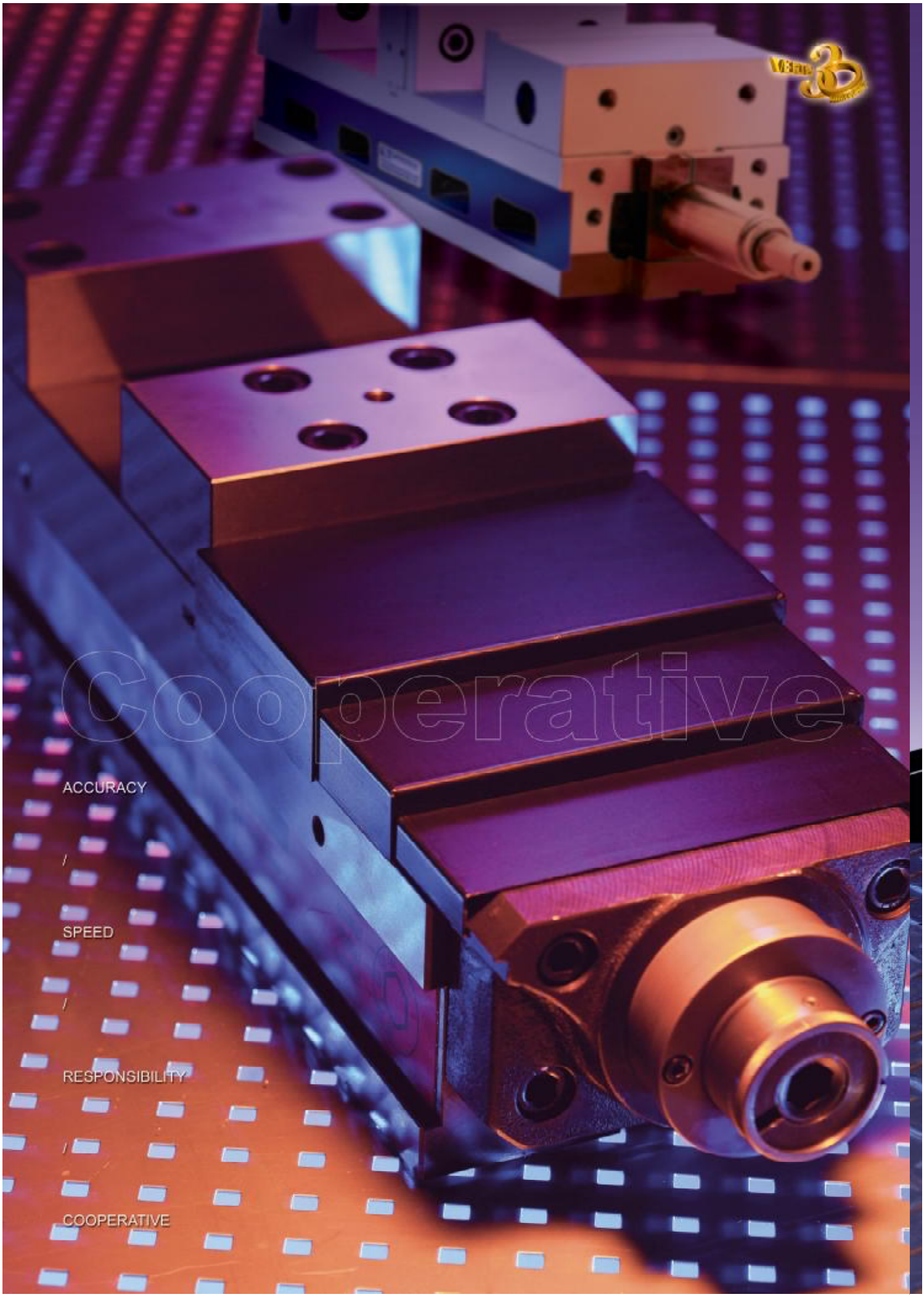

Cooperative
ACCURACY
/
SPEED
/
RESPONSIBILITY
/
COOPERATIVE

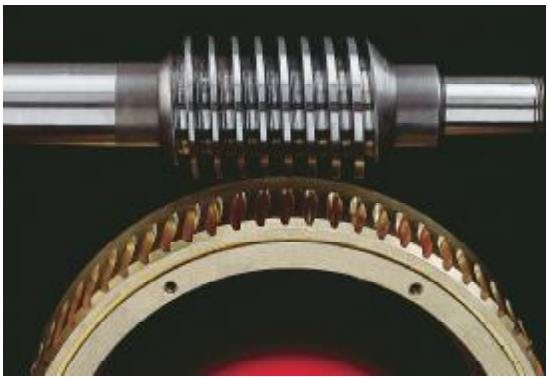
MACHINING CENTER ACCESSORIES

VERTEX®

NC-Rotary Table

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 turm, implements highly improved overall accuracy.



DOUBLE LEAD WORM GEARS SYSTEM
- **New design/special material**

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 machinging process in association with a machine tool. They are used for miling, 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 accurace within 15 sec.

PROGRAMMABLE SERVO MOTOR CONTROLLER

● SPECIFICATIONS

Unit:mm

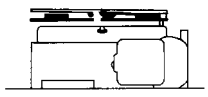
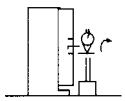
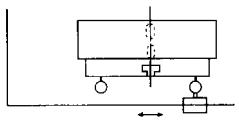
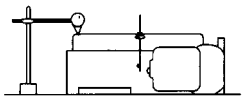
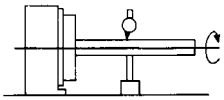
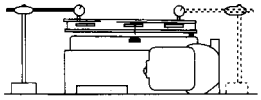
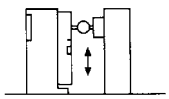
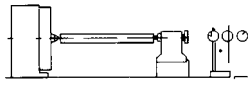
ORDER NO.	VNCM-150 L R	VNCM-220 L R	VNCM-250 L R	VNCM-320 L R		VNCM-400 L R
Right-hand type	O	O	O	O		O
Left-hand type	O	O	O	O		O
Turntable diameter	Ø160	Ø225	Ø250	Ø320		Ø400
Table height(Horizontal pos.)	150	165	165	220		250
Table center height(Vertical pos.)	135	160	160	210		255
Center bore diameter	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/cm²)	50/ (Hydraulic 35kg/ cm²)	50/ (Hydraulic 35kg/ cm²)	85/ (Hydraulic 35kg/cm²)		180/ (Hydraulic 35kg/ cm²)
Load capacity, horizontal(kg)	150	250	250	350		500
Load capacity, vertical(kg)	75	100	100	150		200
Inertia force (kg-cm-sec²)	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-sec²X10⁻²	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	Perpendicularit 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

