø5.5	20	0.14	2022-402
VSD-M6	M6x1-6H	17	114	Ø30	Ø6.5	20	0.14	2022-403
VSD-M8	M8x1.25-6H	23	140	Ø30	Ø10	26	0.2	2022-404
VSD-M10	M10x1.5-6H	23	140	Ø30	Ø10.5	26	0.2	2022-405

Plug Gauge

NEW



The metric thread plug gauge & ring gauge
● Plug Gauge conform to DIN13 / DIN2280.

The Metric Thread Plug Gauge In Coarse Thread

Unit : mm

ORDER NO.	Size (mm)	Weight (kg)	CODE NO.	ORDER NO.	Size (mm)	Weight (kg)	CODE NO.
VPG-3M	M3 x 0.5P	0.03	2033-340	VPG-18M	M18 x 2.5P	0.19	2033-349
VPG-4M	M4 x 0.7P	0.03	2033-341	VPG-20M	M20 x 2.5P	0.24	2033-350
VPG-5M	M5 x 0.8P	0.03	2033-342	VPG-22M	M22 x 2.5P	0.24	2033-351
VPG-6M	M6 x 1.0P	0.04	2033-343	VPG-24M	M24 x 3.0P	0.28	2033-352
VPG-8M	M8 x 1.25P	0.07	2033-344	VPG-27M	M27 x 3.0P	0.34	2033-353
VPG-10M	M10 x 1.5P	0.07	2033-345	VPG-30M	M30 x 3.5P	0.40	2033-354
VPG-12M	M12 x 1.75P	0.11	2033-346	VPG-33M	M33 x 3.5P	0.66	2033-355
VPG-14M	M14 x 2.0P	0.12	2033-347	VPG-36M	M36 x 4.0P	0.71	2033-356
VPG-16M	M16 x 2.0P	0.12	2033-348				

Ring Gauge

GO TYPE

NEW



The metric thread plug gauge & ring gauge
● Ring Gauge conform to DIN13 / DIN2285.

Standard Size The Metric Thread Ring Gauge In Coarse Thread

Unit : mm

ORDER NO.	Size (mm)	Weight (kg)	CODE NO.
VRG-3	M3 x 0.5P	0.04	2033-370
VRG-4	M4 x 0.7P	0.04	2033-371
VRG-5	M5 x 0.8P	0.04	2033-372
VRG-6	M6 x 1.0P	0.07	2033-373
VRG-8	M8 x 1.25P	0.08	2033-374
VRG-10	M10 x 1.5P	0.09	2033-375
VRG-12	M12 x 1.75P	0.15	2033-376
VRG-14	M14 x 2.0P	0.15	2033-377
VRG-16	M16 x 2.0P	0.20	2033-378
VRG-18	M18 x 2.5P	0.24	2033-379
VRG-20	M20 x 2.5P	0.24	2033-380
VRG-22	M22 x 2.5P	0.42	2033-381
VRG-24	M24 x 3.0P	0.42	2033-382
VRG-27	M27 x 3.0P	0.51	2033-383
VRG-30	M30 x 3.5P	0.56	2033-384
VRG-33	M33 x 3.5P	0.72	2033-385
VRG-36	M36 x 4.0P	0.78	2033-386



SET TYPE

DIN 6499



COLLET KITS STANDARD TYPE

ORDER NO.	TYPE	COLLET SIZE INSIDE DIA.	PCS/SET	KGS/PACKING	CODE NO.
V-08000	ER-8	1+0.5-5mm(1,1.5,2,2.5,3,3.5,4,4.5,5mm)	9PCS	1.065(C)	3001-101
V-11000	ER-11	1-7mm(1,2,3,4,5,6,7mm)	7PCS	1.075(C)	3002-101
V-11013		1+0.5-7mm(1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7mm)	13PCS	0.3(C)	3002-102
V-16000	ER-16	1-10mm(1,2,3,4,5,6,7,8,9,10mm)	10PCS	0.7(C)	3003-101
V-16008		3-10mm(3,4,5,6,7,8,9,10mm)	8PCS	0.6(C)	3003-102
V-20000	ER-20	2-13mm(2,3,4,5,6,7,8,9,10,11,12,13mm)	12PCS	0.9(C)	3004-101
V-20008		4-13mm(4,5,6,7,8,9,10,11,12,13mm)	10PCS	0.8(C)	3004-102
V-25000	ER-25	2-16mm(2,3,4,5,6,7,8,9,10,11,12,13,14,15,16mm)	15PCS	1.3(W)	3005-101
V-25008		4-16mm(4,5,6,7,8,9,10,11,12,13,14,15,16mm)	13PCS	1.0(W)	3005-102
V-25009		6,8,10,12,16mm	5PCS	1.325(C)	3005-103
V-25010		4,6,8,10,12,14,16mm	7PCS	0.35(C)	3005-104
V-32000	ER-32	3-20mm(3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20mm)	18PCS	3.3(P)	3006-101
V-32008		4,5,6,8,10,12,13,15,16,18,20mm	11PCS	2.8(C)	3006-102
V-32009		6,8,10,12,16,20mm	6PCS	0.9(C)	3006-103
V-40000	ER-40	4-26mm(4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26mm)	23PCS	6.5(P)	3007-101
V-40008		4,5,6,8,10,12,13,15,16,18,20,21,22,25,26mm	15PCS	4.2(P)	3007-102
V-40009		6,8,10,12,16,20,25mm	7PCS	2.0(P)	3007-103
V-50000	ER-50	12,14,16,18,20,22,24,26,28,30,32,34mm	12PCS	6.5(P)	3008-101

ER Spring Collet Chuck System

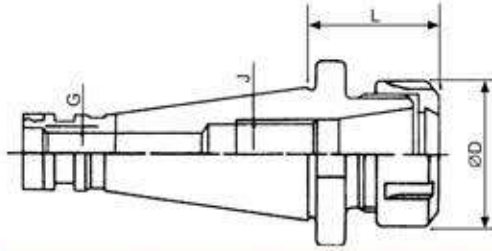
Collet Chuck Kit With ISO Taper Shank DIN 2080/ISO SHANK

DIN 6499

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NT-40



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ORDER NO.	TAPER	COLLET TYPE	L	D	G	WEIGHT KGS	CODE NO.
V-101	NT-30	ER-32	55	50	1/2"-12W, M12X1.75P (USA 1/2"-UNC13)	0.7	3020-301
V-102		ER-40	70	63		1.1	3020-302
V-103	NT-40	ER-32	50	60	5/8"-11W or M16X2.0P	1.1	3021-301
V-104		ER-40	60	63		1.3	3021-302
V-105		ER-50	80	78		2	3021-303
V-106	NT-50	ER-32	60	50	1"-8W or M24X3.0P	3.1	3022-301
V-107		ER-40	65	63		3.4	3022-302
V-108		ER-50	65	78		4	3022-303
※ V-109	NT-30	ER-25	55	42	1/2"-12W, M12X1.75P	0.7	3020-303
※ V-110	NT-40	ER-25	50	42	5/8"-11W, M16X2.0P	1.1	3021-304



NT-30

Collet Chuck kit With ISO Taper Shank

Including shank, full set of collets, wrench and case.

Caution:

Please notify the taper size, collete type, set range, and set numbers when ordering.



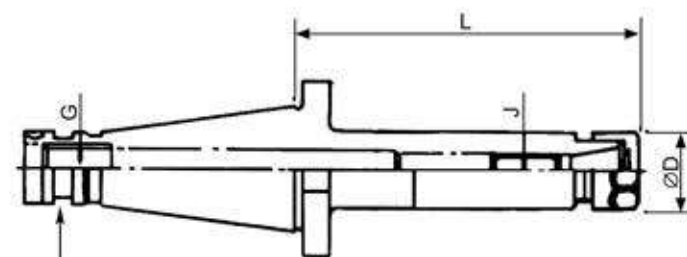
ORDER NO.	TAPER	COLLET TYPE	SET RANGE	SET PCS	WEIGHT KGS	CODE NO.
V-201	NT-30	ER-32	3-20	18	4.2	3020-401
V-202			4-20	11	3.2	3020-402
V-203			6-20	6	2.8	3020-403
V-204	NT-30	ER-40	4-26	23	7.3	3020-404
V-205			4-26	15	6	3020-405
V-206			6-25	7	4.6	3020-406
V-207	NT-40	ER-32	3-20	18	4.8	3021-401
V-208			4-20	11	3.8	3021-402
V-209			6-20	6	3.4	3021-403
V-210	NT-40	ER-40	4-26	23	8.2	3021-404
V-211			4-26	15	6.9	3021-405
V-212			6-25	7	5.2	3021-406
V-213	NT-40	ER-50	12-34	12	10	3021-407
V-214	NT-50	ER-32	3-20	18	6.4	3022-401
V-215			4-20	11	5.4	3022-402
V-216			6-20	6	5.5	3022-403
V-217	NT-50	ER-40	4-26	23	9.8	3022-404
V-218			4-26	15	8.5	3022-405
V-219			6-25	7	7	3022-406
V-220	NT-50	ER-50	12-34	12	11	3022-407
※ V-223	NT-30	ER-25	2-16	7	2.8	3020-407
※ V-224			4-16	15	2.4	3020-408
※ V-225	NT-40	ER-25	2-16	7	3.3	3021-409
※ V-226			4-16	15	3.0	3021-410

ER Spring Collet Chuck System

Extended Collet Holder With ISO Shank
DIN 2080/ISO SHANK EXTENDED CHUCK

DIN 6499

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NT40 WITH MAHO GROOVE



ORDER NO.	TAPER	COLLET TYPE	L	D	G	WEIGHT KG	CODE NO.
V-231	NT-30	ER-16	76	28	1/2"-12W, M12X1.75P (USA 1/2"-UNC13)	0.6	3020-304
V-232	NT-40	ER-16	76	28	5/8"-11W or M16X2.0P	1.1	3021-314
V-233		ER-16	100	28		1.2	3021-305
V-234	NT-40	ER-20	76	34	5/8"-11W or M16X2.0P	1.2	3021-306
V-235		ER-20	100	34		1.4	3021-307



Extended Collet Chuck Kit With ISO Shank

Including shank, full set of collets, wrench and case

Caution:

Please notify the taper size, collete type, set range, and set numbers when ordering.



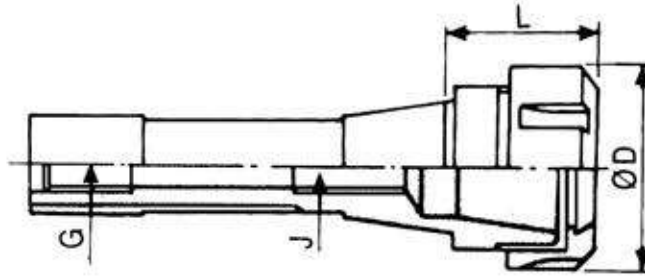
ORDER NO.	TAPER	COLLET TYPE	RANGE	PCS/SET	L	WEIGHT KGS	CODE NO.
V-241	NT-30	ER-16	1-10	10	76	1.9	3020-409
V-242			3-10	8		1.8	3020-410
V-242A	NT-30	ER-20	2-13	12	76	1.8	3020-411
V-243	NT-40	ER-16	1-10	10	76	2.2	3021-411
V-244			3-10	8		2.1	3021-412
V-245		ER-16	1-10	10	100	2.4	3021-413
V-246			3-10	8		2.3	3021-414
V-247	NT-40	ER-20	2-13	12	76	2.3	3021-415
V-248			4-13	10		2.2	3021-416
V-249		ER-20	2-13	12	100	2.6	3021-417
V-250			4-13	10		2.5	3021-418

ER Spring Collet Chuck System

Collet Holders With R-8 shank

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R-8 SHANK



ORDER NO.	TAPER	COLLET TYPE	L	D	G	WEIGHT KG	CODE NO.
V-301	R8	ER-16	38	28	7/16"X20 UNF	0.5	3027-301
V-302		ER-32	40	50	7/16"X20 UNF	0.8	3027-302
V-303		ER-40	70	63	7/16"X20 UNF	1.3	3027-303



Collet Chuck Kit With R-8 Shank

Including shank, full set of collets, wrench and case. (ER16 no Wrench)

Caution:

Please notify the taper size, collete type, set range, and set numbers when ordering.



ORDER NO.	TAPER	COLLET TYPE	SET RANGE	SET PCS	WEIGHT KGS	CODE NO.
V-311	R8	ER16	1-10	10	1.5(W)	3027-401
V-312			3-10	8	1.45(P)	3027-402
V-313		ER32	3-20	18	4.3(P)	3027-403
V-314			4-20	11	3.2(P)	3027-404
V-315			6-20	6	2.9(P)	3027-405
V-316		ER40	4-26	23	7.3(P)	3027-406
V-317			4-26	15	6.1(P)	3027-407
V-318			6-25	7	4.6(P)	3027-408

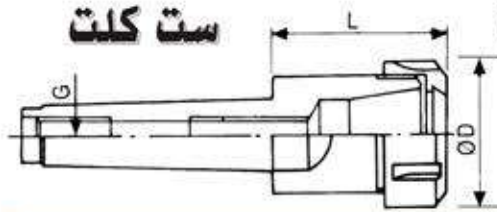


ER Spring Collet Chuck System

Collet Holders With Morse Taper Shank

DIN 6499 DIN 228

MT-SHANK
MT / MK



NEW

ORDER NO.	TAPER	COLLET TYPE	L	D	G	WEIGHT KGS	CODE NO.
V-401	MT2	ER16	40	28	3/8"-16W or M10X1.5P	0.2	3023-301
V-402		ER20	43	34		0.3	3023-302
V-403		ER25	47	42		0.4	3023-303
V-404	MT3	ER16	40	28	3/8"-16W or 1/2"-12W M10X1.5P, M12X1.75P USA 1/2"-UNC13	0.3	3024-301
V-405		ER32	70	50		0.8	3024-302
V-406		ER40	80	63		1.1	3024-303
NEW V-451	MT3	ER20	43	34	1/2"-12NC or M12X1.75P	0.3	3024-304
V-452		ER25	47	42		0.5	3024-305
V-407	MT4	ER32	60	50	5/8"-11W or M16X2.0P	1	3025-301
V-408		ER40	82	63		1.4	3025-302
V-409		ER50	85	78		2.2	3025-303
V-410	MT5	ER40	82	63	1"-8W or M24X3.0P	2.1	3026-301
V-411		ER50	85	78		2.9	3026-302

Collet Chuck Kit With Morse Taper Shank

Including shank, full set of collets, wrench and case.

(ER16, ER20 no Wrench)

1. ER16,20,25 Packed in Wooden Box(W)

2. ER32,40,50, Packed in Plastic Box(P)

Caution:

Please notify the taper size, collet type, set range, and set numbers when ordering.



NEW

ORDER NO.	TAPER	COLLET TYPE	SET RANGE	SET PCS	WEIGHT KGS.	CODE NO.
V-412	MT2	ER16	1-10	10	1.05	3023-401
V-413			3-10	8	1	3023-402
V-414	MT2	ER20	2-13	12	1.3	3023-403
V-415			4-13	10	1.2	3023-404
V-416	MT2	ER25	2-16	15	2.4	3023-405
V-418			4-16	7	1.3	3023-407
V-419	MT3	ER16	1-10	10	1.5	3024-401
V-420			3-10	8	1.1	3024-402
V-441	MT3	ER20	2-13	12	1.35	3023-408
V-442			4-13	10	1.3	3023-409
V-443	MT3	ER25	2-16	15	2.5	3023-410
V-444			4-16	7	2.1	3023-411
V-421	MT3	ER32	3-20	18	4.1	3024-403
V-422			4-20	11	3	3024-404
V-423			6-20	6	2.7	3024-405
V-424	MT3	ER40	4-26	23	7.2	3024-406
V-425			4-26	15	6	3024-407
V-426			6-25	7	4.5	3024-408
V-427	MT4	ER32	3-20	18	4.3	3025-401
V-428			4-20	11	3.2	3025-402
V-429			6-20	6	2.9	3025-403
V-430	MT4	ER40	4-26	23	7.3	3025-404
V-431			4-26	15	6.1	3025-405
V-432			6-25	7	4.6	3025-406
V-433	MT4	ER50	12-34	12	9	3025-407
V-434	MT5	ER40	4-26	23	8.2	3026-401
V-435			4-26	15	6.9	3026-402
V-436			6-25	7	5.4	3026-403
V-437	MT5	ER50	12-34	12	9.5	3026-404

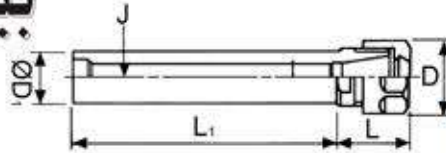


ER Spring Collet Chuck System VERTEX®

Collet Holders With Straight Shank

DIN6499 STRAIGHT SHANK

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METRIC SIZE

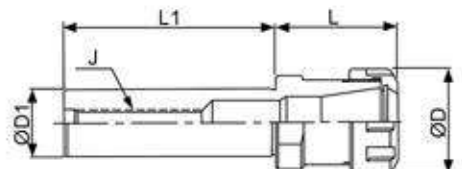
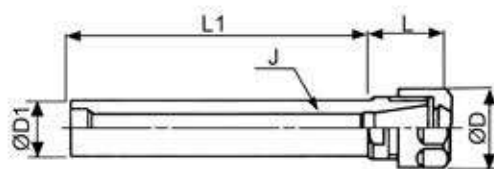
ORDER NO.	COLLET TYPE	SHANK D1XL1	L	D	J	KGS	CODE NO.
V-530	ER11	Ø16X50	21	19	M6	0.1	3007-300
V-531		Ø16X100	21	19	M6	0.2	3007-311
V-532		Ø16X150	21	19	M6	0.3	3007-312
V-501A	ER16	Ø16X100	21	28	M10	0.3	3003-301A
V-501	ER16	Ø20X50	30	28	M10	0.2	3003-301
V-502		Ø20X100	30	28	M10	0.3	3003-302
V-503		Ø20X150	30	28	M10	0.4	3003-303
V-504	ER16	Ø25X100	30	28	M10	0.5	3003-304
V-504A		Ø25X50	30	28	M10	0.3	3003-306
V-505		Ø25X150	30	28	M10	0.7	3003-305
V-505A		Ø25X200	30	28	M10	0.5	3003-307
V-506	ER20	Ø20X50	36	34	M12	0.3	3004-301
V-507		Ø20X100	36	34	M12	0.3	3004-302
V-508		Ø20X150	36	34	M10	0.5	3004-303
V-509	ER20	Ø25X150	36	34	M10	0.7	3004-304
V-509A		Ø25X100	36	34	M12	0.5	3004-305
V-509B		Ø25X50	36	34	M12	0.3	3004-306
V-510	ER25	Ø20X50	46	42	M12	0.4	3005-301
V-511		Ø20X100	46	42	M12	0.5	3005-302
V-512		Ø20X150	46	42	M12	0.6	3005-303
V-513	ER25	Ø25X100	46	42	M12	0.6	3005-304
V-514		Ø25X150	46	42	M12	0.7	3005-305
V-515		Ø32X60	46	42	M12	0.6	3005-306
V-516	ER32	Ø25X80	54	50	M12	0.8	3006-301
V-517		Ø32X100	54	50	M12	1.1	3006-302
V-517A		Ø32X150	54	50	M12	1.5	3006-305
V-518		Ø40X100	54	50	M12	1.4	3006-303
V-523	ER40	Ø32X100	55	63	M16	1.5	3007-302
V-524		Ø40X100	55	63	M16	1.8	3007-303



NEW

With Flat Shank

NEW



INCH SIZE

ORDER NO.	COLLET TYPE	SHANK D1XL1	L	D	J	KGS	CODE NO.
V-571	ER16	ST 5/8" X 4"	36	28	3/8"-16	0.2	3003-320
V-572		ST 3/4" X 4"	32			0.24	3003-321
V-573		ST 3/4" X 6"	32			0.32	3003-322
V-574		ST 1" X 4"	32			0.35	3003-323
V-575	ER20	ST 3/4" X 4"	34	34	3/8"-16	0.25	3004-320
V-576		ST 3/4" X 6"	34			0.33	3004-321
V-577		ST 1" X 4"	34			M12	0.36
V-578	ER32	ST 1" X 3"	58	50	M12	0.5	3006-320
V-579		ST 1-1/4" X 4"	58			0.6	3006-321



ER Spring Collet Chuck System

DIN 6499 STRAIGHT SHANK

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Collet Chuck Kit With Straight Shank

Including shank, full set of collets, wrench and case.



COLLET CHUCK SETS

ORDER NO.	SHANK D1XL1	COLLET TYPE	SET RANGE	SET PCS	KGS	CODE NO.
V-601	Ø20X50L	ER16	1-10	10	0.9	3003-401
V-602	Ø20X50L		3-10	8	0.8	3003-402
V-603	Ø20X100L		1-10	10	1	3003-403
V-604	Ø20X100L		3-10	8	0.9	3003-404
V-605	Ø20X150L		1-10	10	1.1	3003-405
V-606	Ø20X150L		3-10	8	0.5	3003-406
V-607	Ø25X100L	ER16	1-10	10	1.1	3003-407
V-607A	Ø25X50L		1-10	10	1.1	3003-411
V-608	Ø25X100L		3-10	8	1.1	3003-408
V-608A	Ø25X50L		3-10	8	1.1	3003-412
V-609	Ø25X150L		1-10	10	1.3	3003-409
V-610	Ø25X150L		3-10	8	1.3	3003-410
V-611	Ø20X50L	ER20	2-13	12	1.2	3004-401
V-612	Ø20X50L		4-13	10	1.2	3004-402
V-613	Ø20X100L		2-13	12	1.2	3004-403
V-614	Ø20X100L		4-13	10	1.2	3004-404
V-615	Ø20X150L		2-13	12	1.4	3004-405
V-616	Ø20X50L		4-13	10	1.3	3004-406
V-615A	Ø25X50L	ER20	2-13	12	1.3	3004-409
V-616A	Ø25X50L		4-13	10	1.3	3004-410
V-617	Ø25X100L		2-13	12	1.4	3004-407
V-617A	Ø25X150L		2-13	12	1.5	3004-411
V-618	Ø25X100L		4-13	10	1.4	3004-408
V-618A	Ø25X150L		4-13	10	1.5	3004-412
V-619	Ø20X50L	ER25	2-16	15	2.2	3005-401
V-621	Ø20X50L		4-16	7	1.7	3005-403
V-622	Ø20X100L		2-16	15	2.3	3005-404
V-624	Ø20X100L		4-16	7	1.8	3005-406
V-625	Ø20X150L		2-16	15	2.4	3005-407
V-627	Ø20X150L		4-16	7	2	3005-409
V-628	Ø25X100L	ER25	2-16	15	2.3	3005-410

ORDER NO.	SHANK D1XL1	COLLET TYPE	SET RANGE	SET PCS	KGS	CODE NO.
V-681	Ø16X50L	ER11	1-7	13	0.5	3002-401
V-682	Ø16X50L		1-7	7	0.5	3002-402
V-683	Ø16X100L	ER11	1-7	13	0.6	3002-403
V-684	Ø16X100L		1-7	7	0.5	3002-404

ORDER NO.	SHANK D1XL1	COLLET TYPE	SET RANGE	SET PCS	KGS	CODE NO.
V-630	Ø25X100L	ER25	6-16	7	2	3005-412
V-631	Ø25X150L		2-16	15	2.6	3005-413
V-633	Ø25X150L		6-16	7	1.9	3005-415
V-634	Ø32X60L	ER25	2-16	15	2.5	3005-416
V-636	Ø32X60L		6-16	7	1.9	3005-418
V-637	Ø25X80L	ER32	3-20	18	4.1	3006-401
V-638	Ø25X80L		4-20	11	3	3006-402
V-639	Ø25X80L		3-20	6	2.7	3006-403
V-640	Ø32X100L	ER32	4-20	18	4.3	3006-404
V-641	Ø32X100L		6-20	11	3.2	3006-405
V-642	Ø32X100L		6-20	6	2.9	3006-406
V-643	Ø40X100L	ER32	3-20	18	4.6	3006-407
V-644	Ø40X100L		4-20	11	3.5	3006-408
V-645	Ø40X100L		6-20	6	3.2	3006-409
V-646	Ø1"X3L	ER32	3-20	18	4.1	3006-410
V-647	Ø1"X3L		4-20	11	3	3006-411
V-648	Ø1"X3L		6-20	6	2.9	3006-412
V-658	Ø32X100L	ER40	4-26	23	7.3	3007-404
V-659	Ø32X100L		4-26	15	6.1	3007-405
V-660	Ø32X100L		6-25	7	4.6	3007-406
V-661	Ø40X100L	ER40	4-26	23	7.6	3007-407
V-662	Ø40X100L		4-26	15	6.5	3007-408
V-663	Ø40X100L		6-25	7	5	3007-409

- V-603, V-604 are the most popular item.
- THE ER-20/25/32/40 ARE TO BE CONTINUED
- V-613, V-614 are the most popular item.

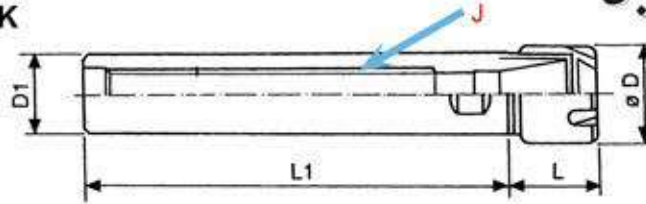
ER Spring Collet Chuck System VERTEX®

MINI TYPE STRAIGHT SHANK HOLDER

DIN 6499 MINI
STRAIGHT SHANK

NEW

ست بیسی کلت



MINI TYPE NUT

COLLET HOLDER (MINI TYPE)

ORDER NO.	COLLET TYPE	SHANK D1XL1	D	L	J	KGS	CODE NO.
V-541	ER8M	ST08X50L	12	24		0.04	3001-290
V-542		ST10X50L		19		0.05	3001-291
V-543		ST10X80L		19		0.07	3001-292
V-544	ER8M	ST12X50L	12	14		0.05	3001-293
V-545		ST12X100L		14		0.09	3001-294
V-546		ST12X150L		14		0.12	3001-295
V-551	ER11M	ST16X50L	16	22	M6	0.1	3011-301
V-552		ST16X100L	16			0.2	3011-302
V-552A		ST16X150L	16			0.3	3011-303
V-553	ER16M	ST20X50L	22	32	M10	0.2	3012-301
V-554		ST20X100L	22			0.3	3012-302
V-555		ST20X150L	22			0.4	3012-303
V-555A		ST20X200L	22			0.4	3012-307
V-556	ER20M	ST20X50L	28	33	M12	0.2	3013-301
V-557		ST20X100L	28			0.3	3013-302
V-558		ST20X150L	28			0.4	3013-303
V-559	ER20M	ST25X100L	28	33	M12	0.4	3013-304
V-560		ST25X150L	28			0.6	3013-305
V-561	ER16M	ST16X100L	22	22	M10	0.2	3012-304
V-562	ER16M	ST25X100L	22	22	M10	0.4	3012-305
V-563		ST25X150L	22			0.6	3012-306
V-563A		ST25X200L	22			0.5	3012-308
V-557A	ER20M	ST20X200L	28	35	M10	0.4	3013-306
V-560A		ST25X200L	28			0.5	3013-307

* For the 50L A side of the shank is milled has flate surface.

Collet Chuck Kit With Straight Shank

Including shank,
full set of collets,
wrench and case.



MINI TYPE

ORDER NO.	SHANK D1XL1	COLLET TYPE	SET RANGE	SET PCS	KGS	CODE NO.
V-691A	ST16X50L	ER11M	1-7	7	0.5	3011-401
V-691B	ST16X50L		1-7	13	0.5	3011-402
V-692A	ST16X100L	ER11M	1-7	7	0.6	3011-403
V-692B	ST16X100L		1-7	13	0.6	3011-404
V-693A	ST20X50L	ER16M	1-10	10	0.7	3012-401
V-693B	ST20X50L		3-10	8	1.0	3012-402
V-693C	ST16X100L	ER16M	1-10	10	0.6	3012-407
V-694A	ST20X100L	ER16M	1-10	10	0.9	3012-403
V-694B	ST20X100L		3-10	8	1.1	3012-404
V-695A	ST20X150L		1-10	10	1.3	3012-405
V-695B	ST20X150L	ER16M	3-10	8	1.2	3012-406
V-695C	ST25X100L		1-10	10	1.2	3012-408
V-695D	ST25X150L	ER16M	1-10	10	1.4	3012-409
V-696A	ST20X50L		ER20M	2-13	12	1.3
V-696B	ST20X50L	4-13		10	1.2	3013-402
V-697A	ST20X100L	2-13		12	1.1	3013-403
V-697B	ST20X100L	4-13		10	1.1	3013-404
V-698A	ST20X150L	2-13		12	1.2	3013-405
V-698B	ST20X150L	4-13		10	1.2	3013-406
V-698C	ST25X100L	ER20M	2-13	12	1.4	3013-407
V-698D	ST25X150L		2-13	12	1.5	3013-408



MINI TYPE NUT



Clamping Nuts For Collets

ER CLAMPING NUT SYSTEM

DIN 6499



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ER20M



ER16M



ER11MS



ER40KM
WITH A BEARING



ER40UM



ER16UM

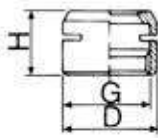


FIG.1 ER11,16,20MS

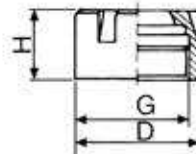


FIG.2 ER11,16,20M
ER8M, 25M

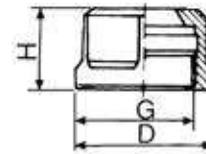


FIG.3 ER11,16,20UM

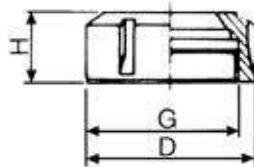


FIG.4 ER25,32,40,50UM

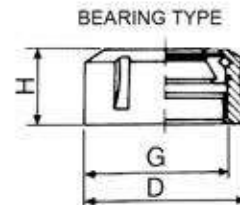


FIG.5 ER40,50KM



CLAMPING NUTS

ORDER NO.	Fig.	COLLET TYPE	D	H	G	WEIGHT KG.	CODE NO.
V-800	3	ER11UM	19	11.5	M14X0.75P	0.04	3015-001
V-801	3	ER16UM	28	17	M22X1.5P	0.05	3015-002
V-802	3	ER20UM	34	19	M25X1.5P	0.09	3015-003
V-803	4	ER25UM	42	20	M32X1.5P	0.13	3015-004
V-804	4	ER32UM	50	23	M40X1.5P	0.14	3015-005
V-805	4	ER40UM	63	25	M50X1.5P	0.25	3015-006
V-806	4	ER50UM	78	35	M64X2.0P	0.5	3015-007
V-807	1	ER11MS	16	12	M13X0.75P	0.008	3015-008
V-808	2	ER16M	22	18	M19X1.0P	0.03	3015-009
V-809	2	ER20M	28	19	M24X1.0P	0.045	3015-010
V-810A	5	ER40KM	63	29	M50X1.5P	0.3	3015-011
V-810B	5	ER50KM	78	40	M64X2.0P	0.58	3015-012
V-810C	2	ER11M	16	12	M13X0.75P	0.02	3015-013
V-810D	2	ER8M	12	10.8	M10X0.75P	0.05	3015-014
V-810E	2	ER25M	35	20	M30X1.0P	0.05	3015-015
V-811A		ER16MS	22	18	M19X1.0P	0.02	3015-016
V-811B		ER20MS	28	19	M24X1.0P	0.035	3015-017



Clamping Wrench For Collets VERTEX®

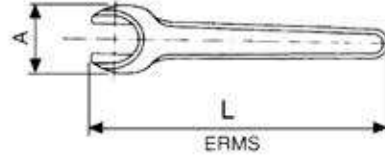
ER WRENCH SYSTEM

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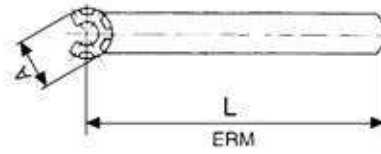
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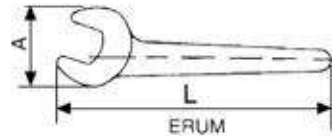
ERMS



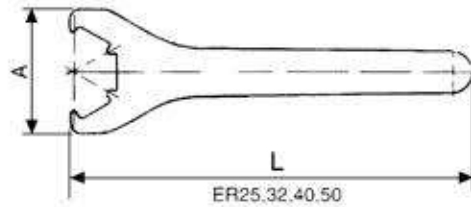
ERM



ERUM11, 16, 20



ERUM25, 32, 40, 50



ORDER NO.	TYPE	A	L	KGS	CODE NO.
V-820	ER11UM	35	135	0.07	3015-100
V-821	ER11MS	22	100	0.07	3015-101
V-822	ER11M	17	95	0.05	3015-102
V-823	ER16M	22.5	118	0.06	3015-103
V-815	ER16UM	44	140	0.08	3015-104
V-824	ER20M	28	130	0.08	3015-105
V-816	ER20UM	53	170	0.1	3015-106
V-811	ER25UM	65	210	0.2	3015-107
V-812	ER32UM	75	250	0.4	3015-108
V-813	ER40UM	90	290	0.5	3015-109
V-814	ER50UM	110	350	0.9	3015-110
V-817	ER8M	13	75	0.04	3015-111
V-818	ER25M	36.5	135	0.1	3015-112
V-825	ER40KM	90	290	0.5	3015-113
V-826	ER50KM	110	350	0.9	3015-114
V-827	ER16MS	32	120	0.12	3015-115
V-828	ER20MS	38	150	0.15	3015-116



ER Spring Collet Chuck System

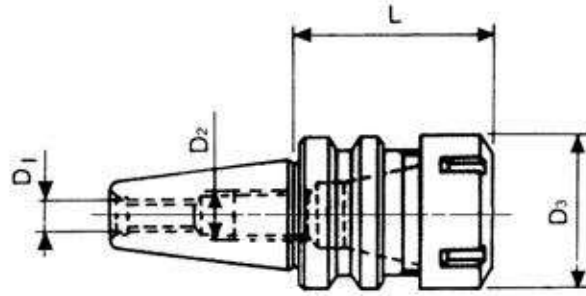
Collet Holders With BT Taper Shank
(For CNC Machine Center)
ER-32 ER-40

MAS403 BT-SHANK

کلت پر چاک



ACCURACY
RUNOUT 0.005mm
TAPER SHANK AT-3
R.P.M. 7000



ORDER NO.	TAPER	COLLET TYPE	D1	D2	D3	L	KGS	CODE NO.
V-700	BT30	ER32	M12	M12X1.75P	50	60	0.7	3031-303
V-703A	BT40	ER32	M16X2.0P	M22X1.5P	50	70	1.4	3032-305
V-703B		ER32	M16X2.0P	M22X1.5P	50	100	1.7	3032-306
V-704		ER40	M16X2.0P	M22X1.5P	63	80	1.7	3032-307
V-704B		ER40	M16X2.0P	M22X1.5P	63	100	2	3032-421
V-705	BT50	ER32	M24X3.0P	M28X1.5P	50	100	4.5	3033-305
V-706		ER40	M24X3.0P	M28X1.5P	63	100	4.6	3033-306
V-706B		ER40	M24X3.0P	M28X1.5P	63	150	5.7	3033-307
V-707		ER50	M24X3.0P	M36X1.5P	78	100	5.1	3033-308
V-710	BT30	ER11	M12	M12X1.75P	19	60	0.5	3033-311
V-711		ER11	M12	M12X1.75P	19	100	0.6	3033-312
V-712		ER11M	M12	M12X1.75P	16	100	0.9	3033-313
V-713		ER16	M12	M12X1.75P	28	100	0.8	3033-314
V-714		ER16M	M12	M12X1.75P	22	100	0.7	3033-315
V-715		ER20	M12	M12X1.75P	34	60	0.6	3033-316
V-716		ER20	M12	M12X1.75P	34	100	0.9	3033-317
V-717		ER20M	M12	M12X1.75P	28	100	0.9	3033-318
V-718		ER25	M12	M12X1.75P	42	60	0.7	3033-319
V-719		ER40	M12	M12X1.75P	63	70	1	3033-320
V-720	BT40	ER11	M16	M22X11.5P	19	70	1.2	3033-321
V-721		ER11	M16	M22X11.5P	19	100	1.5	3033-322
V-722A		ER11M	M16	M22X11.5P	16	100	1.05	3033-323
V-722B		ER11M	M16	M22X11.5P	16	150	1.3	3033-323A
V-723A		ER16M	M16	M22X11.5P	22	100	1.3	3033-324
V-723B		ER16M	M16	M22X11.5P	22	150	1.5	3033-330
V-724A		ER20M	M16	M22X11.5P	28	100	1.6	3033-325
V-724B		ER20M	M16	M22X11.5P	28	150	1.6	3033-331
V-725		ER25	M16	M22X11.5P	42	70	1.3	3033-326
V-726		ER25	M16	M22X11.5P	42	100	1.6	3033-327
V-727		ER50	M16	M22X11.5P	78	90	2.2	3033-328



ER Spring Collet Chuck System VERTEX®

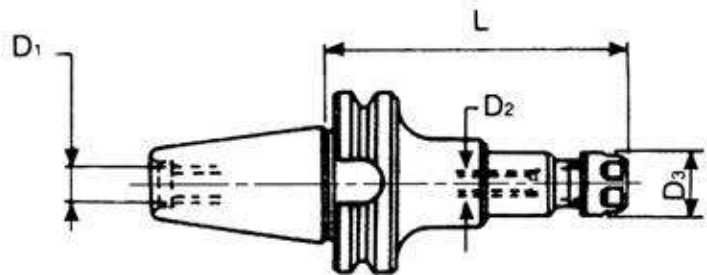
Collet Holders With Extension Type BT Taper Shank
ER-16, ER-20

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BT-40-ER20

ACCURACY
RUNOUT 0.005mm
TAPER SHANK AT-3
R.P.M. 7000



ORDER NO.	TAPER	COLLET TYPE	D3	L	D1	WEIGHT KGS	CODE NO.
V-770	BT30	ER16	28	60	M12	0.6	3031-301
V-772	BT40	ER16	28	70	M16	1.2	3032-301
V-773			28	100	M16	1.4	3032-302
V-774			28	150	M16	1.7	3032-308
V-774A	BT40	ER20	34	70	M16	1.3	3032-303
V-775			34	100	M16	1.5	3032-304
V-775A			34	135	M16	1.6	3032-309
V-775B			34	150	M16	1.9	3032-310
V-775C	BT40	ER25	42	150	M16	2.1	3032-311
V-733	BT40	ER32	50	150	M16	2	3033-354
V-776	BT50	ER16	28	100	M24	2.3	3033-301
V-777			28	150	M24	4.3	3033-302
V-743A			28	200	M24	7.5	3033-364
V-778	BT50	ER20	34	100	M24	4.1	3033-303
V-779			34	150	M24	4.8	3033-304
V-735			34	200	M24	5	3033-356
V-736			42	100	M24	4.3	3033-357
V-737A	BT50	ER25	42	150	M24	4.8	3033-358
V-744A			42	200	M24	8	3033-365
V-738A			50	150	M24	5.5	3033-359
V-739A	BT50	ER32	50	200	M24	6.5	3033-360
V-741A	BT50	ER40	63	200	M24	7.5	3033-362
V-742A	BT50	ER50	78	150	M24	6.7	3033-363



ER Spring Collet Chuck System

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MAS403 BT-SHANK DIN 6499



Collet Chuck Kit With BT Taper Shank

Including shank, full set of collets, wrench and case.

- 1.ER16, ER20 PACKED IN WOODEN BOX
- 2.ER32, ER40, ER50, PACKED IN PLASTIC BOX
- 3.PACKAGE INCLUDING : CHUCK, COLLET, WRENCH, BOX

Caution:

Please notify the taper size, collet type, set range, and set numbers when ordering.



ORDER NO.	BT TAPER	COLLET TYPE	SET RANGE	COLLET PCS	WEIGHT KGS	CODE NO.
V-780	BT30-60L	ER16	1-10	10	1.9	3031-401
V-780A	BT30-100L	ER16	1-10	10	2	3031-406
V-781	BT40-70L	ER16	1-10	10	2.3	3032-401
V-782	BT40-100L	ER16	1-10	10	2.7	3032-402
V-783	BT30-60L	ER20	2-13	12	2.5	3031-402
V-783A	BT30-100L	ER20	2-13	12	2.6	3032-413
V-783B	BT30-60L	ER25	2-16	15	2.5	3032-414
V-783C	BT30-60L	ER25	4-16	7	2.8	3032-415
V-784	BT40-100L	ER20	2-13	12	3	3032-403
V-784A	BT40-70L	ER20	2-13	12	2.8	3032-416
V-784B	BT40-70L	ER25	2-16	15	3.2	3032-417
V-784C	BT40-100L	ER25	4-16	7	3	3032-418
V-785	BT30-60L	ER32	3-20	18	4.4	3031-403
V-786	BT30-60L	ER32	4-20	11	3.8	3031-404
V-787	BT30-60L	ER32	6-20	6	3.4	3031-405
V-788	BT40-70L	ER32	3-20	18	5.2	3032-404
V-789	BT40-70L	ER32	4-20	11	4.2	3032-405
V-790	BT40-70L	ER32	6-20	6	3.8	3032-406
V-791	BT40-100L	ER32	3-20	18	5.7	3032-407
V-792	BT40-100L	ER32	4-20	11	4.7	3032-408
V-793	BT40-100L	ER32	6-20	6	4.3	3032-409
V-794	BT40-80L	ER40	4-26	23	8.9	3032-410
V-795	BT40-80L	ER40	4-26	15	7.6	3032-411
V-796	BT40-80L	ER40	6-25	7	6	3032-412
V-797	BT50-100L	ER40	4-26	23	11.3	3033-401
V-798	BT50-100L	ER40	4-26	15	10	3033-402
V-799	BT50-100L	ER40	6-26	7	8.5	3033-403
V-737	BT50-150L	ER40	4-26	23	12.2	3033-404
V-738	BT50-150L	ER40	4-26	15	11	3033-405
V-739	BT50-150L	ER40	6-26	7	9.5	3033-406
V-740	BT50-100L	ER50	12-34	12	12	3033-407
V-740C	BT40-90L	ER50	12-34	12	9	3033-408
V-740B	BT50-100L	ER32	3-20	18	7.5	3033-409

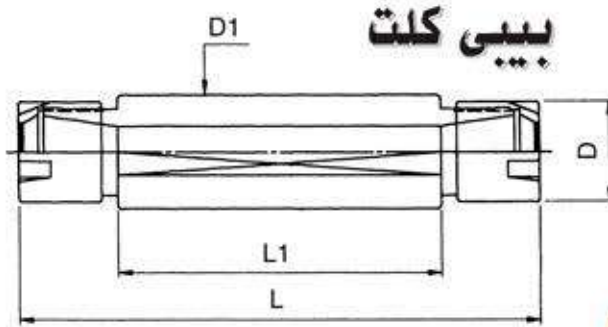


ST/ER Straight Shank With Double Head Spindle



M TYPE DOUBLE HEAD

FOR CNC LATHE ONLY



M TYPE

ORDER NO.	COLLET TYPE	SHANK (ØD1-ER-L1)	L	L1	D	WEIGHT (KGS)	CODE NO.
V-830	ER11	ø20-ER11M2-50	70	50	16	0.2	3032-430
V-831		ø20-ER11M2-78	108	78	16	0.3	3032-431
V-832	ER16	ø20-ER16M2-50	82	50	22	0.2	3032-432
V-833		ø20-ER16M2-70	112	70	22	0.32	3032-433
V-834	ER16	ø25-ER16M2-50	92	50	22	0.25	3032-434
V-835		ø25-ER16M2-80	122	80	22	0.35	3032-435
V-836	ER20	ø25-ER20M2-50	92	50	28	0.3	3032-436
V-837		ø25-ER20 M2-80	122	80	28	0.35	3032-437

UM TYPE

ORDER NO.	COLLET TYPE	SHANK (ØD1-ER-L1)	L	L1	D	WEIGHT (KGS)	CODE NO.
V-855	ER11	ø20-ER11 UM2-50	80	50	19	0.15	3032-428
V-856		ø20-ER11 UM2-70	100	70	19	0.19	3032-429
V-859	ER16	ø20-ER16 UM2-80	124	80	28	0.35	3032-439
V-862	ER20	ø20-ER20 UM2-80	134	80	34	0.38	3032-438



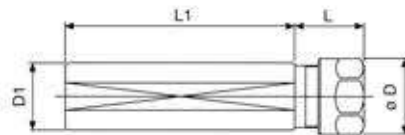
ST/ER Straight Shank With Single Head Spindle

FOR CNC LATHE ONLY

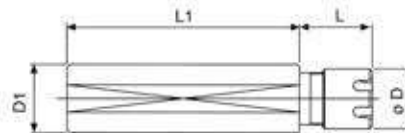
M TYPE SINGLE HEAD



UM TYPE



M TYPE SINGLE HEAD



UM TYPE



ORDER NO.	COLLET TYPE	SHANK (ØD1-ER-L1)	L	L1	D	WEIGHT (KGS)	CODE NO.
V-841	ER16	ø20-ER16M-70	21	70	22	0.2	3032-441
V-842		ø25-ER16M-70	21	70	22	0.25	3032-442
V-843		ø3/4"-ER16M-70	21	70	22	0.2	3032-443
V-844	ER16	ø20-ER16UM-70	21	70	28	0.2	3032-444
V-845		ø25-ER16UM-70	21	70	28	0.25	3032-445
V-846		ø3/4"-ER16UM-70	21	70	28	0.2	3032-446
V-847	ER20	ø22-ER20UM-70	23	70	34	0.25	3032-447
V-848		ø25-ER20UM-70	23	70	34	0.3	3032-448

ER-SK Taper Shank

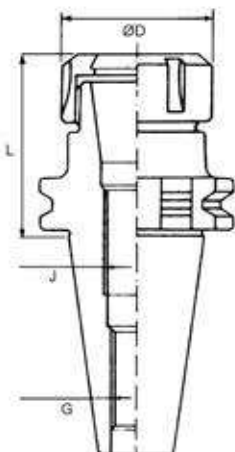
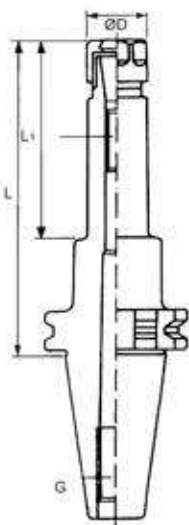
COLLET HOLDER WITH SK-SHANK
DIN 69871



& COLLET CHUCK SET DIN 69871

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ER



COLLET CHUCK KIT WITH SK-SHANK DIN 69871

INCLUDING SHANK, FULL SET OF COLLETS, WRENCH AND CASE.



ER



ORDER NO.	COLLET TYPE	TAPER	D	L	G	WEIGHT KGS	CODE NO.
V-741	ER16	SK40	28	100	M16	1.5	3029-301
V-741K	ER16	SK30	28	60	M12	0.45	3029-311
V-741B	ER16	SK50	28	100	M24	3.5	3029-317
V-742	ER20	SK40	34	100	M16	1.5	3029-302
V-742C	ER16	SK40	28	70	M16	1.1	3029-315
V-742D	ER20	SK40	34	70	M16	1.2	3029-316
V-742E	ER20	SK50	34	100	M24	3.5	3029-318
V-744	ER20	SK50	34	150	M24	4.8	3030-302



ORDER NO.	COLLET TYPE	TAPER	D	L	G	WEIGHT KGS	CODE NO.
V-745	ER32	SK40	50	70	M16	1.2	3029-303
V-745A	ER32	SK30	50	60	M12	0.8	3029-314
V-745B	ER32	SK50	50	100	M24	3.7	3029-320
V-746	ER40	SK40	63	80	M16	1.6	3029-304
V-747	ER40	SK50	63	100	M24	4.2	3030-303
V-749	ER25	SK40	42	70	M16	1.1	3030-304
V-749A	ER25	SK50	42	100	M24	3.4	3029-319



ORDER NO.	ER TYPE	SK TAPER	SET RANGE	SET PCS	WEIGHT KGS	CODE NO.
V-751	ER16	SK40-70L	1-10	10PCS	2.3	3029-401
V-751A	ER16	SK30-60L	1-10	10PCS	1.8	3029-420
V-752	ER20	SK40-70L	2-13	12PCS	3	3029-402
V-753	ER32	SK40-70L	3-20	18PCS	5.2	3029-403
V-754	ER32	SK40-70L	4-20	11PCS	4.2	3029-404
V-754A	ER32	SK30-60L	3-20	18PCS	4.2	3029-423
V-754B	ER32	SK50-100L	3-20	18PCS	7	3029-424
V-755	ER32	SK40-60L	6-20	6PCS	3.8	3029-405
V-756	ER40	SK40-80L	4-26	23PCS	8.9	3029-406
V-757	ER40	SK40-80L	4-26	15PCS	7.6	3029-407
V-758	ER40	SK40-80L	6-25	7PCS	6	3029-408
V-759	ER40	SK50-100L	4-26	23PCS	11.3	3030-401
V-760	ER40	SK50-100L	4-26	15PCS	10	3030-402
V-761	ER40	SK50-100L	6-26	7PCS	8.5	3030-403
V-762	ER25	SK40-70L	2-16	15PCS	3.5	3029-409
V-763	ER25	SK40-70L	4-26	7PCS	3.2	3029-410

ER16, ER20 PACKED IN WOODEN CASE
ER32, ER40 PACKED IN PLASTIC CASE

COLLET HOLDER WITH #25
COLLET CHUCK DIN 6388 TYPE A
OZ-25

DIN 6388 # 25 SERIES
DIN 2080 NT-SHANK



1. Best selected quality tool steel hardened & Precision ground.
2. Accuracy of concentric to within 0.008" per inch. (0.02mm per 25 mm)
3. High rigidity & Clamping force.
4. 1 set including : 1 chuck shank holder
1 wrench ; 1 case.
7 or 15 pcs of collet.



CHUCK SHANK ONLY

ORDER NO.	CHUCK SHANK	DRAW BAR THREADS		WEIGHT(kg)		MEAS. CFT	CODE NO.
		SAE	METRIC	SAE	METRIC		
VB-MT-2	MT2		M10X1.5P	1	1	0.3	3101-001
VB-MT-3	MT3	3/8"-16	M10X1.5P	1.1	1	0.3	3101-002
		1/2"-12					
		1/2"-13	M12X1.75P				
VB-MT-4	MT4	5/8"-11	M16X2.0P		1.4	0.3	3101-003
VB-MT-5	MT5	1"-8	M24X3.0P		2	0.5	3101-004
VB-R8	R-8	7/16"-20		1.3		0.3	3101-005
VB-NT30	NT30	1/2"-12	M12X1.75P	1.1	1.1	0.3	3101-006
		1/2"-13					
VB-NT40	NT40	5/8"-11	M16X2.0P	1.5	1.5	0.3	3101-007
VB-NT50	NT50	1"-8	M24X3.0P	3.4	3.4	0.5	3101-008

Please Notify the Draw Bar Thread Size When ordering.