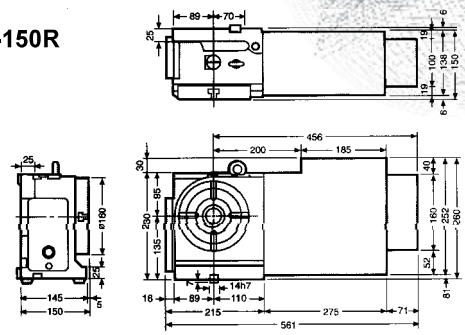
1 	4 	7 
2 	5 	8 An optical measuring instrument should be used for indexing accuracy measurements.
3 	6 	9 

NC-Rotary Table

VERTEX

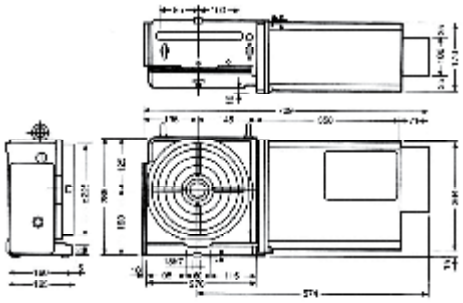
VNCM-150R

VNCM-150R



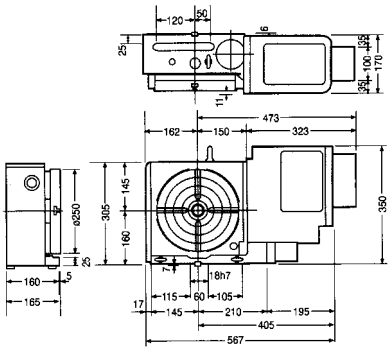
VNCM-220R

VNCM-220R



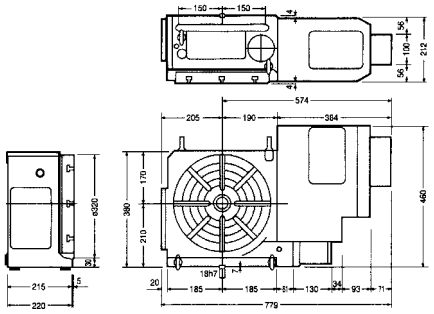
VNCM-250R

VNCM-250R



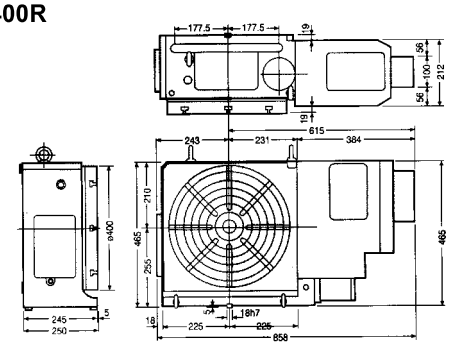
VNCM-320R

VNCM-320R



VNCM-400R

VNCM-400R



NC-Rotary Table

ORDER NO.VNCX-10 CODE NO.4001-010

- Motor case setted on the back of the body, increased the space for moving forward and backward, suitable for large or small NC machine using.
- Use of precision lead worm gear assures highly accurate dividing independently of table rotating direction. Further, no backlash will be produced.
- Wide range of machining is accomplished by connecting the Drive Table with Mcode of machining center.
- When used with machining center, the Drive Table will widen the range of applications; circular cutting dividing into equal parts, dividing into unequal parts, lead cutting, can cutting etc.
- MACHINE ZERO AND WORK ZERO. Zero Return Function to either Zero.
- BACKLASH COMPENSATION.
- BUILT-IN PNEUMATIC BRAKE FUNCTION.

Dimensions

Unit:mm

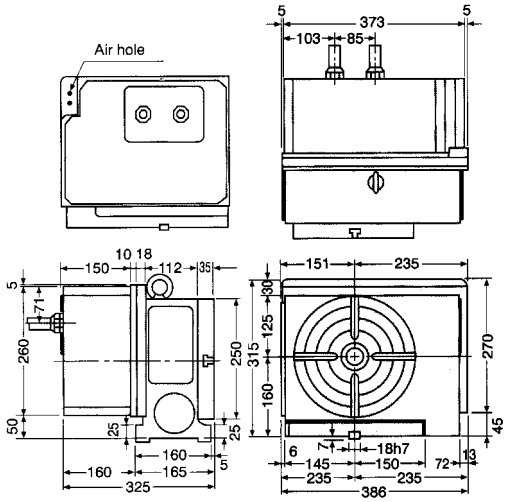
Item		
Table diameter		250
Table height		315
Center height		160
Center hole diameter		32
Table reference groove width		14
Key way		18
Clamping force(kgf-m)	Penumatic	20
Allowable work diameter		250
Allowable weight	Horizontal setup Vertical setup	200 100
Allowable work inertia(kgf-cm sec2)		12.5
Total reduction ratio		1:90
Rotary speed(rpm)		11.1
Allowable machine torque(kgf-m)		48

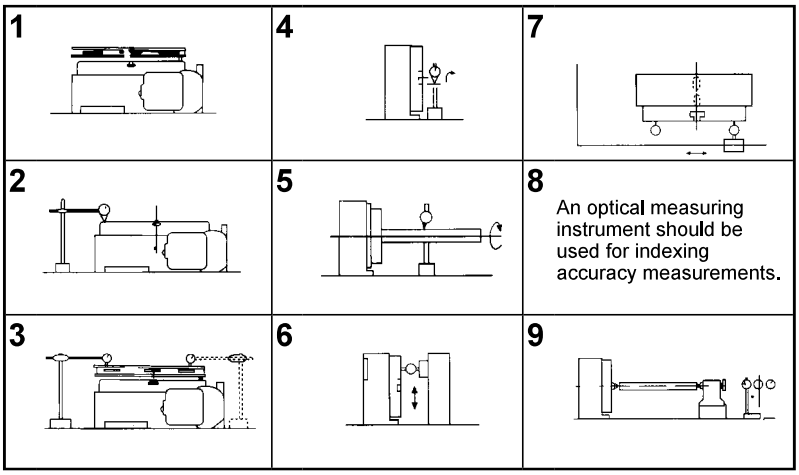
ACCURACY STANDARD

Unit:mm

NO	Inspection Itme		Tolerance
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 tailstok to frame bottom guide block	Per 300mm	0.02
10	Height difference of both headstock and tailstock center lines(Tailstock center line should be higher)		0.02

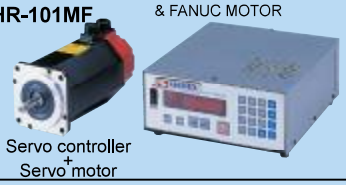
VNCX-10





● Optional accessories (For NC ROTARY TABLE)

VHR-100MF
VHR-101MF
MITSUBISHI MOTOR & FANUC MOTOR



Servo controller + Servo motor

Flang & Center for VNCM-320, 400

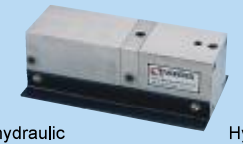
Automatic power chuck

Flanged scroll chuck

VHR-110F
VHR-112F

Stepping controller + Stepping motor

VHR-20



Air-hydraulic for the table clamp

Hydraulic unit (VNCM-320, 400)

Automatic tailstock

Manual tailstok

VHR-116S

SIEMERS MOTOR

VHR-10

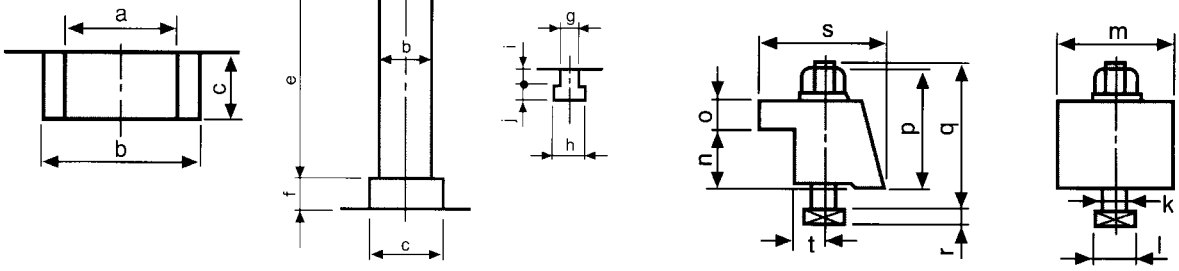
Hydraulic unit

Standard accessories

Clamping blocks and bolts

ORDER NO.	Suitable for		CODE NO.
VHR-10	NC Rotary table		4002-010
VHR-20	NC Rotary table		4002-020
VHR-100MF	VNCM-150, 220, 250	MITSUBISHI & FANUC MOTOR	4002-030
VHR-101MF	VNCM-320, 400	MITSUBISHI & FANUC MOTOR	4002-031
VHR-110F	VNCM-150, 220, 250	FANUC MOTOR	4002-040
VHR-112F	VNCM-320, 400	STEPPING MOTOR	4002-041
VHR-116S	VNCM-150, 220, 250	STEPPING MOTOR	4002-042
VHR-117S	VNCM-320, 400	SIEMERS MOTOR	4002-043

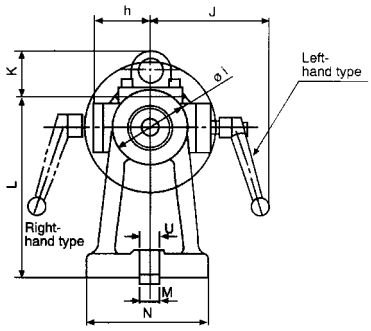
● CLAMPING BLOCKS AND BOLTS

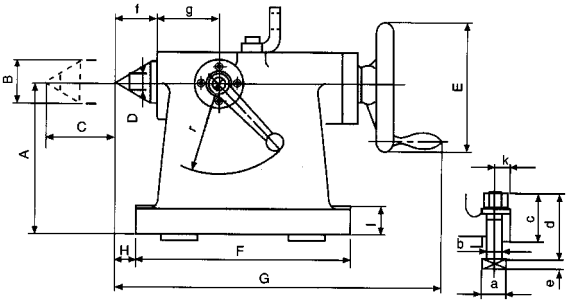


Unit:mm

ORDER NO.	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t
VNCM-150	ø 35H7	ø40	ø35	16	114	20	12H7	19	11	8	Ø12	□23	40	25	15	57	75	8	52	15
VNCM-220/250	ø 40H7	ø32	ø45	20	124	20	12H7	19	11	8	Ø16	□28	40	25	12	43	63	11	80	33
VNCM-320	ø 40H7	ø42	ø50	20	139	30	14H7	23	14	9	Ø16	□28	46	30	15	46	70	11	90	31
VNCM-400	ø 40H7	ø41	ø50	20	164	30	14H7	23	14	9	Ø16	□28	46	30	15	46	70	11	90	31