Milling Collet Chuck Kit



INCLUDING SHANK, FULL SET OF COLLETS, WRENCH AND CASE, COLLET CHUCK KIT

DIN 6388 OZ-25 TYPE

ست کلت فشنگی

DIFFERENT SHANK STYLE



FULL SET

ORDER NO.	COLLETS SIZE OZ-25		PCS	WEIGHT (KGS)	CODE NO.
	TAPER	COLLETS			
VB-101	NT30	Inch 1/8"-1" 15PCS 1/4"-1" 7PCS Metric 3mm-25mm 15pcs 6mm-25mm 7pcs	7	3.7	3101-101
VB-102			15	5.2	3101-102
VB-103	NT40		7	4	3101-103
VB-104			15	5.5	3101-104
VB-105	NT50		7	6.5	3101-105
VB-106			15	8.5	3101-106
VB-107	MT3		7	3.3	3101-107
VB-108			15	5.2	3101-108
VB-109	MT4		7	3.9	3101-109
VB-110			15	5.4	3101-110
VB-111	MT5		7	4.7	3101-111
VB-112			15	6.2	3101-112
VB-113	R8		7	3.7	3101-113
VB-114			15	5.2	3101-114
VB-115	MT2		7	3.6	3101-115
VB-116		15	5.1	3101-116	

NEW

Please Notify the Type Size, Collet Type, Set Range, and Set Numbers When Ordering.

CONTENT COLLET SET SIZE

7 PCS/SET	MM	6, 8, 10, 12, 16, 20, 25MM
	INCH	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"v
15 PCS/SET	MM	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16, 18, 20, 25MM
	INCH	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"



DIN 6388 Collet For Milling Chuck

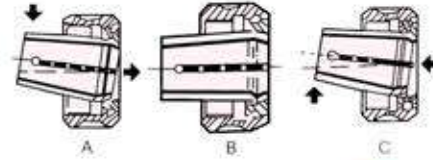
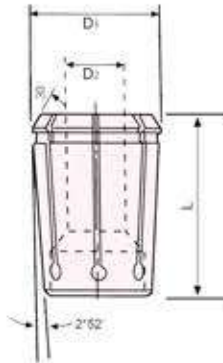


COLLET DIN 6388, TYPE A

DIN 6388 #16,#25,#32 SERIES

COLLET MUST BE ASSEMBLED INTO THE CLAMPING NUT BEFORE INSERTING INTO THE CHUCK

فشنگی کم چاک



METRIC

ORDER NO.	D1	L	D2(MM)
OZ-16-□	25.5	40	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
OZ-25-□	35.05	52	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20, 25
OZ-32-□	44	60	6, 8, 10, 12, 16, 20, 25, 32

INCH

ORDER NO.	D1	L	D2(INCH)
OZ-25-□	35.05	52	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"
OZ-32-□	43.7	60	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/8", 1 1/4"

■ RANGE SIZE:3-25(1/8"-1")

OZ-25 ■ D:35.05 ■ L:52 ■ TAPER:1:10 ■ WEIGHT:0.18KGS

ORDER NO.	MM SIZE	CODE NO.
OZ-2503	3.0	3100-101
OZ-2504	4.0	3100-102
OZ-2505	5.0	3100-103
OZ-2506	6.0	3100-104
OZ-2507	7.0	3100-105
OZ-2508	8.0	3100-106
OZ-2509	9.0	3100-107
OZ-2510	10	3100-108
OZ-2511	11	3100-109
OZ-2512	12	3100-110
OZ-2513	13	3100-111
OZ-2514	14	3100-112
OZ-2515	15	3100-113
OZ-2516	16	3100-114
OZ-2517	17	3100-115
OZ-2518	18	3100-116
OZ-2519	19	3100-117
OZ-2520	20	3100-118
OZ-2521	21	3100-119
OZ-2522	22	3100-120
OZ-2523	23	3100-121
OZ-2524	24	3100-122
OZ-2525	25	3100-123

ORDER NO.	INCH SIZE	CODE NO.
OZ-2526	1/8"	3100-124
OZ-2527	3/16"	3100-125
OZ-2528	1/4"	3100-126
OZ-2529	5/16"	3100-127
OZ-2530	3/8"	3100-128
OZ-2531	7/16"	3100-129
OZ-2532	1/2"	3100-130
OZ-2533	9/16"	3100-131
OZ-2534	5/8"	3100-132
OZ-2535	11/16"	3100-133
OZ-2536	3/4"	3100-134
OZ-2537	13/16"	3100-135
OZ-2538	7/8"	3100-136
OZ-2539	15/16"	3100-137
OZ-2540	1"	3100-138



DIN 6388 Collet For Milling Chuck



COLLET DIN 6388, TYPE A

DIN 6388 #16,#25,#32 SERIES

COLLET MUST BE ASSEMBLED INTO THE CLAMPING NUT BEFORE INSERTING INTO THE CHUCK



فشنگی کم چاک



DIN6388 32# ■ RANGE SIZE:6-32(1/4"-1 1/4")
OZ-32 ■ D:43.7 ■ L:60 ■ TAPER:1:10
■ WEIGHT:0.25KGS

ORDER NO.	MM SIZE	CODE NO.
OZ-3206	6.0	3100-201
OZ-3207	7.0	3100-202
OZ-3208	8.0	3100-203
OZ-3209	9.0	3100-204
OZ-3210	10	3100-205
OZ-3211	11	3100-206
OZ-3212	12	3100-207
OZ-3213	13	3100-208
OZ-3214	14	3100-209
OZ-3215	15	3100-210
OZ-3216	16	3100-211
OZ-3217	17	3100-212
OZ-3218	18	3100-213
OZ-3219	19	3100-214
OZ-3220	20	3100-215
OZ-3221	21	3100-216
OZ-3222	22	3100-217
OZ-3223	23	3100-218
OZ-3224	24	3100-219
OZ-3225	25	3100-220
OZ-3226	26	3100-221
OZ-3227	27	3100-222
OZ-3228	28	3100-223
OZ-3229	29	3100-224
OZ-3230	30	3100-225
OZ-3231	31	3100-226
OZ-3232	32	3100-227

ORDER NO.	INCH SIZE	CODE NO.
OZ-3233	1/4"	3100-228
OZ-3234	5/16"	3100-229
OZ-3235	3/8"	3100-230
OZ-3236	7/16"	3100-231
OZ-3237	1/2"	3100-232
OZ-3238	9/16"	3100-233
OZ-3239	5/8"	3100-234
OZ-3240	11/16"	3100-235
OZ-3241	3/4"	3100-236
OZ-3242	13/16"	3100-237
OZ-3243	7/8"	3100-238
OZ-3244	15/16"	3100-239
OZ-3245	1"	3100-240
OZ-3246	1-1/8"	3100-241
OZ-3247	1-1/4"	3100-242

NEW ■ DIN 6388 16#
■ OZ-16 COLLET

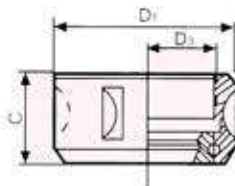
ORDER NO.	MM SIZE	CODE NO.
OZ-1602	2.0	3100-001
OZ-1603	3.0	3100-002
OZ-1604	4.0	3100-003
OZ-1605	5.0	3100-004
OZ-1606	6.0	3100-005
OZ-1607	7.0	3100-006
OZ-1608	8.0	3100-007
OZ-1609	9.0	3100-008
OZ-1610	10	3100-009
OZ-1611	11	3100-010
OZ-1612	12	3100-011
OZ-1613	13	3100-012
OZ-1614	14	3100-013
OZ-1615	15	3100-014
OZ-1616	16	3100-015



DIN 6388 Nuts & Wrench

BALL BEARING, NUTS FOR COLLETS DIN6388, TYPE A

مهره کلت



Unit:mm

ORDER NO.	C	D1	D3	COLLETS	WEIGHT kgs	CODE NO.
OZ-25N	33	60	M48X2	OZ-25	0.3	3100-301
OZ-32N	40	72	M60X2.5	OZ-32	0.7	3100-302

WRENCH FOR COLLETS DIN6388 TYPE A



Unit:mm

ORDER NO.	D1	COLLETS	WEIGHT kgs	CODE NO.
OZ-25W	60	OZ-25	0.35	3100-310
OZ-32W	72	OZ-32	0.4	3100-311

Milling Collet Chuck



OZ-25
COLLET HOLDER WITH BT-SHANK

DIN 6388 # 25 SERIES MAS 403
ست کلت فشنگی BT-SHANK



ORDER NO.	TAPER	DIN 6388	L	DRAW BAR	WEIGHT KGS	CODE NO.
VB-BT40	BT40	#25	80	M16X2.0P	1.7	3101-009
VB-BT50	BT50	#25	100	M24X3.0P	4.6	3101-010

Milling Collet Chuck Kit

Including Shank, full set of collets, wrench and case.



METRIC COLLET SYSTEM

ORDER NO.	TAPER	PCS/SET	WEIGHT KGS	CODE NO.
VB-241	BT40	7	4.4	3101-117
VB-242		15	5.9	3101-118
VB-251	BT50	7	7.5	3101-119
VB-252		15	9.5	3101-120

CONTENT COLLET SET SIZE

METRIC RANGE SET SIZE

7PCS: 6, 8, 10, 12, 16, 20, 25mm

15PCS: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16, 18, 20, 25mm

INCH COLLET SET SIZE

ORDER NO.	TAPER	PCS/SET	WEIGHT KGS	CODE NO.
VB-231	BT40	7	4.4	3101-121
VB-232		15	5.9	3101-122
VB-233	BT50	7	7.5	3101-123
VB-234		15	9.5	3101-124

INCH RANGE SET SIZE

7PCS: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"

15PCS: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8",

11/16", 3/4", 13/16", 7/8", 15/16", 1"



Milling Collet Chuck

COLLET HOLDER WITH
DIN 69871 & CAT TPE

DIN 6388 # 25, #32 SERIES



ست کلت فشنگی



DIN 69871A & CAT SHANK

ORDER NO.	TAPER	DIN 6388	DRAW BAR	WEIGHT KGS	CODE NO.
VB-261	SK40-OZ25-80L	#25	M16X2.0P	1.6	3101-011
VB-262	SK50-OZ25-100L		M24X3.0P	4.2	3101-012
VB-263	CAT40-OZ25-3"L		5/8"-11W	1.9	3101-013
VB-264	CAT50-OZ25-3 1/2"L		1"-8W	4	3101-014
VB-265	SK40-OZ32-80L	#32	M16X2.0P	2.3	3102-011
VB-266	SK50-OZ32-100L		M24X3.0P	5	3102-012
VB-267	CAT40-OZ32-3"L		5/8"-11W	2.3	3102-013



Milling Collet Chuck Kit

Including Shank, full set of collets, wrench and case.



METRIC COLLET SYSTEM SET DIN69871A SK-TYPE WITH #25,#32

ORDER NO.	COLLET HOLDER	TYPE	DIN 6388	RANGE	SET PCS	KGS	CODE NO.
VB-271	SK40-OZ25-80L	SK40	#25	3.0-25	15PCS	5.7	3101-125
VB-272	SK40-OZ25-80L		#25	6.0-25	7PCS	4.2	3101-126
VB-273	SK40-OZ32-80L	SK40	#32	6.0-32	15PCS	9.2	3101-127
VB-274	SK40-OZ32-80L		#32	6.0-32	8PCS	7.2	3101-128
VB-275	SK50-OZ25-100L	SK50	#25	3.0-25	15PCS	9.3	3101-129
VB-276	SK50-OZ25-100L		#25	6.0-25	7PCS	7.3	3101-130
VB-277	SK50-OZ32-100L	SK50	#32	6.0-32	15PCS	11.8	3102-117
VB-278	SK50-OZ32-100L		#32	6.0-32	8PCS	9.8	3102-118



INCH COLLET SYSTEM SET CAT-TYPE WITH #25,#32

ORDER NO.	COLLET HOLDER	TYPE	DIN 6388	RANGE	SET PCS	KGS	CODE NO.
VB-281	CAT40-OZ25-3"L	CAT40	#25	1/8"-1"	15PCS	5.7	3101-131
VB-282	CAT40-OZ25-3"L		#25	1/4"-1"	7PCS	4.2	3101-132
VB-286	CAT40-OZ32-3"L	CAT40	#32	1/4"-1 1/4"	15PCS	9.2	3102-119
VB-287	CAT40-OZ32-3"L		#32	1/4"-1 1/4"	10PCS	7.2	3102-120
VB-288	CAT50-OZ25-3 1/2"L	CAT50	#25	1/8"-1"	15PCS	9.3	3101-133
VB-289	CAT50-OZ25-3 1/2"L		#25	1/4"-1"	7PCS	7.3	3101-134
VB-290	CAT50-OZ32-3 1/2"L	CAT50	#32	1/4"-1 1/4"	15PCS	11.8	3102-121
VB-291	CAT50-OZ32-3 1/2"L		#32	1/4"-1 1/4"	10PCS	10	3102-122



C-20,25,32,42 Collet

C-TYPE COLLET



فشنگی سری C



METRIC



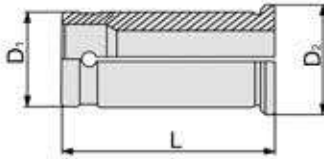
20, 25, 32, 42 STRAIGHT COLLET

ORDER NO.	COLLET	COLLETS SIZE d INSIDE DIAMETER	D1 O.D.	D2	L	PCS/SET	CODE NO.
C-20-6P	C-20	4, 6, 8, 10, 12, 16	20	25	52	6	3202-180
C-25-7P	C-25	4, 6, 8, 10, 12, 16, 20	25	31	60	7	3202-181
C-32-7P	C-32	6, 8, 10, 12, 16, 20, 25	32	37	73	7	3202-182
C-42-8P	C-42	6, 8, 10, 12, 16, 20, 25, 32	42	48	80	8	3202-183

20, 25, 32, 42 STRAIGHT COLLET

INCH

ORDER NO.	COLLET	COLLETS SIZE d INSIDE DIAMETER	D1 O.D.	D2	L	PCS/SET	CODE NO.
C-20-6I	C-20	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	20	25	52	6	3202-184
C-25-7I	C-25	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	25	31	60	7	3202-185
C-32-7I	C-32	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"	32	37	73	7	3202-186
C-42-8I	C-42	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4"	42	48	80	8	3202-187



ORDER NO.	WEIGHT
C-20	0.1
C-25	0.18
C-32	0.22
C-42	0.35

METRIC

ORDER NO.	d	CODE NO.
C-20-4	4	3202-200
C-20-6	6	3202-201
C-20-8	8	3202-202
C-20-10	10	3202-203
C-20-12	12	3202-204
C-20-16	16	3202-205
C-25-4	4	3202-229
C-25-6	6	3202-230
C-25-8	8	3202-231
C-25-10	10	3202-232
C-25-12	12	3202-233
C-25-16	16	3202-234
C-25-20	20	3202-235
C-32-6	6	3202-250
C-32-8	8	3202-251
C-32-10	10	3202-252
C-32-12	12	3202-253
C-32-16	16	3202-254
C-32-20	20	3202-255
C-32-25	25	3202-256
C-42-6	6	3202-280
C-42-8	8	3202-281
C-42-10	10	3202-282
C-42-12	12	3202-283
C-42-16	16	3202-284
C-42-20	20	3202-285
C-42-25	25	3202-286
C-42-32	32	3202-287

INCH

ORDER NO.	d	CODE NO.
C-20-3/16"	3/16"	3202-210
C-20-1/4"	1/4"	3202-211
C-20-5/16"	5/16"	3202-212
C-20-3/8"	3/8"	3202-213
C-20-1/2"	1/2"	3202-214
C-20-5/8"	5/8"	3202-215
C-25-3/16"	3/16"	3202-240
C-25-1/4"	1/4"	3202-241
C-25-5/16"	5/16"	3202-242
C-25-3/8"	3/8"	3202-243
C-25-1/2"	1/2"	3202-244
C-25-5/8"	5/8"	3202-245
C-25-3/4"	3/4"	3202-246
C-32-3/16"	3/16"	3202-260
C-32-1/4"	1/4"	3202-261
C-32-5/16"	5/16"	3202-262
C-32-3/8"	3/8"	3202-263
C-32-1/2"	1/2"	3202-264
C-32-5/8"	5/8"	3202-265
C-32-3/4"	3/4"	3202-266
C-32-7/8"	7/8"	3202-267
C-32-1"	1"	3202-268
C-42-1/4"	1/4"	3202-290
C-42-5/16"	5/16"	3202-291
C-42-3/8"	3/8"	3202-292
C-42-1/2"	1/2"	3202-293
C-42-5/8"	5/8"	3202-294
C-42-3/4"	3/4"	3202-295
C-42-7/8"	7/8"	3202-296
C-42-1"	1"	3202-297
C-42-1 1/4"	1 1/4"	3202-298



C-20,25,32,42 Wrenches



ORDER NO.	L	D	WEIGHT KGS	COLLETS	CODE NO.
C-20W	227	52	0.22	C-20	3202-311
C-25W	227	58	0.22	C-25	3202-312
C-32W	260	75	0.33	C-32	3202-313
C-42W	270	87	0.35	C42	3202-314

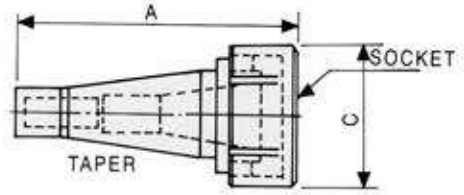


Quick-Change Tooling System VERTEX®

MILLING-QUICK CHANGE HOLDER

OZ DIN 6388

كليت



- QUICK-CHANGE CHUCK TAPER ACCORDING TO DIN 2080 SPECIFICATION.
- EASY AND FAST CHANGING MILLING CHUCK(HOLDER).
- CHUCK TAPER PRECISELY MACHINED SUITABLE FOR HEAVY CUTTING.
- ALL THE HOLDER SIZE ARE SPECIAL FOR THIS QUICK-CHANGE TOOLING SYSTEM ONLY.



ORDER NO.	TAPER	SOCKET	A	C	WEIGHT KGS	CODE NO.
VD-101	NT30	NT30	144	70	1.3	3201-001
VD-102	NT40	NT30	150	70	2	3201-002
VD-103	NT40	NT40	181	89	2.4	3201-003
VD-105	NT50	NT40	175	89	3.8	3201-004

MILLING-QUICK CHANGE SYSTEM KIT



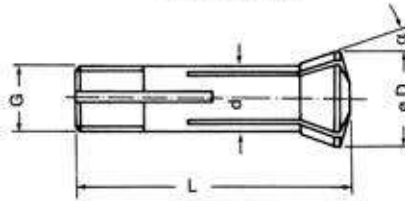
ORDER NO.	TAPER	SOCKET	FULL SET	WEIGHT KGS	CODE NO.
VD-111	NT30	NT30	1. MILLING QUICK-CHANGE HOLDER 2. DRILL CHUCK HOLDER 3. MORSE TAPER HOLDER 4. FACE MILL HOLDER 5. DIN6388 #25 COLLET CHUCK HOLDER 6. DIN6388 #25 15PCS COLLET 7. WRENCH 8. WOODEN BOX	10	3201-006
VD-112	NT40	NT30		10.5	3201-007
VD-113	NT40	NT40		14	3201-008
VD-115	NT50	NT40		16	3201-009



5C Collet System

5C RANGE

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5C Collet



■ L:87 ■ D:37.5 ■ d:31.75 ■ Accuracy: ±0.02mm
■ α:10° ■ WEIGHT:0.21KGS ■ Hardness: HRC47°

ORDER NO.	Q'TY	RANGE SIZE
5C-□	1 PC	∅ 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25MM
5C-□	1 PC	∅ 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"

COMPLETE SET AVAILABLE SIZE

ORDER NO.	Q'TY	RANGE SIZE	PACKING	WEIGHT KGS	CODE NO.
VE-102	7PCS	6, 8, 10, 12, 16, 20, 25	CARTON	1.5	3205-100
VE-102	7PCS	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"	CARTON	1.5	3205-101



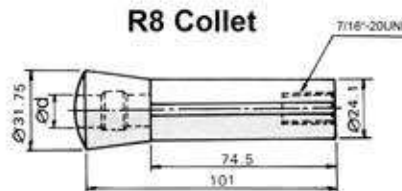
EMERGENCY TYPE SOFT COLLET

ORDER NO.	MATERIAL	kgs	CODE NO.
VE-5CS	STEEL		3205-201
VE-5CB	BRASS	0.35	3205-202
VE-5CN	NYLON		3205-203

ORDER NO.	d	CODE NO.
5C-3	3	3205-001
5C-4	4	3205-002
5C-5	5	3205-003
5C-6	6	3205-004
5C-7	7	3205-005
5C-8	8	3205-006
5C-9	9	3205-007
5C-10	10	3205-008
5C-11	11	3205-009
5C-12	12	3205-010
5C-13	13	3205-011
5C-14	14	3205-012
5C-15	15	3205-013
5C-16	16	3205-014
5C-17	17	3205-015
5C-18	18	3205-016
5C-19	19	3205-017
5C-20	20	3205-018
5C-21	21	3205-019
5C-22	22	3205-020
5C-23	23	3205-021
5C-24	24	3205-022
5C-25	25	3205-023

ORDER NO.	d	CODE NO.
5C-1/8	1/8"	3205-024
5C-3/16	3/16"	3205-025
5C-1/4	1/4"	3205-026
5C-5/16	5/16"	3205-027
5C-3/8	3/8"	3205-028
5C-7/16	7/16"	3205-029
5C-1/2	1/2"	3205-030
5C-9/16	9/16"	3205-031
5C-5/8	5/8"	3205-032
5C-11/16	11/16"	3205-033
5C-3/4	3/4"	3205-034
5C-13/16	13/16"	3205-035
5C-7/8	7/8"	3205-036
5C-15/16	15/16"	3205-037
5C-1	1"	3205-038

R8 Collet System



■ L:101 ■ D:31.75 ■ d:24.1 ■ Accuracy: ±0.02mm
■ G:7/16"-20UNF ■ α:8°30' ■ WEIGHT:0.21KGS ■ Hardness: HRC47°

ORDER NO.	Q'TY	RANGE SIZE
R8-□	1 PC	∅ 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 MM
R8-□	1 PC	∅ 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

COMPLETE SET AVAILABLE SIZE

ORDER NO.	Q'TY	RANGE SIZE	WEIGHT KGS	CODE NO.
VE-110	6PCS	6, 8, 10, 12, 16, 20 MM	1.5	3206-100
VE-114	7PCS	6, 8, 10, 12, 14, 16, 20 MM	1.5	3206-101

EMERGENCY TYPE SOFT COLLET

ORDER NO.	Q'TY	RANGE SIZE	WEIGHT KGS	CODE NO.
VE-109I	5PCS	1/4", 3/8", 1/2", 5/8", 3/4"	1.1	3206-102
VE-110I	6PCS	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	1.5	3206-103
VE-114I	7PCS	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	1.5	3206-104

ORDER NO.	d	CODE NO.
R8-3	3	3206-001
R8-4	4	3206-002
R8-5	5	3206-003
R8-6	6	3206-004
R8-7	7	3206-005
R8-8	8	3206-006
R8-9	9	3206-007
R8-10	10	3206-008
R8-11	11	3206-009
R8-12	12	3206-010
R8-13	13	3206-011
R8-14	14	3206-012
R8-15	15	3206-013
R8-16	16	3206-014
R8-17	17	3206-015
R8-18	18	3206-016
R8-19	19	3206-017
R8-20	20	3206-018

ORDER NO.	d	CODE NO.
R8-1/8	1/8"	3206-019
R8-3/16	3/16"	3206-020
R8-1/4	1/4"	3206-021
R8-5/16	5/16"	3206-022
R8-3/8	3/8"	3206-023
R8-7/16	7/16"	3206-024
R8-1/2	1/2"	3206-025
R8-9/16	9/16"	3206-026
R8-5/8	5/8"	3206-027
R8-11/16	11/16"	3206-028
R8-3/4	3/4"	3206-029



U2 Collet System



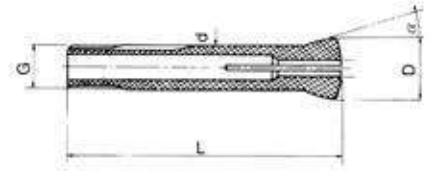
NO.1 U2 COLLET RANGE SIZE 3~16mm
NO.2 U2 COLLET RANGE SIZE 18~25mm

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NO.1



NO.2

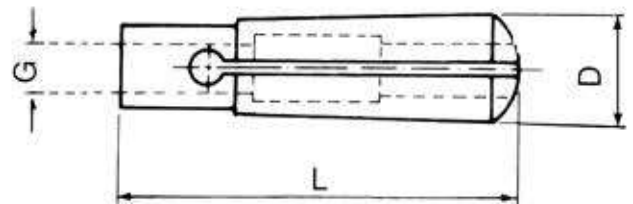


■ L:120 ■ D:28 ■ d:20 ■ G:2.0P ■ Accuracy: ±0.02mm
■ α:17°30' ■ WEIGHT:0.18KGS ■ Hardness: HRC47°

ORDER NO.	Q'TY	RANGE SIZE
VE-U2-□	1 PC	NO.1 Ø 1.5, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 NO.2 Ø 18, 20, 25MM
VE-U2-□	1 PC	Ø 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8"

ORDER NO.	d	CODE NO.	ORDER NO.	d	CODE NO.	ORDER NO.	d	CODE NO.
VE-U2-1.5	1.5	3207-026	VE-U2-10	10	3207-008	VE-U2-1/8	1/8"	3207-018
VE-U2-2	2	3207-027	VE-U2-11	11	3207-009	VE-U2-3/16	3/16"	3207-019
VE-U2-3	3	3207-001	VE-U2-12	12	3207-010	VE-U2-1/4	1/4"	3207-020
VE-U2-4	4	3207-002	VE-U2-13	13	3207-011	VE-U2-5/16	5/16"	3207-021
VE-U2-5	5	3207-003	VE-U2-14	14	3207-012	VE-U2-3/8	3/8"	3207-022
VE-U2-6	6	3207-004	VE-U2-15	15	3207-013	VE-U2-1/2	1/2"	3207-023
VE-U2-7	7	3207-005	VE-U2-16	16	3207-014	VE-U2-5/8	5/8"	3207-024
VE-U2-8	8	3207-006	VE-U2-18	18	3207-015			
VE-U2-9	9	3207-007	VE-U2-20	20	3207-016			
			VE-U2-25	25	3207-017			

MT3 Collet System



■ D:24.1 ■ L:87 ■ WEIGHT:0.18KGS
■ DRAW BAR SIZE: G1.M12X1.75P

ORDER NO.	Q'TY	RANGE SIZE	DRAW BAR SIZE
MT3-□	1 PC	Ø 4, 6, 8, 10, 12, 16, 20MM	G1

ORDER NO.	d	CODE NO.
MT3-4	4	3208-100
MT3-6	6	3208-101
MT3-8	8	3208-102
MT3-10	10	3208-103
MT3-12	12	3208-104
MT3-16	16	3208-105
MT3-20	20	3208-106

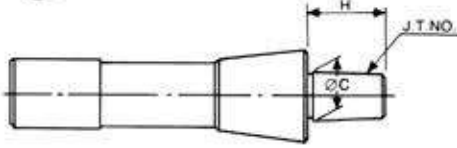


Drill Chucks Arbor



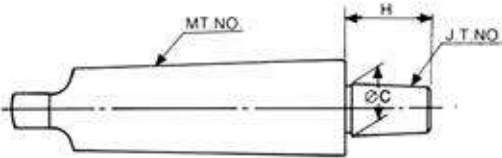
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R8



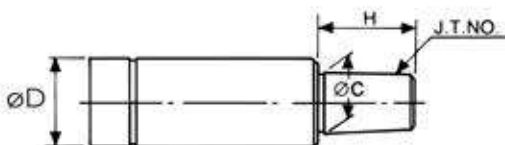
ORDER NO.	TAPER	JT NO.	C	H	WEIGHT (kg)	CODE NO.
VJ-120	R8	JT3	20.60	34	0.5	3209-000
VJ-121		JT1	9.754	18	0.5	3209-001
VJ-122		JT2	13.94	20	0.5	3209-002
VJ-123		JT6	17.17	26	0.5	3209-003
VJ-124		B16	15.733	24	0.5	3209-004

MT3.4.5



ORDER NO.	TAPER	JT NO.	C	H	WEIGHT (kg)	CODE NO.
VJ-126	MT2	JT3	20.6	34	0.24	3209-006
VJ-126-1		B16	15.733	29	0.2	3209-006A
VJ-126-3		B18	17.78	37	0.21	3209-006B
VJ-130		JT6	17.17	28	0.22	3209-029
VJ-130-2		JT5	35.89	50	0.5	3209-029A
VJ-130-4		JT4	28.55	45	0.4	3209-029B
VJ-137		JT2	14.2	25	0.2	3209-056
VJ-131	MT3	JT6	17.17	26	0.4	3209-030
VJ-131-2		JT5	35.89	50	0.7	3209-030A
VJ-131-4		JT33	15.85	28	0.3	3209-030B
VJ-134		B16	15.733	24	0.3	3209-033
VJ-134-2		B18	17.78	37	0.4	3209-033A
VJ-138		JT2	14.20	25	0.3	3209-034A
VJ-138-1		JT3	20.60	34	0.35	3209-034
VJ-138-2	JT4	28.55	45	0.5	3209-035	
VJ-132	MT4	JT6	17.17	26	0.7	3209-031
VJ-132-1		JT3	20.60	34	0.7	3209-031A
VJ-132-7		JT4	28.55	45	0.85	3209-031B
VJ-132-4		JT5	35.89	50	1	3209-031C
VJ-132-5		JT2	14.2	25	0.64	3209-031D
VJ-132-6		JT33	15.85	28	0.65	3209-031E
VJ-132-8		B18	17.78	37	0.7	3209-031F
VJ-135		B16	15.733	29	0.7	3209-036
VJ-133	MT5	JT6	17.17	26	1.6	3209-032
VJ-133-1		JT3	20.60	35	1.6	3209-032A
VJ-133-2		JT4	28.55	46	1.8	3209-032B
VJ-133-3		JT5	35.89	51	2	3209-032C
VJ-133-4		JT2	14.2	26	1.6	3209-032D
VJ-133-5		JT33	15.85	29	1.6	3209-032E

C20.25.32



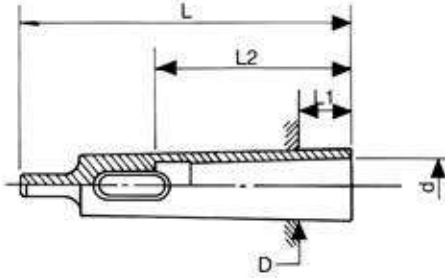
ORDER NO.	SHANK ØD	JT NO.	C	H	WEIGHT (kg)	CODE NO.	
VJ-139	C20	JT1	9.754	19	0.2	3209-058	
VJ-139-1		JT0	6.35	9	0.2	3209-058A	
VJ-140		JT2	14.20	25	0.2	3209-059	
VJ-140-1		JT3	20.60	35	0.2	3209-059A	
VJ-140-2		B10	10.25	21	0.15	3209-059B	
VJ-141		JT6	17.17	26	0.2	3209-060	
VJ-140-3		B12	12.1	22.5	0.2	3209-060A	
VJ-140-4		B16	15.733	29	0.2	3209-060B	
VJ-142		C25	JT6	17.17	26	0.3	3209-061
VJ-143		C32	JT6	17.17	26	0.5	3209-062



Morse Taper Sleeve



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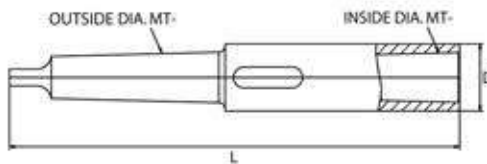
ORDER NO.	I.D.xO.D.	D	d	L	l1	l2	WEIGHT (kg)	CODE NO.
VQ-101	MT2xMT3	23.825	17.780	112	18	67	0.2	3210-001
VQ-102	MT2xMT4	31.267	17.780	124	6.5	67	0.5	3210-002
VQ-103	MT2xMT5	44.399	17.780	156	6.5	67	1.4	3210-003
VQ-104	MT2xMT6						4.13	3210-004
VQ-105	MT3xMT4	31.267	23.825	140	22.5	84	0.4	3210-005
VQ-106	MT3xMT5	44.399	23.825	156	6.5	84	1.3	3210-006
VQ-107	MT3xMT6	63.348	23.825	218	8	84	4	3210-007
VQ-108	MT4xMT5	44.399	31.267	171	21.5	107	1	3210-008
VQ-109	MT4xMT6	63.348	31.267	218	8	107	3.7	3210-009
VQ-110	MT5xMT6	63.348	44.399	218	8	133	2.9	3210-010
VQ-100	MT1xMT3	23.825	12.065	100	6	55	0.2	3210-011
VQ-100-1	MT1xMT2	17.780	12.065	89	14	55	0.22	3210-012
VQ-100-2	MT1xMT4	31.267	12.065	124	6.5	55	0.89	3210-013
VQ-100-3	MT1xMT5	44.399	12.065	156	7	55	1.33	3210-014



Morse Taper Extension Sockets

MORSE TAPER EXTENSION SOCKETS

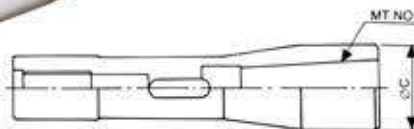
- For adapting tools with morse taper shanks to machine having smaller morse taper spindle or for adapting tools with morse taper shanks to machine having the same or larger morse taper spindle.
- Hardened and ground throughout.



ORDER NO.	I.D.xO.D.	D	L	WEIGHT (kg)	CODE NO.
VQ-111-3	MT1xMT2	18.2	160	0.28	3210-018
VQ-111-1	MT1xMT3	20.2	175	0.4	3210-019
VQ-111-2	MT1xMT4	20.2	204	0.35	3210-020
VQ-112	MT2xMT2	24.2	175	0.35	3210-021
VQ-112-1	MT2xMT3	24.2	194	0.5	3210-022
VQ-112-2	MT2xMT4	24.2	219	0.9	3210-022A
VQ-112-3	MT2xMT5	24.2	254	1.85	3210-022B
VQ-113	MT3xMT2	32.2	196	0.56	3210-023
VQ-114	MT3xMT3	32.2	215	0.7	3210-024
VQ-115	MT3xMT4	32.2	240	1.1	3210-025
VQ-115-1	MT3xMT5	32.2	275	2.1	3210-025A
VQ-115-2	MT4xMT2	45.2	221	1.25	3210-026A
VQ-116	MT4xMT3	45.2	240	1.4	3210-026
VQ-117	MT4xMT4	45.2	265	1.7	3210-027
VQ-118	MT4xMT5	45.2	300	2.7	3210-028
VQ-119-1	MT5xMT3	63.2	275	3	3210-029A
VQ-119	MT5xMT4	63.2	300	3.25	3210-029
VQ-120	MT5xMT5	63.2	335	4.2	3210-030



R8 With Morse Taper Sleeve



ORDER NO.	SHANK	SIZE	MT NO.	WEIGHT (kg)	CODE NO.
VQ-121	R8	R8-MT1	MT1	0.36	3211-003
VQ-122	R8	R8-MT2	MT2	0.4	3211-001
VQ-123	R8	R8-MT3	MT3	0.5	3211-002



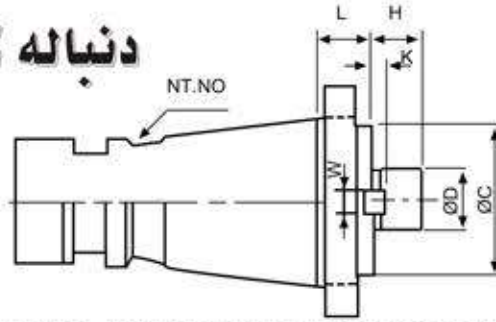
Face Mill Arbor

NT30, 40, 50, R8, MT3, 4

DIN 2080/ISO SHANK



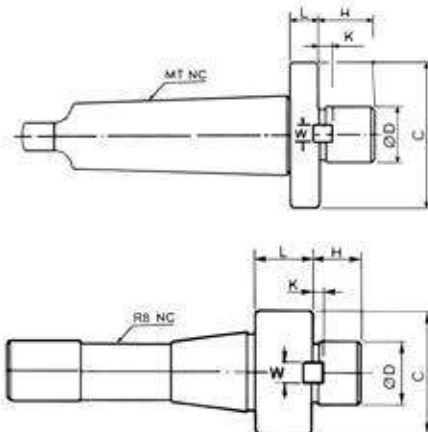
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NT40 WITH MAHO GAP



NT30



MATERIAL:SCM-21 HARDNESS:HRC 50°-55°

Squareness of mounting surface:Less than 0.0002"(0.005mm)

Deflection in shaft and taper:Less than 0.0002"(0.005mm)



INCH THREAD

INCH FMA TYPE

ORDER NO.	TAPER	SHAFT SIZE				MOUNTING SIZE		WEIGHT (kg)	CODE NO.
		D	H	W	K	C	L		
VF-101	NT30	25.4	20	9.57	5	65	20	0.7	3212-001
VF-102		31.75	23	12.75	7	73	20	1	3212-002
VF-103		38.1	22	15.90	9	82	20	1.1	3212-003
VF-104	NT40	25.4	20	9.57	5	65	20	1.2	3212-004
VF-105		31.75	22	12.75	7	73	20	1.5	3212-005
VF-106		38.1	23	15.90	9	82	20	1.8	3212-006
VF-109	NT50	25.4	20	9.57	5	65	20	3.2	3212-009
VF-110		31.75	22	12.75	7	73	20	3.3	3212-010
VF-111		38.1	23	15.90	9	82	20	3.6	3212-011
VF-112	R8	50.8	24	19.05	10	95	20	4	3212-012
VF-114		25.4	20	9.57	5	40	20	0.9	3212-014
VF-115		31.75	22	12.75	7	53	20	1.2	3212-015
VF-116	MT-3	25.4	20	9.57	5	40	20	0.7	3212-016
VF-117	MT-4	25.4	20	9.57	5	40	20	1	3212-017

METRIC FMB TYPE MM THREAD

ORDER NO.	TAPER	SHAFT SIZE				MOUNTING SIZE		WEIGHT (kg)	CODE NO.
		D	H	W	K	C	L		
VF-120	NT30	22	18	9.57	5	40	20	0.7	3212-100
VF-121		27	20	12.75	7	53	20	0.8	3212-101
VF-122		32	23	15.90	7	63	20	1.1	3212-102
VF-123	NT40	22	18	9.57	5	40	20	1.2	3212-103
VF-123-1		16	17	16.4		40	20	1.17	3212-103A
VF-124		27	20	12.75	7	53	20	1.3	3212-104
VF-125		32	23	15.90	7	63	20	1.4	3212-105
VF-126		40	26	19.05	8	85	20	1.9	3212-106
VF-127		60	32	25.40	5	128	24	4	3212-107
VF-128	NT50	22	18	9.57	5	40	20	3.1	3212-108
VF-129		27	20	12.75	7	53	20	3.3	3212-109
VF-130		32	23	15.90	7	63	20	3.5	3212-110
VF-131	R8	40	26	19.05	8	85	20	3.7	3212-111
VF-132		60	32	25.40	5	128.57	24	5.4	3212-112
VF-134		22	18	9.57	5	40	20	0.9	3212-113
VF-135	MT-3	27	20	12.75	7	53	20	1	3212-114
VF-136		27	20	9.57	7	53	20	0.7	3212-115
VF-137	MT4	27	20	9.57	7	53	20	1.1	3212-116



Milling Collet Chuck

COLLET HOLDER WITH ISO-SHANK
OZ-32



DIN 6388 # 32 SERIES
DIN 2080 NT-SHANK

ست کلت فشنگی



ORDER NO.	TAPER	DIN 6388	DRAW BAR	WEIGHT KGS	CODE NO.
VB-130	NT30	#32	1.M12X1.75P 2.1/2"-12W	2	3102-006
VB-131	NT40	#32	1.M16X2.0P 2.5/8"-11W	2.2	3102-001
VB-132	NT50	#32	1.M24X3.0P 2.1"-8W	3.9	3102-002



METRIC COLLET SYSTEM

ORDER NO.	TAPER	PCS/SET	WEIGHT KGS	CODE NO.
VB-121	NT40	8	7.5	3102-101
VB-121B	NT40	15	9.2	3102-102
VB-122	NT50	8	9.8	3102-103
VB-122B	NT50	15	11.8	3102-104
VB-123	NT30	8	7	3102-090
VB-123B	NT30	15	9	3102-091
VB-124	MTB5	8	8	3102-092
VB-124B	MTB5	15	10	3102-093

Milling Collet Chuck Kit

Including Shank, full set of collets, wrench and case.
OZ-32 DIN 6388



CONTENT COLLET SET SIZE

METRIC RANGE SET SIZE
8PCS: 6, 8, 10, 12, 16, 20, 25, 32mm
15PCS: 6, 7, 8, 9, 10, 11, 12, 13, 16, 18, 20, 25, 26, 30, 32mm



INCH COLLET SYSTEM

ORDER NO.	TAPER	PCS/SET	WEIGHT KGS	CODE NO.
VB-162	NT30	10	7	3102-094
VB-162B	NT30	15	9	3102-095
VB-163	NT40	10	7.2	3102-105
VB-164	NT40	15	9.2	3102-106
VB-165	NT50	10	9.8	3102-107
VB-166	NT50	15	11.8	3102-108
VB-167	MTB5	10	8	3102-096
VB-167B	MTB5	15	10	3102-097



INCH RANGE SET SIZE
10PCS: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4"
15PCS: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/8", 1-1/4"



Morse Taper Adapter

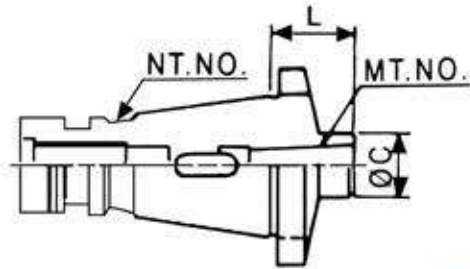
NT-30, 40, 50, R8, MT3, 4

DIN 2080/ISO SHANK



MORSE TAPER ADAPTER
WITH STRAIGHT SHANK

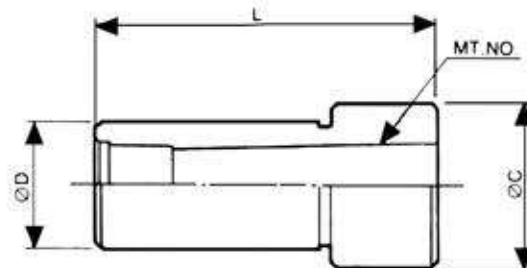
کلت مته گیر



STANDARD TYPE

ORDER NO.	TAPER	TYPE	C	L	WEIGHT (kgs)	CODE NO.
VI-102	NT30	MT2	32	50	0.6	3211-031
VI-103		MT3	35	65	0.7	3211-032
VI-104	NT40	MT1	25	30	0.9	3211-033
VI-105		MT2	32	30	1	3211-034
VI-106		MT3	40	70	1.2	3211-035
VI-107	NT50	MT4	50	90	1.5	3211-036
VI-108		MT2	32	30	2.8	3211-037
VI-109		MT3	40	30	2.7	3211-038
VI-110		MT4	50	45	3.2	3211-039
VI-111		MT5	65	105	3.7	3211-040

PLEASE NOTIFY THE DRAW BAR THREAD SIZE IS MM SIZE OR INCH SIZE WHEN ORDERING.



STANDARD TYPE

ORDER NO.	TAPER	SIZE	D	MT NO	C	L	WEIGHT (kg)	CODE NO.
VI-131	C20	C20-MT1	20	MT1	27	60	0.2	3211-060
VI-132		C20-MT2	20	MT2	27	70	0.2	3211-061
VI-133	C25	C25-MT1	25	MT1	33	60	0.3	3211-062
VI-134		C25-MT2	25	MT2	33	70	0.2	3211-063
VI-135		C25-MT3	25	MT3	33	90	0.2	3211-064
VI-136	C32	C32-MT1	32	MT1	37	60	0.36	3211-065
VI-137		C32-MT2	32	MT2	37	70	0.37	3211-066
VI-138		C32-MT3	32	MT3	37	90	0.35	3211-067
VI-138-4		C32-MT4	32	MT4	37	112	0.3	3211-068

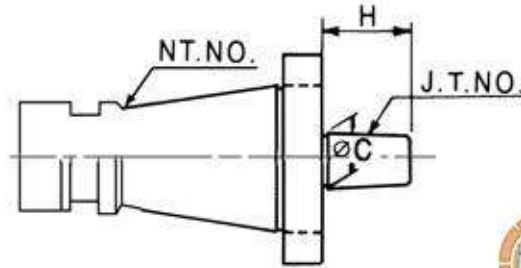


Jacobs Taper Drill Chuck Arbor VERTEX®

NT30, 40, 50-JT & B

DIN 2080/ISO SHANK

کلت سه نظام گیر

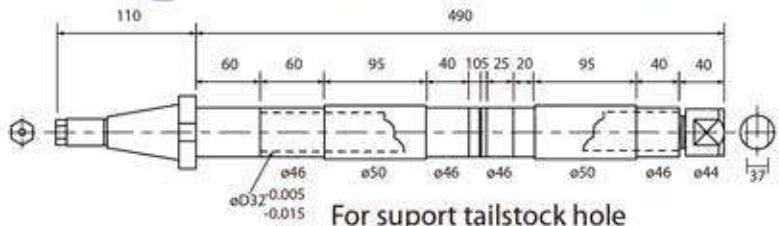


ORDER NO.	TAPER	JT NO	C	H	WEIGHT (kgs)	CODE NO.
VJ-106	NT40	JT6	17.17	26	1	3209-095
VJ-109	NT50	JT6	17.17	26	3.2	3209-098
VJ-111	NT30	B16	15.733	24	0.5	3209-099
VJ-112	NT40	B16	15.733	24	1	3209-100

PLEASE NOTIFY THE DRAW BAR THREAD SIZE IS MM SIZE OR INCH SIZE WHEN ORDERING.

Horizontal Milling Arbor

NEW With Key Way Wide 5/16"



For suport tailstock hole
& for cutter inside dianieter

ORDER NO.	TAPER	ØD	ØC	G	L	L1	WEIGHT (kg)	CODE NO.
VL-110	NT40 M16x2.0P	32	46	M30 x P2	600	490	7.5	3209-130

Tang For Morse Taper Shank

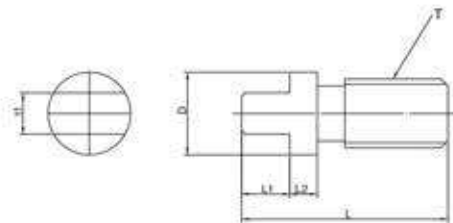
SURFACE TREATMENT: BLACKENING

HRC 45°

NEW



Tang for draw bar thread type to tang type



ORDER NO.	Morse	D	L	L1	L2	T	t1	WEIGHT	CODE NO.
VMTS-2	2	12	30	7	4	M10X1.5	6	0.02	3209-201
VMTS-3	3	17	40	12	4	M12X1.75	7.5	0.04	3209-202
VMTS-4	4	24	46	13	5	M16X2	11.5	0.09	3209-203
VMTS-5	5	34	47	14	5	M24X3	15.5	0.18	3029-204



Oli-Feed Holder / Slo

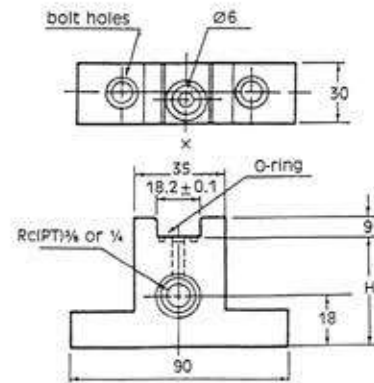
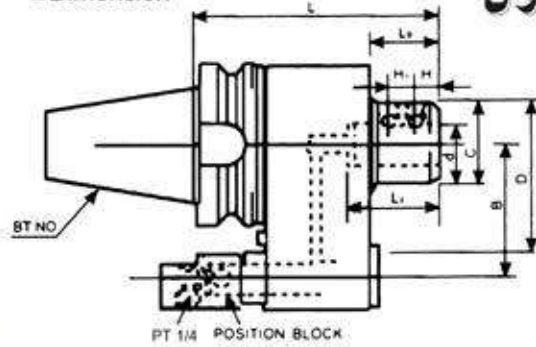


Coolant hole holder for straight shank
BT40, BT50

كلت ولدون



■ Dimension



(Note) H & X dimensions differ depending on machines employed.

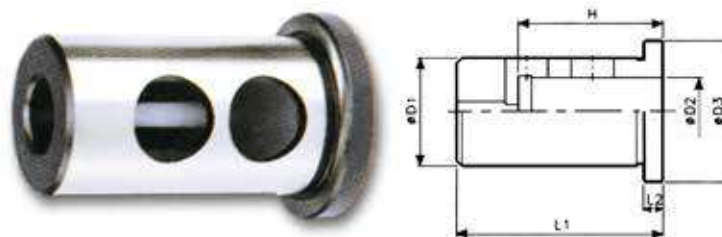
POSITIONING BLOCK

In using, OIL-FEED holder, positioning block illustrated here is necessary. The positioning block can be mounted to the spindle guide but it shall be mounted so as not to interfere with ATC arm, etc. of machine. It is necessary to consult the machine manufacturer about the proper mounting.

Unit:mm

ORDER NO.	d	L	B	C	D	L0	L1	H	H1	WEIGHT(kgs)	CODE NO.
BT40SLO32-165	32	165	65	53	90	52	60	15	15	4KGS	3214-001
BT40SLO40-165	40	165	65	70	90	52	70	19	18	4.6KGS	3214-002
BT50SLO32-165	32	165	80	54	100	42	60	15	15	7.1KGS	3214-003
BT50SLO40-165	40	165	80	64	100	52	70	19	18	7.8KGS	3214-004

Reducing sleeve for oil feed holder.