Tailstock For NC Rotary Table





Unit:mm

ORDER NO. / Main dimension For		Center height A	Center diameter B	Storke C	pointed end diameter D	Handle diameter E	Base dimensions FXM	G	H	I	J	K	L
TS-135	VNCM-150	135	ø45 MT#3	55	ø14	125	215x120	332	25	25	109	-	164
TS-160	VNCM-220 VNCX-10 VNCM-250	160	ø45 MT#3		ø18	140	230x130	356	30	30	129	53	193
TS-210	VNCM-320	210					230x146						243
TS-255	VNCM-400	255	ø55 MT#3	50		160	270x170	412		35	131		255

Unit:mm

ORDER NO. / Main dimension For		Guide -block size M	a	b	c	d	e	u	f	g	h	j	k	r	Net weight (kgs)	CODE NO.
TS-135	VNCM-150	18	23	12	42	60	8	19	40	69	44	70	17.5	80	20.6	4002-001
			26	16	46	70	10									
			28	16	46	70	11									
TS-160	VNCM-220 VNCX-10 VNCM-250		20	12	49	70	8	19	45	70	52	80		95	23.1	4002-002
			26	16	51	75	10									
TS-210	VNCM-320		28	16	51	72	11								29.4	4002-003
			34	20	57	85	13	23								
TS-255	VNCM-400		32	18	60	90	11	19	50	75	54	85			38.7	4002-004
			34	20	52	90	13	23								

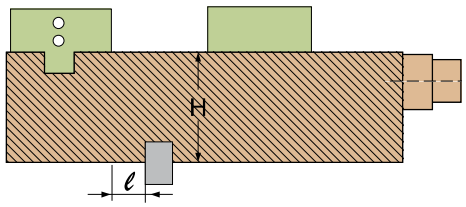
Listed in the above table are examples of applicable models. Those not listed above should be selected so that the center height of the rotary table and dividing heads is the same as that of the tailstock.

MC Power Vise

NEW

Great Capacity, Wide Clamping Range
Constant Full Length

- **Ultra clamping length more than other VMC-vise**
- Big jaw opening.
- Easy operation, compact design.
- Even if the jaw is opened, it does not interfere with the cover of the mounting machine.
- Quick set up, time saving.



H-Accurance 0.01mm
ℓ-Accurance 0.01mm

SAME HEIGHT GUARANTEE

Flexible Clamp System

- High precision system keep the dimension tolerance within 0.01/100mm.
- Vise clamps long size workpieces securely & steady.

MC Power Vise

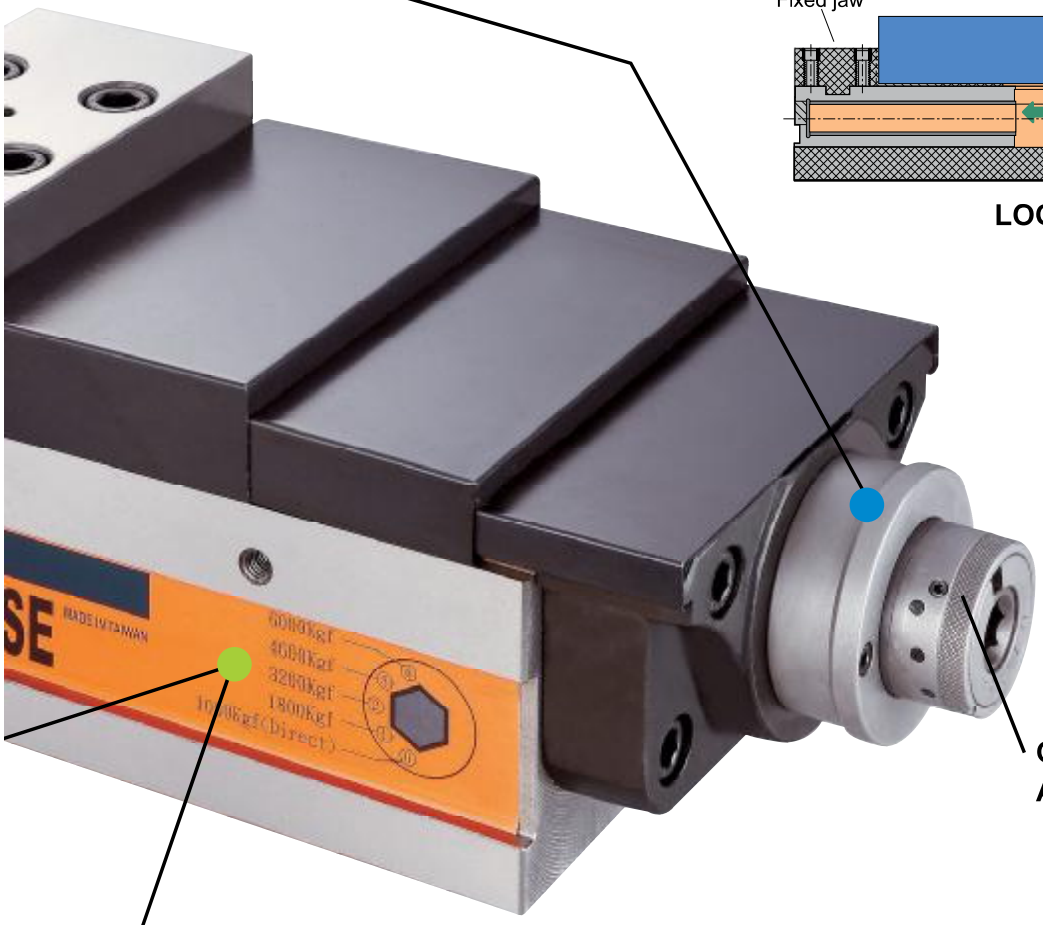
High power & fine balanced body structure stable clamping force

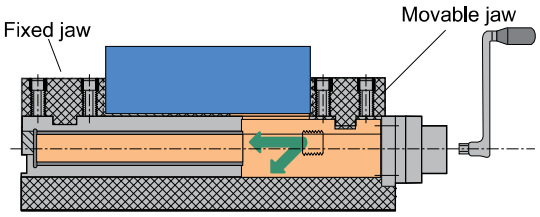
- The clamping force can be easily adjusted due to the preset mechanism.
- Mechanical type toggle enhancement mechanism.
- Clamping force can adjust to suit for different material, such as steel, brass and aluminum

Now to adjust the clamping force

MC Power vises guarantee the lifting of workpiece is within of 0.02/100mm.

- Adapt a blinding beam system with workpiece lift
- prevention mechanism. Pull-in efect.



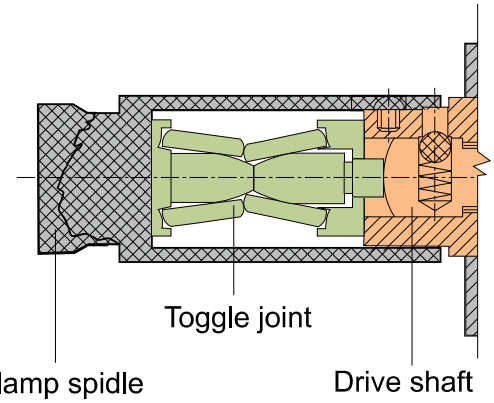


LOCK DOWN DESIGN

CLAMPING FORCE ADJUSTABLE DESIGN

Toggle joint mechanism.

- **One of the best vise mechanism design**
- After the moveble jaw touch,turning the handle, onl the drive shaft is transmitted to the enhancement process of toggle joint mechanism unit and the movable jaw clamps the work through the clamp spindle at the preset force.

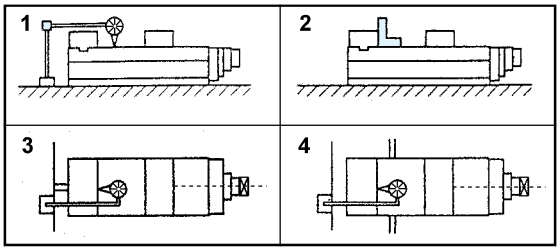


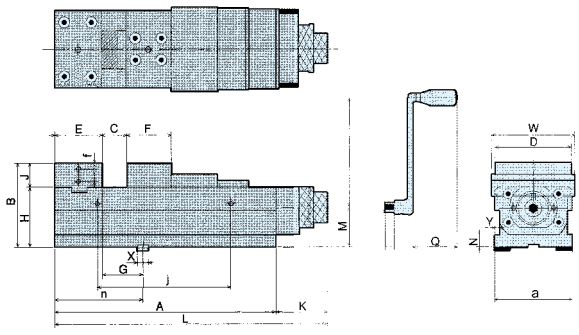
MC Power Vise

TOGGLE JOINT MECHANISM DESIGN FOR HEAVY DUTY WORKING

Features

- Compact design. Great clamping capacity & rigid.
- “Toggle joint mechanism”. Provides a steady clamping force against shocks and vibrations during the operatioons, 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 quaility 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: running face to bottom of bed.	0.01/100mm
2	Squareness :between running face and jaw plate.	0.02/100mm
3	Squareness: keways on bottom of bed to jaw plate.	0.02/100mm
4	Parallelism: running face of the test block to bottom of bed.	0.02/100mm

L TYPE IS ULTRA OPEN TYPE

ORDER NO.	JAW H	JAW Open Z	H	MAX. Clamping Force (KN)	G.W. kg
VQX-125	40	205	140	40	42.5
VQX-160	50	275	165	60	66
VQX-160L	50	355	165	60	64
VQX-200L	70	405	190	60	108

ORDER NO.	A	B	a	D	E	F	G	H	J	K	L
VQX-125	365	140	126	124.5	78	74	66	100	40	86.5	451.5
VQX-160	455	165	161	159.5	86	86	58	120	45	98.5	553.5
VQX-160L	535	160	162	160	86	86	58	115	45	98.5	633.5
VQX-200L	615	180	202	200	102	98	74	110	70	95	710

ORDER NO.	M	N	Q	W	X	Y	C OPEN	f	j	n	CODE NO.
VQX-125	65	21	73	135	18	7	205	20	215	145	4005-005
VQX-160	78	21	93	170	18	7	275	20	285	145	4005-006
VQX-160L	78	21	93	174	18	7	355	20	285	145	4005-007
VQX-200L	75	21	95	217	18	7	405	20	385	177	4005-008

MC Power Vise

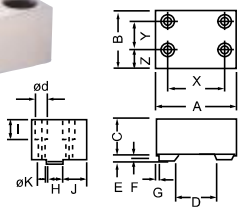
ADJUSTING METHOD
1. FIXED COLLOR
2. TURN BY WENCH TO GET NO.
   1, 2, 3, 4.

CLAMPING FORCE CHART

SCALE / ORDER NO. / KN	4	3	2	1	0
VQX-125	-	40KN	28KN	16KN	8KN
VQX-160	60KN	46KN	32KN	18KN	10KN
VQX-160L	60KN	45KN	32KN	20KN	10KN
VQX-200L	60KN	45KN	32KN	20KN	10KN

OPTIONAL:

FJ

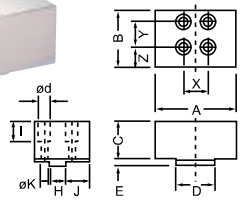


Fixed side

FIXED JAW

ORDER NO.	A	B	C	D	E	F	G	X	Y	Z	I	J	K	H	ød	CODE NO.
VQX-125FJ	124.5	91	60	63	8	7.7	6	88	45	29.5	33.5	40	13	24	19	4005-014
VQX-160FJ	159.5	102	60	84	9	-	-	124	50	34	30	45	15	28	22	4005-015
VQX-160L-FJ	159.5	102	60	84	9	-	-	124	50	34	30	45	15	28	22	4005-016