ORDER NO.	D1	D2	D3	L1	L2	H	WEIGHT(kg)	CODE NO.
OC32-20	32	20	42	63	6	48	0.4	3214-103
OC32-25		25				54	0.3	3214-104
OC40-25	40	25	50	63	6	54	0.6	3214-105
OC40-32		32				58	0.5	3214-106



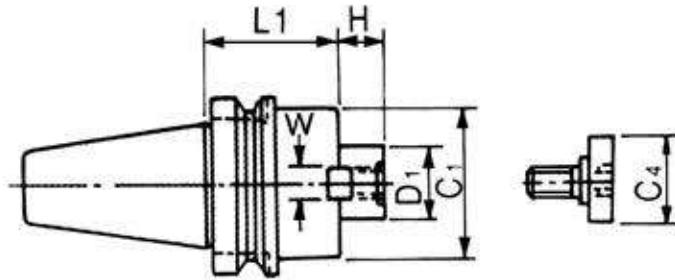
Face Mill Arbor



BT30,40,50

BT-SHANK MAS 403

کلت کف تراش گیر



INCH FMA TYPE

ORDER NO.	TAPER	D1	L1	H	C1	W	C4	N.W. (KG)	CODE NO.
BT-101	BT30	25.4	45	22	45	9.5	33	1.0	3212-201
BT-103	BT40	25.4	45	22	50	9.5	33	1.6	3212-203
BT-105		25.4	90	22	50	9.5	33	1.6	3212-205
BT-106		31.75	45	30	60	12.7	40	1.8	3212-206
BT-108	BT50	31.75	90	30	60	12.7	40	2.8	3212-208
BT-109		38.1	60	34	74	15.9	50	2.5	3212-209
BT-111		25.4	45	22	60	9.5	33	4.2	3212-211
BT-112	BT50	25.4	105	22	50	9.5	33	4.9	3212-212
BT-113		25.4	150	22	50	9.5	33	6.2	3212-213
BT-114		31.75	45	30	70	12.7	40	4.0	3212-214
BT-115		31.75	75	30	60	12.7	40	4.8	3212-215
BT-116		31.75	105	30	60	12.7	40	5.6	3212-216
BT-117		38.1	45	34	85	15.9	50	4.6	3212-217
BT-118		38.1	75	34	85	15.9	50	5.6	3212-218
BT-119		50.8	45	36	95	19.05	65	4.8	3212-219
BT-121		47.625	75	38	128.57	25.4	-	7.9	3212-221

METRIC FMB TYPE

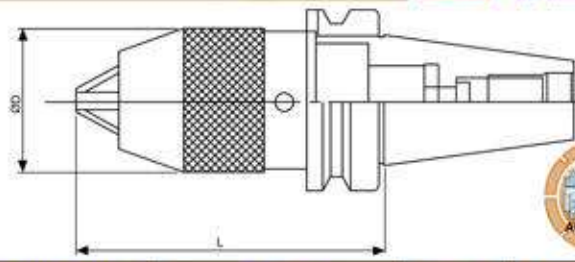
ORDER NO.	TAPER	D1	L1	H	C1	W	C4	N.W. (KG)	CODE NO.
BT-150	BT30	22	45	18	48	10	33	2.0	3212-267
BT-151		27	45	20	60	12	33	2.2	3212-268
BT-152	BT40	22	45	18	48	10	50	1.5	3212-269
BT-153		22	90	18	48	10	33	2.2	3212-270
BT-154		27	45	20	60	12	33	1.7	3212-271
BT-155		27	90	20	60	12	33	2.7	3212-272
BT-156		32	45	22	62	14	50	1.8	3212-273
BT-157	BT50	40	60	26	85	16	50	2.7	3212-274
BT-158		22	45	18	60	10	33	4.2	3212-275
BT-159		22	75	18	60	10	33	4.6	3212-276
BT-160		27	45	20	70	12	33	4.3	3212-277
BT-161		27	75	20	60	12	33	4.9	3212-278
BT-162		27	105	20	60	12	33	5.7	3212-279
BT-163		32	75	22	75	14	50	5.5	3212-280
BT-164		32	105	22	80	14	33	6.5	3212-281
BT-165		32	150	22	80	14	33	8.7	3212-282
BT-166		40	75	26	85	16	50	6	3212-283



Drill Chuck Holder / APU



کلت سه نظام اتومات



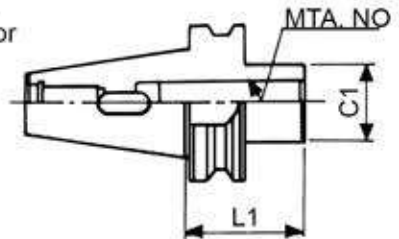
ORDER NO.	TAPER	ØD	KGS	CODE NO.
BT-180	BT30-APU08	37	1	3212-301
BT-181	BT30-APU13	50	1.4	3212-302
BT-182	BT40-APU08	37	1.5	3212-303
BT-183	BT40-APU13	50	2	3212-304
BT-184	BT40-APU16	58	2.5	3212-305
BT-186	BT50-APU13	50	4.7	3212-307
BT-188	BT50-APU16	58	4.8	3212-309

Morse Taper Adaptor

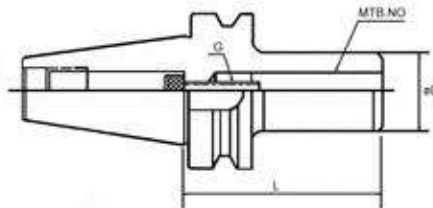
BT30,40,50-MTA,MTB

MAS 403 BT-SHANK

Pull Stud For MTA Adaptor



Pull Stud For MTB Adaptor



MTA TYPE (STANDARD TYPE)

ORDER NO.	TAPER	MT.NO.	L1	C1	WEIGHT(KG)	CODE NO.
BT-204	BT30	MT-2	60	32	0.6	3211-091
BT-207		MT-3	80	40	1.2	3211-092
BT-209		MT-1	50	25	1.1	3211-094
BT-212	BT40	MT-2	50	32	1.1	3211-095
BT-213		MT-2	120	32	1.4	3211-095A
BT-215		MT-3	75	40	1.3	3211-096
BT-216		MT-3	135	40	1.7	3211-096A
BT-218		MT-4	95	48	1.5	3211-097
BT-219		MT-4	165	48	2.3	3211-097A
BT-220		MT-1	45	25	3.5	3211-098
BT-223	BT50	MT-2	50	32	3.5	3211-099
BT-224		MT-2	135	32	4	3211-099A
BT-226		MT-3	65	40	3.6	3211-100
BT-227		MT-3	150	40	4.4	3211-100A
BT-229		MT-4	75	48	3.6	3211-101
BT-230		MT-4	180	48	4.9	3211-101A
BT-231		MT-5	105	65	4.2	3211-102

Morse Taper Adaptor



MTB TYPE (STANDARD TYPE)

ORDER NO.	TAPER	MT.NO.	L	ØD	G	WEIGHT(KG)	CODE NO.
BT-236	BT40	MTB1	45	25	M16	1	3211-105
BT-237		MTB2	45	32	M10	1	3211-106
BT-238		MTB3	75	40	M12	1.2	3211-107
BT-239		MTB4	75	48	M16	1.3	3211-108
BT-241	BT50	MTB2	45	32	M10	3.6	3211-110
BT-242		MTB3	60	40	M12	3.7	3211-111
BT-243		MTB4	75	48	M16	3.7	3211-112
BT-244		MTB5	120	65	M20	5.2	3211-113

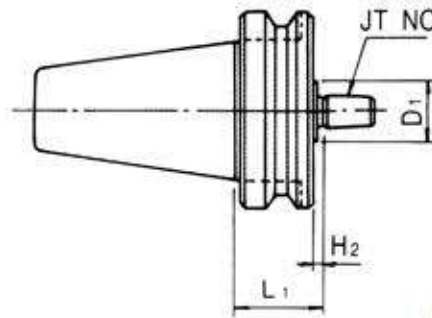


Jacobs Taper Arbor



MAS 403 BT-SHANK

کلت تست



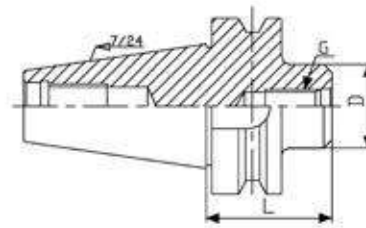
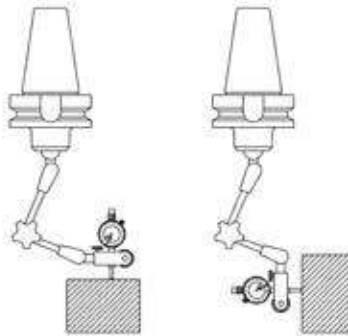
ORDER NO.	TAPER	JT.NO.	L1	D1	H2	WEIGHT (KG)	CODE NO.
BT-315	BT40	JT-6	45	30	4	1.2	3209-147
BT-316		JT-6	90	30	4	1.4	3209-148
BT-325	BT50	JT-6	45	30	4	4.2	3209-151
BT-332	BT40	B16*	45	30	4	1.45	3209-155
BT-332-1		B18*	45				3209-155A
BT-333	BT50	B16*	45	30	4	5.1	3209-156
BT-333-1		B18*	45				3209-156A



Lever Checking Holders



M8 THREAD FOR CHECKING ARM



ORDER NO.	L	ØD	G	kgs	CODE NO.
BT40-M8	47	30	M8	1.3	3029-160
BT50-M8	58	30	M8		3029-161



Test Arbor



ORDER NO.	TAPER	G CAN FOR PULL STUD	A	L	KGS	CODE NO.
A50	BT-50	M24xP3.0	40	250	5.3	3405-412
A40	BT-40	M16xP2.0	40		3.9	3405-413
A30	BT-30	M12xP1.75	30		2.4	3405-414



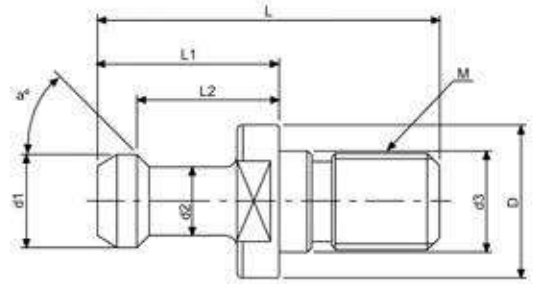
Pull Studs

BT 30, 40, 50



FOR MAS 403

پیچ پول استاد



THREAD GROUND

- MATERIAL: SNCM 21
- HARDNESS: HRC 54 \pm 2 $^{\circ}$
- SHANK BT-30(P 30T)
- SHANK BT-40(P 40T)
- SHANK BT-50(P 50T)

Unit:mm

ORDER NO.	TAPER NO.	a $^{\circ}$	L	L1	L2	D	d1	d2	d3	M	NOTE	CODE NO.
BT-510	BT30X90 $^{\circ}$	90	43	23	18	16.5	11	7	12.5	M12	P30T-3(90 $^{\circ}$)	3215-007
BT-501	BT30X45 $^{\circ}$	45	43	23	18	16.5	11	7	12.5	M12	P30T-1(45 $^{\circ}$)	3215-008
BT-502	BT30X60 $^{\circ}$	60	43	23	18	16.5	11	7	12.5	M12	P30T-2(60 $^{\circ}$)	3215-009
BT-511	BT40X90 $^{\circ}$	90	60	35	28	23	15	10	17	M16	P40T-3(90 $^{\circ}$)	3215-010
BT-503	BT40X45 $^{\circ}$	45	60	35	28	23	15	10	17	M16	P40T-1(45 $^{\circ}$)	3215-011
BT-504	BT40X60 $^{\circ}$	60	60	35	28	23	15	10	17	M16	P40T-2(60 $^{\circ}$)	3215-012
BT-512	BT50X90 $^{\circ}$	90	85	45	35	38	23	17	25	M24	P50T-3(90 $^{\circ}$)	3215-013
BT-505	BT50X45 $^{\circ}$	45	85	45	35	38	23	17	25	M24	P50T-1(45 $^{\circ}$)	3215-014
BT-506	BT50X60 $^{\circ}$	60	85	45	35	38	23	17	25	M24	P50T-2(60 $^{\circ}$)	3215-015



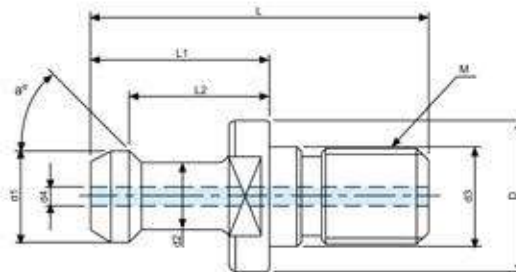
Pull Studs

MAS 403
BT-40,50

JIS B6339-1986

• With through hole for internal coolant

FOR MAS 403

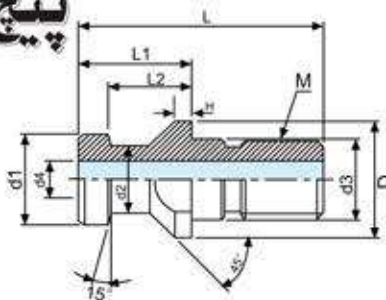


Unit:mm

ORDER NO.	TAPER NO.	a $^{\circ}$	L	L1	L2	D	d1	d2	d3	d4	M	CODE NO.
BT-516	BT40X45 $^{\circ}$ W	45	60	35	28	23	15	10	17	4	M16	3215-060
BT-517	BT40X60 $^{\circ}$ W	60	60	35	28	23	15	10	17	4	M16	3215-061
BT-518	BT40X90 $^{\circ}$ W	90	60	35	28	23	15	10	17	4	M16	3215-062
BT-519	BT50X45 $^{\circ}$ W	45	85	45	35	38	23	17	25	7	M24	3215-063
BT-520	BT50X60 $^{\circ}$ W	60	85	45	35	38	23	17	25	7	M24	3215-064
BT-521	BT50X90 $^{\circ}$ W	90	85	45	35	38	23	17	25	7	M24	3215-065

FOR DIN 69872-1988

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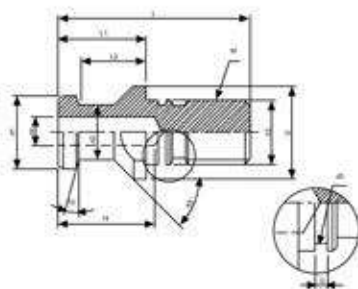
With Collant Hole



DIN 69872, (WITH THROUGH HOLE)-A TYPE

Unit:mm

ORDER NO.	TAPER NO.	L	L1	L2	D	d1	d2	d3	d4	M	H	CODE NO.
BT-522	DIN30-A	44	24	19	17	13	9	13	3	M12		3215-066
BT-523	DIN40-A	54	26	20	23	19	14	17	7	M16	4	3215-067
BT-524	DIN40-A-L	54	29	23	23	19	14	17	7	M16		3215-068
BT-525	DIN50-A	74	34	25	36	28	21	25	11.5	M14		3215-069



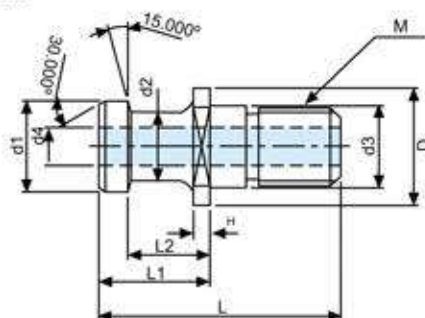
WITHOUT O-RING DIN69872-B TYPE

Unit:mm

ORDER NO.	TAPER NO.	L	L1	L2	I3	I4	D	d1	d2	d3	d4	M	CODE NO.
BT-526	DIN30-B	44	24	19	1.4		17	13	9	13		M12	3215-070
BT-527	DIN40-B	54	26	20	1.9	27	23	19	14	17	7	M16	3215-071
BT-528	DIN50-B	74	34	25	3	37	36	28	21	25	11.5	M24	3215-072

ISO-A TYPE

FOR ISO/JIS 7388/2/A-1984A



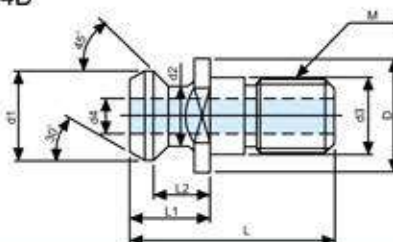
With Collant Hole

Unit:mm

ORDER NO.	TAPER NO.	L	L1	L2	D	d1	d2	d3	d4	M	H	CODE NO.
BT-529	ISO40-A	54	26	20	23	29	24	27	7	M16	3	3215-073
BT-530	ISO50-A	74	34	25	36	28	21	25	11.5	M24		3215-074

ISO-B TYPE

FOR ISO/JIS 7388/2/B-1984B



With Collant Hole

Unit:mm

ORDER NO.	TAPER NO.	L	L1	L2	D	d1	d2	d3	d4	M	CODE NO.
BT-531	ISO40-B	44.5	16.4	11.15	22.5	18.95	12.95	17	7.35	M16	3215-075
BT-532	ISO50-B	65.5	25.5	17.95	37	29.1	19.6	25	11.55	M24	3215-076

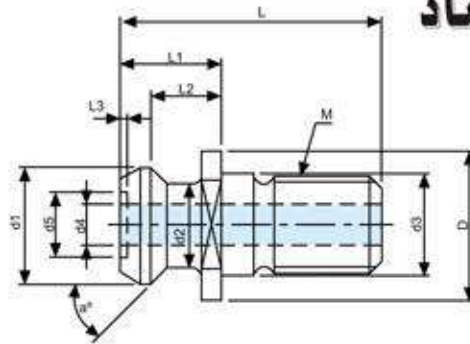


Pull Studs



پیچ پول استاد

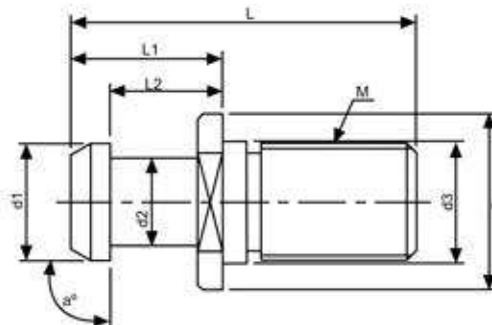
MAZAK FOR MAZAK MACHINE



Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	L3	D	d1	d2	d3	d4	d5	M	CODE NO.
BT-533	MAZAK BT50	45	65.2	25.2	17.58	1.8	37	28.95	20.83	25	10	16	M24	3215-077
BT-534	MAZAK BT40	45	44.1	19.1	14		22	18.8	12.45	17	7		M16	3215-078
BT-535	MAZAK CAT40	45	44.1	16.1	11		22	18.8	12.45	17	7		M16	3215-079

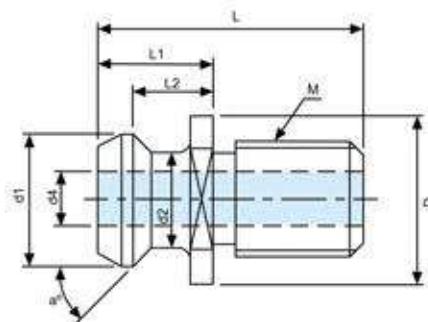
MITSUI FOR MITSUI MACHINE



Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	D	d1	d2	d3	M	CODE NO.
BT-536	MITSUI BT40	90	50	25	18	23	15	10	17	M16	3215-080
BT-537	MITSUI BT50	90	71	31	23	36	24	18	25	M24	3215-081

CAT FOR ANSI B5-50



Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	D	d1	d2	d4	M	CODE NO.
BT-538	CAT40	45	38.1	16.2	11.2	23.8	18.8	12.4	7.1	5/8"	3215-082
BT-539	CAT50	45	58.4	25.4	17.8	36	28.9	20.8	11.8	1"	3215-083

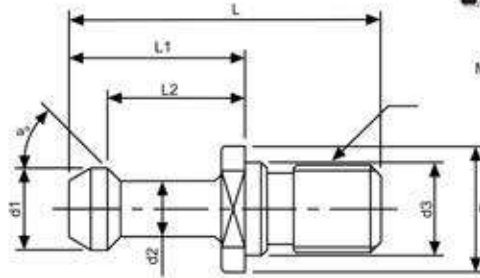


Pull Studs



پیچ پول استاد

CAT-BT FOR BT MACHINE



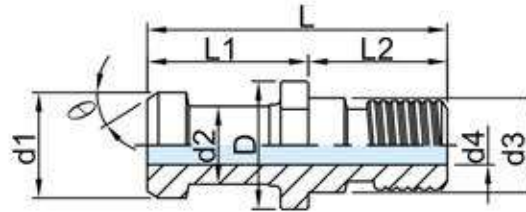
Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	D	d1	d2	d3	M	CODE NO.
BT-540	CAT40X45°	45	57	32	25	23	15	10		5/8"	3215-084
BT-541	CAT40X60°	60	57	32	25	23	15	10		5/8"	3215-085
BT-542	CAT40X90°	90	57	32	25	23	15	10		5/8"	3215-086
BT-543	CAT50X45°	45	78.6	45	35.2	38	23	17		1"	3215-087
BT-544	CAT50X60°	60	78.6	45	35.2	38	23	17		1"	3215-088
BT-545	CAT50X90°	90	78.6	45	35.2	38	23	17		1"	3215-089
BT-546	CAT40X45°M	45	57	32	25	23	15	10	17	M16	3215-090
BT-547	CAT40X60°M	60	57	32	25	23	15	10	17	M16	3215-091
BT-548	CAT40X90°M	90	57	32	25	23	15	10	17	M16	3215-092



Pull Studs

FOR JIS 6339B-40P



With Collant Hole
OKUNMA JIS #40

Unit:mm

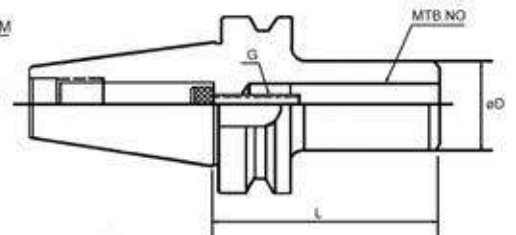
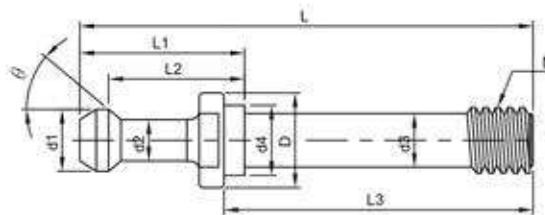
ORDER NO.	TAPER NO.	a°	L	L1	L2	D	d1	d2	d3	d4	M	CODE NO.
BT-556	JIS	30	54	29	23	23	19	14	17	7	M16	3215-111

STEEL: SNCM-21



Pull Studs

FOR MAS 403



Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	L3	D	d1	d2	d3	d4	M	CODE NO.
BT-560	BT40-MTB3	45	105	35	28	70	23	15	10	17	13	M12	3215-121
BT-561	BT40-MTB4	45	110	35	28	75	23	15	10	17	13	M16	3215-122



Sidelock End Mill Holder



DIN69871 A
WELDON TYPE
DIN 69871A

کلت سه نظام

■ Dimensions:

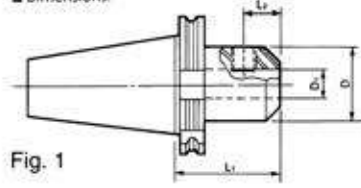


Fig. 1

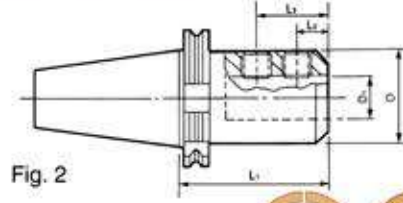


Fig. 2



Unit:mm

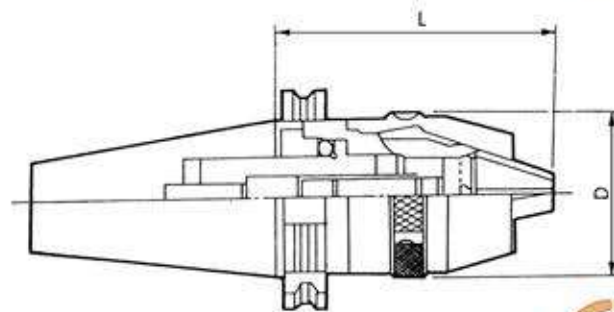


ORDER NO.	SIZE	Fig.	D1	D	L1	L2	L3	WEIGHT (kg)	CODE NO.
SK-417	SK40-EM6-50	1	6	25	50	18	-	1	3213-207
SK-418	SK40-EM8-50	1	8	28	50	18	-	1.1	3213-208
SK-419	SK40-EM10-50	1	10	35	50	20	-	1.1	3213-209
SK-420	SK40-EM12-50	1	12	42	50	22.5	-	1.2	3213-210
SK-421	SK40-EM16-63	1	16	48	63	24	-	1.5	3213-211
SK-422	SK40-EM20-63	1	20	52	63	25	-	1.4	3213-212
SK-423	SK40-EM25-100	2	25	65	100	24	49	2.4	3213-213
SK-427	SK50-EM10-63	1	10	35	63	20	-	3.4	3213-217
SK-428	SK50-EM12-63	1	12	42	63	22.5	-	3.4	3213-218
SK-429	SK50-EM16-63	1	16	48	63	24	-	3.5	3213-219
SK-430	SK50-EM20-63	1	20	52	63	25	-	3.5	3213-220
SK-431	SK50-EM25-80	2	25	65	80	24	49	3.8	3213-221



Drill Chuck Holder / APU

DIN 69871A



Unit:mm

ORDER NO.	SIZE DIN 69871A	SAME SIZE	Clamping range (Ømm)	D	L		WEIGHT (kg)	CODE NO.
					Minimum	Maximum		
SK-511	SK40-APU08	INT-8-SK40	0.5-8	35.6	81	90	1.4	3301-001
SK-512	SK40-APU13	INT-13-SK40	1-13	52	99	111	1.9	3301-002
SK-514	SK50-APU13	INT-13-SK50	1-13	52	93	106	3.9	3301-004
SK-509	SK30-APU08	INT-8-SK30	0.5-8	35.6	80	88	0.7	3301-005
SK-510	SK30-APU13	INT-13-SK30	1-13	52	98	104	1.34	3301-006
SK-515	SK40-APU16	INT-16-SK40	3-16	56.8	127	140	2.4	3301-007
SK-516	SK50-APU16	INT-16-SK50	3-16	56.8	98	111	3.9	3301-008

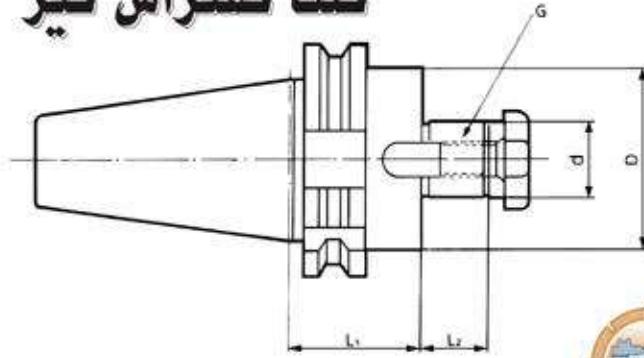
Face Mill Holder

Holder For Face Mill Cutter.
DIN69871 A



DIN 69871A

کلت کف تراش گیر



Unit:mm

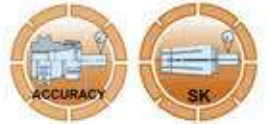
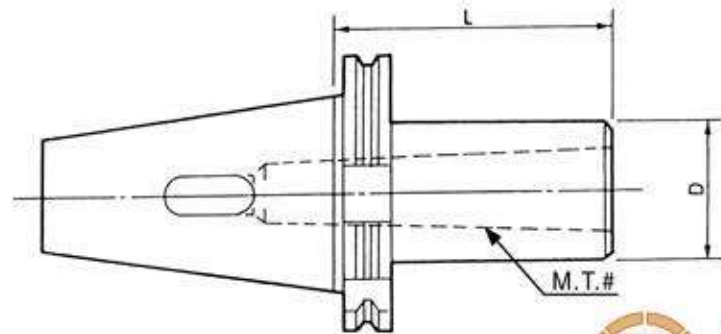


ORDER NO.	SIZE	d	D	L1	L2	G	WEIGHT(kg)	CODE NO.
SK-112	SK40-FMB22-50	22	48	50	18	M10	1.5	3211-202
SK-113	SK40-FMB27-50	27	60	50	20	M12	1.6	3211-203
SK-114	SK40-FMB32-50	32	62	50	22	M16	2.1	3211-204
SK-117	SK50-FMB22-50	22	60	50	18	M10	3.5	3211-205
SK-118	SK50-FMB27-50	27	70	50	20	M12	3.5	3211-206
SK-119	SK50-FMB32-60	32	75	60	22	M16	3.7	3211-207
SK-120	SK50-FMB40-60	40	85	60	26	M20	4.7	3211-208

Morse Taper Holder-DIN 6383

Holder For Morse Taper Shank With Tang.
DIN69871 A

DIN 69871A



Unit:mm



ORDER NO.	SIZE	M.T.#	L	D	WEIGHT(kg)	CODE NO.
SK-214	SK40-MT1-45	1	45	25	1	3211-133
SK-215	SK40-MT2-50	2	50	32	1	3211-134
SK-216	SK40-MT3-70	3	70	40	1.2	3211-135
SK-217	SK40-MT4-95	4	95	48	1.3	3211-136
SK-218	SK50-MT1-45	1	45	25	3	3211-137
SK-219	SK50-MT2-60	2	60	32	2.9	3211-138
SK-220	SK50-MT3-65	3	65	40	3	3211-139



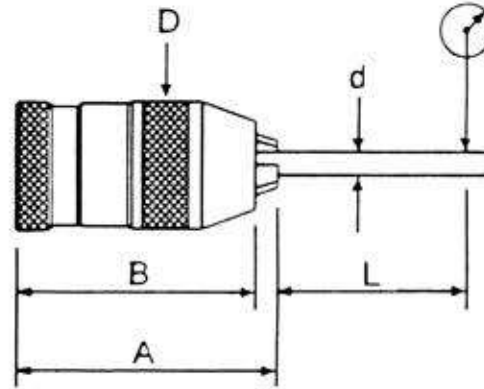
Integrated Type Keyless Drill Chucks

FOR DRILL ONLY , NOT FOR END MILL OR TAP

CAT-TYPE



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ORDER NO.	Clamping Capacity		Taper	OUTER Ø / mm	WEIGHT (kgs)	CODE NO.
	mm	inch				
INT-8-CAT30	0.5-8	1/64"-1/8"	CAT30	Ø35	0.8	3301-073
INT-13-CAT30	0.5-13	1/64"-1/2"		Ø51.5	1	3301-074
INT-8-CAT40	0.5-8	1/64"-1/8"	CAT40	Ø35	1.32	3301-075
INT-13-CAT40	0.5-13	1/64"-1/2"		Ø51.5	2.1	3301-076
INT-16-CAT40	3-16	1/8"-5/8"		Ø58	2.26	3301-077
INT-13-CAT50	0.5-13	1/64"-1/2"	CAT50	Ø51.5	3.95	3301-078
INT-16-CAT50	3-16	1/8"-5/8"		Ø58	4.2	3301-079

ACCURACY

ITEM NO.	d mm	L mm	Max Tolerance mm	Torque kgf-cm
INT-8	3	25	0.05	160
	6			
INT-10	8	30	0.05	260
	3			
	6			
INT-13	10	30	0.05	400
	5			
	10			
INT-16	13	25	0.05	480
	5			
	10			
	16	30		



Integrated Type Keyless Drill Chucks

CAN FOR TAP

RL type keyless drill chuck with BT SHANK

SK SHANK

NT SHANK



- RL type drill has reinforce torque design to increase more clamping capacity.
- Right turn and left turn allowable.
- No sudden drop when stop or suddenly shift to different direction.
- Highest speed 6000rpm.
- Shorten the shank length which is stronger than traditional design improves the total rigidity.

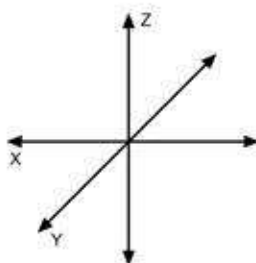
ORDER NO.	Clamping Capacity mm / d	L	D	G	CODE NO.
BT40-VRL13	0.5-13	95	50	M16	3301-090
BT40-VRL16	3-16	113	57	M16	3301-091
SK40-VRL13	0.5-13	85	50	M16	3301-092
SK40-VRL16	3-16	95	57	M16	3301-093
NT40-VRL13	0.5-13	112	50	5/8"-11unc	3301-094
NT40-VRL16	3-16	120	57	M16	3301-095

مرکز یاب ۳ بعدی



Find your exact zero points in all three axes in seconds with the new distance measuring scale (graduated and analogue).

- Black scale for radial deflection.
- Red scale for axial deflection
- Precise and effortless caliper of fixtures and workpiece edges.
- Setting of NC-programme zero points in seconds.
- Measuring of clamped workpieces.
- Generous overrun allowances prevent damage to Taster stylus.
- Easy and precise change of stylus.
- Weight: 0.93 KGS



STYLUS

Change stylus in seconds

No screws or special tools required
Easy precision plug-in mechanism

ORDER NO.	TYPE	WEIGHT	CODE NO.
V-3D-05	ø4x33 standard stylus	10g	3219-005
V-3D-06	ø8x75 long stylus	15g	3219-006

TYPE	ACCURACY
3D-Taster	0.01mm



KNT Type Keyless Drill Chucks

FOR DRILL ONLY , NOT FOR END MILL OR TAP

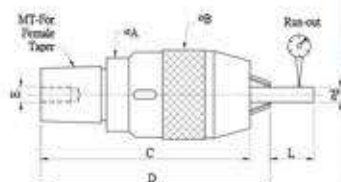
This chuck for CNC keyless drill chuck holders, built by the highest engineering standard.



- Integrated drill chuck and holder once lock with a pull stud, the chuck will never come off.
- Special design ensures high rigidity.
- High service reliability.
- Easy to operate, long service life.
- 100% test and strict quality control assure the highest accuracy.
- 2500R.P.M

ACCURACY

ITEM NO.	Ød mm	L mm	Max Run-out mm	Torque kgf-cm
KNT-8	3	35	0.05	160
	6			
	8	50		
KNT-13	5	55	0.05	320
	10			
	13	75		
KNT-16	5	55	0.05	480
	10			
	16	80		



ORDER NO.	Clamping Capacity	For Female Taper	ØA	ØB	C	D	E	kg	QTY Pcs/Cu-Ft	NW/GW Kgs	CODE NO.
KNT-8	0.5-8	MT2	30	35	82.5	90	M6x1.0	0.3	40/0.6	15/16	3033-600
KNT-13	0.5-13	MT2	30	56	76	101	M8x1.25	1	30/0.6	30/31	3033-601
		MT3	38		106	118					3033-601A
KNT-16	3-16	MT3	43	56	115	128	M8x1.25	1.3	18/0.6	24/25	3033-602



Integrated Type Keyless Drill Chucks



کلت سه نظام

ORDER NO.	Clamping Capacity		Female Taper DIN or Jacobs	OUTER Ø / mm	Length		WEIGHT (kgs)	CODE NO.
	Ø mm	Ø inch			Open B mm	Closed A mm		
INT-8-MT-2	0.5-8	0-5/16"	MT-2	36	150	157	0.8	3301-030
INT-8-JC-20	0.5-8	0-5/16"	JC-20	36	134	141	0.8	3301-031
INT-8-BT30	0.5-8	1/64"-1/8"	BT30	36	78	85	1	3301-070
INT-8-BT40	0.5-8	1/64"-1/8"	BT40	36	77	86	1.5	3301-072
INT-8-NT30	0.5-8	1/64"-1/8"	NT30	36	67	75	0.8	3301-080
INT-8-NT40	0.5-8	1/64"-1/8"	NT40	36	66	74	1.3	3301-081
INT-8-SK40	0.5-8		SK-40	36	81	87	1.4	3301-083
INT-13-R8	1-13	1/64"-1/2"	R8	50	196	205	1.5	3301-032
INT-13-MT2	1-13	0-1/2"	MT-2	50	172	184	1.3	3301-082
INT-13-MT3	1-13	0-1/2"	MT-3	50	190	201	1.4	3301-033
INT-13-MT4	1-13	0-1/2"	MT-4	50	216	227	1.8	3301-034
INT-13-JC-20	1-13	0-1/2"	JC-20	50	153	164	1.4	3301-035
INT-13-JC-25	1-13	0-1/2"	JC-25	50	163	174	1.6	3301-036
INT-13-JC-32	1-13	0-1/2"	JC-32	50	173	185	1.8	3301-037
INT-13-NT30	1-13	0-1/2"	NT-30	50	86	99	1.4	3301-038
INT-13-NT40	1-13	0-1/2"	NT-40	50	85	96	1.8	3301-039
INT-13-BT30	1-13	1/64"-1/2"	BT30	50	96	108	1.4	3301-071
INT-13-BT40	1-13	0-1/2"	BT-40	50	100	111	2	3301-040
INT-13-BT50	1-13	0-1/2"	BT-50	50	106	117	4.7	3301-041
INT-13-NT50	1-13	0-1/2"	NT-50	50	100	112	4.3	3301-059
INT-13-SK30	1-13		SK-30	50	99	111	1.34	3301-084
INT-13-SK40	1-13		SK-40	50	100	113	1.9	3301-085
INT-13-SK50	1-13		SK-50	50	93	106	3.9	3301-087
INT-16-R8	3-16	1/8"-5/8"	R8	57	198	211	1.9	3301-042
INT-16-MT3	3-16	1/8"-5/8"	MT3	57	194	207	1.9	3301-043
INT-16-MT4	3-16	1/8"-5/8"	MT4	57	219	232	2	3301-044
INT-16-JC-20	3-16	1/8"-5/8"	JC-20	57	152	165	1.8	3301-045
INT-16-JC-25	3-16	1/8"-5/8"	JC-25	57	162	178	1.7	3301-046
INT-16-JC-32	3-16	1/8"-5/8"	JC-32	57	184	179	2.2	3301-047
INT-16-NT40	3-16	1/8"-5/8"	NT-40	57	113	126	2.6	3301-049
INT-16-BT40	3-16	1/8"-5/8"	BT-40	57	113	127	2.5	3301-050
INT-16-BT50	3-16	1/8"-5/8"	BT-50	57	111	124	5	3301-051
INT-16-NT50	3-16	1/8"-5/8"	NT-50	57	104	117	4.5	3301-056
INT-16-SK40	3-16	1/8"-5/8"	SK-40	57	127	141	2.4	3301-057
INT-16-SK50	3-16	1/8"-5/8"	SK-50	57	97	110	3.9	3301-058

ORDER NO.	SIZE DIN 69871A	Clamping range (Ømm)	D	L		WEIGHT (kg)	CODE NO.
				Minimum	Maximum		
INT-8-SK40	SK40-APU08	0.5-8	35.6	81	87	1.4	3301-001
INT-13-SK40	SK40-APU13	1-13	52	100	113	1.9	3301-002
INT-13-SK50	SK50-APU13	1-13	52	93	106	3.9	3301-004
INT-13-SK30	SK30-APU13	1-13	52	99	111	1.34	3301-006
INT-16-SK40	SK40-APU16	3-16	56.8	127	140	2.4	3301-007
INT-16-SK50	SK50-APU16	3-16	56.8	97	110	3.9	3301-008

ORDER NO.	Clamping Capacity		Taper	OUTER Ø / mm	WEIGHT (kgs)	CODE NO.
	mm	inch				
INT-8-CAT30	0.5-8	1/64"-1/8"	CAT30	Ø36	0.8	3301-073
INT-13-CAT30	0.5-13	1/64"-1/2"		Ø50	1	3301-074
INT-8-CAT40	0.5-8	1/64"-1/8"	CAT40	Ø36	1.32	3301-075
INT-13-CAT40	0.5-13	1/64"-1/2"		Ø50	2.1	3301-076
INT-16-CAT40	3-16	1/8"-5/8"		Ø57	2.26	3301-077
INT-13-CAT50	0.5-13	1/64"-1/2"	CAT50	Ø50	3.95	3301-078
INT-16-CAT50	3-16	1/8"-5/8"		Ø57	4.2	3301-079



Integrated Type Keyless Drill Chucks VERTEX®

FOR DRILL ONLY , NOT FOR END MILL OR TAP

کلت سه نظام



FOR SPECIFICATION PLEASE SEE P.C76

The main-shafts is of integrated type, which is much more superior than the traditional design. The major features are as follows:

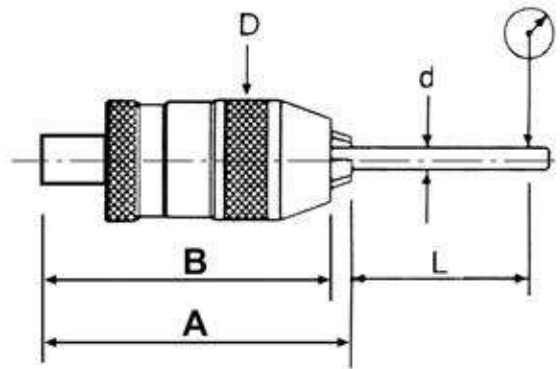
- Extremely rigid construction. Accuracy is same as page C66
- The accumulative tolerances can be reduced to a minimum, since the traditional mechanism requiring an ARBOR to connect the Drill Chucks which will generate the accumulative tolerances. The Integrated type Keyless Drill Chuck is designed to solve this problem totally.
- Prevent the Drill Chucks from falling out.
- Extremely safe in operation.
- 2500 R.P.M.



STANDARD ACCES.

ACCURACY

ITEM NO.	d mm	L mm	Max Tolerance mm	Torque kgf-cm
INT-8	3	25	0.05	160
	6	30		
	8	30		
INT-10	3	25	0.05	260
	6	30		
	10	30		
INT-13	5	30	0.05	400
	10	25		
	13	25		
INT-16	5	25	0.05	480
	10	30		
	16	30		





Keyless Drill Chucks

TYPE:S FOR DRILL ONLY , NOT FOR END MILL OR TAP



HEAVY DUTY TYPE S

سه نظام اتومات

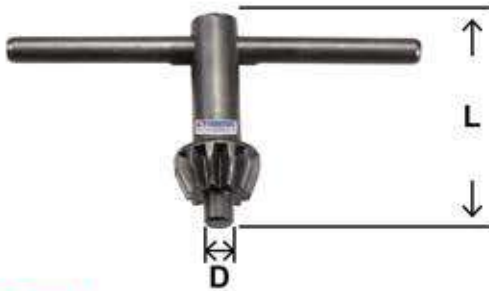
Extremely high accuracy and precision design, suitable for CNC machines and machine center. All parts are ground, heat treated, surface treated and under specific QC condition.



ORDER NO.	Size	Capacity		Taper Mount No DIN or Jacobs	Length(m/m)		Outer Dia (m/m)	Weight (g)	CODE NO.
		mm	inch		Open	Closed			
12201-1	8S	0.5-8	0-5/16	JT1	68	76	38	460	3302-060
12201-2				JT2S	68	76	38	450	3302-061
12201-3				B10	68	76	38	420	3302-062
12201-4				B12	68	76	38	450	3302-063
12202-1	10S	1-10	0-3/8	JT2	80	92	43	660	3302-064
12202-2				JT33	80	92	43	630	3302-065
12202-3				B10	80	92	43	640	3302-066
12202-4				B12	80	92	43	670	3302-067
12203-1	13S	1-13	0-1/2	JT33	90	102	49	970	3302-068
12203-2				JT6	90	102	49	1020	3302-069
12203-3				B12	90	102	49	1040	3302-070
12203-4				B16	90	102	49	1030	3302-071
12205-1	16S	3-16	1/8-5/8	JT6	97	110	55	1330	3302-073
12205-2				JT3	97	110	55	1330	3302-074
12205-3				B16	97	110	55	1340	3302-075
12205-4				B18	97	110	55	1360	3302-076



Keys Steel



ORDER NO.	Type	Dmm	Lmm	Weight(g)	Packing	CODE NO.
14001	T1	3.2	35	20	Plastic Bag	3304-100
14002	T2	4	42	40		3304-101
14003	T3	5.5	44	45		3304-102
14004	T4	6	45	55		3304-103
14005	T5	6.5	45	50		3304-104
14007	T7	8	50	80		3304-106
14008	T8	9.5	65	150		3304-107
14009	T9	11	100	320		3304-108



Note

CAUTIONS



CAUTIONS:

- ✘ DO NOT USE END MILL AND TAP WITH DRILL CHUCK
- DRILL CHUCK ONLY CAN PROCESS VERTICAL JOB.
- ADD COOLANT WHILE HEAVY CUTTING.
- ✘ WHILE PROCESSING:
DO NOT MAKE HORIZONTAL MOVEMENT
OR ELSE, IT WILL CAUSE 3 JAWS' DEFORMATION.
NOT FOR END MILL.



Keyless Drill Chucks



TYPE: XHSP

SPECIAL HEAVY DUTY TYPE

سه نظام اتومات

FOR DRILL ONLY , NOT FOR END MILL OR TAP



- Special design & manufacture against for super heavy torque(Clamping capacity) use.
- Owing to inspecting strictly & with excellent RUNOUT Accuracy and quality guanteed the gripping power is double than the general brand.
- Avoid the drill dropped when used in instaneous change of direction and equipped with spanner hole for tightening perfect safety.
- Especially suitable for CNC machining center & milling machine use.
- Accuracy: 50 mm length within 0.05 mm
- The key is optional

OPTIONAL ACCES.

Unit:mm

ORDER NO.	TYPE	Clamping Capacity		Female Taper DIN or Jacobs	OUTER Ø / mm	Length		Wt g	QTY Pcs./ Cu-Ft	N.W/G.W kgs	CODE NO.
		Ø mm	Ø inch			Open B mm	Closed A mm				
11015	8XHSP	0.5-8	0-5 / 16"	B10	34.3	64.8	72.7	320	40/0.6	13/14	3302-002
11016				J1	34.3	64.8	72.7	320	40/0.6	13/14	3302-003
11017				B12	34.3	64.8	72.7	320	40/0.6	13/14	3302-004
11018	10XHSP	1-10	0-3 / 8"	J33	42.4	80.8	91.1	700	40/0.6	28/29	3302-005
11019				J2S	42.4	80.8	91.1	700	40/0.6	28/29	3302-006
11020				B12	42.4	80.8	91.1	700	40/0.6	28/29	3302-007
11021				B16	42.4	80.8	91.1	700	40/0.6	28/29	3302-008
11025	13XHSP	1-13	0-1 / 2"	J6	50.3	93.7	105.3	1030	30/0.6	31/32	3302-009
11026				J33	50.3	93.7	105.3	1035	30/0.6	31/32	3302-010
11027				B16	50.3	93.7	105.3	1030	30/0.6	31/32	3302-011
11028	16XHSP	3-16	1/8 - 5/8"	J6	52	97	110.3	1450	24/0.6	35/36	3302-012
11029				B16	52	96.1	110.3	1450	24/0.6	35/36	3302-013
11030				B18	52	97	110.4	1450	24/0.6	35/36	3302-014
11035				J3	52	100.5	105.3	1450	24/0.6	35/36	3302-015
17000	6XHSP	0.5-6.5	1/64" - 1/4"	B12	34	64.8	72.7	320	40/0.6	13/14	3304-010
17002				J1	34	64.8	72.7	320	40/0.6	13/14	3304-011
17004				B10	34	64.8	72.7	320	40/0.6	13/14	3304-012
11031	Key	13XHSP		OPTIONAL ACCES.							3304-001
11032		16XHSP									3304-002
11033		8XHSP									3304-003
11034		10XHSP									3304-004



Keyless Drill Chucks

TYPE: H

FOR DRILL ONLY , NOT FOR END MILL OR TAP

STANDARD TYPE



Unit:mm

ORDER NO.	TYPE	Clamping Capacity		Female Taper DIN or Jacobs	OUTER Ø mm	Length		Wt g	CODE NO.
		Ø mm	Ø inch			Open B mm	Closed A mm		
11061	6H	0-6.5	0-1 / 4"	J1	34	64.8	72.7	410	3302-030
11062				B10	34	64.8	72.7	400	3302-031
11063	8H	0.5-8	0-5 / 16"	J1	34	64.8	72.7	400	3302-032
11064				B10	34	64.8	72.7	400	3302-033
11065	10H	1-10	0-3 / 8"	J2S	42.5	80.8	91.1	720	3302-034
11066				J33	42.5	80.8	91.1	700	3302-035
11067				B12	42.5	80.8	91.1	720	3302-036
11068				B16	42.5	80.8	91.1	700	3302-037
11070	13H	1-13	0-1 / 2"	J6	50.5	93.7	105.3	1070	3302-039
11071				J33	50.5	93.7	105.3	1035	3302-040
11072				B16	50.5	93.7	105.3	1080	3302-041
11073	16H	3-16	1/8 - 5/8"	J6	50.5	93.7	105.8	1070	3302-042
11074				B16	50.5	93.8	105.9	1080	3302-043
11075				B18	50.5	97.7	110	1090	3302-044

- Industrial design especially for life and safety while in operation.
- All hardened parts ensure long term for milling machines and drilling.
- Accuracy: 35 m/m length within 0.08 m/m



Key Type Drill Chucks



سه نظام آچاری



- Suitable for heavy duty & extra heavy duty.
- For milling machine, lathe, drill machine & wood working machine.
- With keys

ORDER NO.	TYPE	Clamping Capacity		Female Taper DIN or Jacobs	Female Thread Inch or metric	OUTER Ø / mm	Length		Wt g	Key Size	CODE NO.
		mm	inch				Open B mm	Closed A mm			
10001	4H	0.5-4	1/64"-5/32"	J0		22	29	35	120	T1	3303-060
10003	6H	0.5-6.5	1/64"-1/4"	J1		32	40	50	230	T2	3303-062
10004				B10		32	40	50	190	T2	3303-063
10010	10H	1-10	1/32"-3/8"	J2		38	50.5	64	320	T3	3303-065
10011				J2S		38	50.5	64	320	T3	3303-066
10012				B12		38	50.5	64	330	T3	3303-067
10038	13H	1-13	1/32"-1/2"	J2S		47	65	81	520	T5	3303-071
10038-2					3/8-24	47	65	81	520	T5	3303-071-2
10038-3					1/2-20	47	65	81	330	T5	3303-071-3
10039				J6		47	65	81	570	T5	3303-072
10040				B16		47	65	81	580	T5	3303-073
10041				J33		47	65	81	580	T5	3303-074
10061	16H	1-16	1/32"-5/8"	J6		56	78	96	990	T7	3303-077
10062				J3		56	78	96	960	T7	3303-078
10063				B16		56	78	96	990	T7	3303-079
10064				B18		56	78	96	970	T7	3303-080
10072	19H	3-19	1/8"-3/4"	B22		67.5	89	126	1660	T8	3303-083
10073				J3		67.5	89	126	1680	T8	3303-084
10046	13XH	1-13	1/32"-1/2"	J6	1/2-20	52	69	82	770	T7	3303-086
10079	19XH	1-19		J4		69	94	132	1720	T8	3303-089

Material Analysis Table

PART NO.	PART NAME	MATERIAL	HEAT TREATED
1	Body	JIS-4051 SAE 1045	HRC45-48
2	Case	JIS-4018 SAE 1018	HRC38-40
3	Jaw	JIS-4051 SAE 1045	HRC52±2
4	Nut	JIS-4051 SAE 1045	HRC61±2

Run-out Accuracy & Torque Inspection Table

Type	4H	5H	6.5H	10H	13H	16H	19H	13XH	19XH
Ødmm	3.5	4.5	6	9	12	15	18	12	18
Lmm	60	80	90	110	140	150	150	140	150
L1mm	40	60	70	85	110	120	120	110	120
Max Run-out	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Torque kg-m	18	20	45	75	85	250	300	190	300



Changeable 2 Inserts Rough Boring Head VRB

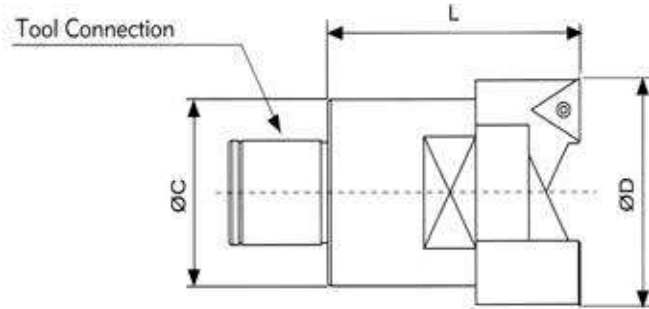


VMH-SYSTEM

Boring diameter from $\varnothing 25$ - $\varnothing 350$ mm

※Adjustable

هدبورینگ خشن تراش



● INSERT STYLE -C ◆
-T ▲
-S ■

	ORDER NO.	Tool connection	D(mm) Boring Range		L (mm)	C (mm)	Insert	Weight (g)	CODE NO.
		VRB25-33C	B2080	25	33	45	24	CCMT060204	0.15
VRB32-42C		B3080	32	42	55	31	CCMT060204	0.3	3320-271
VRB32-42T							TCMT110204		3320-272
VRB40-55C		B4070	40	55	65	39	CCMT09T304	0.5	3320-273
VRB40-55T							TCMT16T304		3320-274
VRB40-55S							SCMT09T304		3320-275
VRB52-70C		B5060	52	70	75	50	CCMT09T304	1	3320-276
VRB52-70T							TCMT16T304		3320-277
VRB52-70S							SCMT09T304		3320-278
VRB68-92C		B6065	68	92	85	64	CCMT120408	2	3320-279
VRB68-92T							TCMT16T304		3320-280
VRB68-92S							SCMT120404		3320-281
VRB90-122C		B6065	90	122	100	80	CCMT120408	2.9	3320-282
VRB90-122T	TCMT220408						3320-283		
VRB90-122S	SCMT120404						3320-284		
	VRB120-164C	VT-BT40-BS70 VT-BT50-BS100 VT-BT50-BS200 VT-BT50-BS300 VT-BT50-BS400	120	164	95	100	CCMT120408	3.8	3320-285
	VRB120-164T						TCMT220408		3320-286
	VRB120-164S						SCMT120404		3320-287
	VRB160-204C		160	204	130	CCMT120408	4.8	3320-288	
	VRB160-204T					TCMT220408		3320-289	
	VRB160-204S					SCMT120404		3320-290	
	VRB200-300C	VT-BT40-BS70 VT-BT50-BS100 VT-BT50-BS200 VT-BT50-BS300 VT-BT50-BS400	200	300	95	170	CCMT120408	6.5	3320-291A
	VRB200-300T						TCMT220408		3320-292A
	VRB200-300S						SCMT120404		3320-293A
	VRB300-400C		300	400	260	CCMT120408	10	3320-297A	
	VRB300-400T					TCMT220408		3320-298A	
	VRB300-400S					SCMT120404		3320-299A	

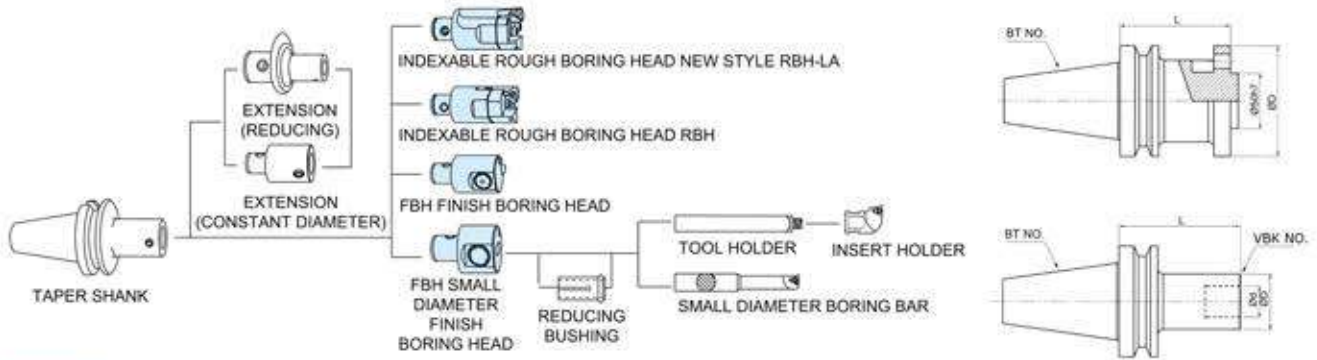


Taper Shank For Boring Heads Series

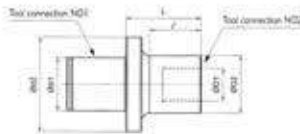


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Modular Boring Systems



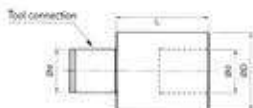
Extension (Reduced)



ORDER NO.	d1	d2	D1	D2	L	ℓ	Applicable Boring Heads	Weight (kg)	CODE NO.
VBQ2-1-36	14	24	11	19	36	30	FBB20	0.1	3320-301
VBQ3-1-41					41	30	FBB20	0.15	3320-302
VBQ3-2-37	18	31	14	24	37	25	VRB25; FBB25	0.15	3320-303
VBQ4-1-58	22	39	11	19	58	40	FBB20	0.3	3320-304
VBQ4-2-50			14	24	50	36	VRB25; FBB25	0.3	3320-305
VBQ4-3-50			18	31	50	37	VRB32; FBB32	0.35	3320-306
VBQ5-1-60	28	50	11	19	60	40	FBB20	0.45	3320-307
VBQ5-2-54			14	24	54	35	VRB25; FBB25	0.45	3320-308
VBQ5-2-74					74	55	VRB25; FBB25	0.5	3320-309
VBQ5-3-47			18	31	47	29	VRB32; FBB32	0.5	3320-310
VBQ5-3-72					72	54	VRB32; FBB32	0.6	3320-311
VBQ5-4-42			22	39	42	25	VRB40; FBB40	0.5	3320-312
VBQ5-4-67			67	50	VRB40; FBB40	0.7	3320-313		
VBQ6-1-70	36	64	11	19	70	40	FBB20	0.9	3320-314
VBQ6-2-63			14	24	63	45	VRB25; FBB25	0.7	3320-315
VBQ6-2-93					93	75	VRB25; FBB25	0.8	3320-316
VBQ6-3-56			18	31	56	39	VRB32; FBB32	0.75	3320-317
VBQ6-3-96					96	79	VRB32; FBB32	0.95	3320-318
VBQ6-4-51			22	39	51	35	VRB40; FBB40	0.85	3320-319
VBQ6-4-101					101	85	VRB40; FBB40	1.3	3320-320
VBQ6-5-41			28	50	41	25	VRB52; FBB52	0.85	3320-321
VBQ6-5-91					91	75	VRB52; FBB52	1.45	3320-322



Extension (Constant Diameter)



ORDER NO.	d	D	L	Applicable Boring Heads	Weight (kg)	CODE NO.
VBQ1-1-30	11	19	30	FBB20	0.07	3320-323
VBQ2-2-30	14	24	30	VRB25; FBB25	0.1	3320-324
VBQ3-3-30	18	31	30	VRB32; FBB32	0.15	3320-325
VBQ4-4-45	22	39	45	VRB40; FBB40; FBB44	0.4	3320-326
VBQ5-5-60	28	50	60	VRB52; FBB52; FBB55	0.8	3320-327
VBQ6-6-60	36	64	60	VRB68/VRB90; FBB68, 100, 150; FBB66	1.4	3320-328



High Precision Boring Head Set

ست هد بورینگ

1 SCALE 0.005 mm
0.01 mm per Ø
BORING CAPACITY Ø8-Ø280

• Boring Bar
PAGE C83

NEW



VBH 2084

- Good for high speed, high precision boring work.
- Made of tool steel, high rigidity, no deformation.
- Each dividing scale is 0.005 mm, total stroke: 27 mm. For Ø diameter is 0.01 mm
- Can choose any taper (BT40, BT50, SK40, SK50) shank.
- Include 8 boring bars, range Ø8 ~ Ø280 mm.
- Boring bar size = Ø20 x 8 pcs
- Insert locking screw 8 x 3 = 24 pcs
- Wrench x 6 pcs
- Hexa 6 wrench x 1 pcs



SET TYPE

ORDER NO.	SHANK TYPE	DRAWBAR	THREAD	Weight (kgs)	CODE NO.
		S.A.E	METRIC		
VBH2084-R8	R-8	7/16"-20UNF	n/a	6.6	3320-491
VBH2084-NT30	NT-30	1/2"-12W	M12X1.75P	6.6	3320-492
VBH2084-NT40	NT-40	5/8"-11W	M16X2.0P	7	3320-493
VBH2084-NT50	NT-50	1"-8W	M24X3.0P	9	3320-494
VBH2084-BT40	BT-40		M16X2.0P	8	3320-495
VBH2084-BT50	BT-50		M24X3.0P	10.4	3320-496
VBH2084-SK40	SK-40		M16X2.0P	8	3320-497
VBH2084-SK50	SK-50		M24X3.0P		3320-501
VBH2084-MT3	MT-3		M12X1.5P	6.6	3320-498
VBH2084-MT4	MT-4		M16X2.0P	7	3320-499
VBH2084-MT5	MT-5		M24X3.0P	8	3320-500

BORING BAR FOR BORING HEAD

BORING BAR	RANGE d	DEPTH m	SHANK L	INSERT	SCREW	WRENCH
BRB2008-32	8-11	32	80	TBGT060102L SUMITOMO	TS2001	T6
BRB2010-40	10-13	40	80			
BRB2012-53	12-17	53	85	TPGH090204L MITSUBISHI	TS2504	T8
BRB2016-68	16-21	68	100			
BRB2020-83	20-130	83	115	TPGH110304L MITSUBISHI	TS3005	T10
BRB2025-96	25-135	96	135			
BRB2030-115	30-140	115	154			
BRB2035-97-L	120-280	14	99			



Universal Boring And Facing Master Head **VERTEX**

BORING CAPACITY Ø5-Ø250
FOR VERTICAL HOLE BORING IS Ø110

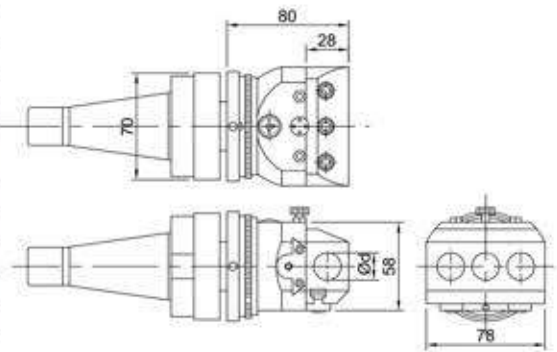
1 SCALE 0.01 mm per Ø

ست هد بورینگ اتومات



• Boring Bar
PAGE C83

ORDER NO.	SHANK TYPE	DRAWBAR THREAD		Weight (kg)	CODE NO.
		S.A.E	METRIC		
VBHU-202	MT-3	1/2"-12W	M12X1.5P	6	3401-001
VBHU-203	MT-4	5/8"-11W	M16X2.0P	6.3	3401-002
VBHU-204	MT-5	1"-8W	M24X3.0P	7	3401-003
VBHU-205	R-8	7/16"-20UNF	n/a	6.2	3401-004
VBHU-206	NT-30	1/2"-12W	M12X1.75P	6	3401-005
VBHU-207	NT-40	5/8"-11W	M16X2.0P	6.2	3401-006
VBHU-208	NT-50	1"-8W	M24X3.0P	8.5	3401-007
VBHU-209	BT-40		M16X2.0P	6.9	3401-008
VBHU-210	C-25			4.5	3401-009
VBHU-211	SK-40		M16X2.0P	5.6	3401-010
VBHU-212	SK-50		M24X3.0P	8.3	3401-011
VBHU-213	BT-50		M24X3.0P	9.7	3401-012
VBHU-214	C-20			6	3401-013



Unit:mm

SPECIFICATION VBHU

ACTUAL SIZE	OVERING BAR HOLE SIZE	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES.	CROSS HOLE DIA	OFFSET
78	100	18	23	18	15

It is construction with precision parts, freedom of selection feeding quantity, auto feed and stop. Processing range from 5mm to 250mm.

<p>Stop Rod BP-17</p>	<p>Square Bit(HSS) BP-18</p>	<table border="1"> <thead> <tr> <th>metric</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>BP-7</td> <td>Ø10</td> </tr> <tr> <td>BP-8</td> <td>Ø12</td> </tr> </tbody> </table>	metric	D	BP-7	Ø10	BP-8	Ø12																				
metric	D																											
BP-7	Ø10																											
BP-8	Ø12																											
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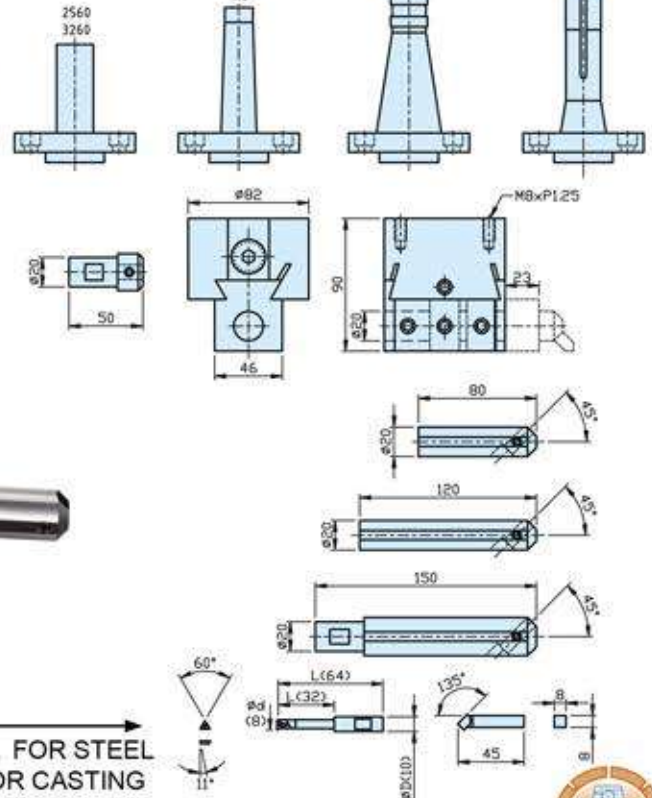
Boring Head Sets



STANDARD TYPE

• Boring Bar
PAGE C83

ست هد بورینگ



INSERT NO. →
TBGT060102L-W-T1200A FOR STEEL
TBGT060102L-W-G11 FOR CASTING
"SUMITOMO" BRAND



1 SCALE 0.005 mm, 0.01 mm per Ø
Processing Range ø10 ~ ø240 mm

Simple, extremely rigid construction, Finest materials and craftsmanship are employed to combine strength, flexibility and accuracy in a tool of unique design. 2 vertical boring tool holes: one centered and one offset. One cross hole for greater versatility and capacity. Dependable adjustment --- far spread graduation for closer reading. Perfectly balanced for high speed operation. Precision ground & hardened shank are integrating with the head for routing and smoother operation.



MT-3, 4, 5
NT-30, 40, 50
BT-40, 50
SK-40, 50
C-25, 32

FULL SET

ORDER NO.	SHANK TYPE	DRAWBAR THREAD		Weight (kgs)	CODE NO.
		S.A.E	METRIC		
VBH-102	MT-3		M12X1.75P	5.9	3401-101
VBH-103	MT-4		M16X2.0P	6.1	3401-102
VBH-104	MT-5		M20X3.0P	7	3401-103
VBH-105	R-8	7/16" ~20UNF		5.9	3401-104
VBH-106	NT-30	1/2" -12W or 1/2" -13W	M12X1.75P	5.8	3401-105
VBH-107	NT-40	5/8" -11W	M16X2.0P	6	3401-106
VBH-108	NT-50	1" -8W	M24X3.0P	8.9	3401-107
VBH-109	BT-40	-	M16X2.0P	7.1	3401-108
VBH-110	SK-40	-	M16X2.0P	6.8	3401-109
VBH-111	C-25			5.7	3401-110
VBH-112	BT-50		M24X3.0P	9.4	3401-111
VBH-113	SK-50		M24X3.0P	5.9	3401-112
VBH-114	C-32			5.9	3401-113

SHANK FOR BORING HEAD

ORDER NO.	VBH-MT3	VBH-MT4	VBH-MT5	VBH-R8
WEIGHT (KG)	0.6	1.2	2.1	1
CODE NO.	3401-120	3401-121	3401-122	3401-123

ORDER NO.	VBH-NT30	VBH-NT40	VBH-NT50	VBH-BT40
WEIGHT (KG)	1.1	1.2	3.9	1.9
CODE NO.	3401-124	3401-125	3401-126	3401-127

ORDER NO.	VBH-SK40	VBH-C25	VBH-BT50	VBH-SK50
WEIGHT (KG)	1.9	1.5	3.1	3.98
CODE NO.	3401-128	3401-129	3401-130	3401-131



Boring Head Set C-Type



1 SCALE 0.01 mm
0.02 mm per Ø

ست هد بورینگ

• Boring Bar
PAGE C83



VBHC-BC2 SET TYPE



MAX. BORING DEPTH 50 mm

Here is a sturdy unit of extended boring range, capable of peeling off heavy roughing cuts as well as a tool of extreme sensitivity.

The use of a wide base bar holder, resting securely on the body, eliminates the need for a separate side plate. You will note this has now become an integral part of the body.

The direct reading adjusting screw is ground after hardening and a plainly marked dial face in nonreflecting satin chrome allows easy reading and adjustments of 0.01 or less.

All Criterion Boring Heads have threaded backs for use with a variety of shanks. This model takes a 1-1/2"-18 threaded shank.

SHANK SIZE: NT-30,40,50, MT-3,4,5,R8



VBHC-BC3 SET TYPE

BORING CAPACITY Ø10~Ø110



ORDER NO.	WEIGHT (kgs)	CODE NO.
VBHC-R-8-BC-2	2	3401-150
VBHC-MT-2-BC-2	1.66	3401-149
VBHC-MT-3-BC-2	1.9	3401-151
VBHC-MT-4-BC-2	2.1	3401-152
VBHC-NT-30-BC-2	2.2	3401-153
VBHC-NT-40-BC-2	2.8	3401-154
VBHC-BT-30-BC-2	2.65	3401-155
VBHC-BT-40-BC-2	2.65	3401-156
VBHC-BT-50-BC-2	5.65	3401-157
VBHC-C-20-BC-2	1.75	3401-158
VBHC-SK-40-BC-2		3401-174
VBHC-SK-50-BC-2		3401-176

BORING CAPACITY Ø10~Ø220



ORDER NO.	WEIGHT (kgs)	CODE NO.
VBHC-R-8-BC-3	4.2	3401-160
VBHC-MT-2-BC-3	4	3401-148
VBHC-MT-3-BC-3	4	3401-161
VBHC-MT-4-BC-3	4.3	3401-162
VBHC-NT-30-BC-3	4.1	3401-163
VBHC-NT-40-BC-3	4.7	3401-164
VBHC-NT-50-BC-3	6.9	3401-165
VBHC-BT-30-BC-3	4.34	3401-166
VBHC-BT-40-BC-3	4.7	3401-167
VBHC-BT-50-BC-3	7.7	3401-168
VBHC-C-20-BC-3	4	3401-169
VBHC-SK-40-BC-3		3401-175
VBHC-SK-50-BC-3		3401-177



Boring Head Shank C-Type



دنباله هد بورینگ

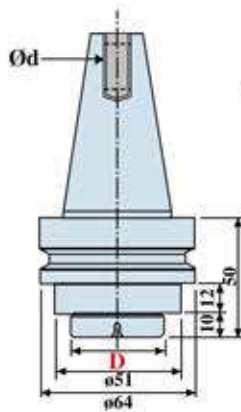
FOR VBHC-TYPE
AND BC-2, BC-3, BC-4
BORING HEAD



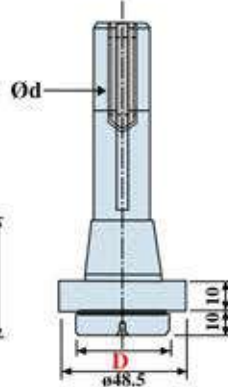
D: 1 1/2"-18UNC

The shanks are made for C-type boring head use.
Also it can be replaced from time to time.

BT-40, 50

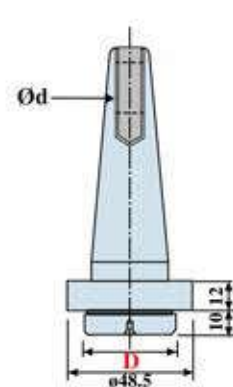
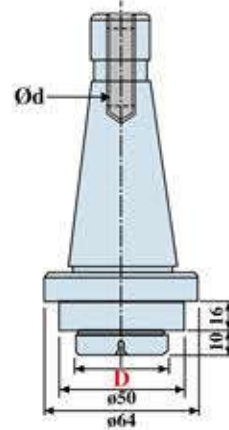


R-8



- NT-30 M12x1.75P
1/2"-12UNC
- NT-40 M16x2.0P
5/8"-11UNC
- NT-50 M24x3.0P
1"-8UNC

- MT-2 M10x1.5P
3/8"-16NC
- MT-3 M12x1.75P
3/8"-16UNC
- MT-4 M16x2.0P
5/8"-11UNC
- MT-5 M24x3.0P
1"-8UNC



ORDER NO.	VBC-R8	VBC-NT30	VBC-NT40	VBC-MT2	VBC-MT3	VBC-MT4	VBC-MT5
WEIGHT (KG)	0.4	0.7	1.3	0.39	0.6	0.9	1.6
CODE NO.	3401-210	3401-211	340-212	3401-209	3401-213	3401-214	3401-215

ORDER NO.	VBC-BT40	VBC-BT50	VBC-C20	VBC-SK40	VBC-BT30	VBC-SK50
WEIGHT (KG)	1.4	3.97	0.4	1.28	1.1	1.3
CODE NO.	3401-216	3401-217	3401-219	3401-222	3401-223	3401-224

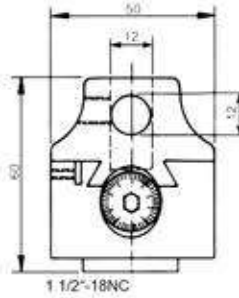


C-Type Boring Head



1 SCALE 0.01 mm
0.02 mm per Ø

هدبورینگ



Here is a small head that will be in constant demand in any shop.

Note the wide base bearing surface that assures maximum rigidity even when the bar holder is in an off-set position. This wide base design is a recent Criterion innovation that increases bearing surfaces by 50% over the older models.

A 1/2" double hole bar holder with a 1/2" cross hole is available.

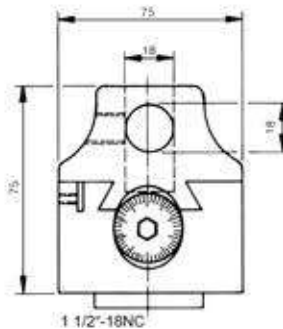
The unit has a 1 1/2"-18NC threaded back and also features a direct reading dial screw.

ORDER NO. VBC-2

SPECIFICATION

BORING CAPACITY Ø10-Ø100

ORDER NO.	ACTUAL SIZE	OVERALL LENGTH	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES.	CROSS HOLE DIA	OFFSET	WEIGHT (kg)	CODE NO.
VBC-2(l)	2" Dia.	2-7/16"	1/2"	5/8"	1/2"	5/8"	0.7	3401-301
VBC-2(m)	50	62	12	15	12	15	0.8	3401-302



1 SCALE 0.01 mm
0.02 mm per Ø

Here is a sturdy unit of extended boring range, capable of peeling off heavy roughing cuts as well tool of extreme sensitivity. The use of a wide-base bar-holder resting securely on the body, eliminates the need for a separate side plate. You will notice it has now become an integral part of the body.

The direct reading adjusting screw is ground after hardening and a plainly marked dial face in non-reflecting satin chrome allows easy reading and adjustments of .0005 or less.

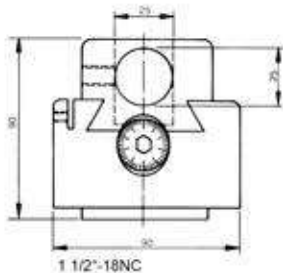
All Criterion Boring Heads have threaded backs for use with a variety of shanks. This model takes a 1-1/2"-18NC threaded shank.

ORDER NO. VBC-3

SPECIFICATION

BORING CAPACITY Ø10-Ø220

ORDER NO.	ACTUAL SIZE	OVERALL LENGTH	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES.	CROSS HOLE DIA	OFFSET	WEIGHT (kg)	CODE NO.
VBC-3(l)	3" Dia.	3.5/32"	3/4"	15/16"	3/4"	1"	2	3401-303
VBC-3(m)	75	80	18	23	18	25	2	3401-304



1 SCALE 0.01 mm
0.02 mm per Ø

This is a bigger boring head which can be put on large machine to process more as you want. The radius of boring hole can reach on about Ø 400mm long by a boring bar of 160mm.

All Criterion Boring Heads have threaded backs for use with a variety of shanks. This model takes a 1-1/2"-18NC threaded shank.

SPECIFICATION

BORING CAPACITY Ø10-Ø250

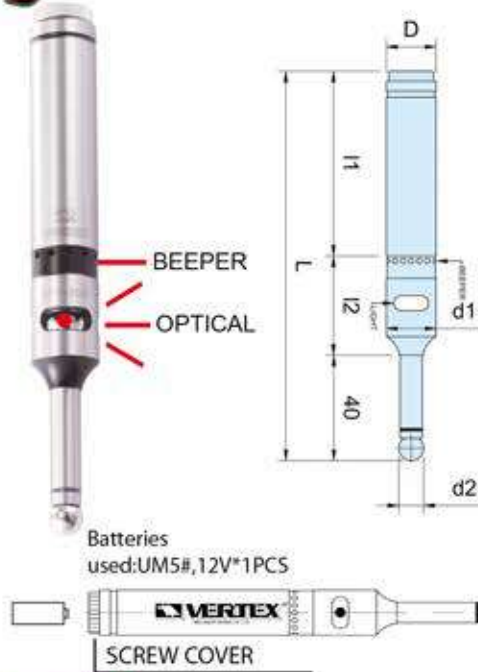
ORDER NO.	ACTUAL SIZE	OVERALL LENGTH	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES.	CROSS HOLE DIA	OFFSET	WEIGHT (kg)	CODE NO.
VBC-4(l)	4" Dia.	3-1/2"	1"	1-1/4"	1"	1"	4	3401-305
VBC-4(m)	100	90	25	32	25	25	4	3401-306



Touch Point Sensor



مماس یاب بوقی نوری



Edge Finder with Beeper & Optical

- No need to rotate while measuring.
- The red light was sealed with setting red-glu; it can concentrate the light and resist water.
- The sensor beeps while the red light is on.
- The sensor will beep when the user couldn't see the reverse side or get a clear sight.
- Example. If sensor's light is working, visually you couldn't see inside of the inner hole, while probing the user can be warned by the beeper.
- When probe the deep hole, you can't see the red light, but you can hear the sound from beeper.
- Accuracy: within $\pm 0.005\text{mm}$.

OPTICAL TYPE WITH BEEPER

Unit:mm

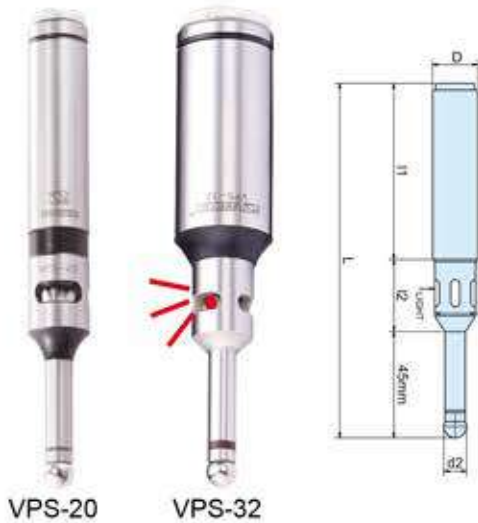
ORDER NO.	D	d1	d2	L	I1	I2	BATTERY TYPE	WEIGHT (kg)	CODE NO.
VPS-20B	$\varnothing 20$	18	10	157	77	41	UM-5#(SP) x1PCS/12V	0.4	3402-001
VPS-32B	$\varnothing 32$	18	10	157	74	41		0.7	3402-002
VPS-3/4B	$\varnothing 3/4$	18	10	157	74	41		0.7	3402-012



Touch Point Sensor

Optical Type

Without Beeper



- High sensitivity position sensor.
- Red pilot can be seen clearly.
- Whole travel of red pilot is sparkling, detecting also can be done during turning while spindle stops.
- Location of end surface, outer circle dia., inner circle dia. of the work-piece for processing can be detected with full effect.
- Devised with safety line excess, ball supported by spring, so even line excess, it will be separated easily from the base shown as the fig.
- The precision will reach up to micrometer while the ball returns to center position.
- Edge Finder
- Accuracy: Within $\pm 0.005\text{mm}$

OPTICAL TYPE

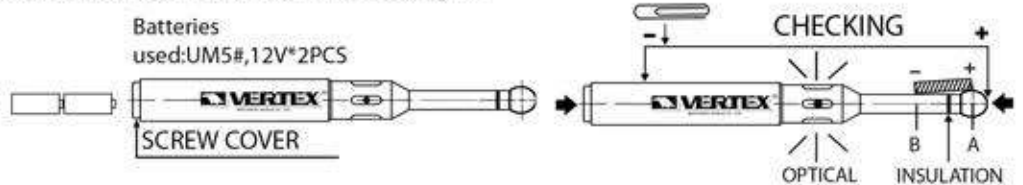
Unit:mm

ORDER NO.	D	d1	d2	L	I1	I2	BATTERY TYPE	WEIGHT (kg)	CODE NO.
VPS-20	20	18	10	157	76	33	UM-5#(SP) x2P/R1/1.5V	0.4	3402-003
VPS-32	32	18	10	157	74	41		0.7	3402-004

After Reading the Following instruction, please use touch point sensor correctly due to it's a highly sensitive position detector. Don't Rotate the touch point sensor while using it.

1. Install BATTERY

Take off the screw cover and insert batteries correctly. Do not insert batteries upside down.

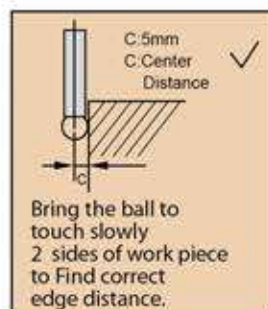


2. CONFIRMATION OF LIGHTING

CHECK the lighting of red lamp by touching A-B part with a metal (clip, L-PLATE etc.)

3. MEASURING METHOD

As soon as the ball (outside dia. 10mm \varnothing) touches the work piece with the main spindle stopped, The red lamp lights on.



請注意 / 光電式尋邊器不適合迴轉使用
Notice: optical edge finder is not suited FOR Rotation.



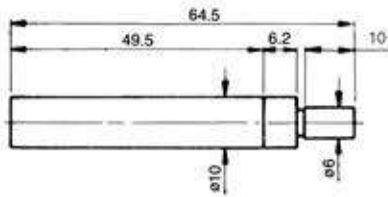
Touch Point Sensor



Edge Finder



VPS-201



مماس یاب

This series is a high precision setting device for positioning the accurate center between tool spindle of machine and reference surface of working at low-cost and saving time.

Accuracy : within ± 0.005 mm

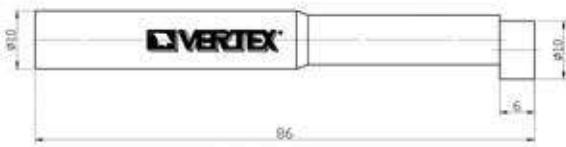
Made of tool steel, hardened and ground.

Suitable rotation speed : VPS-201 450 to 600rpm.

VPS-401 600 to 1,000 rpm



CREAMIC TYPE VPS-201C



MECHANICAL TYPE

ORDER NO.	VPS-201	VPS-201C
WEIGHT (KG)	0.03	0.06
CODE NO.	3402-005	3402-007



Touch Point Sensor

Deluxe Type

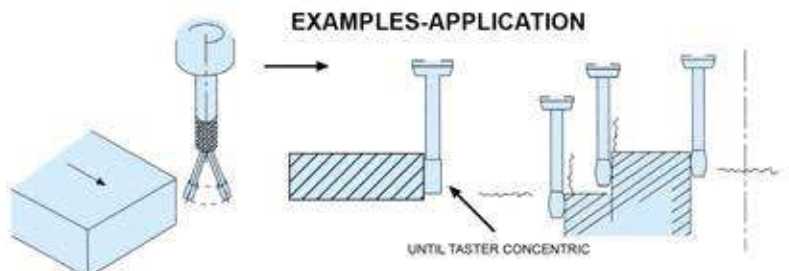
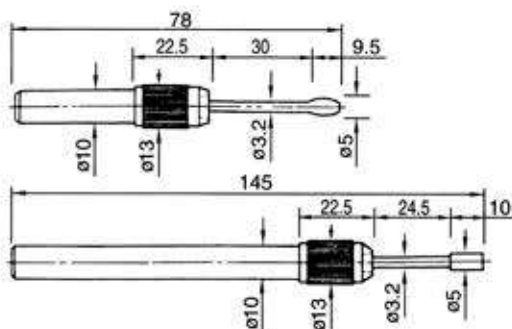


FEATURES:

- Material: high-carbon steel.
- Accuracy: within ± 0.003 mm
- Hardness: HRC $58^{\circ} \pm 1^{\circ}$
- R.P.M. Within 600-1000
- Suitable for milling machine. Drill machine and boring machine.
- Edge Finder

VPS-401 (2 PCS/SET)
VPS-402A(LONG) SINGLE
VPS-402B(SHORT) SINGLE

ORDER NO.	VPS-401	VPS-401C
PCS/SET	2PCS/SET	2PCS/SET
MATERIAL	STEEL	CERAMIC
WEIGHT (KG)	0.26	0.26
CODE NO.	3402-006	3402-008



EXAMPLES-APPLICATION



Touch Point Sensor

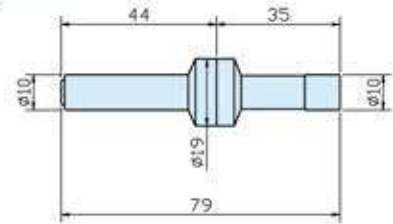


MECHANICAL TYPE

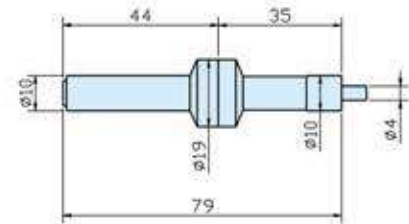
مهاس ياب مکانیکی



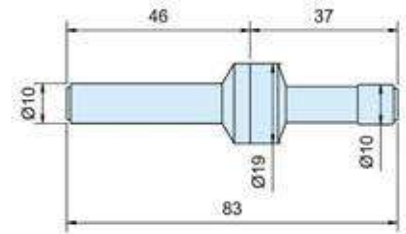
VPS-301 STEEL
VPS-301S STAINLESS



VPS-302 STEEL
VPS-302S STAINLESS



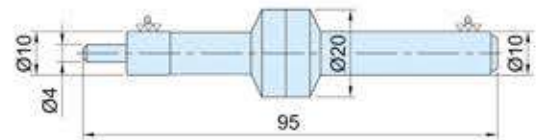
VPS-301C CERAMIC TYPE



NEW



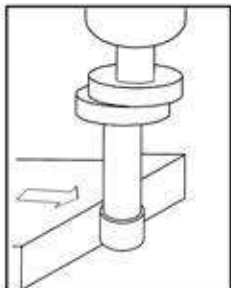
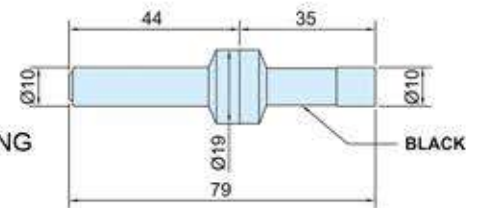
VPS-302C CERAMIC TYPE



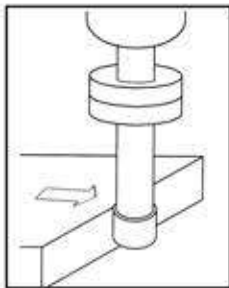
NEW



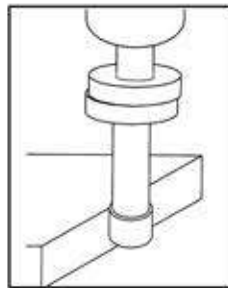
VPS-303 NON-MAGNETIC COATING



Spindle runs about 500rpm. move spindle closed to measuring surface.



When measuring probe touches workpiece, it looks in one part.



When the probe and shank are in alignment, probe will slide out of rotating center. Now, the center spindle is located 5mm away from measuring surface

- Accuracy of zero point to point is within $\pm 0.003\text{mm}$
- R.P.M. within 450-600.
- Max. flange can be clear your sight sense.
- MIN.(4mm) can be test mini hole for your workpiece.

ORDER NO.	MATERIAL	HARDNESS	WEIGHT (kg)	CODE NO.
VPS-301	ALLOY STEEL	HRC 56°	0.06	3402-100
VPS-302			0.05	3402-101
VPS-301S	STAINLESS	HRC 60°	0.06	3402-102
VPS-302S			0.06	3402-103
VPS-301C	CERAMIC	HRC 60°	0.06	3402-104
VPS-302C	CERAMIC	HRC 60°	0.06	3402-105
VPS-303	NON-Magnetic Coating	HRC 56°	0.06	3402-106



Height Presetter



HP-50Z

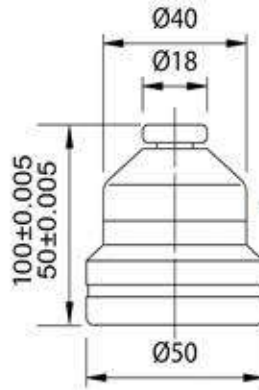
سینج Z

OPTICAL TYPE



MODEL For NEXT

- Height 50 mm and 100 mm.
- With Magnetic base.
- The red lamp will be lighted up when touched.
- Accuracy 0.005 mm.
- Combined vertical and horizontal in a unit.
- Weight: 0.7 kgs



HP-50Z BATTERY
LR4476AG13
1SET/2PCS
HP-50ZM
LR44
1SET/2PCS



HP-100ZM

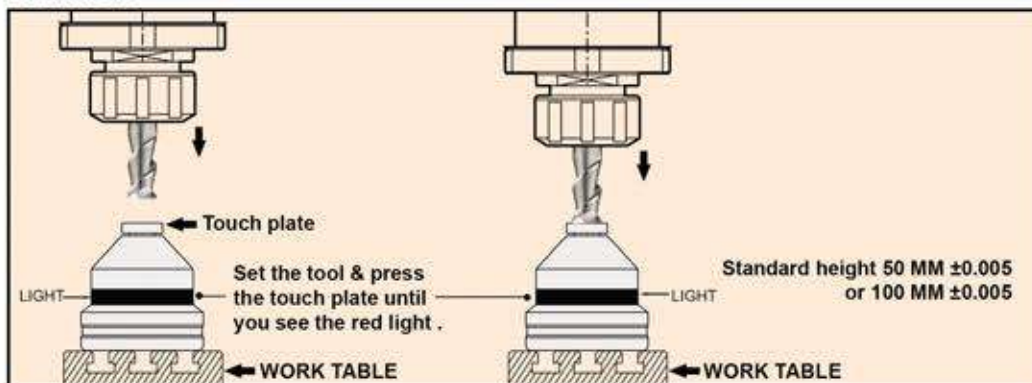
HP-100Z

- A. HP-50 / 100 / ZM / EM SERIES BUILT-IN MEGNETS FOR EASIER SETUP. VERTICAL & HORIZONTAL !
 B. STANDARD HEIGHT : 50 OR 100 MM
 C. WEIGHT ABOUT 0.7-1.2 KGS
 D. WHEN TOUCHED, THE RED LAMP LIGHTS ON.
 E. ACCURACY : WITHIN 0.005 MM
 F. BATTERY TYPE : LR44 / A76 / G13 X 2 PCS

MANUAL:

1. THERE IS A MECHNISM BELOW THE TOUCH PLATE CAN BE ADJUSTED BY GAUGE BLOCK.
 2. WHEN MACHINE SPEED IS HIGH, PLEASE REDUCE THE SPEED & GO UP /DOWNWARD UNTIL THE RED LIGHT IS OFF.
 3. PROCEED AGAIN IN LOWER SPEED.
 4. HORIZONTAL POSITION (HPXXX-XXEM/ZM SERIES-MAGNETIC FUNC.ONLY)
PLEASE USE THE TOP TIP OF THE CUTTER TO TOUCH THE TOUCH PLATE.
- ※ CAN NOT USE VERNIER TO CHECK / RE-SET

EXAMPLE



ORDER NO.	H	STYLE	WEIGHT (kg)		CODE NO.
			N.W.	G.W.	
HP-50Z	50mm	STANDARD TYPE	0.32	0.7	3403-001
HP-50ZM	50mm	WITH MAGNETIC BASE	0.32	0.7	3403-002
HP-100Z	100mm	STANDARD TYPE	1.0	1.25	3403-003
HP-100ZM	100mm	WITH MAGNETIC BASE	1.0	1.22	3403-004

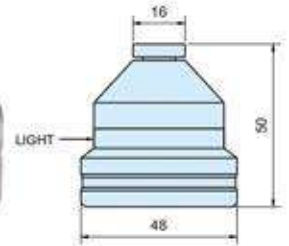
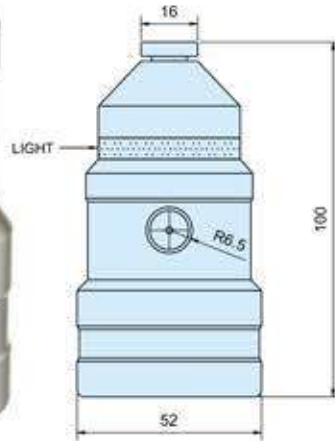
NEW



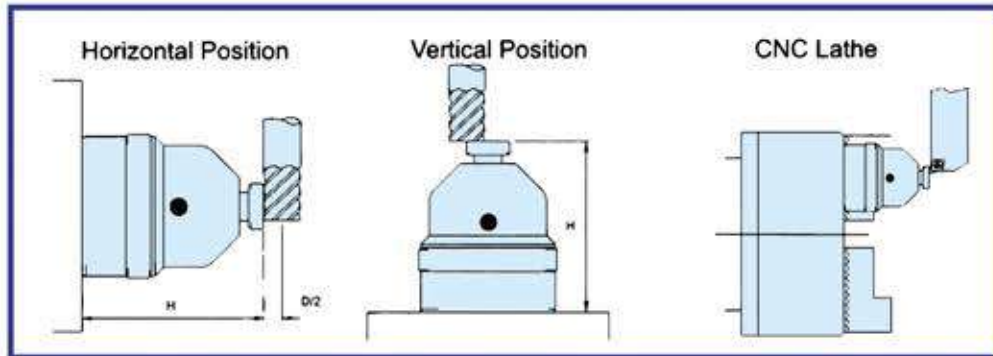
Electronic Tool Length Setter VERTEX®

STAINLESS STEEL BASE WITH MAGNET

سنج Z



EXAMPLE



- **HIGH ACCURACY**

- **EASY OPERATION**

- Be sure to remove all chips and all from the sensor plate and the base of the HP-50E as well as from the workpiece and tool.
- To move the tool approaching the sensor plate slowly.
- When touching, the "LED" turns on immediately and "H" is just 50.00 mm.(or2")
- LED will not function if batteries are not set in correctly.
- Designed to be used on ferrous.

ORDER NO.	H	STYLE	WEIGHT(kg) N.W.	CODE NO.
HP-50EM	50mm	WITH MAGNETIC BASE	0.32	3403-032
HP-100EM	100mm		1.0	3403-033

Stainless Steel Base With Magnet

TOOL PRE-SETTER FOR MACHINING CENTERS.
CNC & STANDARD MILLING MACHINES AND
CNC & STANDARD LATHES



Z-Zero-Setter



Z سنج

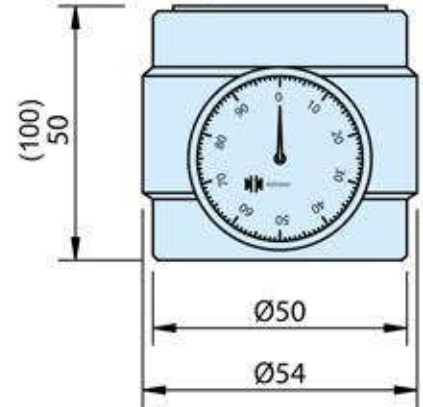
COMPENSATION
PLAIN SURFACE



HP-50A

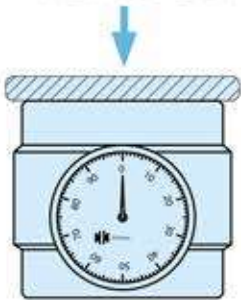


HP-100AM

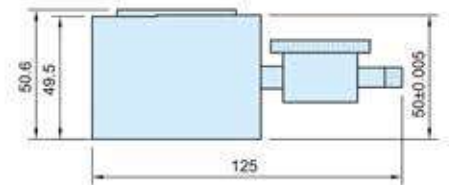
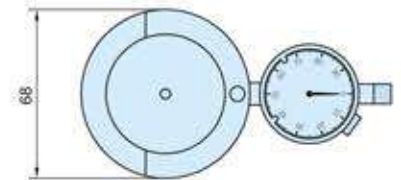


CHECKING BAR FOR
50 OR 100 MM POSITION
AT ZERO POINT

CHECKING BAR



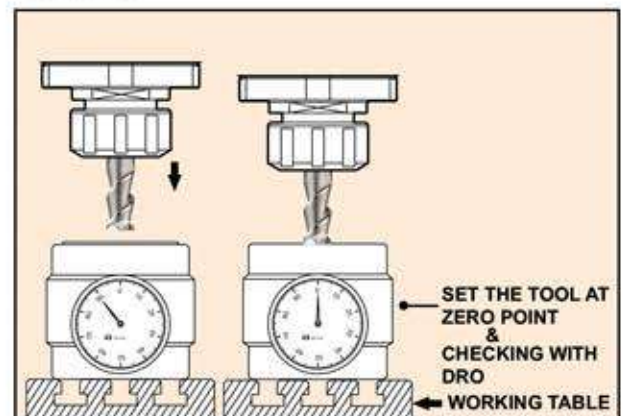
HP-50B



CHECKING BAR FOR
50 OR 100 MM POSITION
AT ZERO POINT

- Have the central measuring part of the zero setter presetter against a plain surface and aligned if with the outer reference surface. Turn the dial gauge for zero setting. Have the cutter touched against the z zero setter.
- Once the indicator position at zero, the distance between the tool tip to workpiece is 50mm, ± 0.005 , 100 mm, ± 0.005 .

EXAMPLE

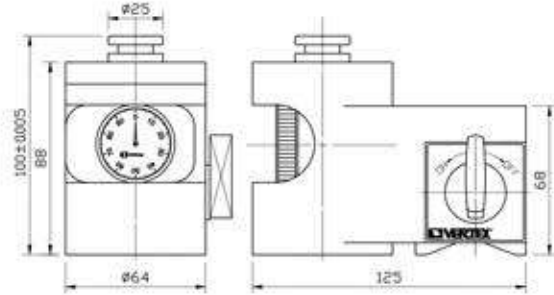


ORDER NO.	H	STYLE	WEIGHT (kg)	CODE NO.
HP-50A	50mm	STANDARD TYPE	1.1	3403-020
HP-50B			1.7	3403-021
HP-50AM		WITH MAGNETIC BASE	1.2	3403-022
HP-50BM			1.7	3403-023
HP-100A	100mm	STANDARD TYPE	1.78	3403-024
HP-100AM		WITH MAGNETIC BASE	1.77	3403-025

NEW

Z سنج مگنتی

Height from reference surface	WEIGHT(kgs)
100mm	2.6



WITH CHECKING GAUGE

- Locate the height presetter on a place suitable for a reference surface of work piece.
- Apply the cutter on the measuring surface and slowly lower the Z-axis. Then, cutter gets near to the measuring position.
- A distance from the reference surface to the tool tip can be measured easily and precisely so that this presetter is most suitable not only for machineing centers but for NC lathes and NC milling machines.

* Magnetic base function can be used in vertical position & horizontal position.

* HEIGHT:100mm±0.005 , 1 scale 0.01mm

Centering Indicator

ORDER NO.VCI-170 CODE NO.3402-130



(WITH STOP BAR FOR FIXING THE HEAD)

- RPM Within 800.
- Use for Internal or External.
- Use for Vertical or Horizontal.
- While Spindle Rotates,With Stop bar for Fixing The Head The Centering Indicator Always faces the operator.

SHANK	ø10	mm
LENGTH	170	mm
INTERNAL	ø4~ø108	mm
EXTERNAL	ø0~ø108	mm
MIN. INDICATOR	0.01	mm
INDICATOR RANGE	0~6	mm
WEIGHT	0.8	kgs



Reversible Tapping Attachment for Drilling & Milling Machine



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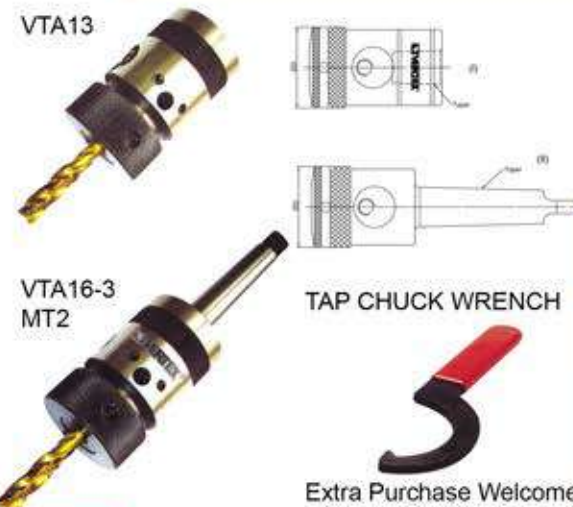


ORDER NO.	TAPPING CAPACITY	SHANK	TO WORK WITH DRILLING MACHINE	WEIGHT (KG)	PACKING mm	SPEED	CODE NO.
K1-1/2	Ø3-8mm	1/2"	DRILLING MACHINE MUST EQUIPPED WITH DRILL CHUCK CAPACITY 13M/M	0.8	90X90X190	1 : 1	3404-001
K1-MT-2	Ø3-8mm	MT-2	DRILLING MACHINE MUST EQUIPPED WITH MT-2 HOLE	1	90X90X240	1 : 1	3404-002
K2-1/2	Ø5-10mm	1/2"	DRILLING MACHINE MUST EQUIPPED WITH DRILL CHUCK CAPACITY 13M/M	1.5	100X100X210	1 : 1	3404-003
K2-MT-2	Ø5-10mm	MT-2	DRILLING MACHINE MUST EQUIPPED WITH MT2 HOLE	1.6	100X100X260	1 : 1	3404-004
K3-MT-3	Ø6-14mm	MT-3	OTHERS LIKE MT-3 SHANK BORING HOLE DRILLING MACHINE N.T. AVAILABLE	3.1	125X125X300	1 : 1	3404-005
K4-MT-3	Ø12-22mm	MT-3	OTHERS LIKE MT-3 SHANK BORING HOLE DRILLING MACHINE N.T. AVAILABLE	5.4	160X160X360	1 : 1	3404-006

K1 TYPE USED CHUCK TO FIX THE TAP

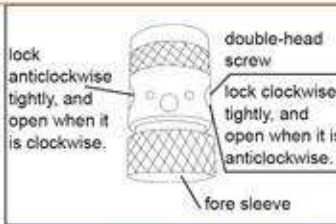
K2, K3, K4 TYPE USED THE SLIDING PLATE OF THE SQUARE SHARP HOLE TO FIX THE TAP.

Tap Chuck Series



TAP CHUCK WRENCH

Extra Purchase Welcome.