MJ



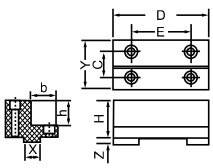
Movable side

MOVEABLE JAW

ORDER NO.	A	B	C	D	E	X	Y	Z	I	J	K	H	ød	CODE NO.
VQX-125MJ	124.5	87	60	59.5	8	35	42	29	33.5	38	13	24	13	4005-017
VQX-160MJ	159.5	102	60	80.5	9	56	50	34	30	45	15	28	15	4005-018
VQX-160L-MJ	159.5	102	60	80.5	9	56	50	34	30	45	15	28	15	4005-019

VQX-160 WITH L TYPE FIXED JAW & MOVEABLE JAW

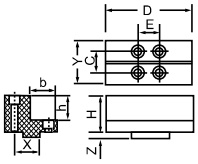
FJL



L TYPE FIXED JAW

ORDER NO.	X	Y	b	Z	C	E	H	h	D	CODE NO.
VQX-125FJL	24	78	39	8	42	88	50	32	125	4005-008A
VQX-160FJL	28	86	43	9	50	124	60	40	160	4005-009
VQX-160L-FJL	28	86	50	9	62	140	85	61	160	4005-010

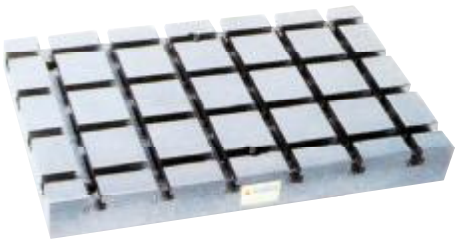
MJL

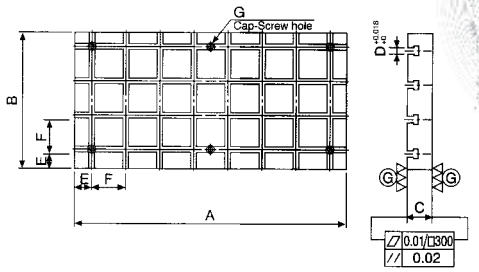


L TYPE MOVEABLE JAW

ORDER NO.	X	Y	b	Z	C	E	H	h	D	CODE NO.
VQX-125MJL	24	78	39	8	42	35	50	30	125	4005-011
VQX-160MJL	28	86	43	9	50	56	60	40	160	4005-012
VQX-160L-MJL	28	100	50	9	59	62	85	61	200	4005-013

Base Plate Series





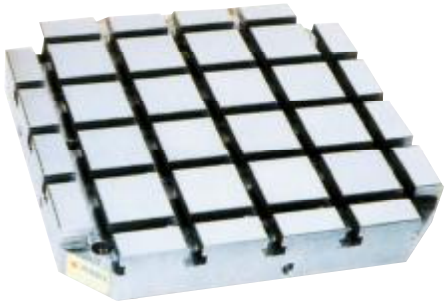
SUB TABLE T-SLOT TYPE

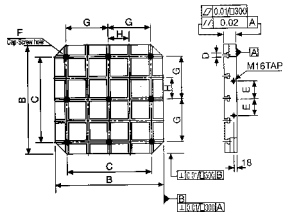
Sub-plates used on vertical machining centers and larger milling machines.
They protect the surface of machine table, and provide larger space for setting workpieces and minimize loss of operating time of expensive machine tools.
Material: Close grained cast iron, Annealed
Finish: Top and bottom ground

Unit:mm

ORDER NO.	A	B	C(±0.02)	D	E	F(±0.02)	G	kg	CODE NO.
TBP-6040	600	400	60	14	50	100	Ø18	100	4006-001
TBP-6050	600	500	60	14	50	100	Ø18	125	4006-002
TBP-6060	600	600	60	14	50	100	Ø18	149	4006-003
TBP-8040	800	400	60	14	50	100	Ø18	133	4006-004
TBP-9045	900	450	60	14	50	100	Ø18	169	4006-005
TBP-10050	1000	500	60	14	50	100	Ø18	207	4006-006
TBP-6040D	600	400	75	18	50	100	Ø18	120	4006-007
TBP-6050D	600	500	75	18	50	100	Ø18	150	4006-008
TBP-6060D	600	600	75	18	50	100	Ø18	179	4006-009
TBP-8040D	800	400	75	18	50	100	Ø18	160	4006-010
TBP-9045D	900	450	75	18	50	100	Ø18	204	4006-011
TBP-10050D	1000	500	75	18	50	100	Ø18	248	4006-012

Special dimension's order welcome.



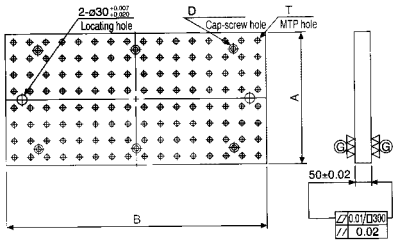


SQUARE TYPE

Unit:mm

ORDER NO.	A(±0.02)	B	C	D(H7)	E	F	G(±0.02)	H(±0.02)	kg	CODE NO
SBP-4040	60	400	320	14	55	Ø18	160	80	66	4006-020
SBP-5050	60	500	400	14	75	Ø18	200	100	90	4006-021
SBP-6363	60	630	500	14	100	Ø18	250	125	149	4006-022
SBP-8080	60	800	640	14	135	Ø18	320	160	230	4006-023
SBP-4040A	75	400	320	18	55	Ø18	160	80	85	4006-024
SBP-5050A	75	500	400	18	75	Ø18	200	100	118	4006-025
SBP-6363A	75	630	500	18	100	Ø18	250	125	195	4006-026
SBP-8080A	75	800	640	18	135	Ø18	320	160	298	4006-027

Special dimension's order welcome.



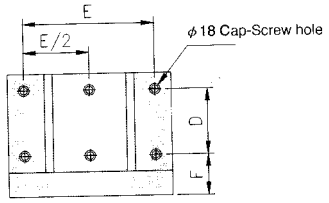
SUB TABLE THERAD TYPE

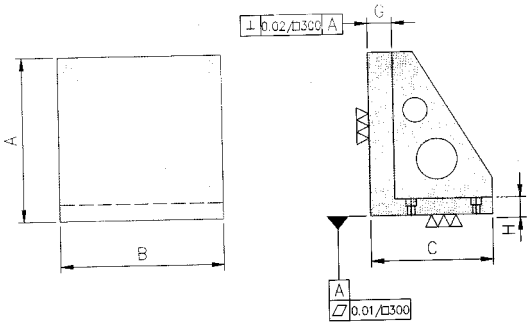
Unit:mm

ORDER NO.	A	B	D	T		NO. OF MTP holse	KGS	CODE NO.
				(F7)	TAP			
HBP-4060	400	600	Ø18	Ø12	M12	96	90	4006-030
HBP-5060	500	600	Ø18	Ø12	M12	120	112	4006-031
HBP-6060	600	600	Ø18	Ø12	M12	144	134	4006-032
HBP-4080	400	800	Ø18	Ø12	M12	128	119	4006-033
HBP-4590	450	900	Ø18	Ø12	M12	162	151	4006-034
HBP-50100	500	1000	Ø18	Ø12	M12	200	187	4006-035
HBP-4060T	400	600	Ø18	Ø16	M16	96	87	4006-036
HBP-5060T	500	600	Ø18	Ø16	M16	120	108	4006-037
HBP-6060T	600	600	Ø18	Ø16	M16	144	129	4006-038
HBP-4080T	400	800	Ø18	Ø16	M16	128	115	4006-039
HBP-4590T	450	900	Ø18	Ø16	M16	162	146	4006-040
HBP-50100T	500	1000	Ø18	Ø16	M16	200	180	4006-041

Special dimension's order welcome.

M/C Angle Plate 90º



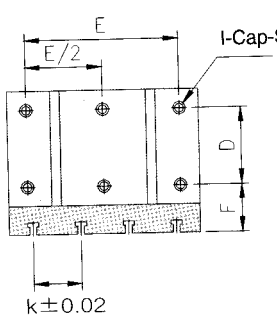


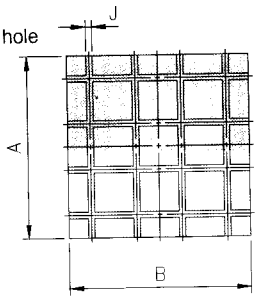
- Material/Finish:
  Material:FC300(JIS)/GG30(DIN)
  Heat treated (Normalized)
- Application:Good for horizontal M/C
- Features:Free to finish an actual required hole pattern for your special jig.
- eye bolt incuded.

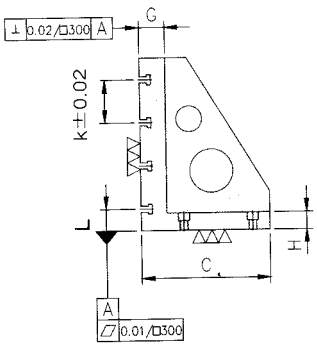
ORDER NO.	A	B	C	D	E	F	G	H	kgs	CODE NO.
BP20-30	300	300	220	100	250	90	40	30	52	4007-001
BP20-40	400	400	280	160	320	90	40	30	90	4007-002
BP20-50	500	500	350	200	400	90	50	35	175	4007-003
BP20-60	630	630	450	250	500	100	50	40	305	4007-004
BP20-80	800	800	550	302	640	115	50	45	480	4007-005