- THE DESIGN CAN PREVENT THE TAPS CHUCK FROM LOOSENING AFTER TAPPING.
- SUIT FOR VARIOUS TAPS. LARGE TAPPING CAPACITY. HIGH POWER TORSION.

ORDER NO.	TAPPING CAPABILITY		D	Taper	N.W (kg)	CODE NO.
	mm	inch				
VTA13-1 I			43	J6	0.55	3404-000
VTA13-2 I	M3-M12	W1/8"~W1/2"	43	B16	0.76	3404-007
VTA13-3 II			47	MT2	0.76	3404-008
VTA16-1 I			54	J3	1	3404-016
VTA16-2 I			54	B18	1	3404-017
VTA16-3 II	M3-M16	W1/8"~W5/8"	48.5	MT2	0.9	3404-018
VTA16-4 II			48.5	MT3	1.1	3404-019
VTA18-2 II			51	MT2	0.924	3404-019A
VTA18-3 III	M9-M18	W3/8"~W3/4"	51	MT3	1.074	3404-019B

Drill Tapper

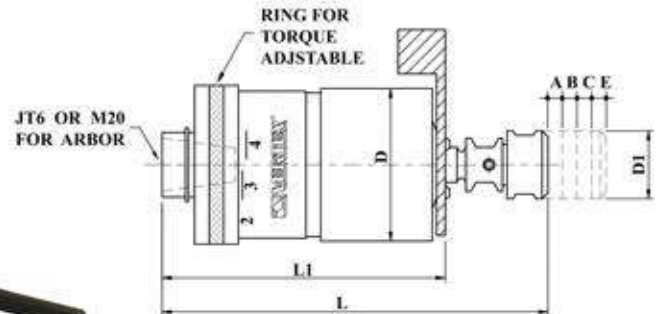
Including shank, full set of collets, wrench and case.
(Used for radial drilling, lathe and tapping machines,
1 Main body, 6 Tap Collet, 1 Drill Chuck Holder
Optional in Collets & Tapper Sleeves.)0.6CUFT.

Unit:mm



ORDER NO.	STANDARD ASSEMBLY SPECIFICATION				G.W. kg	MEAS. CFT	CODE NO.
	MAIN BODY 1PC/SET	TAP COLLET 6PCS/SET	TAPER SLEEVE 2PCS/SET	DRILL CHUCK HOLDER 1PC/SET			
VDT-33	MT-3	M8, 10, 12, 14, 16,	33-MT1	33-JT6 With 1/2" Drill Chuck	11.9	0.6	3404-010
	MT-4	18, 20, 22, 24, 27, 30, 33(MM)	33-MT2		12		3404-011
	MT-5	1, 1-1/8, 1-1/4(INCH) PT1/8, 1/4, 3/8, 1/2, 3/4, 1(INCH)	33-MT4		12.8		3404-012

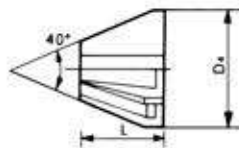
قلاويز زن اتومات



- Radial Float is SELF-CENTERING to compensate for hole center misalignment.
- Unique Double Spring Mechanism produces Automatic Feed and Cushion Drive. There are two springs for the feed and two springs for the reversal. Each set gives you double smoothness for ULTRA accurate tapping applications (not possible with this type of tapping head in the past).
- Pre-set Torque Control Permits easy operation of tap brake torque control
- JACOBS RUBBER FLEX COLLETS are standard accessory.

Reversing Type

ATTACHMENT DESIGNATIONS ORDER NO.	FOR TAPS	SUITABLE ADAPTERS SIZE	REC. MAX SPEED	LENGTH COMPENSATION				D DIA	D1 DIA	L	L1	WEIGHT (kgs)	CODE NO.
				R.H. ROTATION	NON ROTAT	LH. ROTAT.							
				COMP A	EXP. B	EXP. C	EXP. E						
VTA7-JT6	M2-M7	FC-10/FC-11	1500RPM	5	3.5	1.5	7.0	52	23	125.5	94.5	1.3	3404-020
VTA12-JT6	M3-M12	FC-20/FC-21	1000RPM	5	4.5	1.5	8.5	73.5	28	169	122	3.1	3404-021
VTA20-M20	M8-M20	FC-30/FC-31	600RPM	5.5	5	2.0	9.0	91	38	190	128	5.7	3404-022



Rubber Flex Collet For VTA Tapper

ORDER NO.	COLLETS CAPACITY	D4	L	CODE NO.
FC-10	Ø 2.5 - Ø 4.5	16	11	3404-030
FC-11	Ø 4.5 - Ø 6.5	16	11	3404-031
FC-20	Ø 4 - Ø 7	21.5	13	3404-032
FC-21	Ø 7 - Ø 10	21.5	13	3404-033
FC-30	Ø 5.36 - Ø 9	26.5	15	3404-034
FC-31	Ø 10.38 - Ø 14	26.5	15	3404-035

CONNECTING ARBOR FOR VTA20-M20	
MT3-M20	3404-036A
MT4-M20	3404-037A

ARBOR EXAMPLE :



please see page C46





Tap Chuck



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- It's suitable for various taps, so it is much more economic and efficient than other brands of taps chuck.
- The design can prevent the taps chuck from loosening after tapping.

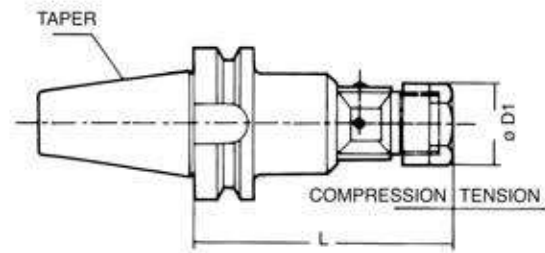
Unit:mm

ORDER NO.	SIZE	TAPPING CAPACITY		Taper Mount NO. DIN or Jacobs	Length (m/m)	Outer Dia. (m/m)	Weight (g)	CODE NO.
		mm	inch					
VTA-13-11	1/2	M3-M12	1/8-1/2	JT6	75	42	850	3404-056A
VTA-13-12	1/2	M4-M12	1/8-1/2	B16	75	42	585	3404-057A



Expansible Tapping Holder

Compression Distance 6mm



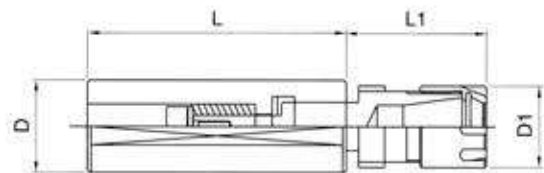
HOLDER-BT-TYPE

Unit:mm

ORDER NO.	COLLET	HOLDER (DXL)	L	D _i	TAPPING RANGE	WEIGHT (KGS)	CODE NO.
VET-271	ER20	BT40 20X100	100	34	M2-M16	2.2	3404-026
VET-272	ER20	BT50 20X95	95	34		4	3404-027
VET-273	ER32	BT40 32X110	110	50	M3-M25	2.4	3404-028
VET-274	ER32	BT50 32X110	110	50		4.5	3404-029



WITH SPANNER



HOLDER-MINI TYPE

Unit:mm

ORDER NO.	COLLET	HOLDER (DXL)	L _i	D _i	TAPPING RANGE	WEIGHT (KG)	CODE NO.
VET-260	ER16	ER16M 20X70	35	22	M3-M10 1/8"-3/8"	0.2	3404-036
VET-261	ER16	ER16M 25X70	35	22		0.2	3404-037



Quick Change Tapping Chuck

European Type

انواع قلاویز زن

SPECIAL!

**SAFETY !
QUICK !**



QUICK CHANGE TAPPING CHUCKS (with length compensation)

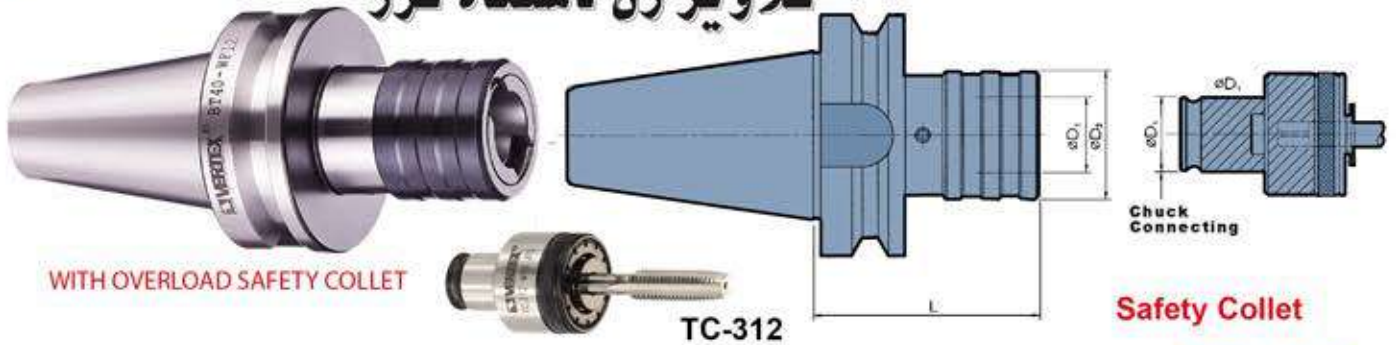
MAS-BT-30, 40, 50 Shank / DIN69871A SK-40, 50 / ST-20, 32 / MT-2, 3, 4

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compression compression and tension operated by ball cage.



Quick Change Tapping Chucks VERTEX®

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WITH OVERLOAD SAFETY COLLET

TC-312

Safety Collet

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.

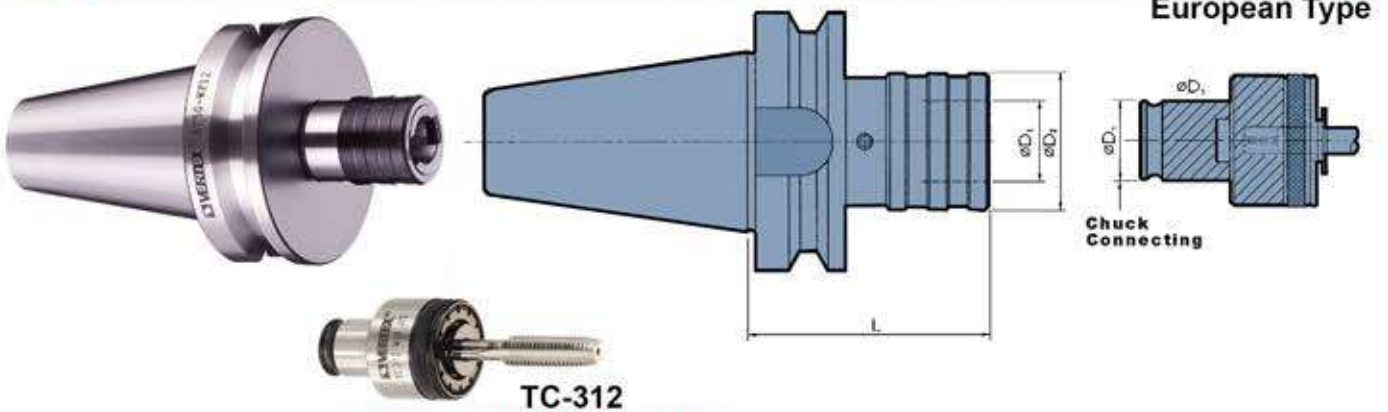


WF-BT30/BT40/SK30/SK40 LENGTH COMPENSATION TYPE

ORDER NO.	Thread Size	L	ØD ₁ Chuck Connecting DIA.	ØD ₂	Length Compensation		Tapping Collets	WEIGHT (kg)	CODE NO.
					Compression	Tension			
BT30-WF12	M2-M14	70	Ø19	36	7.5	7.5	TC-312	0.8	3404-050A
BT40-WF12	M2-M14	75	Ø19	36	7.5	7.5	TC-312	1.3	3404-050
SK40-WF12								1.3	3404-051
BT30-WF20	M5-M24	94	Ø31	53	12.5	12.5	TC-820	1.3	3404-052A
BT40-WF20	M5-M24	95	Ø31	53	12.5	12.5	TC-820	1.8	3404-052
SK40-WF20	M5-M24	95	Ø32	53	12.5	12.5	TC-820	1.8	3404-053

※Tapping Collet Reducer Adapter : TC820 / TC312-AD

Quick Change Tapping Chucks



European Type

TC-312

WITH OVERLOAD SAFETY COLLET

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.



WF-BT50/SK50 LENGTH COMPENSATION TYPE

ORDER NO.	Thread Size	L	ØD ₁ Chuck Connecting DIA.	ØD ₂	Length Compensation		Collets	WEIGHT (kg)	CODE NO.
					Compression	Tension			
BT50-WF12	M2-M14	85	Ø19	36	7.5	7.5	TC-312	4	3404-060
SK50-WF12								4	3404-061
BT50-WF20	M5-M24	105	Ø31	53	12.5	12.5	TC-820	4.1	3404-062
SK50-WF20								4.1	3404-063
BT50-WF33	M14-M36	142	Ø48	78	20	20	TC-1433	5.8	3404-064

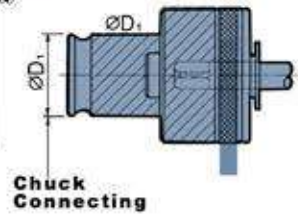
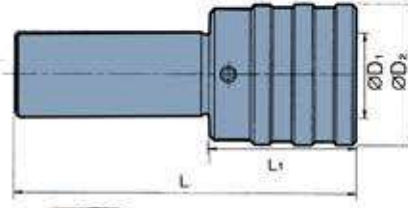
※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD



Quick Change Tapping Chucks VERTEX®

QUICK CHANGE TAPPING CHUCKS (with length compensation)
STRAIGHT SHANK

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WITH OVERLOAD SAFETY COLLET



TC-312

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.



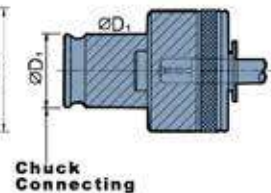
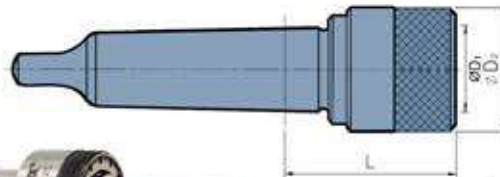
WF-ST LENGTH COMPENSATION TYPE

ORDER NO.	Thread Size	L	L ₁	ØD ₁ Chuck Connecting DIA.	ØD ₂	Length Compensation		Collets	WEIGHT (kg)	CODE NO.
						Compression	Tension			
ST20-WF12	M2-M14	105	40	Ø19	36	7.5	7.5	TC-312	0.4	3404-087
ST32-WF12										
ST20-WF20	M5-M24	120	65	Ø31	53	12.5	12.5	TC-820	1	3404-089
ST32-WF33	M14-M36	183	80	Ø48	78	20	15	TC-1433	2.7	3404-092

※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

Quick Change Tapping Chucks

Solid Type



WITH OVERLOAD SAFETY COLLET



TC-312

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.



WF-MT LENGTH COMPENSATION TYPE

ORDER NO.	Thread Size	Morse Taper MT	L	ØD ₁ Chuck Connecting DIA.	ØD ₂	Length Compensation		Collets	WEIGHT (kg)	CODE NO.		
						Compression	Tension					
MT2-WF12	M2-M14	MT2	47.5	Ø19	36	7.5	7.5	TC-312	0.4	3404-123		
MT3-WF12		MT3									0.56	3404-123A
MT4-WF12		MT4									0.86	3404-123B
MT2-WF20	M5-M24	MT2	70	Ø31	53	12.5	12.5	TC-820	0.8	3404-124		
MT3-WF20		MT3									0.96	3404-124A
MT4-WF20		MT4									1.5	3404-124B
MT3-WF33	M14-M36	MT3	103	Ø48	78	20	15	TC-1433	2.2	3404-125		
MT4-WF33		MT4									2.76	

※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

Quick Change Tapping Chucks

QUICK CHANGE TAPPING CHUCKS

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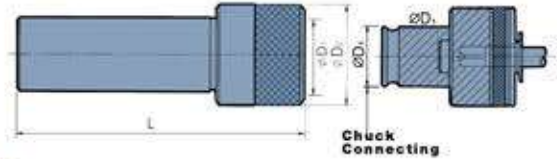
MORSE TAPER SHANK

Solid Type

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.



or



Chuck Connecting

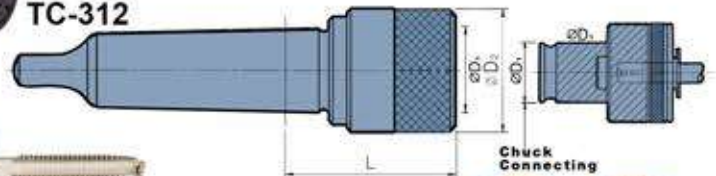


ST-SF- TYPE SOLID RIGID TAPPING TYPE

ORDER NO.	Thread Size	L	L ₁	ØD ₁ Chuck Connecting DIA.	ØD ₂	Collets	WEIGHT (kg)	CODE NO.
ST20-SF12	M2-M14	104	70	Ø19	34	TC-312	0.3	3404-140
ST32-SF12		106		Ø19		TC-312B	0.66	3404-140A
ST20-SF20	M5-M24	105		Ø31	50	TC-820	0.74	3404-141
ST32-SF20				Ø31		TC-820B	1.02	3404-141A
ST32-SF33	M14-M36	169	Ø48	76	TC-1433 TC-1433B	2.86	3404-142A	



or



Chuck Connecting



MT-SF- TYPE SOLID RIGID TAPPING TYPE, NO LENGTH COMPENSATION

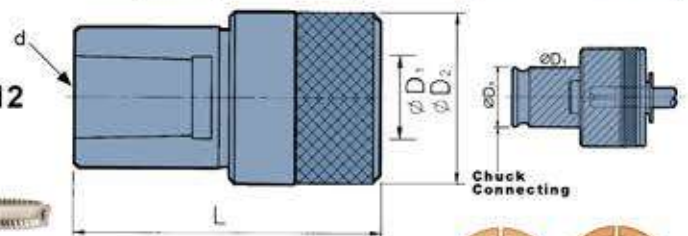
ORDER NO.	Thread Size	Morse Taper MT	L	ØD ₁ Chuck Connecting DIA.	ØD ₂	Collets	WEIGHT (kg)	CODE NO.
MT2-SF12	M2-M14	MT2	45	Ø19	34	TC-312 TC-312B	0.3	3404-120
MT3-SF12		MT3					0.8	3404-120A
MT4-SF12		MT4					0.8	3404-120B
MT2-SF20	M5-M24	MT2	70	Ø31	50	TC-820 TC-820B	0.6	3404-121A
MT3-SF20		MT3					0.8	3404-121
MT4-SF20		MT4					1.18	3404-121B
MT3-SF33	M14-M36	MT3	99	Ø48	74	TC-1433 TC-1433B	0.84	3404-122A
MT4-SF33		MT4	99				2.2	3404-122



or



TC-312B



Chuck Connecting



JTA-SF- B16-SF RIGID TAPPING TYPE

ORDER NO.	Thread Size	L	ØD ₁ Chuck Connecting DIA.	ØD ₂	d	Collets	WEIGHT (kg)	CODE NO.
JTA6-SF12	M2-M14	66	Ø19	32	JT6	TC-312 TC-312B	0.3	3404-130
B16-SF12					B16		0.22	3404-130A
B12-SF12					B12		0.2	3404-130B

※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

Tapping Collet Reducer Adapter VERTEX®

فشنگی قلاویز زن
ADAPTER



EXAMPLE



This adapter is for transforming
This adapter allows the tapping chuck to use smaller size.
Transforming the big tapping size to smaller one.
large range type for tap M3-M24, TC312, TC820, TC1433
COST SAVING!

SIZE CONVERTER

ORDER NO.	TRANSFORMING SIZE	WIGHT	CODE NO.
TC820/TC312-AD	TC820 TO TC312	0.2	3404-461
TC1433/TC820-AD	TC1433 TO TC820	0.6	3404-462

※Every tap needs a match size tapping collet.

Adjustable Wrenches

For Tapping Collet's Torque Force Adjustment

NEW



- Tool for Setting
- Time Saving



EXAMPLE



ORDER NO.	SIZE	ØD	COLLETS	WEIGHT	CODE NO.
VWR-40	7-40	2.5	TC-820	0.15 kgs	3404-150
VWR-60	11-60	4	TC1433	0.15 kgs	3404-151

Quick Change Tapping Collet TC312 8PCS/SET

ORDER NO. TC-312-DIN371-A

CODE NO. 3404-175

NEW



QUICK CHANGE TAP COLLETS
(with overload safety collet)

TC-312 DIN371 8PCS/SET
(M1, M2, M3, M3.5, M4, M4.5, M8, M10)

NO.	ØD X □ SIZE SAME AS DIN371 TC312
1	M1, M1.1~M1.8
2	M2, M2.5, M2~M2.5
3	M3
4	M3.5
5	M4
6	M4.5, M5, M6
7	M8
8	M10

Quick Change Tapping Collet TC312 8PCS/SET

ORDER NO. TC-312-DIN376-B

CODE NO. 3404-176

NEW



QUICK CHANGE TAP COLLETS
(with overload safety collet)

TC-312 DIN376 8PCS/SET
(M4, M5, M6, M7, M8, M10, M12 M14)

NO.	ØD X □ SIZE SAME AS DIN376 TC312
1	M4
2	M5, M4.5
3	M6
4	M7
5	M8
6	M10
7	M12
8	M14



Quick Change Tapping Collet TC820 8PCS/SET

ORDER NO. TC820-DIN 376-C

CODE NO. 3404-177



NEW

ست فشنگی قلاویز زن

QUICK CHANGE TAP COLLETS
(with overload safety collet)

TC-820 DIN376 8PCS/SET

(M8, M10, M12, M14, M16, M18, M20, M22)

NO.	ØD X □ SIZE SAME AS DIN376 TC820
1	M8
2	M10
3	M12
4	M14
5	M16
6	M18
7	M20
8	M22, M24



Quick Change Tapping Collet TC820 4PCS/SET

ORDER NO. TC820-DIN 371-D

CODE NO. 3404-178

NEW

QUICK CHANGE TAP COLLETS
(with overload safety collet)

TC-820 DIN371 4PCS/SET

(M5, M6, M8, M10)

NO.	ØD X □ SIZE SAME AS DIN371 TC820
1	M5, M6
2	M6, M5
3	M8
4	M10



Quick Change Tapping Collet TC820 8PCS/SET

ORDER NO. TC820-ISO2283-E

CODE NO. 3404-179

NEW

QUICK CHANGE TAP COLLETS
(with overload safety collet)

TC-820 ISO2283 8PCS/SET

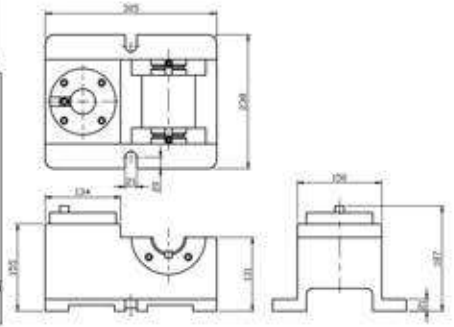
(M8, M10, M12, M14, M16, M18, M22, M24)

NO.	ØD X □ SIZE SAME AS ISO2283 TC820
1	M8
2	M10
3	M12
4	M14
5	M16
6	M18, M20
7	M22
8	M24



Deluxe Type Tool Setting Stand VERTEX®

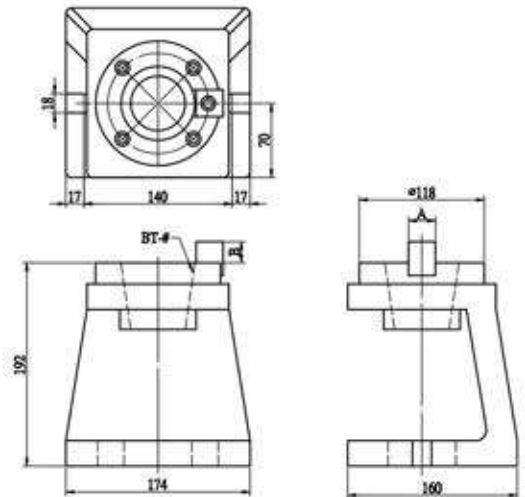
پایه کلت



- This tool setting stand is one kind of subsidize tool for helping machine center to work efficiently. To be used fixing the tools on tool holder. It could avoid the method of using draw bar to fix (on machine center). It is safe, and doesn't effect the precision of machine's spindle.
- It's best for using on horizontal or vertical lines, simple & quick operations.
- A multi-function tool, it is changeable, has two kinds of specifications can be used. That is to say, one machine could be used as two sets machines.
- Additional special accessories to make your operating more convenient.
- CAT & SK share same model.

ORDER NO.	SHANK TAPERS		WEIGHT (kgs)	CODE NO.
	TOOL POST	ADAPTER HOLDING		
VTD-1	BT-#40x1	BT-#40x2	22.4	3405-001
VTD-2	BT-#50x1	BT-#50x2	22	3405-002
VTD-3	BT-#50x1	BT-#50x1 BT-#40x1	24	3405-003
VTD-4	BT-#40x1	BT-#50x1 BT-#40x1	24	3405-004
VTD-5	SK-40x1	SK-40x2	26	3405-005
VTD-6	SK-50x1	SK-50x2	24	3405-006
VTD-7	SK-50x1	SK-50x1 SK-40x1	25	3405-007
VTD-8	SK-40x1	SK-50x1 SK-40x1	25	3405-008
VTD-9	BT-30x1	BT-30x2	23	3405-009
VTD-10	SK-30x1	SK-30x2	23	3405-009A

Simple Type Tool Setting Stand



- This tool setting stand is one kind of subsidize tool for helping machine center to work efficiently. To be used fixing the tools on tool holder. It could avoid the method of using draw bar to fix (on machine center). It is safe, and doesn't effect the precision of machine's spindle.
- It is simple structive type. And could fix tooling on the above and hold the pull studs on the below of it. This is the excellent helping tools for simple, rapid and safe.

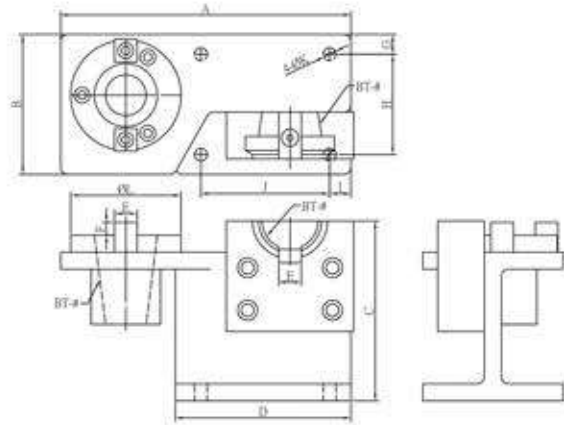
ORDER NO.	SHANK TAPERS	STD	WEIGHT (kg)	CODE NO.
VTS-BT-30	30	BT ISO NT	11.9	3405-010
VTS-BT-40	40		12.4	3405-011
VTS-BT-50	50		11.9	3405-012
VTS-SK-30	30	CAT DIN 69871A	11.9	3405-013
VTS-SK-40	40		12.4	3405-014
VTS-SK-50	50		11.9	3405-015



Tool Holder Locking Device



پایه کلت



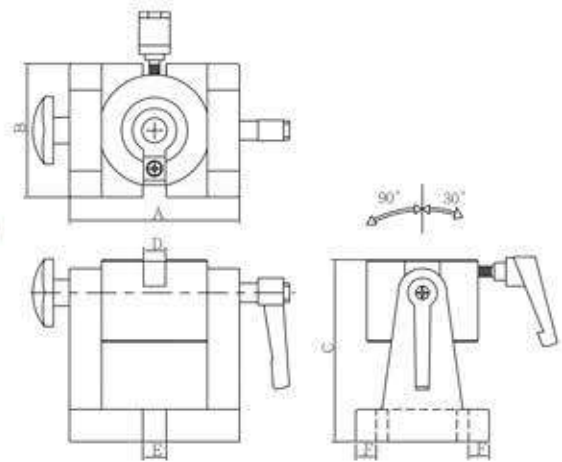
ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	CODE NO.
VTG-BT30	205	99	127	124	15	10	16	71	15	91	9	78	3405-020
VTG-BT40	205	99	127	124	16	9	14	71	15	91	9	78	3405-021
VTG-BT50	282	152	203	162	25	16	22	108	25	115	9	115	3405-022

ORDER NO.	STD	WEIGHT (KGS)	CODE NO.
VTG-BT30	ISO BT	4.1	3405-020
VTG-BT40		4.2	3405-021
VTG-BT50		11.8	3405-022
VTG-SK30	CAT SK DIN69871A	3.7	3405-023
VTG-SK40		4	3405-024
VTG-SK50		12.3	3405-025



Tool Holder Locking Device

TILTING TYPE



Example Shank Not Included

ORDER NO.	STD	WEIGHT (KGS)	CODE NO.
VTL-BT30	ISO BT	4.2	3405-030
VTL-BT40		4.3	3405-031
VTL-BT50		9.8	3405-032
VTL-SK30	DIN69871A	4	3405-033
VTL-SK40		4	3405-034
VTL-SK50		8	3405-035
VTL-NT30	NT	4.2	3405-036
VTL-NT40		4.3	3405-037
VTL-NT50		9.8	3405-038

ORDER NO.	A	B	C	D	E	F	CODE NO.
VTL-BT30	116	91	126	16	15	14	3405-030
VTL-BT40	117	91	136	16	15	14	3405-031
VTL-BT50	149	121	189	25	15	15	3405-032



Spindle Taper Wiper



تمیز کردن جا کلت



- Easily and quickly for cleaning spindle hole.
- Plastic body, the taper wiper is made of special cotton material, will not damage the spindle.
- The BT & DIN of taper are same

ORDER NO.	TAPER NO.	TOTAL LENGTH	WEIGHT (kg)	CODE NO.
VTW-30	#30	169mm	0.07	3405-060
VTW-40	#40	187mm	0.08	3405-061
VTW-50	#50	241mm	0.02	3405-062

Spindle Taper Wiper

NEW



WITH REPLACE WIPER

- Easily and quickly for cleaning spindle hole.
- Plastic body, the taper wiper is made of special cotton material, will not damage the spindle.
- The BT & DIN of taper are same
- Replaceable Wiper.
- Easy to replace new wipers.
- Included 2 sets x disposable wipers
- ECO Friendly

ORDER NO.	TAPER NO.	TOTAL LENGTH	WEIGHT (kg)	CODE NO.
VTW-30R	#30	162mm	0.08	3405-065
VTW-40R	#40	180mm	0.09	3405-066
VTW-50R	#50	230mm	0.18	3405-067

ORDER NO.	CONTAINS SPARE	WEIGHT (kg)	CODE NO.
VTW-30R-WIPER	20pcs / box	0.01	3405-530
VTW-40R-WIPER	20pcs / box	0.02	3405-531
VTW-50R-WIPER	25pcs / box	0.04	3405-532

Spindle Taper Wiper



H Type

ORDER NO.	TAPER NO.	TOTAL LENGTH	WEIGHT (kg)	CODE NO.
VTW-50H	HSK50	159mm	0.1	3405-071
VTW-63H	HSK63	167mm	0.12	3405-072



Tooling Rack Stand



VTT-30

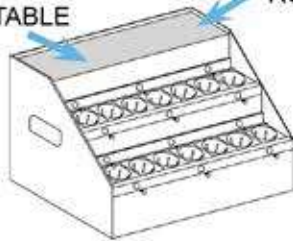
میز کلت

NEW



- Compact design
- Clear Storage
- Easy to clean
- Portable design
- Large tooling storage
- VTT-30 with Rubber mate
- Big size variety

VTT-30
FLAT TABLE RUBBER



LxWxH : 550x430x360 mm
CAPACITY VTT-30 WITH
BT-30 16 SHEATH, 1FLAT TABLE
BT-40 14 SHEATH, 1FLAT TABLE
BT-50 10 SHEATH, 1FLAT TABLE
HSK63 12 SHEATH, 1FLAT TABLE

LxWxH : 550x430x360 mm
VTT-31 WITH
BT-30 24 SHEATH
BT-40 21 SHEATH
BT-50 15 SHEATH
HSK63 18 SHEATH

ORDER NO.	STD	TOOLING SHEATH CAPACITY	CODE NO.
VTT-30-30	BT-30, DIN69871A	16 pcs/set	3405-211
VTT-30-40	BT-40, DIN69871A	14 pcs/set	3405-212
VTT-30-50	BT-50, DIN69871A	10 pcs/set	3405-213
VTT-30-HSK63	HSK63	12 pcs/set	3405-214
VTT-31-30	BT-30, DIN69871A	24 pcs/set	3405-215
VTT-31-40	BT-40, DIN69871A	21 pcs/set	3405-216
VTT-31-50	BT-50, DIN69871A	15 pcs/set	3405-217
VTT-31-HSK63	HSK63	18 pcs/set	3405-218



Tooling Cart

FOR BT30,40,50 / SK30,40,50 / CAT30,40,50 / ISO30,40,50

NEW



TOOL LOCKING DEVICE



TOOL TRAY



WITH VTRR-FOLDING HANDLE
TOOLING SHEATH RACK

VTT-21

OVERALL SIZE:626 X 655X 980 mm WEIGHT:43KGS

- LARGE CAPACITY,CAN PUT MORE SHANK TOOLING TROLLEY.
- TAPER ANGLE RACK STAND DESIGN,ERGONOMIC DESIGN,USER FRIENDLY SAVE YOU ENERGY & EASY TO TAKE OUT YOUR TOOL HOLDER.
- CAN TAKE OUT/PUT IN WHOLE SET OF THE NEW TOOLING SHEATH RACK (VTRR-30/40/50 TR SERIES).CAN FOR SEPARATE USING.
- WITH FOLDING HANDLE CAN SAVE SPACE AND BETTER FREE ACTION MOVEMENT.
- CONVENIENT & SPEED INSTALLATION.
- STABLE & HEAVY DUTY.

ORDER NO.	FOR STD	TOOL LOCKING DEVICE	TOOLING SHEATH CAPACITY	CODE NO.
VTT-21-30	BT-30 DIN 69871A SK30, CAT30, ISO30	BT-30 DIN 69871A SK30, CAT30, ISO30	32PCS/SET	3405-080
VTT-21-40	BT-40 DIN 69871A SK40, CAT40, ISO40	BT-40 DIN 69871A SK40, CAT40, ISO40	28PCS/SET	3405-081
VTT-21-50	BT-50 DIN 69871A SK50, CAT50, ISO50	BT-50 DIN 69871A SK50, CAT50, ISO50	20PCS/SET	3405-082



● HIGH ACCURACY AND HIGH RIGIDITY

Adoption of new double-lead worm gear--engagement between worm wheel and worm shaft has been improved, and tooth profile has been modified--has contributed greatly to increased dynamic accuracy. To remove the defect of single-lead worm gear. Close-tolerance taper roller bearing assembly is used, and the rotating slide part is finished in a super precision manner, which in turn, implements highly improved overall accuracy.

● SLEEVE TYPE CLAMPING MECHANISM

with this system, the Rotary Table is clamped by applying hydraulic pressure to the outer circumference of the turn table. Since the sleeve is positioned closest to the workpiece, the table clamp force is enlarged. This system is not only advantageous for heavy duty cutting but also helps improve the machining accuracy and extend the service life of the Rotary Table.

- This rotary table has been specifically developed to fulfill the requirements of a fully automatic machining process in association with a machine tool. They are used for milling, grinding and drilling of spindles, slots, plannes or bores in the radial or axial direction of the workpiece.
- Can be equipped with stepping motor or DC/AC servo motors.
- Carefully designed, rigid construction to assure high and constant indexing accuracy.
- Can operate as function M or as 4th axis or more, in machining units or numerically controlled machines, and are equally capable of being fitted to any other type of non-NC machine-tools.
- Hardened and ground steel worm, mounted on high precision combined radial-axial bearings.
- Worm mounted on an axial support system, which allows adjustment and suppression of any backlash existing between the worn and the worm-wheel after long-time service.
- High precision
Axial and radial runout within 0.01mm, Cumulative indexing accuracy within 15 sec.

※ COLOR MAY VARY



DOUBLE LEAD WORM GEARS SYSTEM

- New design/special material



PROGRAMMABLE SERVO MOTOR CONTROLLER



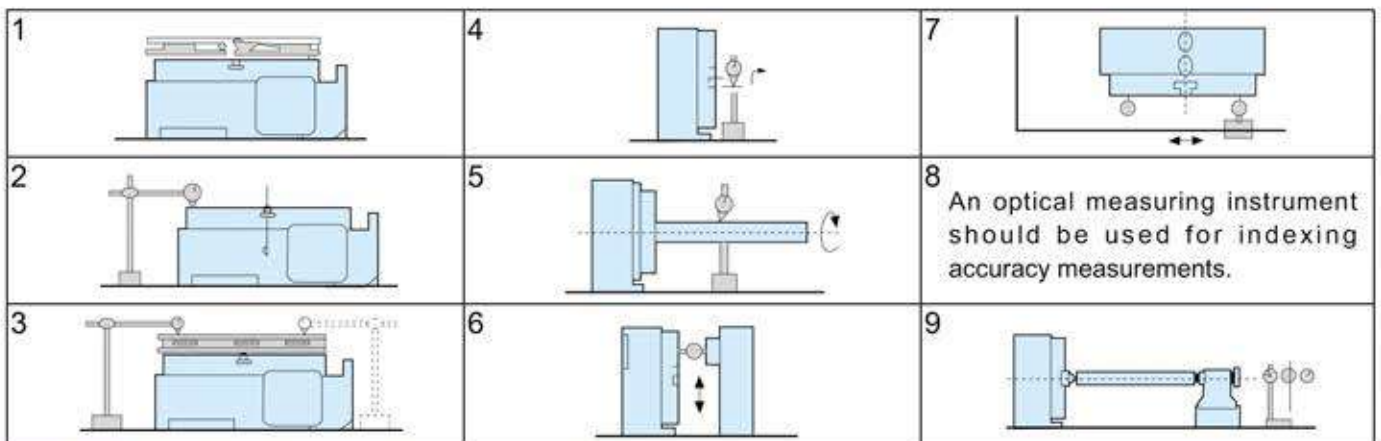
ORDER NO.	VNCM-150 $\frac{L}{R}$	VNCM-220 $\frac{L}{R}$	VNCM-250 $\frac{L}{R}$	VNCM-320 $\frac{L}{R}$	VNCM-400 $\frac{L}{R}$
Right-hand type	○	○	○	○	○
Left-hand type	○	○	○	○	○
Turntable diameter	Ø160	Ø225	Ø250	Ø320	Ø400
Table height(Horizontal pos.)	150	165	165	220	250
Table center height(Vertical pos.)	135	160	160	210	255
Center bore diameter	Ø35H7	Ø40H7	Ø40H7	Ø40H7	Ø40H7
T-slot size	12H7	12H7	12H7	14H7	14H7
Guide-block size	14h7	14h7	14h7	18h7	18h7
Number of worm wheel teeth	72	72	72	72	72
Servo motor type	FANUC α 3	FANUC α 6	FANUC α 6	FANUC α 12 FANUC α 6	FANUC α 12
Speed reduction ratio	1/90	1/180	1/180	1/180 1/360	1/180
Table graduation angle per 1 pulse	0.001°	0.001°	0.001°	0.001°	0.001°
Table rotation speed	22.2r.p.m./ (Motor 2,000r.p.m.)	11.1r.p.m./ (Motor 2,000r.p.m.)	11.1r.p.m./ (Motor 2,000r.p.m.)	11.1r.p.m./ (Motor 2,000r.p.m.) 5.5r.p.m./ (Motor 2,000r.p.m.)	11.1r.p.m./ (Motor 2,000r.p.m.)
Clamp method & Clamp torque (kg-m)	8/ (Air 5kg/cm ²)	50/ (Hydraulic 35kg/cm ²)	50/ (Hydraulic 35kg/cm ²)	85/ (Hydraulic 35kg/cm ²)	180/ (Hydraulic 35kg/cm ²)
Load capacity, horizontal(kg)	150	250	250	350	500
Load capacity, vertical(kg)	75	100	100	150	200
Inertia force (kg-cm-sec ²)	4.3	12.3	12.3	38.5	99.8
Max.torque capacity of worm gear (kg-m)	15	48	48	78	170
Max. workpiece diameter	160	225	225	320	400
Cumulative indexing accuracy sec.	20"	15"	15"	15"	15"
Repeatability sec.	4"	4"	4"	4"	4"
Inertia force(convert into motor shaft) kg-cm-sec ² X10 ⁻²	0.2	0.24	0.34	1.85 1.35	1.94
Net weight (kg)	55	75	75	200	300
CODE NO.	4001-001	4001-002	4001-003	4001-004	4001-005

● Other makers' servo motors can be installed.

● ACCURACY STANDARD

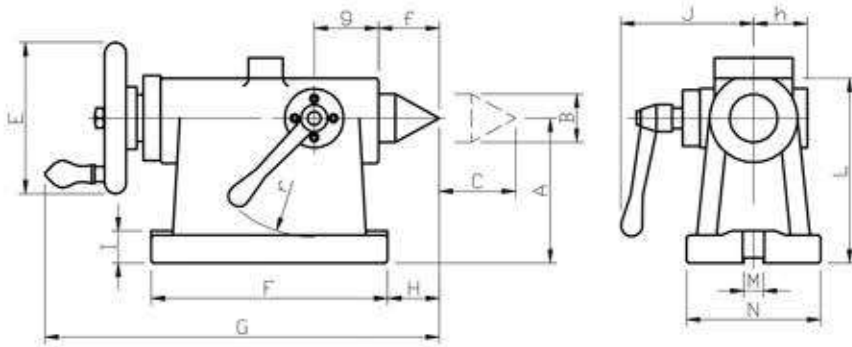
Unit:mm

NO.	Inspection Item	Inspection Item
1	Table top flatness (concave)	Per overall length 0.01
2	Table top runout	0.015
3	Parallelism of table top and frame bottom	Per overall length 0.02
4	Table spindle center runout	0.01
5	Center bore runout	Hole end 0.01
		Per 100mm 0.01
6	Perpendicularity of table top to frame bottom	Per overall length 0.02
7	Perpendicularity of table top to frame bottom guide block	Per overall length 0.02
8	Cumulative indexing accuracy	15"
9	Parallelism of center line between headstock and tailstock to frame bottom guide block	Per 300mm 0.02
10	Height difference of both center lines of headstock (Tailstock center line should be higher)	0.02



Tailstock For NC Rotary Table

مرنگ محور چہارم



Unit:mm

Main dimension		Center height A	Center diameter B	Storke C	pointed end diameter D	Handle diameter E	Base dimensions FXM	G	H	I	J	K	L	
ORDER NO.	For													
TS-135	VNCM-150	135	ø45 MT#3	55	ø14	125	215x120	332	25	25	109	-	164	
TS-135-MT3														
TS-160	VNCM-220 VNCX-10 VNCM-250	160	ø45 MT#3			140	230x130	356	30	30	129	53	-	193
TS-160-MT3														
TS-210	VNCM-320	210	ø45 MT#3				230x146	-	-	-	-	-	-	243
TS-210-MT3														

Unit:mm

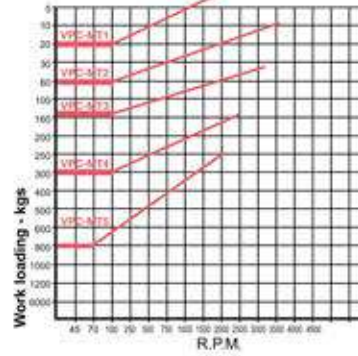
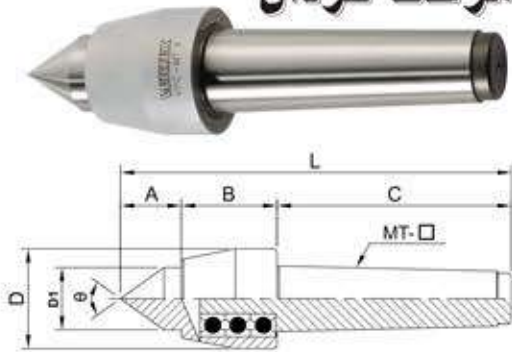
Main dimension		Guide-block size M	c	u	f	g	h	j	r	Net weight (kgs)	CODE NO.
ORDER NO.	For										
TS-135	VNCM-150	18	42	19	40	69	44	70	80	20.6	4002-001
TS-135-MT3			46								4002-001A
			46								
TS-160	VNCM-220 VNCX-10 VNCM-250		49	19	45	70	52	80	95	23.1	4002-002
TS-160-MT3			51								4002-002A
TS-210	VNCM-320		51	23	-	-	-	-	-	29.4	4002-003
TS-210-MT3		57	4002-003A								

Listed in the above table are examples of applicable models. Those not listed above should be selected so that the center height of the rotary table and dividing heads is the same as that of the tailstock.



Light Duty Live Center

مرغک گردان



- Center is made of SCM420 alloy steel by heat treatment to provide higher rigidity (HRC60±2°) and satisfied wear-resistance.
- Center is constituted by ball bearings assembly.
- Applicable to middle-speed & high-speed lathe with light load.

※Suggested tailstock pressure under 6 kg/cm²

FOR VPC-TYPE

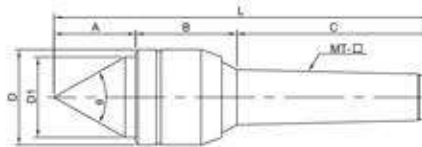
Unit:mm

ORDER NO.	A	B	C	D	D1	L	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VPC-MT1	21	31	56	32	16	108	0.005	3200	60°	0.3	115 x 136 x 38	5001-001
VPC-MT2	26	37	69	40	22	132	0.005	2800	60°	0.5	140 x 45 x 45	5001-002
VPC-MT3	32	46	86	45	26	164	0.005	2000	60°	0.9	170 x 50 x 52	5001-003
VPC-MT4	34	46	108	48	30	188	0.005	1800	60°	1.3	195 x 58 x 56	5001-004
VPC-MT5	50	62	136	68	45	248	0.005	1500	60°	3.2	268 x 86 x 77	5001-005

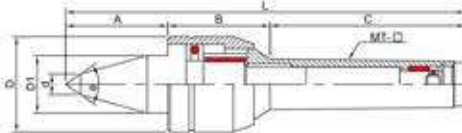
Live Lathe Center



A TYPE



B TYPE



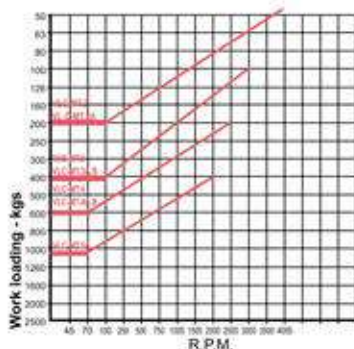
- Center shaft & main body is made of SCM420 alloy steel by heat treatment to provide higher rigidity (HRC60±2°) and satisfied wear-resistance.
- Center is constituted by thrust ball bearing, needle roller bearings & ball bearings assembly.
- Applicable to middle-speed & high-speed lathe with heavy load.
- ※ B TYPE SUITABLE FOR SMALL -WORKPIECE MACHINING.

※Suggested tailstock pressure under 6 kg/cm²

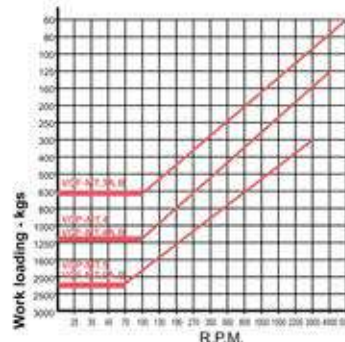
Unit:mm

ORDER NO.	TYPE	A	B	C	D	D1	d	L	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VLC-212	MT2A	28	35	69	32	23	-	132	0.005	4000	60°	0.3	173 x 43 x 40	5001-010
VLC-213	MT3A	36	44	86	41	35	-	166	0.005	3000	60°	0.9	198 x 67 x 51	5001-011
VLC-214	MT4A	41	51	108	47	40	-	200	0.005	2500	60°	1.5	240 x 70 x 61	5001-012
VLC-215	MT5A	54	72	136	65	52	-	262	0.005	2000	60°	3.8	290 x 92 x 80	5001-013
VLC-213B	MT3B	46	44	86	41	25	10	176	0.005	3000	60°	0.9	198 x 67 x 51	5001-014
VLC-214B	MT4B	55	51	108	47	32	12	214	0.005	2500	60°	1.5	240 x 70 x 61	5001-015

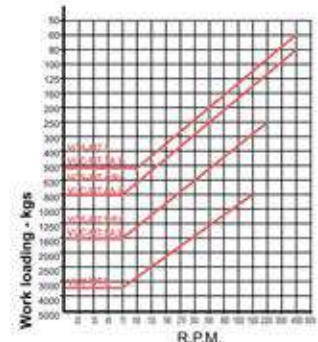
THE CHART FOR LOADING WEIGHT WITH R.P.M.



FOR VLC-TYPE



FOR VCF/VCP-TYPE



FOR VCS-TYPE



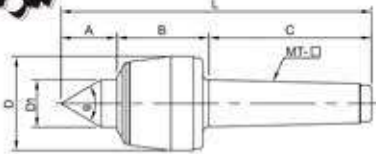
High-Speed NC Live Center



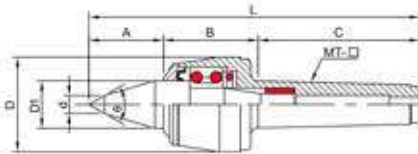
مرکز گردان سرعت بالا



A TYPE



B TYPE



WATER-PROOF TYPE

- Center shaft is made of SUJ2 material under vacuum heat treatment to provide higher rigidity (HRC60°±2°) and satisfied wear-resistance.
- Center is constituted by dual ball bearing. Thrust bearing & needle roller bearing assembly.
- Applicable to high-speed lathe & NC lathe with heavy load
- water-proof.
- ※ B Type is applicable in the metal workings on small diameter workpieces.

※Suggested tailstock pressure under 6 kg/cm²

Unit:mm

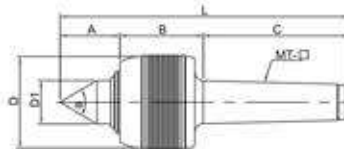
ORDER NO.	TYPE	A	B	C	D	D1	d	L	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VLC-MT3A	MT3A	39	51	86	53	30	-	176	0.005	4000	60°	1.3	240 x 70 x 61	5001-020
VLC-MT4A	MT4A	42	62	108	63	32	-	212	0.005	3000	60°	2.2	253 x 92 x 80	5001-021
VLC-MT5A	MT5A	57	71	136	83	40	-	264	0.005	2500	60°	4.5	303 x 108 x 101	5001-022
VLC-MT6A	MT6A	80	111	189	128	70	-	380	0.008	1500	60°	15.6	410 x 177 x 168	5001-023
VLC-MT3B	MT3B	48	52	86	53	30	10	186	0.005	4000	60°	1.4	240 x 70 x 61	5001-024
VLC-MT4B	MT4B	52	62	108	63	32	12	218	0.005	3000	60°	2.2	253 x 92 x 80	5001-025
VLC-MT5B	MT5B	67	71	136	83	40	14	274	0.005	2500	60°	4.5	303 x 108 x 101	5001-026



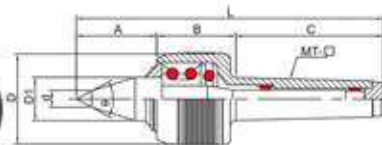
High-Load NC Live Center



A TYPE



B TYPE



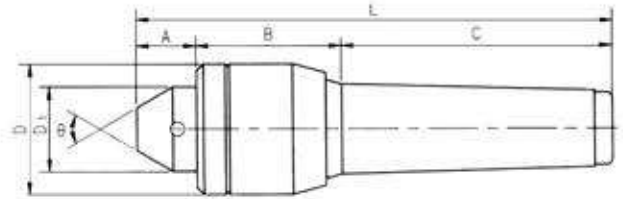
- Shaft uses material SUJ2: through vacuum heat treatment, it is even more durable, hardness is as high as (HRC60°±2°) and satisfied wear-resistance.
- Front end is constituted by angular contact ball bearing & thrust ball bearing. middle & rear ends are comprised of needle roller bearing assembly.
- These centers are suitable for NC lathe at high-speed & heavy-load operation, water-proof.
- ※ B Type is applicable in the metal workings on small workpieces.

※Suggested tailstock pressure under 6 kg/cm²

Unit:mm

ORDER NO.	A	B	C	D	D1	d	L	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCF-MT3A	38	50	86	53	30	-	174	0.003	5000	60°	1.3	240 x 70 x 61	5001-030
VCF-MT4A	45	60	108	68	32	-	213	0.003	4500	60°	2.4	253 x 92 x 80	5001-031
VCF-MT5A	52	70	136	87	40	-	258	0.003	3000	60°	5	303 x 108 x 101	5001-032
VCF-MT3B	52	50	86	53	25	10	188	0.003	5000	60°	1.3	240 x 70 x 61	5001-033
VCF-MT4B	55	60	108	68	32	12	223	0.003	4500	60°	2.4	253 x 92 x 80	5001-034
VCF-MT5B	67	70	136	87	40	14	273	0.003	3000	60°	5	303 x 108 x 101	5001-035

مرغک گردان سر تعویض شو



- Complete set with 7 Interchangeable Points for various processing.
- Packed in case.
- High accuracy and durability as well as complete rust-proof performance
- Center made of SCM420 special tool steel hardened and ground can be used for heavy duty work.

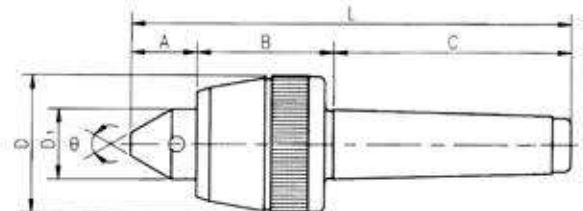


※Suggested tailstock pressure under 6 kg/cm²

ORDER NO.	TYPE	A	B	C	D	D1	L	Accuracy	Speed Max. R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VLC-312	MT2	22	36	69	32	25	127	0.008	4000	60°	0.9	166 x 105 x 63	5001-040
VLC-313	MT3	23	44	86	41	30	153	0.008	3000	60°	1.4	255 x 138 x 100	5001-041
VLC-314	MT4	23	51	108	47	32	182	0.008	2500	60°	2	255 x 138 x 100	5001-042

Unit:mm

High Speed NC Interchangeable Points Live Center



VCS-MT3, MT4



VCS-MT4P, MT5P



- Center shaft is made of SUJ2 material under vacuum heat treatment to provide higher rigidity (HRC60°±2°) and satisfied wear-resistance.
- Center is constituted by dual ball bearing. Thrust bearing & needle roller bearing assembly.
- Suit for to high-speed lathe & NC leathe with heavy load, water-proof.

※Suggested tailstock pressure under 6 kg/cm²

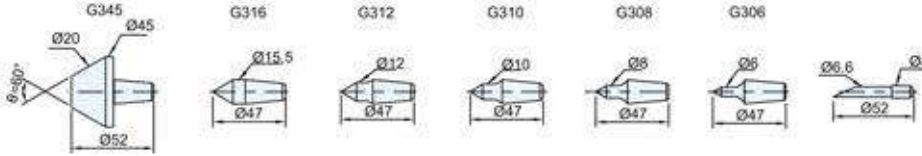
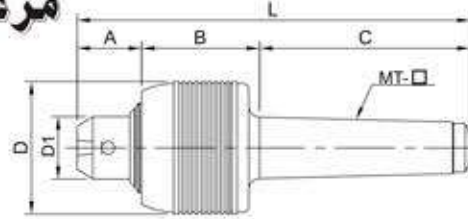
ORDER NO.	A	B	C	D	D1	L	Accuracy	Speed Max. R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCS-MT3	28	51	86	53	30	165	0.008	4000	60°	1.8	255 x 138 x 100	5001-050
VCS-MT4	30	62	108	63	32	196	0.008	3500	60°	2.5	255 x 138 x 100	5001-051
VCS-MT4P	30	62	108	63	32	196	0.008	3500	60°	2.7	235 x 130 x 80	5001-052
VCS-MT5P	34	71	136	83	40	237	0.008	2500	60°	5.1	275 x 147 x 97	5001-053

Unit:mm



High Load Interchangeable Points Live Center

مرکز گردان سر تعویض شو



- Shaft uses material SUJ2: through vacuum heat treatment, it is even more durable, hardness is as high as (HRC60 \pm 2 $^\circ$) and satisfied wear-resistance.
- Front end is constituted by SKF angular contact ball bearing & thrust ball bearing. middle & rear ends are comprised of needle roller bearing assembly.
- These centers are suitable for NC lathe at high-speed & heavy-load operation, water-proof.

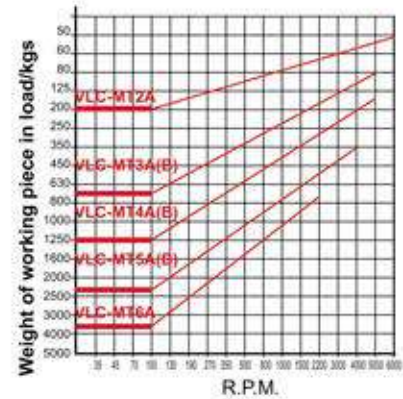
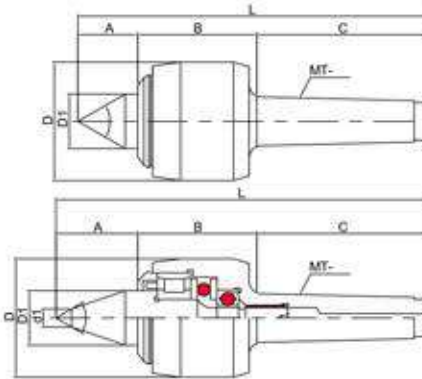
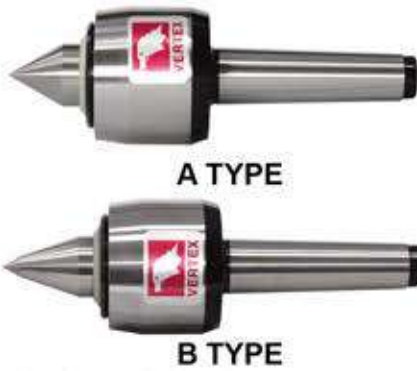
※Suggested tailstock pressure under 6 kg/cm²

Unit:mm

ORDER NO.	A	B	C	D	D1	L	Accuracy	Speed Max. R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCP-MT4	30	64	108	68	32	202	0.005	4500	60 $^\circ$	3	253 x 130 x 80	5001-060
VCP-MT5	37	70	136	87	40	243	0.005	3000	60 $^\circ$	5.5	275 x 147 x 97	5001-061

High Speed Live Center

NEW EURO STYLE



- Suit for to CNC lathes, can be used at high speed turning and with waterproof design.
 - The shaft is made of alloy steel and through vacuum heat treatment HRC 60 \pm 2 $^\circ$. It has high rigidity and high durability.
 - The center uses the combination of roller bearing, thrust ball bearing and ball bearing.
- ※B Type is applicable in the metal workings on small workpieces.

※Suggested tailstock pressure under 6 kg/cm²

Unit:mm

ORDER NO.	TYPE	A	B	C	D	D1	L	d1	Accuracy	Speed Max. R.P.M	θ	G.W. weight	PACKING L x W x H	CODE NO.
VLC-512	MT2A	20	46	69	32	13	135	-	0.003	6000	60 $^\circ$	0.8	240x70x61	5001-062
VLC-513	MT3A	34	61	86	58	25	181	-	0.003	5200	60 $^\circ$	1.8	253x92x80	5001-063
VLC-514	MT4A	44	67	114	76	35	225	-	0.003	5000	60 $^\circ$	3.2	290x92x80	5001-064
VLC-515	MT5A	55	88	142	95	45	285	-	0.003	3500	60 $^\circ$	5.6	303x108x101	5001-065
VLC-513B	MT3B	45	61	86	58	25	192	10	0.003	5200	60 $^\circ$	1.8	290x92x80	5001-067
VLC-514B	MT4B	55	67	114	76	35	236	12	0.003	5000	60 $^\circ$	3.2	253x92x80	5001-068
VLC-515B	MT5B	67	88	142	95	45	297	14	0.003	3500	60 $^\circ$	6.0	303x108x101	5001-069



Bull Nose Pipe Center

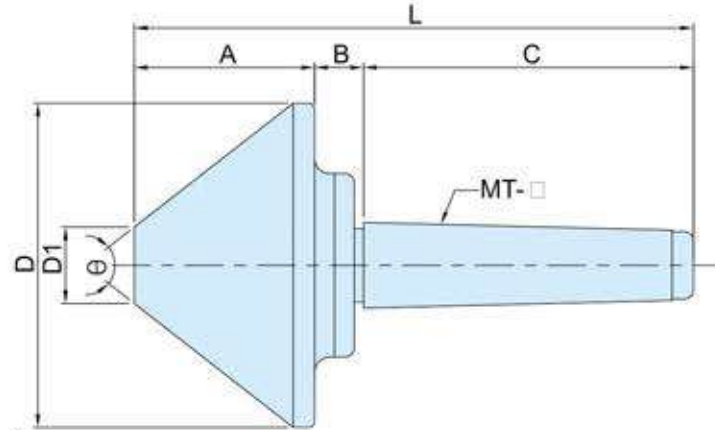


Pipe Live Center

مرغک لوله



HARDEN PROCESS : HRC50°
CONCENTRICITY : 0.005mm
ROUNDNESS : 0.005mm
MATERIAL : STEEL



※Suggested tailstock pressure under 6 kg/cm²

Unit:mm

ORDER NO.	SIZE MTxD	A	B	C	D	D1	L	Speed Max. R.P.M	θ	R.P.M 100 LOAD WEIGHT (KGS)	G.W. weight (KGS)	CODE NO.
VLC-422	MT2×2 1/2"	48	12	69	63.5	12	128	3000	60°	200	0.9	5001-070A
VLC-423	MT2×3"	56	12	69	78	19	138	2500	60°	400	1.3	5001-070B
VLC-424	MT2×4"	58	12	69	106	32	141	2000	70°	640	2.3	5001-070C
VLC-433	MT3×3"	52	18	86	78	19	156	3300	60°	400	1.6	5001-070
VLC-434	MT3×4"	59	16	86	106	32	161	3000	70°	500	2.8	5001-071
VLC-435	MT3×5"	71	12	89	128	35	173	1900	70°	960	4.2	5001-071A
VLC-436	MT3×6"	81	12	89	156	50	183	1900	70°	1200	7.3	5001-071B
VLC-443	MT4×3"	52	18	108	78	19	178	3300	60°	400	1.8	5001-072
VLC-444	MT4×4"	59	16	108	106	32	183	3000	70°	500	3.1	5001-073
VLC-445	MT4×5"	73	12	108	128	35	193	2000	70°	650	4.9	5001-074
VLC-446	MT4×6"	88	12	108	156	50	208	1900	70°	800	7.7	5001-075
VLC-448	MT4×8"	98	12	108	206	54	218	1500	75°	1300	15.4	5001-076
VLC-4410	MT4×10"	107	13	110	258	92	236	1000	80°	2000	24	5001-076A
VLC-454	MT5×4"	58	12	143	106	32	214	2000	70°	640	4	5001-077A
VLC-455	MT5×5"	73	12	136	128	35	221	2000	70°	650	5.8	5001-077
VLC-456	MT5×6"	88	12	136	156	50	236	1900	70°	800	8.6	5001-078
VLC-458	MT5×8"	98	12	136	206	54	246	1500	75°	1600	15.7	5001-079
VLC-4510	MT5×10"	107	13	143	258	92	264	1000	80°	2200	25.5	5001-079A
VLC-4512	MT5×12"	110	25	143	306	120	281	1000	90°	3000	37.5	5001-079B
VLC-466	MT6×6"	81	12	185	156	50	281	1900	70°	1200	12	5001-080A
VLC-468	MT6×8"	103	13	185	206	54	298	1500	75°	2000	15.8	5001-080
VLC-4610	MT6×10"	107	13	185	258	92	306	1000	80°	2500	28	5001-081
VLC-4612	MT6×12"	110	25	185	306	120	323	1000	90°	3000	40	5001-082



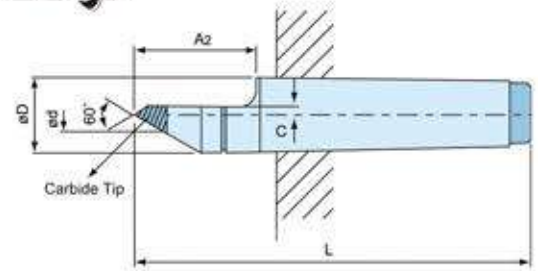
Lathe Center



- Half diameter
- High precision
- Carbide tip
- DIN 806

مرکب ثابت

NEW



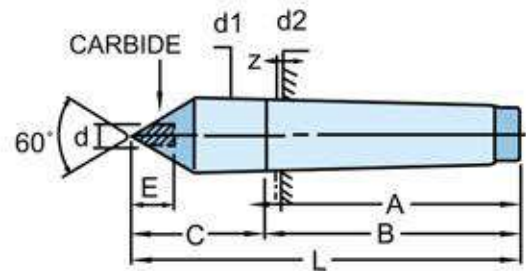
※Suggested tailstock pressure under 6 kg/cm²

ORDER NO.	SIZE	A2	C	ØD	Ød	L	Weight (kgs)	CODE NO
VLC-117	MT3	41	3	24	9	124	0.33	5001-086
VLC-118	MT4	54	4	31.3	11.5	158	0.72	5001-087
VLC-119	MT5	69	4.5	44.5	13	198	1.73	5001-088



Lathe Center

- K20 Carbide tipped-HRC 70°
- Hardened & precision ground.
- Concentricity within .0002" (0.005mm)
- DIN806



※Suggested tailstock pressure under 6 kg/cm²

ORDER NO.	SIZE	A	B	C	E	L	d2	d1	d	Weight (kgs)	CODE NO.
VLC-112	MT-2	69	67	31	8	100	17.780	18.0	6	0.2	5001-090
VLC-113	MT-3	89	81	39	10	125	23.825	24.1	8	0.4	5001-091
VLC-114	MT-4	109	102.5	46	14	155	31.267	31.6	10	0.8	5001-092
VLC-115	MT-5	136	129.5	64	18	200	44.399	44.7	14	2.1	5001-093
VLC-116	MT-6	190	182	80	30	270	63.648	63.8	18	5.7	5001-094

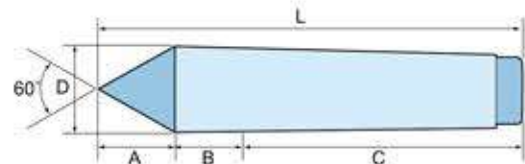
Unit:mm



Dead Center

- Suit for lathe & grinding machine
- Hardened & precision ground
- DIN806

NEW



※Suggested tailstock pressure under 6 kg/cm²

ORDER NO.	SIZE	A	B	C	D	L	Weight (kgs)	CODE NO
VLC-126	MT2	18	7	75	19	100	0.16	5001-111
VLC-127	MT3	24	10	91	25	125	0.34	5001-112
VLC-128	MT4	30	11	114	32	155	0.73	5001-113
VLC-129	MT5	39	16	145	46	200	1.9	5001-114
VLC-130	MT6	54	29	187	64	270	5.12	5001-115



VDK-15



VDK-23



VDK-32

- This Clamp-free center is comprised of excellent mechanical structure, nearly free of breakdown. main body & center shaft are made of SLD material by heat treatment(HRC62°). Driving is required for traditional lathe machining to prevent workpiece from stop.
- This clamp-free center with 6 T & 8T design on end surface is able to securely support workpiece surface to fulfill easy and rapid machining.

※Suggested tailstock pressure under 6 kg/cm²

Unit:mm

ORDER NO.	Center Shaft Size	Outer Dia	Working Range	Weight (KGS)	CODE NO.
VDK-15-MT4	6ø	16ø	16ø-25ø	0.6	5001-100
VDK-23-MT4	8ø	23ø	23ø-32ø	0.7	5001-101
VDK-32-MT4	8ø	32ø	32ø-45ø	0.7	5001-102



Work-Driving Center-Changable Tips

مرغک شاخدار سر تعویض شو



SET STYLE



TAPER SLEEVE



STOPPER



CENTER



※Suggested tailstock pressure under 6 kg/cm²

Unit:mm

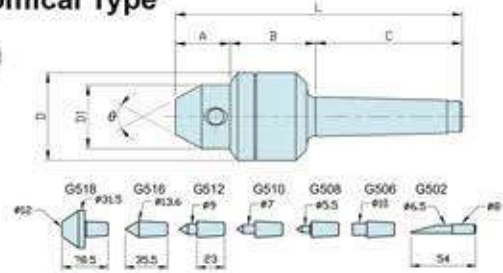
ORDER NO.	Center Shaft Size	Stopper Outer Dia	Working Range	Weight (KGS)	CODE NO.
VDC-30-MT4	6ø, 8ø, 10ø	16ø, 23ø, 30ø	15ø-45ø	2.63	5001-106



Inter-Changeable Point Rolling Center VERTEX®

Economical Type

NEW



- 7 points / set
- Concentricity : $\pm 0.008\text{mm}$
- With high grade bearing

※Suggested tailstock pressure under 6 kg/cm²

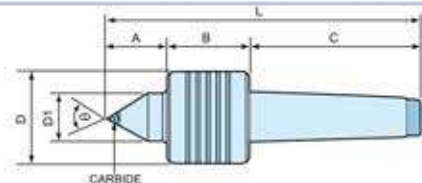
Unit:mm

ORDER NO.	TYPE	A	B	C	D	D1	L	Accuracy	Speed Max R.P.M.	θ	G.W. Weight Kgs	CODE NO.
VLC-612	MT2	24	39	69	40	29	132	0.005	1800	60°	0.85	5001-121
VLC-613	MT3	24	43	91	46	30	158	0.005	1600	60°	1.1	5001-122
VLC-614	MT4	24	44	107	48	32	175	0.005	1600	60°	1.4	5001-123
VLC-615	MT5	25	64	138	63.5	35	227	0.005	1000	60°	3.8	5001-124

Live Lathe Center

NEW

LIGHT DUTY



- K20 carbide tipped, HRC 70°
- Hardened & precision ground
- Concentricity : $0.0002'' (\pm 0.005\text{mm})$

※Suggested tailstock pressure under 6 kg/cm²

ORDER NO.	TYPE	A	B	C	D	D1	L	SPEED MAX. R.P.M.	θ	WORK LOADING-KGS	G.W. weight kgs	CODE NO
VLC-172	MT2	32	40	72	41	25	144	2300	60°	60	0.55	5001-131
VLC-173	MT3	34	45	88	45	30	167	2000	60°	160	0.84	5001-132
VLC-174	MT4	34	45	109	45	30	188	1800	60°	300	1.15	5001-133
VLC-175	MT5	50	61	134	68	45	245	1500	60°	800	3.3	5001-134

Drill Chucks Arbor



SLEEVE Please see page C43,C44,C56,C57

ORDER NO.	I.D.xO.D.	D	d	L	l1	l2	kg	CODE NO.
VQ-101	MT2xMT3	23.825	17.780	112	18	67	0.2	3210-001
VQ-102	MT2xMT4	31.267	17.780	124	6.5	67	0.5	3210-002
VQ-103	MT2xMT5	44.399	17.780	156	6.5	67	1.4	3210-003
VQ-104	MT2xMT6							3210-004
VQ-105	MT3xMT4	31.267	23.825	140	22.5	84	0.4	3210-005
VQ-106	MT3xMT5	44.399	23.825	156	6.5	84	1.3	3210-006
VQ-107	MT3xMT6	63.348	23.825	218	8	84	4	3210-007
VQ-108	MT4xMT5	44.399	31.267	171	21.5	107	1	3210-008
VQ-109	MT4xMT6	63.348	31.267	218	8	107	3.7	3210-009
VQ-110	MT5xMT6	63.348	44.399	218	8	133	2.9	3210-010
VQ-100	MT1xMT3	23.825	12.065	100	6	55	0.2	3210-011
VQ-100-1	MT1xMT2	17.780	12.065	89	14	55	0.22	3210-012
VQ-100-2	MT1xMT4	31.267	12.065	124	6.5	55	0.89	3210-013
VQ-100-3	MT1xMT5	44.399	12.065	156	7	55	1.33	3210-014

ORDER NO.	TAPER	JT NO.	C	H	kg	CODE NO.
VJ-126	MT2	JT3	20.6	34	0.24	3209-006
VJ-126-1	MT2	B16	15.733	29	0.2	3209-006A
VJ-126-3	MT2	B18	17.78	37	0.21	3209-006B
VJ-130	MT2	JT6	17.17	28	0.22	3209-029
VJ-130-2	MT2	JT5	35.89	50	0.5	3209-029A
VJ-130-4	MT2	JT4	28.55	45	0.4	3209-029B
VJ-137	MT2	JT2	14.2	25	0.2	3209-056
VJ-131	MT3	JT6	17.17	26	0.4	3209-030
VJ-131-2	MT3	JT5	35.89	50	0.7	3209-030A
VJ-131-4	MT3	JT33	15.85	28	0.3	3209-030B
VJ-134	MT3	B16	15.733	24	0.3	3209-033
VJ-134-2	MT3	B18	17.78	37	0.4	3209-033A
VJ-138-1	MT3	JT3	20.60	34	0.35	3209-034
VJ-131-2	MT3	JT5	35.89	50	0.7	3209-030A
VJ-138-2	MT3	JT4	28.55	45	0.5	3209-035
VJ-132	MT4	JT6	17.17	26	0.7	3209-031
VJ-132-1	MT4	JT3	20.60	34	0.7	3209-031A
VJ-132-7	MT4	JT4	28.55	45	0.85	3209-031B
VJ-132-4	MT4	JT5	35.89	50	1	3209-031C
VJ-132-5	MT4	JT2	14.2	25		3209-031D
VJ-132-6	MT4	JT33	15.85	28	0.65	3209-031E
VJ-132-8	MT4	B18	17.78	37	0.7	3209-031F
VJ-135	MT4	B16	15.733	29	0.7	3209-036
VJ-133	MT5	JT6	17.17	26	1.6	3209-032
VJ-133-1	MT5	JT3	20.60	35	1.6	3209-032A
VJ-133-2	MT5	JT4	28.55	46	1.8	3209-032B
VJ-133-3	MT5	JT5	35.89	51	2	3209-032C
VJ-133-4	MT5	JT2	14.2	26	1.6	3209-032D
VJ-133-5	MT5	JT33	15.85	29	1.6	3209-032E



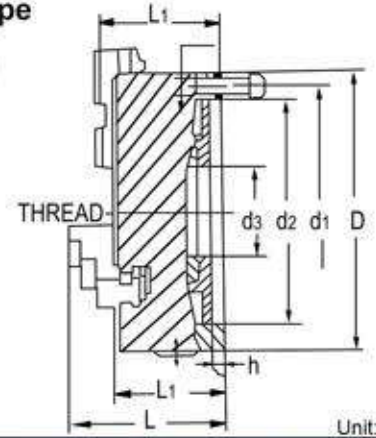
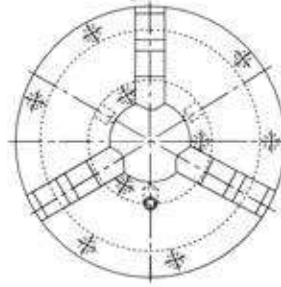
3 Jaw Self Centering Chuck



2 Set of Solid Jaw. Plain Back

Normal Type

سه نظام دستگاه تراش



Unit:mm

SPECIFICATIONS

ORDER NO.	D-Size	d1	d2	d3	L	L1	h	THREAD	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
									O.D. RANGE	I.D. RANGE		
VSC-3A	80mm(3")	66	55	16	66	50	3.5	3-M6	Ø2-Ø70	Ø24-Ø64	2	5002-020A
VSC-4A	100mm(4")	84	72	22	74.5	55	3.5	3-M8	Ø3-Ø90	Ø32-Ø84	3.3	5002-021A
VSC-5A	130mm(5")	115	100	30	78	55	3.5	3-M8	Ø3-Ø110	Ø35-Ø100	5.8	5002-022A
VSC-6A	160mm(6")	142	130	45	95	65	5	3-M8	Ø3-Ø160	Ø48-Ø150	9	5002-023A
VSC-7A	190mm(7 1/2")	172	155	55	105	75	5	3-M10	Ø4-Ø180	Ø56-Ø170	15.1	5002-024A
VSC-8A	200mm(8")	180	165	70	109	75	5	3-M10	Ø4-Ø180	Ø56-Ø170	15.6	5002-025A
VSC-9A	240mm(9 1/2")	215	195	70	122.5	80	5	3-M12	Ø5-Ø220	Ø62-Ø210	26	5002-026A
VSC-10A	250mm(10")	226	206	80	120	80	5	3-M12	Ø6-Ø220	Ø70-Ø250	26.5	5002-027A
VSC-12A	315mm(12")	285	260	100	147.5	90	6	3-M16	Ø10-Ø300	Ø86-Ø290	47	5002-028A
VSC-16A	400mm(16")	368	340	130	173.5	100	6	3-M16	Ø14-Ø400	Ø100-Ø380	73	5002-029A
VSC-20A	500mm(20")	465	440	210	202	115	6	3-M16	Ø25-Ø500	Ø150-Ø500	131	5002-030A
VSC-25A	630mm(25")	595	560	260	194	130	6	3-M16	Ø50-Ø630	Ø170-Ø630	200	5002-031A

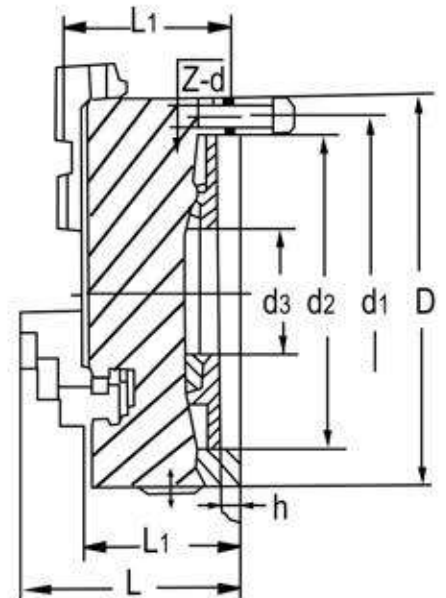
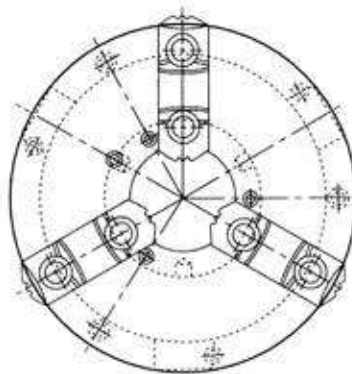


3 Jaw Powerful Self Centering Chuck

Reversible Top Jaws. Plain Back

Normal Type

سه نظام فک آلی دستگاه تراش



Unit:mm

3 JAW SELF CENTERING CHUCK REVERSIBLE TOP JAWS. PLAIN BACK

SPECIFICATIONS

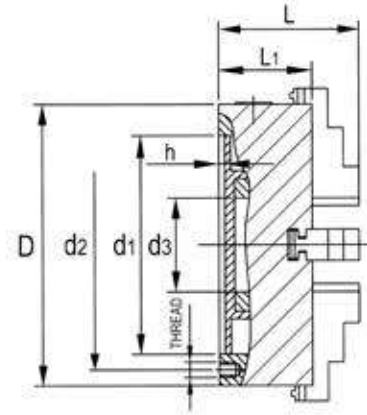
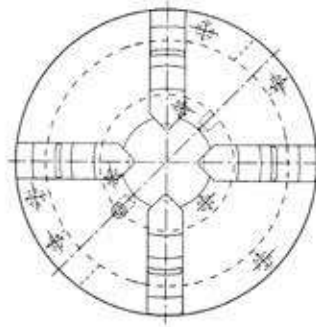
ORDER NO.	D-Size	d1	d2	d3	L	L1	h	THREAD	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
									O.D. RANGE	I.D. RANGE		
VSK-6A	160mm(6")	142	130	45	95	71	5	3-M8	Ø8-Ø160	Ø55-Ø150	8.3	5002-040A
VSK-8A	200mm(8")	180	165	65	109	78	5	3-M12	Ø8-Ø180	Ø62-Ø170	16	5002-042A
VSK-10A	250mm(10")	226	206	80	120	84	5	3-M12	Ø12-Ø260	Ø80-Ø250	21.7	5002-043A
VSK-12A	315mm(12")	285	260	100	156.5	102.5	6	3-M16	Ø15-Ø300	Ø90-Ø290	41	5002-043B
VSK-13A	325mm(13")	296	272	100	154.5	102.5	6	3-M16	Ø11.5-Ø350	Ø110-Ø340	45.8	5002-044A
VSK-15A	380mm(15")	350	325	130	156.5	104.5	6	3-M16	Ø11.5-Ø400	Ø110-Ø400	64.7	5002-045A
VSK-16A	400mm(16")	368	340	130	181.5	129.5	6	3-M16	Ø30-Ø470	Ø110-Ø380	75.5	5002-046A



4 Jaw Self Centering Chucks



چهار نظام منظم



SPECIFICATIONS

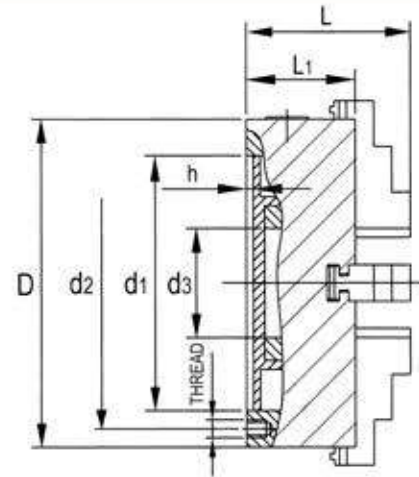
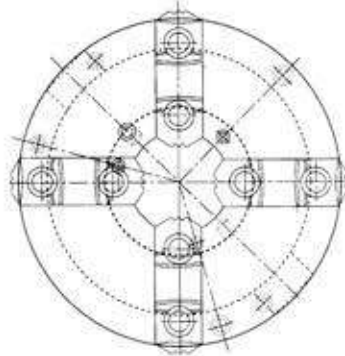
Unit:mm

ORDER NO.	D	d1	d2	d3	L	L1	h	THREAD	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
									O.D. RANGE	I.D. RANGE		
VPS-6A	165	130	145	45	94	65	5	3-M8	Ø4-Ø165	Ø55-Ø150	9.3	5002-050
VPS-8A	200	165	180	65	109	75	5	3-M10	Ø4-Ø200	Ø65-Ø200	16.6	5002-052
VPS-10A	250	206	226	80	120	80	5	3-M12	Ø6-Ø250	Ø90-Ø250	28	5002-053
VPS-12A	315	260	285	100	147.5	90	6	3-M16	Ø10-Ø315	Ø100-Ø315	54	5002-054



4-Jaw Self Centering Chucks (2-Pieces Jaw)

چهار نظام فك آلنى



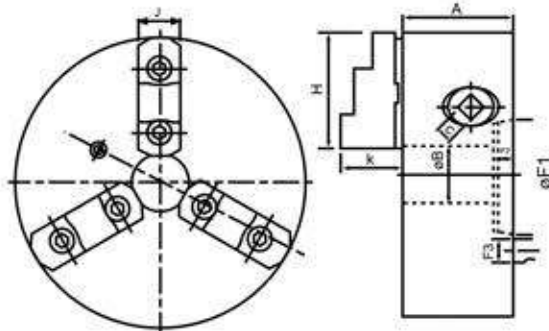
SPECIFICATIONS

Unit:mm

ORDER NO.	D	d1	d2	d3	L	L1	h	THREAD	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
									O.D. RANGE	I.D. RANGE		
VPS-6AK	165	130	145	45	109	65	5	3-M8	Ø4-Ø165	Ø55-Ø150	9.5	5002-055
VPS-8AK	200	165	180	65	122	75	5	3-M10	Ø4-Ø200	Ø65-Ø200	14.8	5002-057
VPS-10AK	250	206	226	80	136	80	5	3-M12	Ø6-Ø250	Ø90-Ø250	24.7	5002-058
VPS-12AK	315	260	285	100	156.5	90	6	3-M16	Ø10-Ø315	Ø100-Ø315	45.7	5002-059



BACK SAMPLE



(ASA spindle nose D1-4, D1-5, D1-6, D1-8)

American standard camlock type with 2-piece reversible hard top jaws.

- Gripping accuracy of 0.03mm(0.002inch)T.I.R.
- Standard accessories A chuck wrench and hex. key One set of mounting bolts.(UNC-bolts)
- The body is made of MEEHANITE.

It is suitably used for high speed revolution and 3 times more durable than regular chucks.

SPECIFICATIONS

ORDER NO.	Spindle Size	Chuck Size	A	B	C	H	J	K	Mounting Dimensions				Gripping Range		Weight (kg)	Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.M ²)	Max. Speed (r.p.m.)	CODE NO.
									F1	F2	F3	F4	O.D. Range	I.D. Range						
KD5-8"	D1-5	200	77	46	11	82	28	42	82.563	14.3	19	104.78	Ø8-Ø180	Ø62-Ø170	18	11.5	3600	0.07	3200	5002-061
KD6-8"	D1-6	200	77	58	11	82	28	42	106.375	16	22	133.35	Ø8-Ø180	Ø62-Ø170	17	17	3600	0.07	3200	5002-063

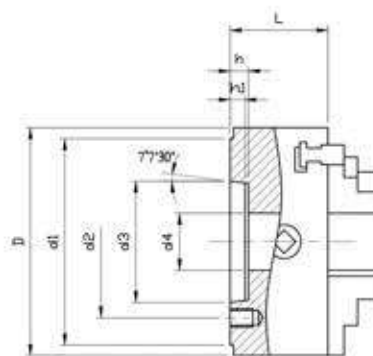
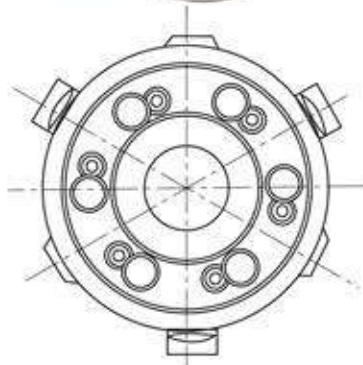
 **3-Jaw Powerful Camlock Type Self-Centering Chuck**

NEW



SAMPLE

Ød4	
D1-5	82.563
D1-6	106.375
D1-8	106.375
D1-11	106.357



SPECIFICATIONS

ORDER NO.	D	MOUNTING TYPE	d1	d2	d3	d4	L	H1	h	THREAD	WEIGHT (kgs)	CODE NO.
VSKC-6A	160	D5	40	104.8	146	82.563	12	73	15	6-M12x1.0P	10	5002-111
VSKC-8A	200	D6	50	133.4	181	106.375	13	86	16	6-M16x1.5P	17	5002-112
VSKC-10A	250	D6	70	133.4	181	106.375	13	98	16	6-M16x1.5P	32	5002-113
VSKC-12A	315	D6	100	133.4	181	106.375	13	103.5	16	6-M16x1.5P	49	5002-114

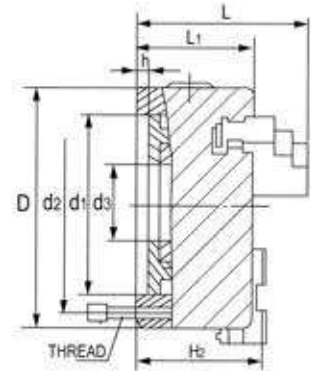
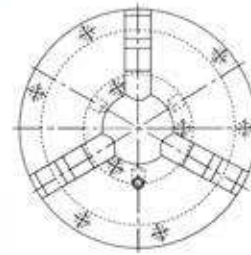


DIN-Type 3-Jaw Self-Centering Chucks



SIMILAR DIN6350

سه نظام دور بالا



It have front mounting type as well.

SPECIFICATIONS

Unit:mm

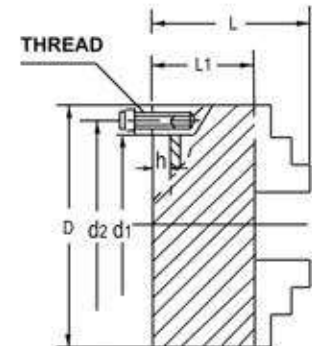
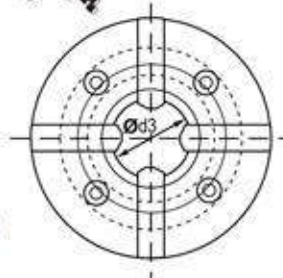
ORDER NO.	D	d1	d2	d3	L	L1	h	THREAD	R.P.M. MAX SPEED	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
										O.D. RANGE	I.D. RANGE		
VSC-3D	80	56	67	16	66.5	50	4	3-M6	4000	Ø2-Ø70	Ø22-Ø63	1.9	5002-215
VSC-4D	100	70	83	22	74.5	55	3	3-M8	3500	Ø2-Ø90	Ø30-Ø80	3.3	5002-216
VSC-5D	125	95	108	30	84.5	58	4	3-M8	3000	Ø2.5-Ø125	Ø38-Ø110	5.2	5002-217
VSC-6D	160	125	140	45	94	65	5	6-M10	2500	Ø3-Ø160	Ø55-Ø145	9.1	5002-218
VSC-8D	200	160	176	65	109	75	5	6-M10	2500	Ø4-Ø200	Ø65-Ø200	16	5002-219
VSC-10D	250	200	224	80	120	80	5	6-M12	1600	Ø6-Ø250	Ø90-Ø250	27.5	5002-219A



4-Jaw Independent Chuck Plain Back



چهار نظام نامنظم



SPECIFICATIONS

Unit:mm

ORDER NO.	D-size	d1	d2	d3	L	L1	h	THREAD	R.P.M. MAX SPEED	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
										O.D. RANGE	I.D. RANGE		
VKC-4	100mm(4")	72	84	25	74	54	3.5	4-M8	2300	Ø6-Ø45	Ø40-Ø100	3.5	5002-220
VKC-5	125mm(5")	95	108	30	78	56	4.5		1900	Ø7-Ø57	Ø48-Ø125	5.1	5002-221
VKC-6	160mm(6")	65	95	45	93	75	5	4-M10	1500	Ø8-Ø80	Ø50-Ø160	8.3	5002-222
VKC-8	200mm(8")	80	112	56	107	80	6		1350	Ø10-Ø100	Ø63-Ø200	15.9	5002-223
VKC-10	250mm(10")	110	130	75	120	90		8	1100	Ø15-Ø130	Ø80-Ø250	21.8	5002-224
VKC-12B	320mm(12")	140	165	95	134	90	4-M16		850	Ø20-Ø176	Ø100-Ø315	41	5002-226
VKC-14	350mm(14")	130	168	110		550		Ø20-Ø206	Ø100-Ø350	53.6	5002-227		
VKC-16	400mm(16")	160	185	125	143	95	8	550	Ø25-Ø250	Ø118-Ø400	56	5002-228	
VKC-20	500mm(21")	200	236	160	161	106		4-M20	350	Ø35-Ø300	Ø125-Ø500	105	5002-229
VKC-25	630mm(25")	220	258	180	175	118	10		280	Ø50-Ø400	Ø160-Ø630	162	5002-230
VKC-32	800mm(32")	250	300	210	202	132	12	8-M20	200	Ø70-Ø540	Ø200-Ø800	265	5002-231
VKC-40	1000mm(40")	320	370	260	241	150	15	8-M20	150	Ø100-680	Ø250-1000	536	5002-232
VKC-50	1250mm(50")	400	500	305	256	165	15	8-M20	150	Ø170-900	Ø250-1250	905	5002-233

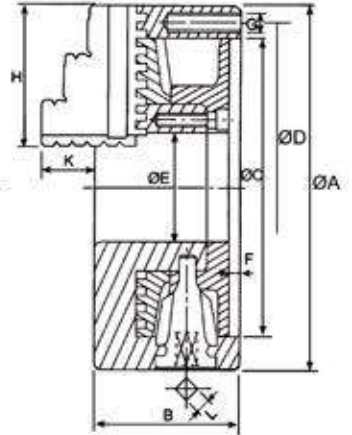
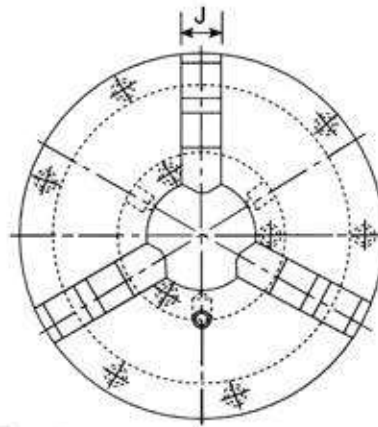


3-Jaw Scroll Chuck



JIS STANDARD Accuracy Type

سه نظام دستگاه تراش



- Interchangeable utilization of internal and external hard jaws.
- VSC types feature economical and durable, suitable for mass production.

- Gripping accuracy of 0.03mm (0.012inch) T.I.R..
- The body is made of MEEHANITE. It is suitably used for high speed revolution and 3 times more durable than regular chucks.

SPECIFICATIONS

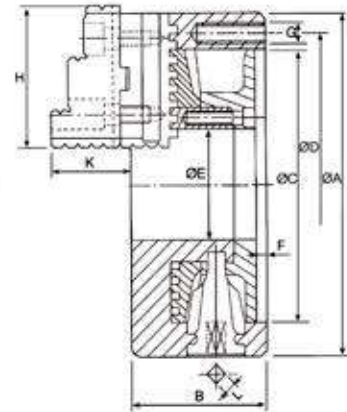
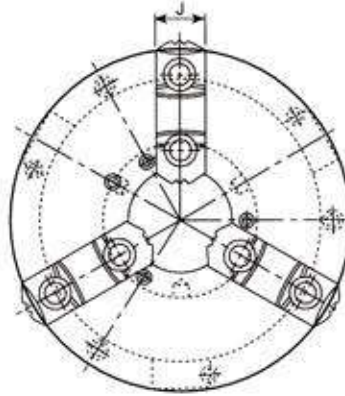
ORDER NO.	Dim												Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m)	Weight (kgs)	Max. Speed (r.p.m.)	Gripping Range		CODE NO.
	A	B	C	D	E	F	G	H	J	K	L	O.D. Range						I.D. Range		
VSC-3	85	46	60	73	16	4	3-M6	36	11	15	7	3.0	900	-	1.9	2500	Ø2-Ø70	Ø24-Ø64	5002-001	
VSC-4	112	59	80	95	24	4.5	3-M8	42	14	17	8	4.5	1200	-	3.9	2500	Ø3-Ø90	Ø32-Ø84	5002-002	
VSC-5	132	60	100	115	32	4.5	3-M8	50	16	20	8	6.5	1500	0.01	4.6	2500	Ø3-Ø110	Ø35-Ø100	5002-003	
VSC-6	165	67	130	147	45	5	3-M10	63	19	23	10	9.0	3300	0.03	7.6	2000	Ø4-Ø160	Ø48-Ø150	5002-004	
VSC-7	192	76.5	155	172	58	5	3-M10	77	21.5	28	11	11.0	3600	0.06	12	2000	Ø4-Ø180	Ø56-Ø170	5002-005	
VSC-8	200	76.5	160	176	58	5	3-M10	77	21.5	28	11	11.0	3600	0.07	13.3	2000	Ø4-Ø180	Ø56-Ø170	5002-006	
VSC-9	232	84	190	210	70	6	3-M12	87	24	34.5	12	15.0	3900	0.15	19.3	2000	Ø5-Ø220	Ø62-Ø210	5002-007	
VSC-10	273	87	230	250	87	8.5	3-M12	98	28	39	12	19.5	4800	0.25	26.2	1800	Ø6-Ø260	Ø70-Ø250	5002-008	
VSC-12	310	96	260	285	105	7	3-M12	110	30	45	14	21.0	5700	0.58	37.6	1800	Ø10-Ø300	Ø86-Ø290	5002-009	
VSC-14	355	112	300	328	127	7	6-M12	132	35	50	15	23.0	4500	-	57.2	1500	Ø12-Ø350	Ø96-Ø230	5002-009A	
VSC-16	405	122	345	375	160	8.5	3-M14	146	42	56	15	23.0	4500	1.75	80.7	1500	Ø14-Ø400	Ø100-Ø380	5002-010	



3-Jaw Powerful Scroll Chuck

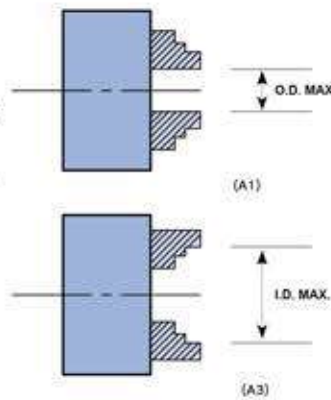


JIS STANDARD Accuracy Type



سه نظام فك آلى

- VSK types chucks have wider utilization range; hard jaws suitable for heavy cutting; optional soft jaws suitable for light and precision cutting.
- Hard jaws could be used as internal jaws and external jaws.
- Gripping accuracy of 0.03mm(0.012inch) T.I.R.
- The body is made of MEEHANITE. It is suitably used for high speed revolution and 3 times more durable than regular chucks.



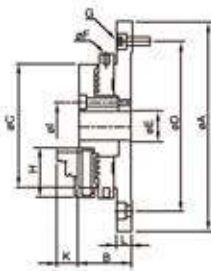
SPECIFICATIONS

Unit:mm

ORDER NO.	Gripping Range	
	External Gripping ØA1	Internal Gripping ØA3
VSK-4	3-36	69-100
VSK-5	3-47	84-123
VSK-6	8-74	107-160
VSK-7	8-88	125-180
VSK-8	8-88	125-180
VSK-9	11-118	144-220
VSK-10	12-142	152-260
VSK-12	15-166	184-300
VSK-14	25-202	212-350
VSK-16	30-238	228-400
VSK-20	25-366	207-480

SPECIFICATIONS VSK reversible type

ORDER NO.	Dim													Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m)	Weight (kgs)	Max. Speed (r.p.m.)	Gripping Range		CODE NO.
	A	B	C	D	E	F	G	H	J	K	L	O.D. Range	I.D. Range								
VSK-4	112	58	80	95	24	4.5	3-M8	47	19	31.5	8	4.5	1200	-	3.45	2500	Ø3-Ø100	Ø35-Ø93	5002-028		
VSK-5	132	60	100	115	32	4.5	3-M8	57	24	36	8	6.5	1500	-	5	2500	Ø3-Ø123	Ø43-Ø122	5002-029		
VSK-6	165	67	130	147	45	5	3-M10	72	26	39	10	9.0	3300	0.03	9.5	2000	Ø8-Ø160	Ø55-Ø150	5002-030		
VSK-7	192	76.5	155	172	58	5	3-M10	82	28	43	11	11.0	3600	0.06	12.8	2000	Ø8-Ø180	Ø62-Ø170	5002-031		
VSK-8	200	76.5	160	176	58	5	3-M10	82	28	43	11	11.0	3600	0.07	14.7	2000	Ø8-Ø180	Ø62-Ø170	5002-032		
VSK-9	232	84	190	210	70	5.5	3-M12	96	32	50	12	15.0	3900	0.16	20.4	2000	Ø11-Ø220	Ø70-Ø210	5002-033		
VSK-10	273	87	230	250	87	5.5	3-M12	100	35	54.5	12	19.5	4800	0.26	26.7	1800	Ø12-Ø260	Ø80-Ø250	5002-034		
VSK-12	310	96	260	285	105	7	3-M12	114	40	56	14	21.0	5700	0.58	39.3	1800	Ø15-Ø300	Ø90-Ø290	5002-035		
VSK-14	355	112	300	328	127	7	6-M12	139	45	70.5	15	23.0	4500	-	60.7	1500	Ø25-Ø350	Ø110-Ø320	5002-035A		
VSK-16	405	122	345	375	160	8	6-M14	150	50	75	15	23.0	4500	1.72	82.3	1500	Ø30-Ø400	Ø110-Ø380	5002-037		
VSK-20	500	140	420	458	205	5.5	6M-14	140	55	84	19	-	-	-	145.5	1000	Ø25-Ø480	Ø125-Ø460	5002-038		



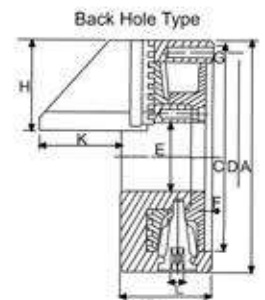
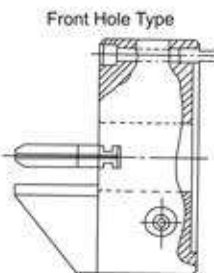
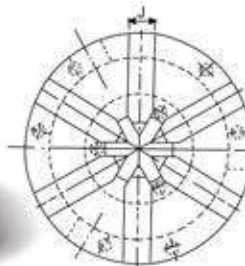
- Compact, Small And Light Weight
- No Wrench Required, Turn To Loose & Lock By Fixing Ring
- Steel Made Body
- Reversible Jaws
- VLBK-Series Is Latest Vertical Clamping Design For CNC, Milling Machine And Machining Center.

DIMENSIONS

ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	Gripping Range		Weight (kgs)	CODE NO.
													O.D. Range	I.D. Range		
VLBK-2	118	28	63	100	16	4	4-M5X0.8P	27	26	8	13	8	ø0.8~ø63	ø23~ø58	1.2	5002-130
VLBK-3	143	37	85	116	20	4	4-M6X1.0P	35	32	11	15	10.5	ø1~ø81	ø31~ø70	2.9	5002-131
VLBK-4	168	39	110	140	26	5	4-M6X1.0P	42	40	14	19	10	ø1~ø100	ø36~ø90	4.6	5002-132
VLBK-5	202	45	130	168	32	6	4-M8X1.25P	50	49	16	21	11.5	ø1.5~ø116	ø43~ø106	6.2	5002-133
VLBK-6	248	52	160	208	50	8	4-M10X1.5P	65	70	19	26	15	ø1.5~ø160	ø52~ø148	11	5002-134

6-Jaw Awl Type Chucks

شش نظام



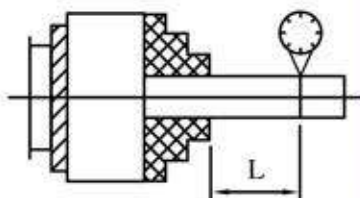
SPECIFICATIONS

Unit:mm

ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	Gross Weight (kgs)	Max. Speed (r.p.m.)	Max. Gripping Diameter	CODE NO.
														O.D. Clamping	
VAS-4	112	58	80	95	32	4.5	3-M8	45	14	46	8	4.2	1200	ø2-32	5005-011
VAS-6	167	65	130	147	60	5	3-M10	66	19	43	10	9.2	1200	ø3-60	5005-012

Quality standard For Lathe Chuck

Accuracy



ORDER NO.	VSC-3,4,5,6,7,8,9,10,12,14,16 VSK-4,5,6,7,8,9,10,12,14,16 VMJ-6,8,10,12,150,200,250,300 VNBK-6,8,10,12	VSC-3A,4A,5A,6A,7A,8A,9A,10A VSC-12A,16A,20A,25A VSK-6A,8A,10A,12A,13A,16A VPS-6A,8A,10A,12A,6AK,8AK VPS-10AK,12AK VSKC-6A,8A,10A,12A VSC-3D,4D,5D,6D,8D,10D VKC-4,5,6,8,10,12B,14,16,20,25 VKC-32,40,50
TEST ITEM	L	L
RADIAL RUNOUT	0.05 / 50 mm	0.10 / 50 mm



Machining Jaw Chuck



- Works are gripped firmly by the formed jaws, ensuring high precision. (Deviation: within 0.03mm)* Use forming rings (jaw locks) to form the soft-jaws.
- Large workpieces can be held tight with the low profile vise body.
- Able to grip square works by using this chuck as a two-way jaw unit * The fixed jaw(optional)is necessary. Longitudinal works can also be gripped by using the bore of this chuck.
- A dust cover is provided and this keeps the shavings from entering the machine.
- The handle is set on the face and does not interfere with the table. A number of chucks can be used together.

SPECIFICATIONS

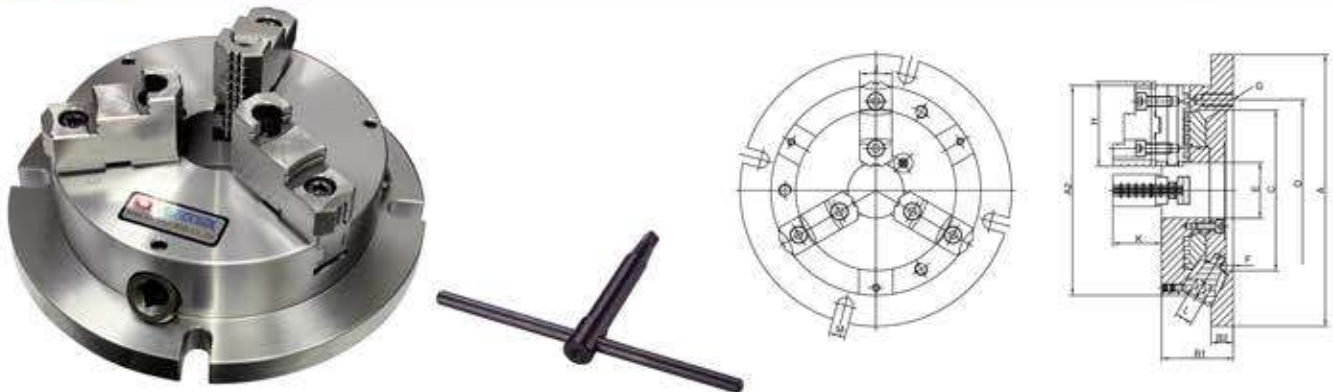
Unit:mm

ORDER NO.	A	B	C	D	E	G	H	I	J	K	L	M	N	MAX. GRIPPING DIAMETER		Gripping Force (kgf)	WEIGHT (kgs)	CODE NO.
														CLAMPING DIA	PROPING DIA			
VMJ-6	165	215	144	18	25	26	130	40	18	57	96	39	4-M10	Ø4-Ø128	Ø55-Ø128	900	13.5	5002-240
VMJ-8	200	250	174	18	25	28	160	55	20	65	108	43	4-M12	Ø5-Ø162	Ø62-Ø162	1620	21.5	5002-241
VMJ-10	250	310	218	18	30	32	200	70	22	72	122	50	4-M14	Ø6-Ø200	Ø72-Ø200	1800	36.1	5002-242
VMJ-12	310	380	274	22	35	40	260	100	25	85	141	56	4-M16	Ø10-Ø265	Ø90-Ø265	2250	62.8	5002-243



Super Thin Chucks

سه نظام تحت دستگاه فرز



- The angle between "HANDLE" AND "BASE OF CHUCK" is 30° degree, There Fore, it is much more convenient for "HANDLE" rotation.
- This "POWER SUPER THIN" design of chuck may increase the "allowable length" of machining operation.
- The flanged type design make it easily for loading and unloading operation. Four locate position 90°.
- "POWERFUL TYPE" design.

SPECIFICATIONS

Unit:mm

ORDER NO.	Dim														Gripping Force (kgf)	Weight (kgs)	Gripping Range		CODE NO.
	A1	A2	B1	B2	C	D	E	F	G	H	J	K	L	M			O.D. Range	I.D. Range	
VNBK-6	220	170	58	18	130	147	45	6	3-M10	68	26	40	10	13	1800	12.4	Ø8-160	Ø48-150	5002-070
VNBK-8	270	210	65	20	155	172	60	6	3-M10	82	28	43	11	13	2250	20.2	Ø11-200	Ø62-190	5002-071
VNBK-10	315	255	73	20	190	210	80	6	3-M12	93	32	52	12	16	3150	30.5	Ø12-250	Ø72-240	5002-072
VNBK-12	370	305	80	22	250	285	105	5	3-M12	118	40	59	14	18	3670	46.8	Ø15-300	Ø86-290	5002-073



Vertical Machining Chucks



NEW



● VSK REVERSIBLE TYPE

سه نظام تخت دستگاه فرز

VMJ-150, 200, 250, 300



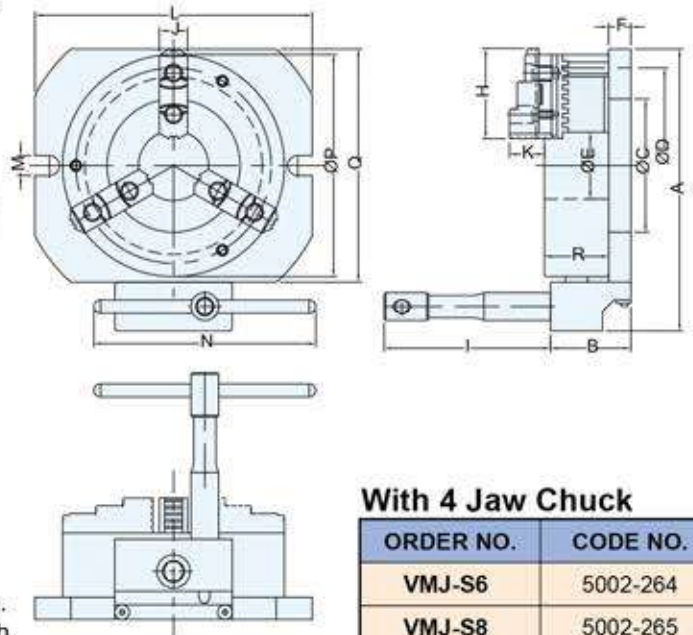
NEW TYPE 3 JAW CHUCK CHANGEABLE

NEW

VMJ-B150, B200, B250, B300



● VSC REVERSIBLE TYPE



- Convert 3/4 Jaws chuck into clamping chuck.
- Vertical cutting / locking.
- Large workpieces can be held tight with the low profile vise body.
- 3 Jaws can for round workpiece.
- 4 Jaws can for square workpiece & round workpiece.
- The handle is set on the face and does not interfere with the table. A number of chucks can be used together.
- Suit for MC center, Milling & Boring machine.
- Easy to exchange 3/4 Jaws chuck.

With 4 Jaw Chuck

ORDER NO.	CODE NO.
VMJ-S6	5002-264
VMJ-S8	5002-265
VMJ-S10	5002-266
VMJ-S12	5002-267

SPECIFICATIONS VSK TYPE

Unit:mm

ORDER NO.	A	B	C	D	E	F	H	I	J	K	L	M	N	P	Q	R	Gnpping Range		Weight (kgs)	CODE NO.
																	O.D Range	I.D Range		
VMJ-150	219	83	90	147	45	20	72	150	26	39	215	18	200	165	175	67	Ø8-Ø160	Ø55-Ø150	17.7	5002-260
VMJ-200	254	83	120	176	58	20	82	150	28	43	250	18	200	200	200	76.5	Ø8-Ø180	Ø62-Ø170	24.4	5002-261
VMJ-250	327	83	190	250	87	24	100	150	35	50	324	18	200	273	283	87	Ø12-Ø260	Ø80-Ø250	48.7	5002-262
VMJ-300	364	83	220	285	105	24	114	150	40	56	360	18	200	310	320	96	Ø15-Ø300	Ø90-Ø290	63.7	5002-263

SPECIFICATIONS VSC TYPE

Unit:mm

ORDER NO.	A	B	C	D	E	F	H	I	J	K	L	M	N	P	Q	R	Gnpping Range		Weight (kgs)	CODE NO.
																	O.D Range	I.D Range		
VMJ-B150	219	83	90	147	45	20	72	150	19	39	215	18	200	165	175	67	Ø3-Ø160	Ø48-Ø150	17.7	5002-275
VMJ-B200	254	83	120	176	58	20	82	150	21.5	43	250	18	200	200	200	76.5	Ø4-Ø180	Ø56-Ø170	24.9	5002-276
VMJ-B250	327	83	190	250	87	24	100	150	28	50	324	18	200	273	283	87	Ø6-Ø260	Ø70-Ø250	50	5002-277
VMJ-B300	364	83	220	285	105	24	114	150	30	56	360	18	200	310	320	96	Ø10-Ø300	Ø86-Ø290	66.5	5002-278



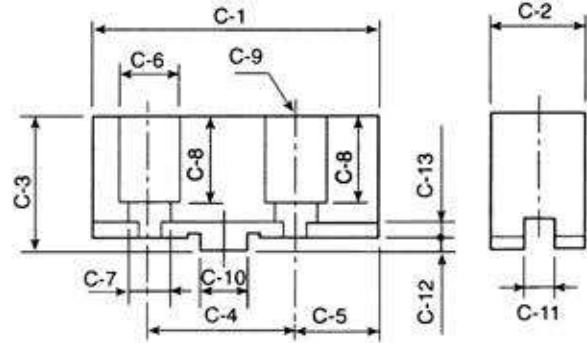
Soft Jaw For SK-Type Chuck

1. Soft jaw for SK-type chuck. 2. Manufactured in specification
Can for Japanese brand 3 jaw chuck KITAGAWA, HOWA, VICTOR

فک نرم سه نظام



3 PCS/SET



Unit:mm

Dim ORDER NO.	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	Weight (kgs)	CODE NO.
VSJ-4	52	19	30	24	14	11	7	21	M6	9.53	7.94	2.5	3	0.45	5002-298
VSJ-5	62	24	35	32	15	14	9	24	M8	12.68	7.94	3	3.5	0.9	5002-299
VSJ-6	75	26	38	38.1	18	14	8.5	27	M8	12.68	7.94	3	3.5	1.3	5002-300
VSJ-7	95	31	48	44.45	25	17	11	35	M10	12.68	7.94	3	3.5	3.4	5002-301
VSJ-8	95	31	48	44.45	25	17	11	35	M10	12.68	7.94	3	3.5	2.7	5002-302
VSJ-9	110	37	48	53.98	28	19	13	36	M12	19.03	12.7	3	3.5	3.7	5002-303
VSJ-10	110	37	48	53.98	28	19	13	36	M12	19.03	12.7	3	3.5	3.7	5002-304
VSJ-12	125	40	54	63.5	32	19	13	40.5	M12	19.03	12.7	3	3.5	5.3	5002-305
VSJ-16	160	50	70	76.2	42	25	17	48	M16	19.03	12.7	6	5.5	10.6	5002-306

THE SPECIAL OF HEIGHT (C-3) FOR VSJ-TYPE IS AVAILABLE

ORDER NO.	MODEL	HEIGHT	CODE NO.
VSJ-6-5	VSJ-6	50H	5002-3005
VSJ-6-6	VSJ-6	60H	5002-3006
VSJ-6-7	VSJ-6	70H	5002-3007
VSJ-6-8	VSJ-6	80H	5002-3008
VSJ-6-9	VSJ-6	90H	5002-3009
VSJ-8-5	VSJ-7 VSJ-8	50H	5002-3025
VSJ-8-6	VSJ-7 VSJ-8	60H	5002-3026
VSJ-8-7	VSJ-7 VSJ-8	70H	5002-3027
VSJ-8-8	VSJ-7 VSJ-8	80H	5002-3028
VSJ-8-9	VSJ-7 VSJ-8	90H	5002-3029
VSJ-9-5	VSJ-9	50H	5002-3035
VSJ-9-6	VSJ-9	60H	5002-3036
VSJ-9-7	VSJ-9	70H	5002-3037
VSJ-9-8	VSJ-9	80H	5002-3038
VSJ-9-9	VSJ-9	90H	5002-3039
VSJ-9-10	VSJ-9	100H	5002-30310
VSJ-9-12	VSJ-9	120H	5002-30312

ORDER NO.	MODEL	HEIGHT	CODE NO.
VSJ-10-5	VSJ-10	50H	5002-3045
VSJ-10-6	VSJ-10	60H	5002-3046
VSJ-10-7	VSJ-10	70H	5002-3047
VSJ-10-8	VSJ-10	80H	5002-3048
VSJ-10-9	VSJ-10	90H	5002-3049
VSJ-10-10	VSJ-10	100H	5002-30410
VSJ-10-12	VSJ-10	120H	5002-30412
VSJ-10-13	VSJ-10	130H	5002-30413
VSJ-12-6	VSJ-12	60H	5002-3056
VSJ-12-7	VSJ-12	70H	5002-3057
VSJ-12-8	VSJ-12	80H	5002-3058
VSJ-12-9	VSJ-12	90H	5002-3059
VSJ-12-10	VSJ-12	100H	5002-30510
VSJ-12-12	VSJ-12	120H	5002-30512
VSJ-12-13	VSJ-12	130H	5002-30513
VSJ-12-15	VSJ-12	150H	5002-30515
VSJ-16-10	VSJ-16	100H	5002-30610
VSJ-16-12	VSJ-16	120H	5002-30612



Soft Jaw For Hydraulic Power Chucks



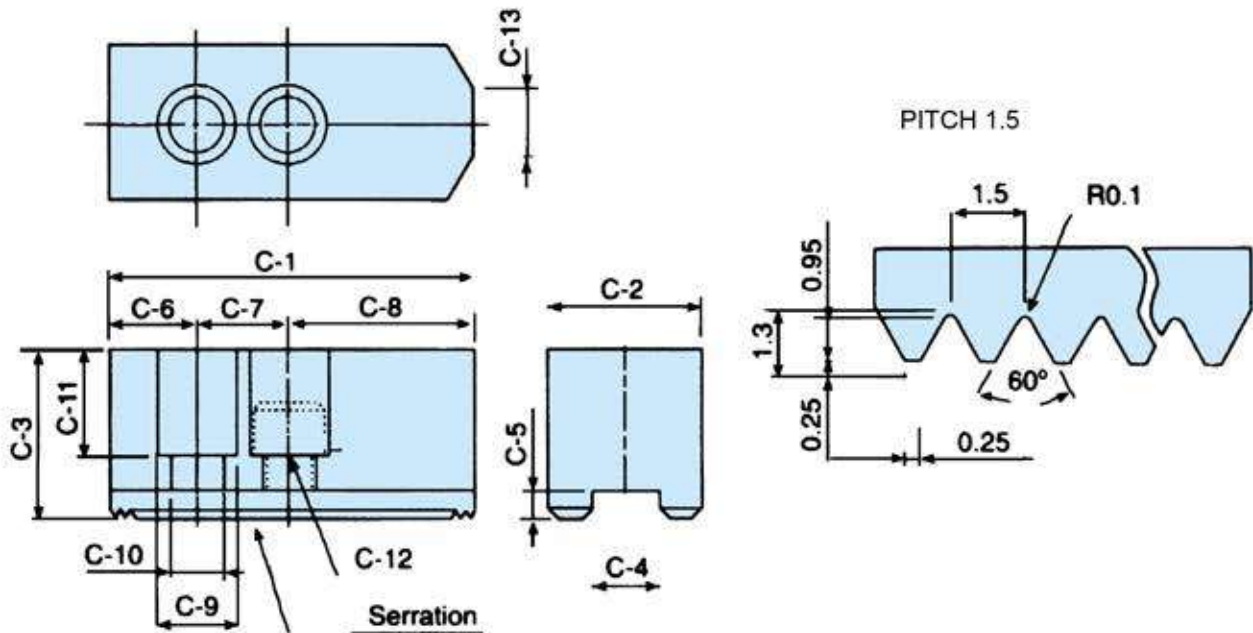
For Japanese brand JIS & KITAGAWA

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STANDARD
3 PCS/SET



ALUMINIUM



MATERIAL: STEEL

Unit:mm

Dim	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	Weight (kgs)	CODE NO.
VHC-05	62	25	30	10	5	9	14	39	13.5	9	21	M8	5	0.9	5002-330
VHC-06	73	31	36	12	5	15	20	38	17	11	23	M10	14	1.6	5002-331
VHC-08	95	35	37	14	5	24	25	46	19	13	22	M12	16	2.4	5002-332
VHC-10	110	40	42	16	5	30	30	50	19	13	27	M12	18	3.7	5002-333
VHC-12	130	50	50	21	5	39	30	61	25	17	30	M16	23	6.4	5002-334
VHC-15	165	62	62	22	8	37	43	85	32	21	38	M20	-	12.7	5002-335
VHC-12-1	130	50	50	18	5	39	30	61	23	15	30	M14	23	6.25	5002-336
VHC-15-1	165	62	62	25.5	5	37	43	85	32	21	38	M20	-	13	5002-337
VHC-24	180	64	70	25	9	40	60	80	32	21	45	M20	-	17	5002-338

MATERIAL : ALUMINIUM

Unit:mm

Dim	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	Weight (kgs)	CODE NO.
VHC-8A	95	35	37	14	5	24	25	46	19	13	22	M12	16	0.84	5002-250A
VHC-10A	110	40	42	16	5	30	30	50	19	13	27	M12	18	1.31	5002-251A



Soft Jaw For Hydraulic Power Chucks

For Japanese brand JIS & KITAGAWA

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THE SPECIAL OF HEIGHT (C-3) FOR VHC-TYPE IS AVAILABLE

ORDER NO.	MODEL	HEIGHT	CODE NO.
VHC-05-5	VHC-05	50H	5002-3305
VHC-05-6	VHC-05	60H	5002-3306
VHC-05-7	VHC-05	70H	5002-3307
VHC-05-8	VHC-05	80H	5002-3308
VHC-06-5	VHC-06	50H	5002-3315
VHC-06-6	VHC-06	60H	5002-3316
VHC-06-7	VHC-06	70H	5002-3317
VHC-06-8	VHC-06	80H	5002-3318
VHC-06-9	VHC-06	90H	5002-3319
VHC-06-10	VHC-06	100H	5002-3320
VHC-06-11	VHC-06	110H	5002-3321
VHC-06-12	VHC-06	120H	5002-3322
VHC-06-13	VHC-06	130H	5002-3323
VHC-06-15	VHC-06	150H	5002-3324
VHC-08-5	VHC-08	50H	5002-3325
VHC-08-6	VHC-08	60H	5002-3326
VHC-08-7	VHC-08	70H	5002-3327
VHC-08-8	VHC-08	80H	5002-3328
VHC-08-9	VHC-08	90H	5002-3329
VHC-08-10	VHC-08	100H	5002-3330
VHC-08-11	VHC-08	110H	5002-3331
VHC-08-12	VHC-08	120H	5002-3332
VHC-08-13	VHC-08	130H	5002-3333
VHC-08-14	VHC-08	140H	5002-3334
VHC-08-15	VHC-08	150H	5002-3334A
VHC-08-16	VHC-08	160H	5002-3334B
VHC-08-18	VHC-08	180H	5002-3334C
VHC-08-20	VHC-08	200H	5002-3334D
VHC-10-5	VHC-10	50H	5002-3335
VHC-10-6	VHC-10	60H	5002-3336
VHC-10-7	VHC-10	70H	5002-3337
VHC-10-8	VHC-10	80H	5002-3338
VHC-10-9	VHC-10	90H	5002-3339
VHC-10-10	VHC-10	100H	5002-33310
VHC-10-11	VHC-10	110H	5002-33311

ORDER NO.	MODEL	HEIGHT	CODE NO.
VHC-10-12	VHC-10	120H	5002-33312
VHC-10-13	VHC-10	130H	5002-33313
VHC-10-14	VHC-10	140H	5002-33314
VHC-10-15	VHC-10	150H	5002-33315
VHC-10-16	VHC-10	160H	5002-33316
VHC-10-18	VHC-10	180H	5002-33318
VHC-10-20	VHC-10	200H	5002-33320
VHC-10-22	VHC-10	220H	5002-33322
VHC-12-6A	VHC-12 18SLOT	60H	5002-3366
VHC-12-7A	VHC-12 18SLOT	70H	5002-3367
VHC-12-8A	VHC-12 18SLOT	80H	5002-3368
VHC-12-9A	VHC-12 18SLOT	90H	5002-3369
VHC-12-10A	VHC-12 18SLOT	100H	5002-33610
VHC-12-6	VHC-12 21SLOT	60H	5002-3346
VHC-12-8	VHC-12 21SLOT	80H	5002-3348
VHC-12-10	VHC-12 21SLOT	100H	5002-33410
VHC-12-11	VHC-12 21SLOT	110H	5002-33411
VHC-12-12	VHC-12 21SLOT	120H	5002-33412
VHC-12-13	VHC-12 21SLOT	130H	5002-33413
VHC-12-14	VHC-12 21SLOT	140H	5002-33414
VHC-12-15	VHC-12 21SLOT	150H	5002-33415
VHC-12-16	VHC-12 21SLOT	160H	5002-33416
VHC-12-17	VHC-12 21SLOT	170H	5002-33417
VHC-12-18	VHC-12 21SLOT	180H	5002-33418
VHC-12-19	VHC-12 21SLOT	190H	5002-33419
VHC-12-20	VHC-12 21SLOT	200H	5002-33420
VHC-15-7	VHC-15	70H	5002-3357
VHC-15-8	VHC-15	80H	5002-3358
VHC-15-9	VHC-15	90H	5002-3359
VHC-15-10	VHC-15	100H	5002-33510
VHC-15-12	VHC-15	120H	5002-33512
VHC-15-15	VHC-15	150H	5002-33515
VHC-15-18	VHC-15	180H	5002-33518
VHC-15-20	VHC-15	200H	5002-33520

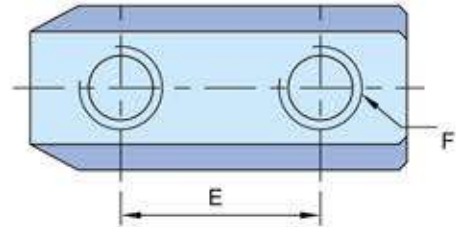
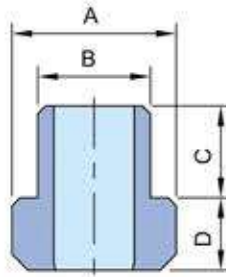


T Nut For Hydraulic Chuck



NEW

مهره آسه نظام هیدرولیک



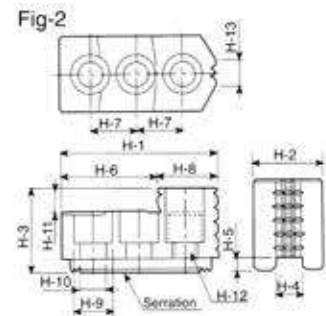
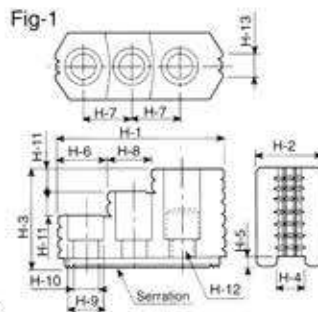
• For connect power chuck and soft jaws, suit for JAPANESE & TAIWANNES brands chuck.

For Kitagawa B-200 Series & Taiwannes Power Chuck

ORDER NO.	CHUCK SIZE	A	B	C	D	E	F	WEIGHT (kg)	CODE NO.
B-205T	5"	14	10	9.5	5	14	M8	0.1	5002-390
B-206T	6"	17.5	12	11	7.5	20	M10	0.1	5002-391
B-208T	8"	20.5	14	12	8.5	25	M12	0.2	5002-392
B-210T	10"	22.5	16	13	8.5	30	M12	0.3	5002-393
B-212T	12"	28	21	16.5	11.5	30	M16	0.6	5002-394



Hard Jaws For Hydraulic Power Chucks



DIMENSIONS

فک سخت سه نظام

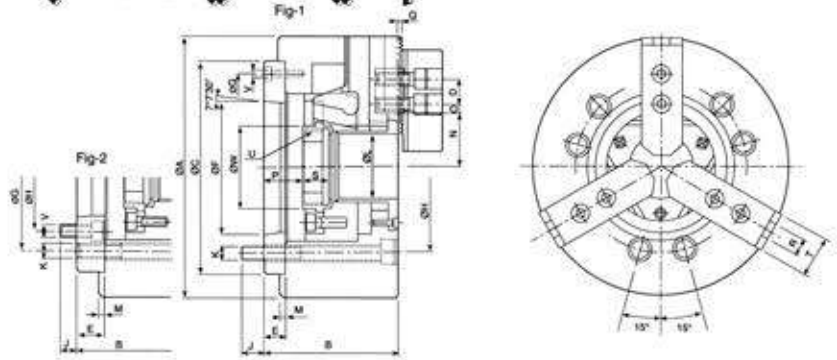
Unit:mm

ORDER NO.	Dim	H-1	H-2	H-3	H-4	H-5	H-6	H-7	H-8	H-9	H-10	H-11	H-12	H-13	Serration Pitch	Matching Chuck	3-Jaw Weight (kgs)	CODE NO.	
HJ05		53	23	27.5	10	4	30.5	14	22.5	13.5	8.5	10	M8	6	1.5x60°	Fig-2	N-205	0.4	5002-401
HJ06		67.5	31	35	12	5	39.5	20	27.5	17	11	12	M10	16	1.5x60°	Fig-2	N-206.V-206	1.0	5002-402
HJ08		86	35	51	14	5	31	25	18	19	13	12	M12	12	1.5x60°	Fig-1	N-208.V-208	1.9	5002-403
HJ10		99.5	40	54	16	5	43	30	17	19	13	13	M12	15	1.5x60°	Fig-1	N-210.V-210	2.9	5002-404
HJ12		103	50	52	21	4	62.5	30	40.5	25	17	17	M16	30	1.5x60°	Fig-2	N-212	2.65	5002-405
HJ12-1		103	50	52	18	5	62.5	30	40.5	22	15	17	M14	30	1.5x60°	Fig-2	V-212	2.7	5002-406
HJ15		149	62	86	22	8	63	43	34	32	21	20	M20	40	1.5x60°	Fig-1	N-215	9.6	5002-407
HJ15-1		149	62	86	25.5	5	63	43	34	32	21	20	M20	40	1.5x60°	Fig-1	V-215	9.5	5002-408



3-Jaw Wedge Type Through-hole Power Chuck (Without Adaptor)

سه نظام هیدرولیکی راه به در



- More large bore:
Having the largest bore in wedge type power operated chucks.
- 20% large bore:
Approximately 20% higher speed, higher gripping force and larger bore compared with usual chucks.
- Model N-200A chucks are assembled with adaptor for ASA B5.9 type A spindles.
- Model N-200A chucks are manufactured from high grade alloy steel, All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.

SPECIFICATIONS

Dim	ORDER NO.	N-205A4	N-206A5	N-208A5	N-208A6	N-210A6	N-210A8	N-212A8	N-215A8	N-215A11
Through-Hole (mm)		ø33	ø45	ø52	ø52	ø75	ø75	ø91	ø117.5	ø117.5
Plunger Stroke (mm)		10	12	16	16	19	19	23	23	23
Jaw Stroke (mm)		5.4	5.5	7.4	7.4	8.8	8.8	10.6	10.6	10.6
Max. Draw Bar Pull Force (kgf)		1700	2200	3400	3400	4300	4300	5500	7240	7240
Max. Gripping Force (kgf)		3600	5700	8800	8800	11000	11000	14300	18355	18355
Gripping Range		Ø10~135	Ø13~169	Ø13~210	Ø13~210	Ø30~254	Ø30~254	Ø35~304	Ø35~381	Ø35~381
Max. Operating Pressure (kgf/cm ²)		29.6	28.5	26.5	26.5	27.5	27.5	27.5	23.5	23.5
Max. Speed (r.p.m.)		7000	6000	4900	4900	4200	4200	3300	2500	2500
Weight (kgs)		6.9	14.2	25.8	24.05	40.9	37.4	63.2	134	127
Matching Cylinder		M1036	M1246	M1552	M1552	M1875	M1875	M2091	M2511	M2511
Matching Soft Jaw		VHC05	VHC06	VHC08	VHC08	VHC10	VHC10	VHC12	VHC15	VHC15
Matching Hard Jaw		HJ05	HJ06	HJ08	HJ08	HJ10	HJ10	HJ12	HJ15	HJ15
CODE NO.		5002-080	5002-081	5002-082	5002-083	5002-084	5002-085	5002-086	5002-087	5002-088

DIMENSIONS

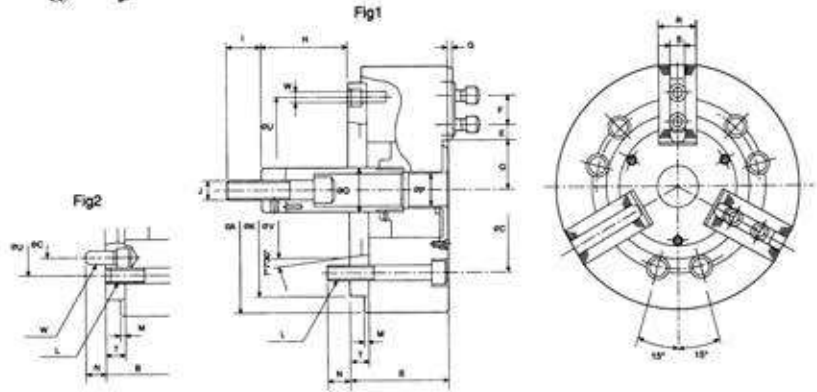
Dim	ORDER NO.	N-205A4	N-206A5	N-208A5	N-208A6	N-210A6	N-210A8	N-212A8	N-215A8	N-215A11
A		135	169	210	210	254	254	304	381	381
B		71	91	109	103	120	113	122	160	149
G		96	116	133.35	150	171.45	190	190	235	260
D		14	20	25	25	30	30	30	43	43
E		15	15	23	17	25	18	18	33	22
F		65.513	82.563	82.563	106.375	106.375	139.719	139.719	139.719	196.869
C		110	140	170	170	220	220	220	300	300
H		82.55	104.78	104.78	133.35	133.35	171.45	171.45	171.45	235
J		15.5	16	13	18	18	24	25	24	28
K		3xM10	6xM10	6xM12	6xM12	6xM16	6xM16	6xM16	6xM20	6xM20
L		33	45	52	52	75	75	91	117.5	117.5
M		4	5	5	5	5	5	6	6	6
N max.		26.5	32	38.7	38.7	51	51	61.3	82	82
N min.		23.8	29.25	35	35	46.6	46.6	56	76.7	76.7
O max.		19.75	22.75	29.75	29.75	33.75	33.75	45.75	46.75	46.75
O min.		7.75	9.25	14.75	14.75	14.25	14.25	15.75	13.75	13.75
P max.		16	26	37.5	31.5	33.5	26.5	26	40	29
P min.		6	14	21.5	15.5	14.5	7.5	3	17	6
Q		2	2	2	2	2	2	2	5	5
R		10	12	14	14	16	16	21	24	24
S		20	19	20.5	20.5	25	25	28	43	43
T		23	32	37	37	42	42	52	62	62
U max.		M40x1.5	M55x2.0	M60x2.0	M60x2.0	M85x2.0	M85x2.0	M100x2.0	M130x2.0	M130x2.0
V		3xM6	3xM6	6xM10	3xM6	6xM12	6xM8	6xM8	6xM16	3xM10
W		45	60	66	66	94	94	108	139	139
REFER FIG.		Fig-1	Fig-1	Fig-2	Fig-1	Fig-2	Fig-1	Fig-1	Fig-2	Fig-1



3-Jaw Wedge Type Non Through-hole Power Chuck (Without Adaptor)



سه نظام هیدرولیک



- Direct mounting: Direct mount for VA series chucks onto short taper spindle of ASA and JIS standards.
- High performance: Similar high performance to V series.
- Chuck mounting screws: Metric or UNC socket head cap screws are supplied for bolting the chuck to the spindle.
- Alternative spindle adaptors: ASA or DIN adaptors can be supplied to fit machine spindle.

SPECIFICATIONS

Unit:mm

Dim	ORDER NO.	V-206A5	V-208A6	V-210A6	V-210A8	V-212A8	V-215A8	V-215A11
Jaw Stroke (mm)		9.2	9.7	8.8	8.8	10.5	16	16
Plunger Stroke (mm)		20	21	25	25	30	35	35
Max. Pull Force (kgf)		1835	2549	2957	2957	4181	8362	8362
Max. Gripping Force (kgf)		5253	7548	10013	10013	15807	25391	25391
Max. Operating Pressure (kgf/cm ²)		25.5	24.5	28.6	28.6	27.5	30.6	30.6
Max. Speed (r.p.m.)		5000	4000	3500	3500	3000	2800	2800
Weight (kgs)		12.5	24.4	40.65	37.15	61.75	105	103
Moment of Inertia I (kgf.m ²)		0.045	0.317	0.3	0.3	0.725	1.8	1.8
Matching Cylinder		MS105 MH100	MS125 MH125	MS125 MH125	MS125 MH125	MS150 MH150	MS150 MH150	MS200 MH200
Matching Soft Jaw		VHC06	VHC08	VHC10	VHC10	VHC12-1	VHC15-1	VHC15-1
Matching Hard Jaw		HJ06	HJ08	HJ10	HJ10	HJ12-1	HJ15-1	HJ15-1
CODE NO.		5002-090	5002-091	5002-092	5002-093	5002-094	5002-095	5002-096

DIMENSIONS

Unit:mm

Dim	ORDER NO.	V-206A5	V-208A5	V-208A6	V-210A6	V-210A8	V-212A8	V-215A8	V-215A11
A		165	210	210	254	254	304	381	381
B		84	103	97	109	102	118	141	130
C		104.78	104.78	133.35	133.35	171.45	171.45	171.45	235
F		20	25	25	30	30	30	43	43
K		140	170	170	220	220	220	300	300
L		6-M10	6-M12	6-M12	6-M16	6-M16	6-M16	6-M16	6-M20
M		5	5	5	5	5	6	6	6
N		14	13	18	18	25	25	24	32
P		21	21	25	34	34	34	-	-
T		15	23	17	25	18	18	33	22
V		82.563	82.563	106.375	106.375	139.719	139.719	139.719	196.869
U		116	133.35	150	171.45	190	190	235	260
E max.		15.25	22.25	22.25	30.75	30.75	48.75	50.25	50.25
E min.		9.25	11.75	11.75	11.25	11.25	12.75	23.25	23.25
G		4	5	5	5	5	5	2	2
H max.		89.6	109	115	133	140	145	71	82
H min.		69.6	88	94	108	115	115	36	47
I		36	36	36	36	36	36	55	55
J		M16x2.0	M20x2.5	M20x2.5	M20x2.5	M20x2.5	M20x2.5	M30x3.5	M30x3.5
O		34	38	38	45	45	50	60	60
Q max.		38.7	46.75	46.3	51.1	51.1	61	77.5	77.5
Q min.		34.1	41.9	41.9	46.7	46.7	55.75	69.5	69.5
R		31	35	35	40	40	50	50	50
S		12	14	14	16	16	18	25.5	25.5
W		3-M6	6-M10	3-M6	6-M12	6-M8	6-M8	6-M16	3-M10
REFER FIG.		Fig-1	Fig-2	Fig-1	Fig-2	Fig-1	Fig-1	Fig-2	Fig-1

کلت هیدرولیک

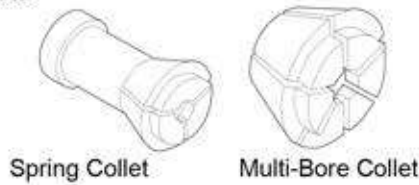
NEW



Lathe Collets
Please See E25

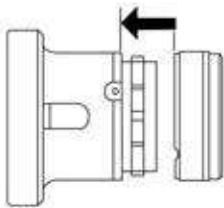
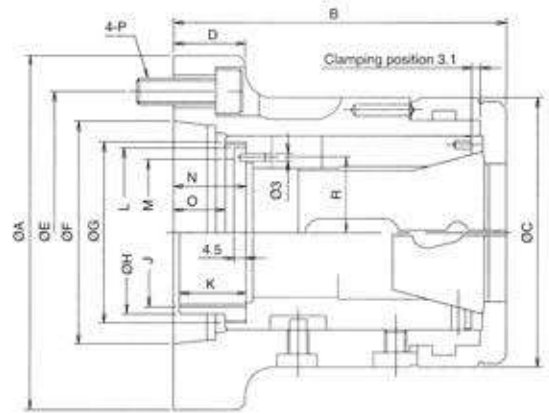
Please use
DIN6343 collets

collet illustration

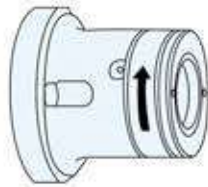


Spring Collet

Multi-Bore Collet



Push the cover



Turn the cover



Tighten the cover anti rotation screws

Holding Range

CHUCK	MULTIBORE			SPRING COLLET		
	NO.	CAT NO.	○ □	CAT NO.	○ □	□
CR42	M-673	42	36 30	173E/4728	42	36 30
CR60	M-677	60	52 42	185E/4291	60	52 42

DIMENSIONS

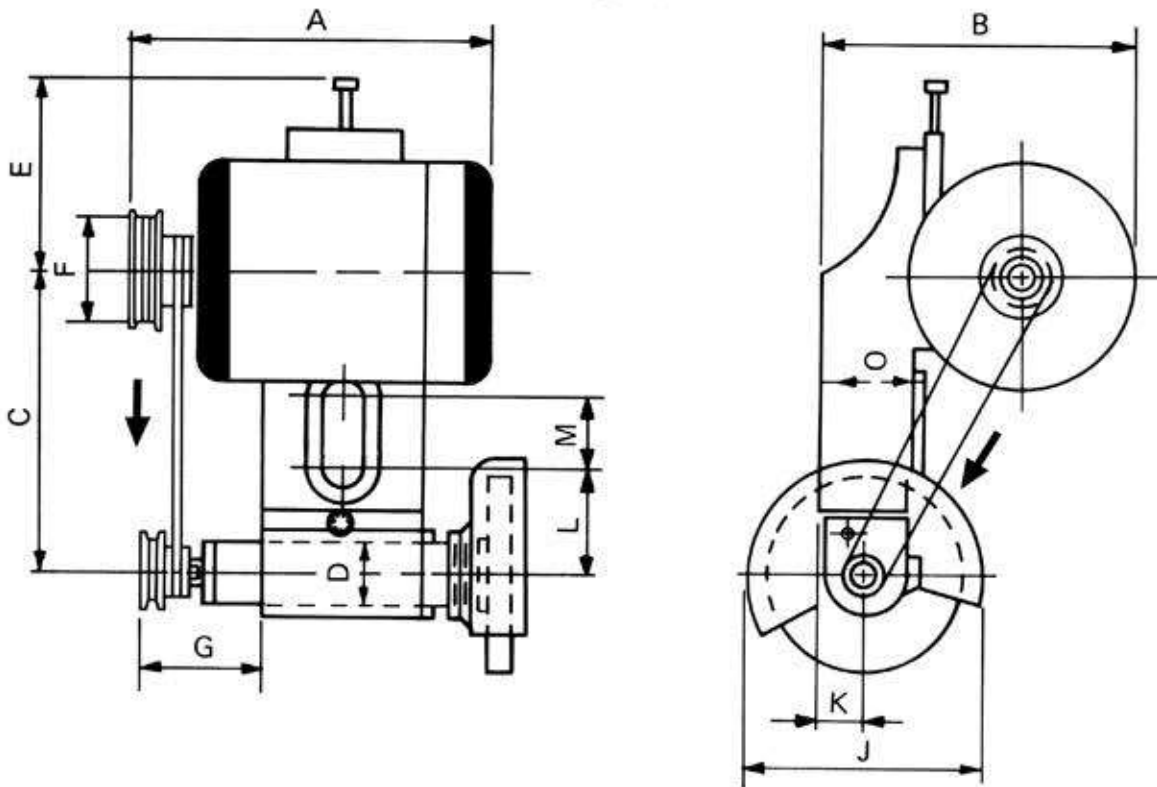
ORDER NO.	A	B	C	D	E	F	G	H	J Max.	K	L	M	N	O	P	R
CR42A5	135	124	100	27	104.78	82.563	M66xP1.5	60	M55xP20	25	62.5	54	27.4	19.4	M10	28
CR42A6	170	124	100	32	133.35	106.375	M66xP1.5	66	M60xP20	25	62.5	54	27.4	19.4	M12	28
CR60A6	170	145	130	27	133.35	106.375	M90xP1.5	67.5	M60xP20	30	83	77	29.9	21.9	M12	39.5

SPECIFICATIONS

ORDER NO.	Diameter of Shank	Material Diameter (mm)	Collet Travel Distance (mm)	Weight (kgs)	Maximum Bearing KN (kgf)	Maximum Holding Power KN (kgf)	Maximum Speed (r.p.m.)	CODE NO.
CR42A5	A2-5	42	7	6.2	25(2549)	55(5608)	6,000	5003-040
CR42A6	A2-6	42	7	8.2	25(2549)	55(5608)	6,000	5003-041
CR60A6	A2-6	60	7	13	33(3365)	59(6016)	5,000	5003-042



سنگ دستگاه تراش



- ※ CLOCR MAY VARY
- ※ NOT FOR HIGH PRECISION GRINDING

ORDER NO.	Main Dimension. (mm)												Net Weight (kgs)	Packing Size (mm)
	A	B	C	D	E	F	G	J	K	L	M	O		
VGR-165	280	275	260-310	50	160	110	65	230	40-65	105	40	85	48	520x430x350
VGR-150	280	275	250-300	48	160	110	65	150	40-65	105	40	85	38	520x430x350
VGR-125	270	230	230-280	48	-	110	65	150	34-58	90	15	75	35	520x430x350
VGR-100	235	200	170	40	-	110	50	150	28	45	10	64	24	450x320x340

ORDER NO.	HP	External Spindle		Internal Spindle				Grinder on Lathe (Length of Bed of Lathe) Ft.	For Swing m/m	CODE NO.		
		Size of Wheel dia x width-hole	(R.P.M.) Non-load Speed	Diameter to be ground	Size of Wheel dia x width x hole	(R.P.M.) Non-load Speed	Grinding Depth (mm)					
VGR-165	1	8"x3/4"x3/4"	3000 3700	2490 3070	25-50	1"x3/8"x1/4"	20000 13500	16800 11500	70	8-10	650-1600	5004-003
VGR-150	1	5"x5/8"x5/8"	4500 6000	3750 5000	19-40	1"x3/8"x1/4"	20000 13500	16800 11500	70	6-8	550-900	5004-004
VGR-125	1/2	5"x5/8"x5/8"	4500 6000	3750 5000	19-40	1"x3/8"x1/4"	20000 13500	16800 11500	70	4-6	430-850	5004-005
VGR-100	1/4	5"x5/8"x5/8"	4500 6000	3750 5000	19-40	1"x3/8"x1/4"	20000 13500	16800 11500	50	under 4	320-400	5004-006



VDI Tool Holders

Coupling Type System



DIN69880

A DIN 1809 (For DUPLOMATIC)



Coupling to DIN 1809

B DIN 5480 (For SAUTER/DUPLOMATIC)



Coupling to DIN 5480

C DIN 5482 (For SAUTER/DUPLOMATIC)



Coupling to DIN 5482

D MT (For BARUFFALDI)



Spur Coupling

E IT (For DUPLOMATIC)



Spur Coupling

ابزار گیر تراش CNC



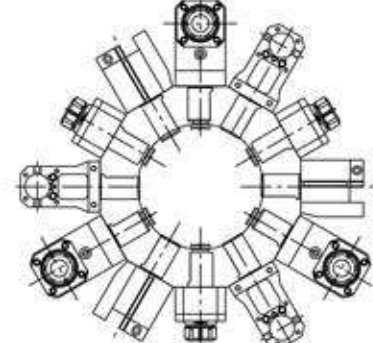
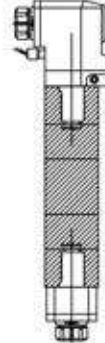
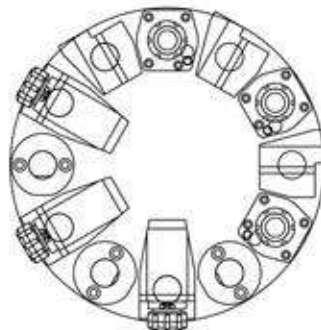
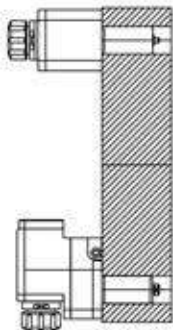
VDI Tool Holders

Tool Holders Direction System

DIN69880

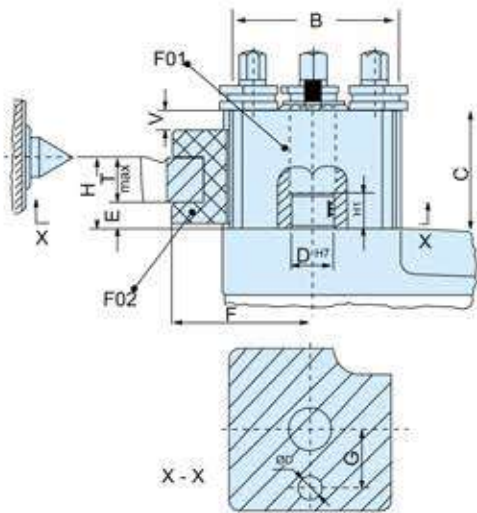
A: Axial Direction

B: Radial Direction (Star Turret)



NEW

ابزار گیر تراش




Italian Style

- The main block is assembled with cast-hardened steel, secured rigidly by the latch carriage machine steel bolt.
- The main block has 4 slide openings for inserting the proper tool-holder; these can be securely fastened by a simple and safe eccentric device, which also adjusts the height for each tool holder.
- The tool shank is securely held by 4 hardened screws. The simplicity and fast tool changing increase the production of lathe turning.
- No chatter or vibrations.
- This style is interchangeable with Rapidue and STM.

Complete set includes:

- 1 pieces Tool post
- 3 pieces of turning holders
- 1 piece of Round shanks
- Standard spanners

MAIN BODY DIMENSIONS

ORDER NO.	Lathe swing	B	D ^{H7}	H		C	E	T _{max}	F	V _{max}	Ø _{max}	Morse NO.	ØD	G	H1	
				Min	Max											
VTP-M	180-250	57.7	18	24	34	45	8	16	56	10	14	1	7	27	18	70
VTP-AR-AP	250-300	64.5	18	25	41	56	9	16	63	16	16	1	8	30	16	80
VTP-A	250-350	82.0	24	32	42	60	12	20	75	10	18	2	10	35	20	100
VTP-BR-BP	300-380	91.6	28	38	53	75	13	25	90	17	20	3	10	40	20	115
VTP-B	350-500	100.0	30	47	65	85	15	32	100	15	24	3	12	48.2	25	127
VTP-C	500-650	115.3	38	51	72	94	19	32	108	24	26	4	14	58.2	26	145

SET TYPE

ORDER NO.	5-PIECE SETS EACH SET INCLUDES	G.W. kgs	CODE NO.
VTP-M	1 x F01-M, 3 x F02-M AND 1 x F03-M	3.1	5006-890
VTP-AR-AP	1 x F01-AR-AP, 3 x F02-AR-AP AND 1 x F03-AR-AP	4.5	5006-891
VTP-A	1 x F01-A, 3 x F02-A AND 1 x F03-A	9.3	5006-892
VTP-BR-BP	1 x F01-BR-BP, 3 x F02-BR-BP AND 1 x F03-BR-BP	13.2	5006-893
VTP-B	1 x F01-B, 3 x F02-B AND 1 x F03-B	17.5	5006-894
VTP-C	1 x F01-C, 3 x F02-C AND 1 x F03-C	23.0	5006-895

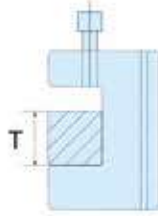


ابزار گیر تراش

Tool Post



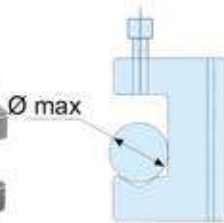
ORDER NO.	Centre Height (mm)	Lathe Swing (mm)	CODE NO.
VTP-F01-M	120	240	5006-900
VTP-F01-AR-AP	140	280	5006-901
VTP-F01-A	170	340	5006-902
VTP-F01-BR-BP	200	400	5006-903
VTP-F01-B	230	460	5006-904
VTP-F01-C	280	560	5006-905



● Turning Holders

Turning Holder

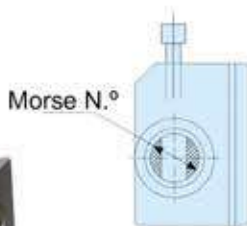
ORDER NO.	Centre Height (mm)	Max. Square & Rectangular Tool (mm)	CODE NO.
VTP-F02-M	120	16	5006-906
VTP-F02-AR-AP	140	16	5006-907
VTP-F02-A	170	20	5006-908
VTP-F02-BR-BP	200	25	5006-909
VTP-F02-B	230	32	5006-910
VTP-F02-C	280	32	5006-911



● Round Shanks

Round Shanks

ORDER NO.	Centre Height (mm)	Max. Holding Dia (mm)	CODE NO.
VTP-F03-M	120	14	5006-912
VTP-F03-AR-AP	140	16	5006-913
VTP-F03-A	170	18	5006-914
VTP-F03-BR-BP	200	20	5006-915
VTP-F03-B	230	24	5006-916
VTP-F03-C	280	26	5006-917



● Morse Holder

Morse Holder

ORDER NO.	Centre Height (mm)	Morse Taper Hole	CODE NO.
VTP-F04-M	120	MT No. 1	5006-918
VTP-F04-AR-AP	140	MT No. 2	5006-919
VTP-F04-A	170	MT No. 2	5006-920
VTP-F04-BR-BP	200	MT No. 3	5006-921
VTP-F04-B	230	MT No. 3	5006-922
VTP-F04-C	280	MT No. 4	5006-923

Quick Change Tool Post & Holders-40

Positioning European Style

ابزار گیر تراش



European Style

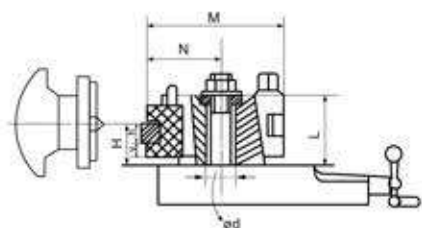
Tool post and tool holders are precisely grounded with 40 tool-bit positions. Easy to operate and can be fitted with many different tool-holders. Locking and loosening of any tool-holders are performed by a simple eccentric clamping. The simplicity and fast tool changing increases the lathe turning production. A height adjustment for tool bits is controlled by a knurled head-screw, without the need for packing plates or shims. This style is interchangeable with Hasse.

Complete set includes:

- 1 Pieces Tool post
- 3 pieces Turning & Facing Holder-"D"
- 1 piece Boring Bar Holder-"B"

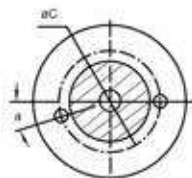
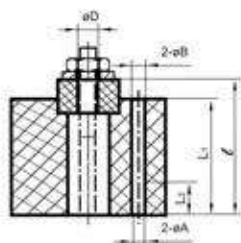
ORDER NO.	5-PIECE SETS EACH SET INCLUDES (5 pcs/set)	G.W. kgs	CODE NO.
VTP-V-A0	1 x tool post F40-0(A0), 2 x F40-010(A0D12x50) and 1 x F40-020(A0B12x50) and 1 x F40-040(A0A2.7x10x50)	1.5	5006-955A
VTP-V-A1	1 x tool post F40-1(A1), 2 x F40-111(A1D16x75) and 1 x F40-140(A1A2.7x10x75) and 1 x F40-121(A1B16x80)	4.0	5006-956A
VTP-V-E5	1 x tool post F40-2(B5), 2 x F40-211(E5D20x100) and 1 x F40-220(E5B30x100) and 1 x F40-240(E5A2.7x10x100)	8.0	5006-957A
VTP-B2	1 x tool post F40-3(B2), 3 x F40-311(B2D25x120) and 1 x F40-320(B2B32x130)	12.3	5006-958
VTP-C3	1 x tool post F40-4(C3), 3 x F40-411(C3D32x150) and 1 x F40-422(C3B40x160)	24.3	5006-959

Set Style For Lathe



ORDER NO.	VTP-F40-0	VTP-F40-1	VTP-F40-2	VTP-F40-3	VTP-F40-4
	D12	D16 D20	D20 D25	D25 D32	D32 D40 D45
Driving Power (kw)	1.2	2	4.5	7	13
Lathe Swing (mm)	120-220	150-300	200-400	300-500	400-700
H min. (mm)	18.5	25.5 29.5	32 37	38 46	47.5 55.5 61
H max. (mm)	26.5	36.5 40.5	49 52	58 57	87.5 91.5 91
y (mm)	6.5	9.5	12	13 14	15.5 15.5 16
h (mm)	12	16 20	20 25	25 32	32 40 45
M (mm)	6.8	104	132	150	192 201 202
L (mm)	37	55	68	76	107
N (mm)	34	52	66	73	93 102 103
ød (mm)	13	20	20	32	40

40 Position Tool Post Body



ORDER NO.	ØD	L2	L1	∠	ØA	ØB	ØC	α
VTP-F40-0	6	-	30	37	-	-	-	-
VTP-F40-1	10	12	45	55.3	5.6	6.8	42	18°
VTP-F40-2	10	14	57	67.3	5.6	6.8	49	15°
VTP-F40-3	14	20	65	75	6.9	9	64	30°
VTP-F40-4	24.5	10	95	107	9.5	11	88	18°

40 Position Tool Post



ORDER NO.	Lathe swing (mm)	For Style NO.	Height of cutting edge range (mm)	CODE NO.
VTP-F40-0	120-220	VTP-A0	D12/18.5~26.5	5006-930
VTP-F40-1	150-300	VTP-A1	D16/25.5~36.5 or D20/29.5~40.5	5006-931
VTP-F40-2	200-400	VTP-E5	D20/32~49 or D25/37~52	5006-932
VTP-F40-3	300-500	VTP-B2	D25/38~58 or D32/46~57	5006-933
VTP-F40-4	400-700	VTP-C3	D32/47.5~87.5 or D40/55.5~91.5 or D45/61~91	5006-934



Quick Change Tool Post & Holders-40 VERTEX®

Positioning European Style

ابزار گیر تراش

NEW

Turning & Facing Holder



ORDER NO.	Series NO.	Max. Height (mm)	Max. Length (mm)	CODE NO.
VTP-F40-010	A0D	12	50	5006-935
VTP-F40-111	A1D	16	75	5006-936
VTP-F40-112	A1D	16	80	5006-937
VTP-F40-113	A1D	16	90	5006-938
VTP-F40-114	A1D	20	75	5006-939
VTP-F40-110	A1D	20	80	5006-940
VTP-F40-115	A1D	20	90	5006-941
VTP-F40-211	E5D	20	100	5006-942
VTP-F40-212	E5D	25	100	5006-943
VTP-F40-311	B2D	25	120	5006-944
VTP-F40-312	B2D	25	140	5006-945
VTP-F40-313	B2D	32	120	5006-946
VTP-F40-314	B2D	32	140	5006-947
VTP-F40-411	C3D	32	150	5006-948
VTP-F40-412	C3D	32	170	5006-949
VTP-F40-413	C3D	40	150	5006-950
VTP-F40-414	C3D	40	170	5006-951
VTP-F40-415	C3D	45	170	5006-952



Boring Bar Holder

ORDER NO.	Series NO.	Max. Dia (mm)	Length (mm)	CODE NO.
VTP-F40-020	A0B	12	50	5006-960
VTP-F40-121	A1B	16	80	5006-961
VTP-F40-120	A1B	18	80	5006-962
VTP-F40-122	A1B	20	90	5006-963
VTP-F40-220	E5B	30	100	5006-964
VTP-F40-320	B2B	32	130	5006-965
VTP-F40-421	C3B	32	160	5006-966
VTP-F40-422	C3B	40	160	5006-967



Drilling & Boring Bar Holder

ORDER NO.	Series NO.	Max. Dia (mm)	Length (mm)	CODE NO.
VTP-F40-030	A0S	15	50	5006-968
VTP-F40-130	A1S	30	80	5006-969
VTP-F40-131	A1S	20	90	5006-970
VTP-F40-231	E5S	30	100	5006-971
VTP-F40-232	E5S	40	100	5006-972
VTP-F40-330	B2S	40	120	5006-973
VTP-F40-431	C3S	40	150	5006-974
VTP-F40-432	C3S	50	150	5006-975



Cut-Off Tool Holder

ORDER NO.	Series NO.	Blade- TxW	Length (mm)	CODE NO.
VTP-F40-040	A0A	2.7 x 10	50	5006-976
VTP-F40-140	A1A	2.7 x 10	75	5006-977
VTP-F40-240	E5A	2.7 x 10	100	5006-978
VTP-F40-340	B2A	4 x 16	120	5006-979
VTP-F40-440	C3A	5 x 18.5	150	5006-980



Morse Taper Bushing

ORDER NO.	Series NO.	Diameter (mm)	Length (mm)	Morse Taper	CODE NO.
VTP-F40-151	A1L	30	80	NO.1	5006-981
VTP-F40-152	A1L	30	90	NO.2	5006-982
VTP-F40-251	E5L	30	96	NO.2	5006-983
VTP-F40-252	E5L	40	114	NO.3	5006-984
VTP-F40-350	E5L	40	120	NO.2	5006-985
VTP-F40-351	E5L	40	120	NO.3	5006-986
VTP-F40-451	C3L	40	140	NO.3	5006-987
VTP-F40-452	C3L	40	150	NO.4	5006-988
VTP-F40-453	C3L	50	150	NO.4	5006-989

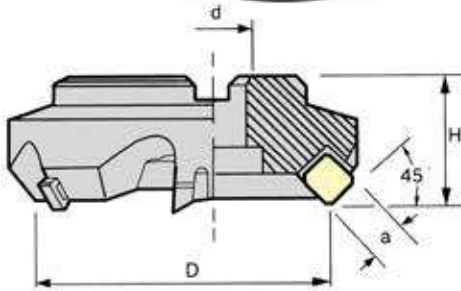


Face Milling Cutter 45°



کفتراش

45°



※All inserts are floating price.
Contact us before ordering from F1-F49

ORDER NO.	D	dØ	INCH METRIC	H	BLADE	WEIGHT(kg)	CODE NO.
SE545-3	80	25.4		50	5	2.1	6001-001I
		27					6001-001M
SE545-4	100	31.75		55	5	3.5	6001-002I
		32					6001-002M
SE545-5	125	38.1		60	6	5.1	6001-003I
		40					6001-003M
SE545-6	160	50.8		60	8	7.1	6001-004I
		40					6001-004M
SE545-8	200	47.625		60	10	10.4	6001-005I
		60					6001-005M
SE545-10	250	47.625		60	12	16.8	6001-006I
		60					6001-006M
SE545-12	300	47.625		60	14	27	6001-007I
		60					6001-007M
SE445-3	80	25.4		50	5	2.1	6001-020I
		27					6001-020M
SE445-4	100	31.75		55	5	3.2	6001-021I
		32					6001-021M
SE445-5	125	38.1		60	6	4.7	6001-022I
		40					6001-022M
SE445-6	160	50.8		60	8	7.3	6001-023I
		40					6001-023M
SE445-8	200	47.625		60	10	9.6	6001-024I
		60					6001-024M
SE445-10	250	47.625		60	12	16.7	6001-025I
		60					6001-025M
SE445-12	300	47.625		60	14	25.8	6001-026I
		60					6001-026M

PARTS

SCR-CL5/16	CL-S	SCR-ST-S4	ST-S	WRN-M4T

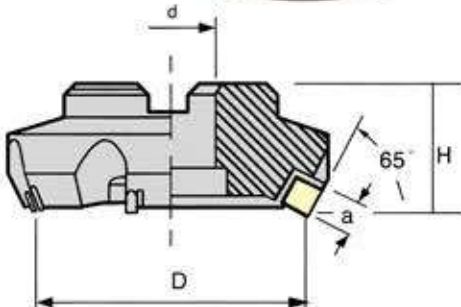
INSERT

545 HEAVY DUTY		445 LIGHT DUTY	
SEKN-1504		SEKN-1203	



Face Milling Cutter 65°

65°



ORDER NO.	D	dØ	INCH METRIC	H	BLADE	WEIGHT(kg)	CODE NO.
SP535-3	80	25.4		50	5	2.1	6001-040I
		27					6001-040M
SP535-4	100	31.75		55	5	3.3	6001-041I
		32					6001-041M
SP535-5	125	38.1		60	6	5.6	6001-042I
		40					6001-042M
SP535-6	160	50.8		60	8	7.4	6001-043I
		40					6001-043M
SP535-8	200	47.625		60	10	10.2	6001-044I
		60					6001-044M
SP535-10	250	47.625		60	12	17.5	6001-045I
		60					6001-045M
SP535-12	300	47.625		60	14	27	6001-046I
		60					6001-046M
SP435-3	80	25.4		50	5	2.1	6001-070I
		27					6001-070M
SP435-4	100	31.75		55	5	3.3	6001-071I
		32					6001-071M
SP435-5	125	38.1		60	6	5.5	6001-072I
		40					6001-072M
SP435-6	160	50.8		60	8	7.8	6001-073I
		40					6001-073M
SP435-8	200	47.625		60	10	10.1	6001-074I
		60					6001-074M
SP435-10	250	47.625		60	12	17.5	6001-075I
		60					6001-075M
SP435-12	300	47.625		60	14	26.8	6001-076I
		60					6001-076M

PARTS

SCR-CL5/16	CL-S	SCR-ST-S4	ST-S	WRN-M4T

INSERT

535 HEAVY DUTY		435 LIGHT DUTY	
SPKN-1504		SPKN-1204	



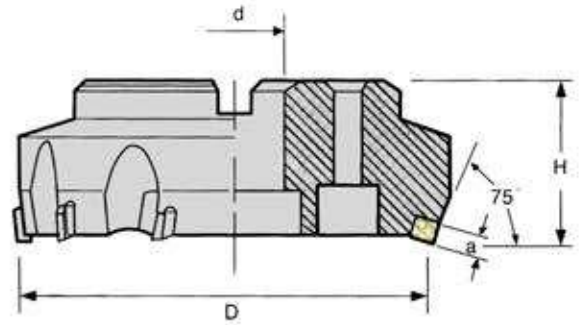
Face Milling Cutter 75°



75°



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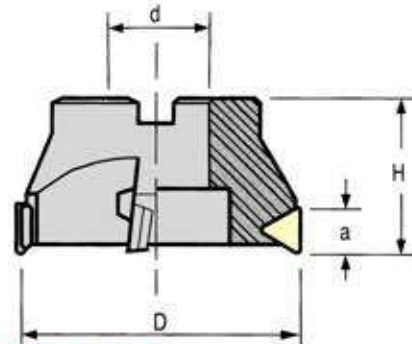


ORDER NO.	D	d	INCH METRIC	H	BLADE	WEIGHT(kg)	CODE NO.
FP-3	80	25.4	27	50	5	2	6001-090I
							6001-090M
FP-4	100	31.75	32	55	6	3.1	6001-091I
							6001-091M
FP-5	125	38.1	40	60	8	5.3	6001-092I
							6001-092M
FP-6	160	50.8	40	60	10	6.5	6001-093I
							6001-093M
FP-8	200	47.625	60	60	12	9.6	6001-094I
							6001-094M
FP-10	250	47.625	60	60	16	17.1	6001-095I
							6001-095M
FP-12	300	47.625	60	60	20	29.3	6001-096I
							6001-096M

INSERT	PARTS				
SPUN-120308 SPKN-120 3 1203EDR					
	SCR-CL5/16	CL-S	SCR-ST-S4	ST-S	WRN-M4T

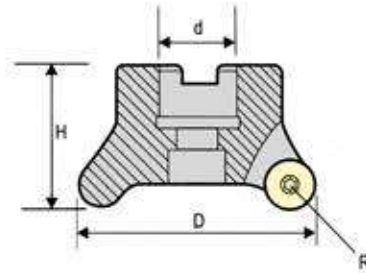
Face Milling Cutter 90°

90°



*All inserts are floating price.
Contact us before ordering from F1-F49

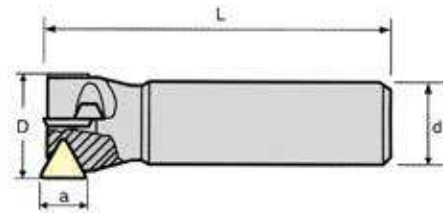
ORDER NO.	D	d	INCH METRIC	H	a	BLADE	WEIGHT(kg)	INSERT					CODE NO.	
TP-63	63	25.4	27	50	22	3	0.7	TPMN 2204	ST-T	SCR-W5/16	WRN-M5T	SCR-ST-T4	6001-110I	
													6001-110M	
TP-80	80	25.4	27	50	22	4	1.1		TPKN 2204PPR	ST-T	SCR-W5/16	WRN-M5T	SCR-ST-T4	6001-111I
														6001-111M
TP-100	100	31.75	32	55	22	5	1.9		TPMN 2204	ST-T	SCR-W5/16	WRN-M5T	SCR-ST-T4	6001-112I
														6001-112M
TP-125	125	38.1	40	60	22	6	3		TPKN 2204PPR	ST-T	SCR-W5/16	WRN-M5T	SCR-ST-T4	6001-113I
														6001-113M
TP-160	160	50.8	40	60	22	7	4.9		TPMN 2204	ST-T	SCR-W5/16	WRN-M5T	SCR-ST-T4	6001-114I
														6001-114M
TP-200	200	47.625	60	60	22	8	8.1		TPKN 2204PPR	ST-T	SCR-W5/16	WRN-M5T	SCR-ST-T4	6001-115I
														6001-115M
TP-250	250	47.625	60	60	22	9	15.9		TPMN 2204	ST-T	SCR-W5/16	WRN-M5T	SCR-ST-T4	6001-116I
														6001-116M
TP-300	300	47.625	60	60	22	10	28	TPKN 2204PPR	ST-T	SCR-W5/16	WRN-M5T	SCR-ST-T4	6001-117I	
													6001-117M	



※ All inserts are floating price.
Contact us before ordering from F1~F49

ORDER NO.	D	d \varnothing	inch metrics	H	BLADE	R	HITACHI INSERT	SCREW FOR INSERT	FIXING UNIT FOR CLAMP	CLAMP	CODE NO.
RM-5R50	50	- 22		45	4	5	RDMT10T3	SCR-CRS4	SCR-DM3.5	CL-5R	T15 6001-130M
RM-5R63	63	25.4 22		50	5	5	RDMT10T3	SCR-CRS4		CL-5R	T15 6001-131I 6001-131M
RM-8R50	50	- 22		45	3	8	RDMT1604	SCR-CRS5	SCR-W 1/4S		T20 6001-133M
RM-8R63	63	25.4 22		50	3,4	8	RDMT1604	SCR-CRS5			T20 6001-134I 6001-134M

Shoulder End Mills

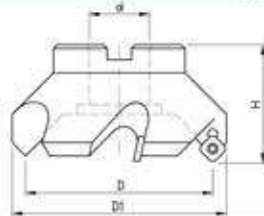


ORDER NO.	D	d	L	BLADE	INSERT	SCREW	CLAMP	WEIGHT (kg)	CODE NO.
SAE-20	20	20	110	2	TPMN110308	SCR-W3/16	WRN-M3L	0.4	6001-150
SAE-25	25	20	110	2	TPMN110308	SCR-W3/16	WRN-M3L	0.3	6001-151
SAE-30	30	20	130	2	TPMN160308	SCR-W1/4	WRN-M4L	0.5	6001-152
SAE-35	35	20	130	2	TPMN160308	SCR-W1/4	WRN-M4L	0.4	6001-153
SAE-40	40	20	130	3	TPMN160308	SCR-W1/4	WRN-M4L	0.5	6001-154
SAE-45	45	20	130	3	TPMN160308	SCR-W1/4	WRN-M4L	0.6	6001-155
SAE-50	50	20	130	3	TPMN160308	SCR-W1/4	WRN-M4L	0.7	6001-156
SAE-63	63	32	150	4	TPMN160308	SCR-W1/4	WRN-M4L	1.5	6001-157

High-Speed Face Milling Cutter 45° VERTEX®

45°

NEW



*All inserts are floating price.
Contact us before ordering from F1~F49

- Material : SNCM439
- Hardness : HRC42
- Accuracy : 0.03 mm

ORDER NO.	D	D1	dØ	INCH METRIC	H	BLADE	WEIGHT(kg)	INSERT	FIXING UNIT	WRENCH	CODE NO.
HCB-50	50	60	-		45	4	0.53	SEKT1204	SCR-SE5	T20	6001-170M
			22								6001-171I
HCB-63	63	75	25.4		50	5	0.83	SEKT1204	SCR-SE5	T20	6001-171M
			27								6001-172I
HCB-80	80	96	25.4		55	6	1.24	SEKT1204	SCR-SE5	T20	6001-172M
			27								6001-173I
HCB-100	100	116	31.75		55	6	1.83	SEKT1204	SCR-SE5	T20	6001-173M
			32								6001-174I
HCB-125	125	141	38.1		60	8	3.09	SEKT1204	SCR-SE5	T20	6001-174M
			40								6001-175I
HCB-150	150	158	50.8		60	10	4.06	SEKT1204	SCR-SE5	T20	6001-175M
			40								6001-176I
HCB-200	200	212	47.625		60	12	7.68	SEKT1204	SCR-SE5	T20	6001-176M
			60								

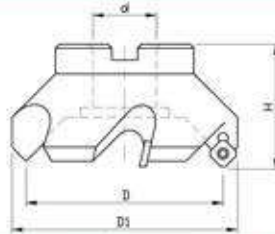


High-Speed Face Milling Cutter 45°

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45°

NEW



كفتراش الماس خور

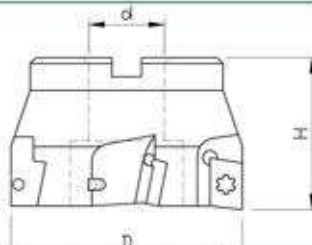
- Material : SNCM439
- Hardness : HRC42
- Accuracy : 0.03 mm

ORDER NO.	D	D1	dØ	INCH METRIC	H	BLADE	WEIGHT(kg)	INCH METRIC	INSERT	FIXING UNIT	WRENCH	CODE NO.
HCN-63	63	175	25.4		50	5	0.87		SEMT13T3	SCR-SE4	T15	6001-190I
			22									6001-190M
HCN-80	80	96	25.4		55	6	1.24		SEMT13T3	SCR-SE4	T15	6001-191I
			27									6001-191M
HCN-100	100	116	31.75		55	6	1.83		SEMT13T3	SCR-SE4	T15	6001-192I
			32									6001-192M
HCN-125	125	141	38.1		60	8			SEMT13T3	SCR-SE4	T15	6001-193I
			40									6001-193M
HCN-150	160	158	50.8		60	10	3.82		SEMT13T3	SCR-SE4	T15	6001-194I
			40									6001-194M
HCN-200	200	212	47.625		60	12	7.88		SEMT13T3	SCR-SE4	T15	6001-195I
			60									6001-195M



High-Speed Face Milling Cutter

NEW



- Material : SNCM439
- Hardness : HRC42
- Accuracy : 0.03 mm

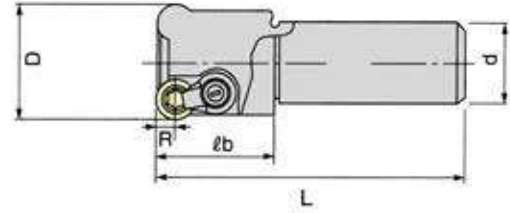
ORDER NO.	D	dØ	INCH METRIC	H	BLADE	WEIGHT(kg)	INSERT	FIXING UNIT	WRENCH	CODE NO.
FMC-50	50	25.4		40	4	0.34	APMT1604	SCR-CAP4	T15	6001-200I
		22								6001-200M
FMC-63	63	25.4		40	5	0.57	APMT1604	SCR-CAP4	T15	6001-201I
		22								6001-201M
FMC-80	80	25.4		50	6	1.15	APMT1604	SCR-CAP4	T15	6001-202I
		27								6001-202M
FMC-100	100	31.75		50	7	1.83	APMT1604	SCR-CAP4	T15	6001-203I
		32								6001-203M
FMC-125	125	38.1		50	8	2.99	APMT1604	SCR-CAP4	T15	6001-204I
		40								6001-204M
FMC-160	160	38.1		50	10	5.07	APMT1604	SCR-CAP4	T15	6001-205I
		40								6001-205M



Round Insert End Mills



انگشتی الماس خور



※ All inserts are floating price.

Contact us before ordering from F1~F49

ORDER NO.	BLADE	D	L	d	lb	R	HITACHI INSERT	CLAMP	FIXING UNIT FOR CLAMP	FIXING UNIT FOR INSERT	CODE NO.	
C20-4R20-150	2	20	150	20	50	4	RDMT0802	-	SCR-DM3.5	SCR-CRS3	T8	6002-001
C25-5R25-150	2	25	150	25	60	5	RDMT10T3	CL-5R		SCR-CRS4	T15	6002-002
C25-5R25-200	2	25	200	25	120	5	RDMT10T3	CL-5R		SCR-CRS4	T15	6002-003
C25-5R30-150	2	30	150	25	50	5	RDMT10T3	CL-5R		SCR-CRS4	T15	6002-004
C25-5R30-200	2	30	200	25	50	5	RDMT10T3	CL-5R		SCR-CRS4	T15	6002-005
C32-5R32-150	3	32	150	32	70	5	RDMT10T3	CL-5R		SCR-CRS4	T15	6002-006
C32-5R32-200	3	32	200	32	120	5	RDMT10T3	CL-5R		SCR-CRS4	T15	6002-007
C32-5R35X150	3	35	150	32	50	5	RDMT10T3	CL-5R		SCR-CRS4	T15	6002-008
C32-5R35X200	3	35	200	32	50	5	RDMT10T3	CL-5R		SCR-CRS4	T15	6002-009
C32-5R40X150	3	40	150	32	50	5	RDMT10T3	CL-5R		SCR-CRS4	T15	6002-010
C32-5R40X200	3	40	200	32	50	5	RDMT10T3	CL-5R		SCR-CRS4	T15	6002-011



Drilling & Milling Cutter



ORDER NO.	BLADE	D	L	d	l						CODE NO.
C16-DM16-120	2	16	120	16	30	CCMT060204	CPMT080204Z	SCR-CJU2.5	-	T8	6002-030
C16-DM16-175	2	16	175	16	40	CCMT060204	CPMT080204Z	SCR-CJU2.5	-	T8	6002-031
C20-DM20-130	2	20	130	20	30	CCMT060204	CPMT090204Z	SCR-CJU2.5	SCR-CJU3.5	T8.T15	6002-032
C20-DM20-185	2	20	185	20	50	CCMT060204	CPMT090204Z	SCR-CJU2.5	SCR-CJU3.5	T8.T15	6002-033
C25-DM25-130	2	25	130	25	40	CPMT090308	CPMT120308Z	SCR-CJU4	-	T15	6002-034
C25-DM25-220	2	25	220	25	70	CPMT090308	CPMT120308Z	SCR-CJU4	-	T15	6002-035
C32-DM32-170	2	32	170	32	50	CPMT120408	CPMT160408Z	SCR-CJU5	-	T20	6002-036
C32-DM32-250	2	32	250	32	80	CPMT120408	CPMT160408Z	SCR-CJU5	-	T20	6002-037



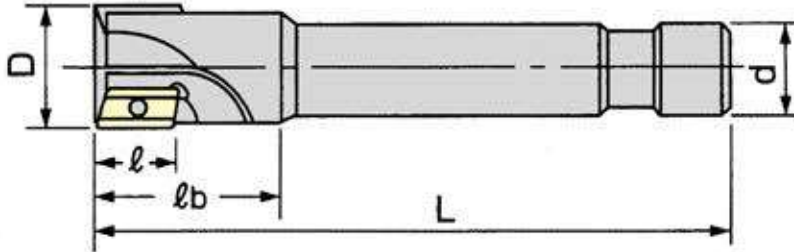
High Speed Shoulder Mills



انگشتی الماس خور



C16-SS16-120H






C25-SS25-150M



※ All inserts are floating price.

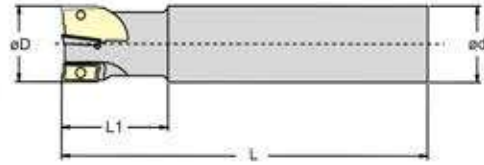
Contact us before ordering from F1~F49

ORDER NO.	BLADE	D	L	d	l	tb	HITACHI / MITSUBISHI				CODE NO.
C16-SS16-120H	1	16	120	16	12	30	APET120204 HITACHI		SCR-CEX3.5	T15	6002-060
C20-SS20-120H	2	20	120	20	12	30	APET120204 HITACHI		SCR-CEX3.5	T15	6002-062
C20-SS20-200H	2	20	200	20	15	30	APET120204 HITACHI		SCR-CEX4	T15	6002-063
C25-SS25-130H	2	25	130	25	15	35	ADET160304 HITACHI		SCR-CEX4	T15	6002-064
C25-SS25-200H	2	25	200	25	15	35	ADET160304 HITACHI		SCR-CEX4	T15	6002-065
C32-SS32-150H	3	32	150	32	15	45	ADET160304 HITACHI		SCR-CEX4	T15	6002-066
C32-SS32-200H	3	32	200	32	15	45	ADET160304 HITACHI		SCR-CEX4	T15	6002-067
C25-SS25-150M	2	25	150	25	14	35	APMT1604PDER MITSUBISHI		SCR-CAP4	T15	6002-069
C25-SS30-150M	2	30	150	25	14	45	APMT1604PDER MITSUBISHI		SCR-CAP4	T15	6002-070
C32-SS32-150M	3	32	150	32	14	45	APMT1604PDER MITSUBISHI		SCR-CAP4	T15	6002-080
C32-SS32-250M	3	32	250	32	-	60	APMT1604PDER MITSUBISHI		SCR-CAP4	T15	6002-081
C32-SS35-150M	3	35	150	32	14	45	APMT1604PDER MITSUBISHI		SCR-CAP4	T15	6002-082
C32-SS40-150M	4	40	150	32	14	45	APMT1604PDER MITSUBISHI		SCR-CAP4	T15	6002-083

High-Speed Rough End Mills VERTEX®

Mitsubishi inserts recommended

انگشتی الماس خور



※ All inserts are floating price.

Contact us before ordering from F1~F49

ORDER NO.	BLADE	D	d	L	L1	INSERT	FIXING UNIT	WRENCH	CODE NO.
VAPX-1616	2	16	16	120	24	MITSUBISHI AOMT 123608	SCR- APX2.5	T8	6002-150
VAPX-1716	2	17	16	150	24				6002-151
VAPX-2020	3	20	20	150	29				6002-152
VAPX-2120	3	21	20	150	29				6002-153
VAPX-2525	4	25	25	150	34				6002-154
VAPX-2625	4	26	25	200	34				6002-155

High-Speed Rough End Mills

NEW



ORDER NO.	BLADE	D	d	L	L1	L2	☐	⊙	WRENCH	WEIGHT (KG)	CODE NO.
VHRE-21010	2	10	10	100	28	5	XOMX-0602	SCR-AXO1.8	T6	0.07	6002-171
VHRE-21110	2	11	10	100	28	5				0.07	6002-172
VHRE-21212	2	12	12	120	28	5				0.11	6002-173
VHRE-21312	2	13	12	120	33	5				0.11	6002-174
VHRE-31412	3	14	12	120	25	5				0.11	6002-175
VHRE-22085	2	20	20	85	26	11	XOMX-1204	SCR-AXO3.5	T10	0.34	6002-181
VHRE-22015	2	20	20	150	26	11				0.36	6002-182
VHRE-22020	2	20	20	200	26	11				0.49	6002-183
VHRE-22215	2	22	20	150	26	11				0.37	6002-184
VHRE-32595	3	25	25	95	32	11				0.34	6002-185
VHRE-32515	3	25	25	150	32	11				0.54	6002-186
VHRE-32520	3	25	25	200	32	11				0.75	6002-187

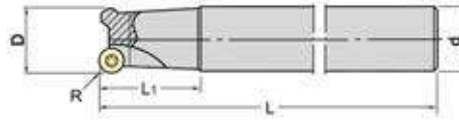


CRT Round Insert End Mills



Mitsubishi inserts recommended

انگشتی الماس خور



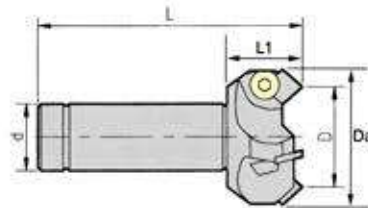
*All inserts are floating price.

Contact us before ordering from F1~F49

ORDER NO.	D	d	R	L	BLADE	INSERT			CLAMP	WEIGHT (kg)	CODE NO.
CRT-6R32X150	32	32	6	150	3	RPMT1204MO	SCR-M3.5	SCR-CRT4	CL-CRT	0.9	6003-051
CRT-6R32X200	32	32	6	200	3	RPMT1204MO	SCR-M3.5	SCR-CRT4	CL-CRT	1.3	6003-052
CRT-6R35X150	35	32	6	150	3	RPMT1204MO	SCR-M3.5	SCR-CRT4	CL-CRT	1.1	6003-053
CRT-6R35X200	35	32	6	200	3	RPMT1204MO	SCR-M3.5	SCR-CRT4	CL-CRT	1.3	6003-054



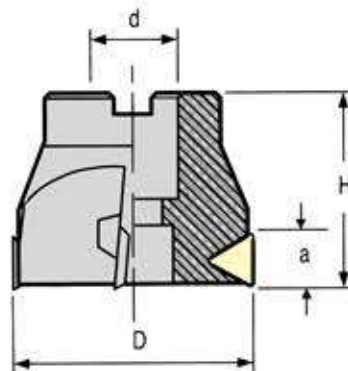
Face End Mills



ORDER NO.	D	Da	d	L	L ₁	BLADE	INSERT			WEIGHT (kg)	CODE NO.
C-32-SE445-50	50	62	32	150	45	3	SEKN1203	SCR-W1/4L	WRN-M4T	1.25	6003-060
C-32-SE445-63	63	74	32	150	45	4	SEKN1203	SCR-W1/4L	WRN-M4T	1.3	6003-061



Shoulder Face Milling Cutter



ORDER NO.	D	d METRIC	H	a	BLADE	INSERT			CODE NO.
TPS-50	50	22	50	16	3	TPMN1603	SCR-W1/4	WRN-M4L	6003-065
TPS-63	63	22	50	16	4	TPMN1603	SCR-W1/4	WRN-M4L	6003-066



45° Chamfering End Mills



خزينة الماس خور

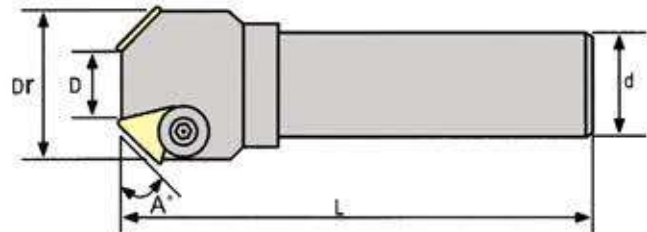
*All inserts are floating price.
Contact us before ordering from F1-F49



ORDER NO.	Cutter Dia.	Shank Dia.	Length	Capacity	FIXING UNIT	Wrench	INSERT	WEIGHT (kg)	CODE NO.
TC12	25ø	12ø	110	8ø~25ø	M4	T15	TCMT16T304	0.2	6004-002
TC40	40ø	12ø	100	20ø~36ø	M4	T15	TCMT16T304	0.34	6004-003

45° Chamfering End Mills

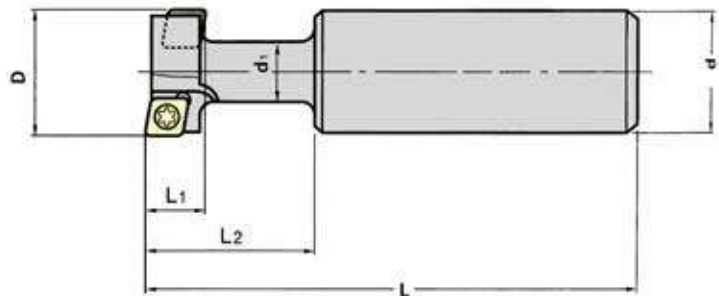
ISO CODE



ORDER NO.	A°	D	Dr	d	L	BLADE	INSERT	FIXING UNIT	WRENCH	CODE NO.
VCE-4521	45	5	21	16	120	1	TPUN1603	SCR-W1/4	WRN-M4L	6004-005
VCE-4531	45	10	31	20	120	2				6004-006
VCE-4550	45	20	50	25	130	3	TPUN2204	SCR-W5/16	WRN-M5L	6004-007
VCE-4532	45	6	32	32	150	1				6004-008
VCE-4563	45	35	63	25	150	3				6004-009

T-Slot End Mills

ISO CODE



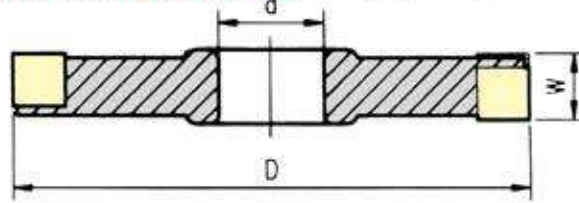
ORDER NO.	D	L1	d	d1	L2	L	BLADE	INSERT	FIXING UNIT	WRENCH	WEIGHT	CODE NO.
VTE-2411	24	11	20	12	29	90	4	CCMT-060204	SCR-TS2.5	T8	0.19	6004-015
VTE-3114	31	14	25	15	42	110	4	CPMT-080204Z			0.36	6004-016
VTE-3918	39	18	32	19	49	120	4	CPMT-090308	SCR-TS4	T15	0.61	6004-017
VTE-4922	49	22	32	25	60	140	4	CPMT-120408	SCR-TS5	T20	0.82	6004-018

Side Milling Cutter



※ All inserts are floating price. ISO CODE
Contact us before ordering from F1-F49

پولکی الماس خور



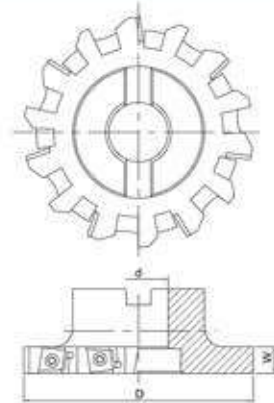
ORDER NO.	D	d	W	BLADE	INSERT	CLAMP	FIXING UNIT	WRENCH	CODE NO.
VSM-1016	100	1"	16	10	SPUN 120304	CL-S CL-SL	SCR- CL5/16	WRN-M4T	6004-020
VSM-1216	125	1"	16	14					6004-021
VSM-1516	150	1"	16	16					6004-022
VSM-2016	200	1"	16	20					6004-023

T-Side Milling Cutter

NEW



● Inserts : ISO Code



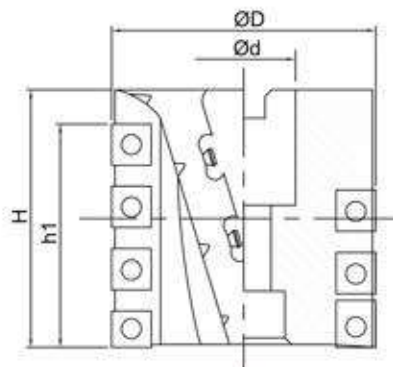
ORDER NO.	BLADE	D	d	W			CLAMP	WRENCH	WEIGHT (kgs)	CODE NO.
VTSC-416	10	100	25.4	16	SPUN-1203	SCR- CL5/16	CL-S CL-SL	WRN- M4T	0.84	6004-161
VTSC-516	14	125	31.75	16	SPUN-1203				1.64	6004-162
VTSC-520	14	125	31.75	20	SPUN-1504				1.73	6004-163
VTSC-616	16	150	31.75	16	SPUN-1203				2.20	6004-164
VTSC-620	16	150	31.75	20	SPUN-1203				2.48	6004-165
VTSC-820	20	200	31.75	20	SPUN-1504				4.38	6004-166
VTSC-825	20	200	31.75	25		5.23	6004-167			

Shell-Type Rough Milling Cutter

NEW



● Inserts : Walter / Hitachi



ORDER NO.	FLUTE	D	d _ø	INCH METRIC	H	h1	INSERT		INSERT		WRENCH	WEIGHT (kgs)	CODE NO.
VSRC-3	6	80	31.75	80	67	LPMT 1504	3	SPMT 1204	18	SCR- RGH5	T20	1.85	6004-1711
VSRC-80			32									1.85	6004-171M



Tap Wrenches With Ratchet





CLAMPING RANGE



NEW

دسته قلاویز

Unit : mm

ORDER NO.	SIZE	METRIC	L	MAX. 	MIN. 	WEIGHT (kgs)	CODE NO.
VPW-310	1	M3~M10	85	5.5	3.0	0.18	6011-801
VPW-512	2	M5~M12	100	7.0	4.5	0.31	6011-802

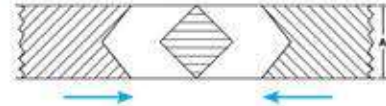
Tap Wrenches With Ratchet

CLAMPING RANGE



NEW



$$A = x \cdot 1.414$$



Unit : mm

ORDER NO.	SIZE	FOR METRIC	A 	MAX. B 	MIN. B 	PIPE PT/ PF-	L	WEIGHT (kgs)	CODE NO.
VPW-118	0	M1~M8	7.3	5.0	2.5	PT-1/16	125	0.06	6011-811
VPW-110	1	M1~M10	8.2	5.5	2.2	PT-1/16	180	0.12	6011-812
VPW-112	1-1/2	M1~M12	8.3	6.5	2.2	PT-1/8	200	0.11	6011-813
VPW-412	2	M4~M15	11.5	8.0	3.3	PT-1/8	280	0.26	6011-814
VPW-520	3	M5~M20	17.5	12.0	4.1	PT-3/8	375	0.58	6011-815
VPW-927	4	M9~M27	18.4	15.0	6.1	PF-5/8	500	0.86	6011-816
VPW-1332	5	M13~M27	22.2	15.0	5.7	PF-5/8	750	1.36	6011-817

Magnetic Tapper

قلاویز زن مگنتی

NEW



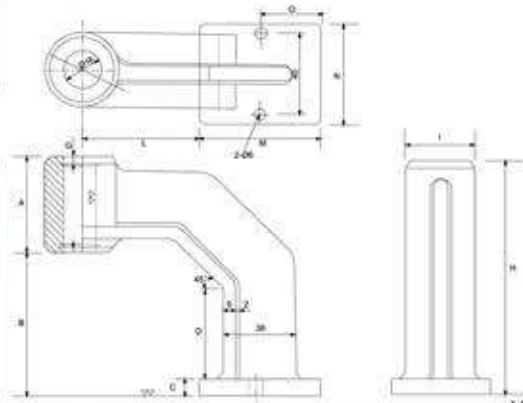
COST HIGHER



EXAMPLE



- Suit for large workpiece
- TAP thread capacity M3-M12
- MAX. stroke 60 mm
- Magnetic force 80 kgf
- Horizontal / Vertical
- Portable
- Great for machine case & thin plate tapping job.



Unit : mm

• Tap & work piece not included

ORDER NO.	A	B	C	D	H	I	L	M	N	O	WEIGHT (kgs)	CODE NO.
VTM-13	50	72	10	45	122	36	60	60	50	30	3.10	2015-731

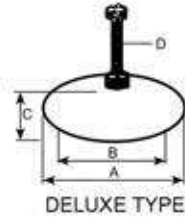


Shock Absorber



لرزه گیر

STANDARD TYPE



DELUXE TYPE

ADJUSTING



Special Features

Preventing shock & reducing noise. low bed design.
Easy installation. Simple adjustment. High durability.

Application

Various general working machines, metal work piece processing machine, production machine, special machine, measuring equipment, testing machine.
Electrical generator, air compressor, etc.
ADJUSTABLE RANGE 6-12 mm

Unit:mm

ORDER NO.	A	B	C	Ø DxL	LOAD KGS	Adjustable HEIGH	WEIGHT KGS	CODE NO.
TK-90	90	50	32	12M-100	500kg	5 mm	0.8	7001-000
TK-120	120	90	35	12M-100	1000kg	5 mm	1.4	7001-001
TK-160	160	130	38	16M-110	1500kg	6 mm	2.8	7001-002
TK-200	200	170	45	20M-120	3500kg	6 mm	4.4	7001-003

Features : Easy to operate. shock-absorbent, reduces machine noise includes adjustment, and assures production accuracy.

DELUXE TYPE



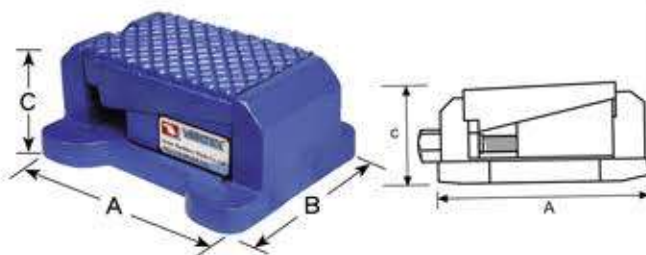
Unit:mm

ORDER NO.	D1	D2	H	Ø dxL	LOAD KGS	Adjustable HEIGH	N.W. KGS	CODE NO.
SB-4	100	90	60	12x50	500	25	2	7001-031
SB-6	150	135	95	16x110	1000	40	5	7001-032
SB-8	200	180	100	20x120	2500	40	8	7001-033
SB-10	250	230	125	24x180	4000	40	12	7001-034

SUITABLE FOR : machine tools, molding machine, printing machine, CNC lathe, grinding machines, drilling machines, milling machines.

● FCD45

HEAVY DUTY TYPE



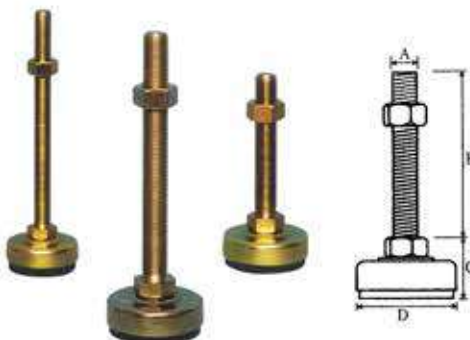
Unit:mm

ORDER NO.	A	B	C	LOAD KGS	Adjustable HEIGH	N.W. KGS	CODE NO.
SC-1	130	96	66	700	4MM	4	7001-060
SC-2	174	143	80	1500	5MM	8.8	7001-061
SC-3	217	165	101	2500	6MM	16	7001-062

SUITABLE FOR : CNC lathe, milling machines, cutting machines, grinding machines.

● FCD45

LIGHT DUTY TYPE



Unit:mm

ORDER NO.	A	B	C	D	LOAD KGS	N.W. KGS	CODE NO.
SY-8	M8X1.25P	50	20	40	100	0.1	7001-080
SY-12	M12X1.25P	75	30	50	200	0.28	7001-081
SY-16	M16X2.0P	100	35	60	300	0.48	7001-082

● SS41



Shock Absorber Heavy Duty VERTEX®

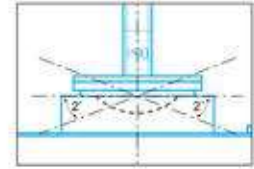
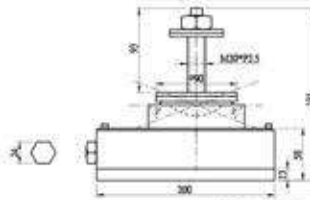
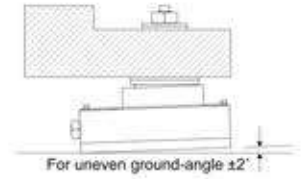
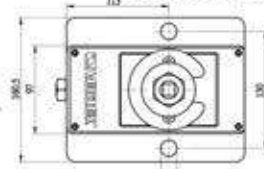
لرزه گیر

Machine Stand

NEW



VSA-150H



- Leveling
- Reduce Vibration
- Increase Stability
- Frictionless
- Precision & Accurate

STEP

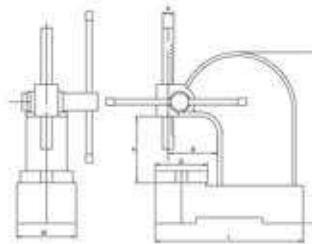
- Place shock absorbers under machine.
- When shock absorbers have full contact with machine base, you can start to adjust the leveling.

ORDER NO.	L x W x H	THREAD	LOAD KGS	UNEVEN GROUND-ANGLE	ADJUSTMENT HEIGHT / FROM ADJUSTABLE SCREW	WEIGHT KGS	CODE NO.
VSA-150K	200 x 160.5 x 91	M20 x 93L	22500	± 2°	7 mm	9.32	7001-180
VSA-150H	200 x 160.5 x 182	M20 x 84L	22500	± 2°	7 mm	9.32	7001-190



Arbor Press

پرس دستی



STANDARD TYPE

- All main parts made of ductile cast iron. Adjustable handle gives convenient handle positioning.
- Ram finite control by smooth gears.
- 4-90 degree equally divided slotted round table.
- Color may vary. (Green)

ORDER NO.	Base LxW(mm)	Height H(mm)	MAX Work Height A(mm) Stroke	Swing B	Table Diameter D	Ram Dimension RxR	Weight (kgs)	CODE NO.
VAR-0	235x102mm	254	114	85	90	19x19	8.5	7002-100
VAR-1	270x127mm	320	140	105	110	25.4x25.4	12	7002-101
VAR-2	400x170mm	445	215	135	170	31.7x31.7	29	7002-102
VAR-3	470x200mm	570	317	135	170	38.1x38.1	47	7002-103
VAR-5	680x250mm	800	470	245	250	50.8x50.8	140	7002-104

RATCHET LEVERS TYPE

This arbor press with all standard's feature. But operated with a ratchet device that will allow you to use the lever in the most convenient position, the lever has a counterweight for quick return after which the down stroke handwheel will return the ram to the work quickly.

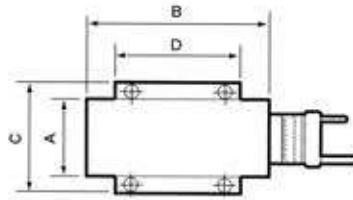
- Ratchet Type Arbor Press available-No. 3/5 only. The size is same as VAR-3, 5 Color may be varied. (Green)



ORDER NO.	VARR-3	VARR-5
G.W. KGS	65 kgs	162 kgs
CODE NO.	7002-131	7002-132



One Way Acme Thread Slide Table



- Material : FC-30
- Precision : $\pm 0.01 / 100\text{mm}$

میز یک طرفه

ST-75 ST-100 ST-125



- Material : FC-30
- Precision : $\pm 0.01 / 100\text{mm}$
- FEATURE : The sliding surfaces are treated by heat-treatment & precision ground.

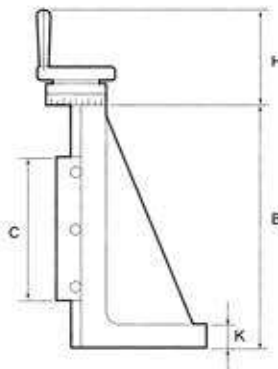
STA-160 STA-165 STA-200
STA-205 STA-300 STA-305

Specifications

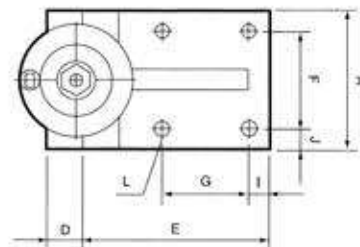
Unit: mm

ORDER NO.	A x B Table surface	C x D Base area	Stroke	Total height	Dial graduation	WEIGHT kgs	CODE NO.
ST-75	75 x 180	105 x 157	75	60	2.5 x 0.02	6.5	7002-540
ST-100	100 x 235	140 x 160	100	70	2.5 x 0.02	9.5	7002-541
ST-125	125 x 300	165 x 255	125	80	4.0 x 0.02	18.5	7002-542
STA-160	160 x 200	160 x 300	100	90	4.0 x 0.02	20	7002-543
STA-165	160 x 200	160 x 400	200	90	4.0 x 0.02	23.0	7002-544
STA-200	200 x 300	200 x 400	100	120	4.0 x 0.02	38.0	7002-545
STA-205	200 x 300	200 x 600	300	120	4.0 x 0.02	50.5	7002-546
STA-300	300 x 350	300 x 500	150	188	4.0 x 0.02	98.0	7002-547

Vertical Dovetail Slide Table میز یک طرفه عمودی



- Material : FC-30
- Precision : $\pm 0.01 / 100\text{mm}$
- FEATURE : The sliding surfaces are treated by heat-treatment & precision ground
Dial graduation 4.0 x 0.02mm



Specifications

Unit: mm

ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	Weight kgs	CODE NO.
SE-100	100	255	150	35	130	70	60	120	30	15	26	Ø10 x 4	15	7002-560
SE-150	150	385	200	40	185	110	90	120	20	20	35	Ø13 x 4	35	7002-561
SE-200	200	510	250	60	240	160	140	135	20	20	40	Ø17 x 4	67	7002-562
SE-250	250	600	300	60	280	200	160	140	25	25	40	Ø17 x 4	115	7002-563