M/C Angle Plate 90º

T-SLOT TYPE



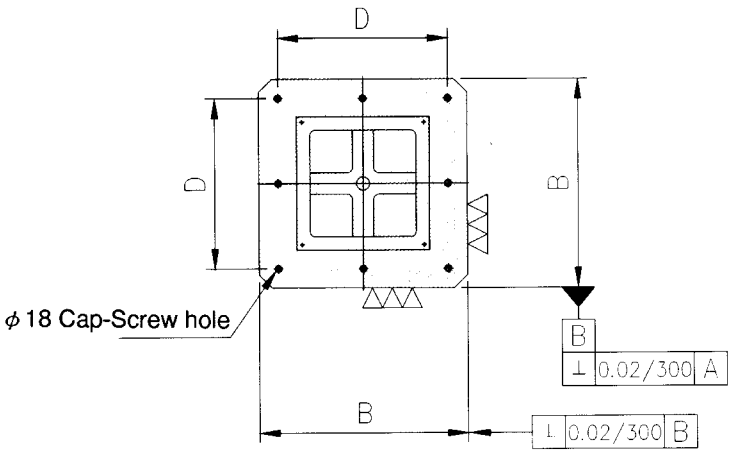


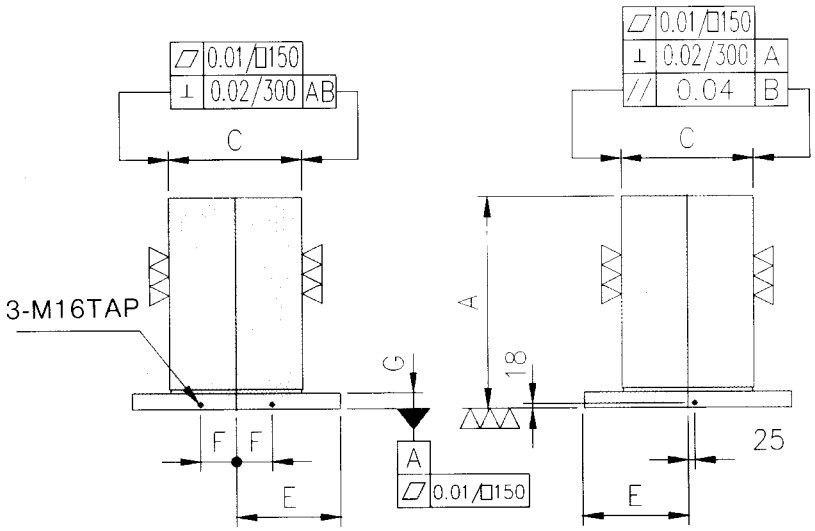


ORDER NO.	A	B	C	D	E	F	G	H	I	H (H7)	K (+0.02)	L	KGS	CODE NO.
BP22-30	300	300	220	100	250	90	60	30	ø18	14	100	50	62.5	4007-010
BP22-40	400	400	280	160	320	90	60	30	ø18	14	100	50	114.2	4007-011
BP22-50	500	500	350	200	400	90	60	35	ø18	14	100	50	184	4007-012
BP22-60	630	630	450	250	500	100	60	40	ø18	14	125	65	316	4007-013
BP22-80	800	800	550	320	640	115	75	45	ø18	14	150	100	577	4007-014
BP22-830	300	300	220	100	250	90	60	30	ø18	18	100	50	59.2	4007-015
BP22-840	400	400	280	160	320	90	60	30	ø18	18	100	50	111.2	4007-016
BP22-850	500	500	350	200	400	90	60	35	ø18	18	100	50	175	4007-017
BP22-860	630	630	450	250	500	100	65	40	ø18	18	125	65	304	4007-018

M/C Clamping Cube

- Material/Finish:
  Material:FC300(JIS)/GG30(DIN)
  Heat treated (Normalized)
- Application:Good for horizontal M/C
- Features:Free to finish an actual required hole pattern for your special jig.
- eye bolt included.

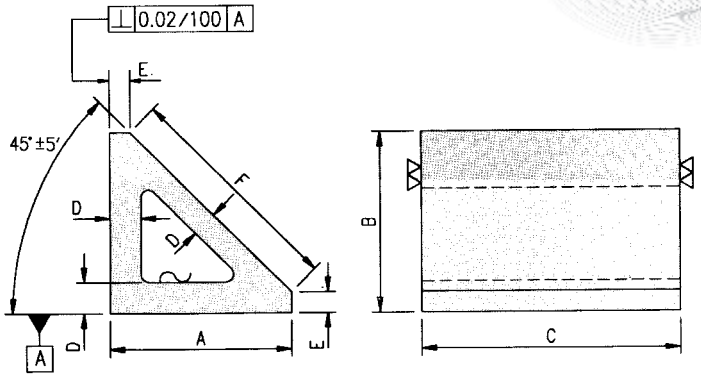




SPECIAL DESIGN WELCOM

ORDER NO.	A	B	C	D	E	F	G	NO.of Mounting holes	kg	CODE NO.
BP07-10	500	400	250	320	200	55	50	4	175	4007-020
BP07-20	600	500	300	400	250	75	50	8	240	4007-021
BP07-30	700	630	350	500	315	100	50	8	390	4007-022
BP07-40	800	800	500	640	400	135	50	8	745	4007-023

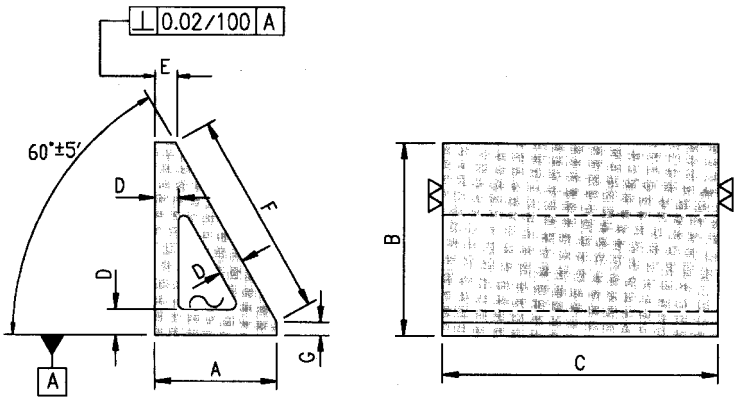
Angular Hollow Block 45º



Material:Cast Iron
FC-300
GG-30

ORDER NO.	A	B	C	D	E	F	kgs	CODE NO.
BC45-15	100	100	150	14	10	127	4.5	4007-030
BC45-30	100	100	300	14	10	127	8.8	4007-031
BC45-151	200	200	150	22	20	255	15.0	4007-032
BC45-301	200	200	300	22	20	255	29.0	4007-033

Angular Hollow Block 30º

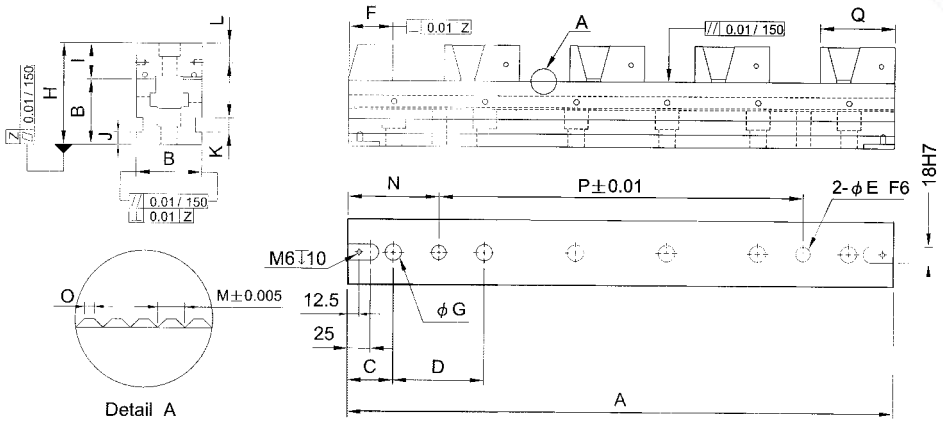


Material: Cast Iron
FC-300
GG-30

ORDER NO.	A	B	C	D	E	F	G	kgs	CODE NO.
BC30-15	63	100	150	12	9	108	6	3.0	4007-040
BC30-30	63	100	300	12	9	108	6	6.0	4007-041
BC30-151	125	200	150	20	14	222	8	9.5	4007-042
BC30-301	125	200	300	20	14	222	8	19.0	4007-043

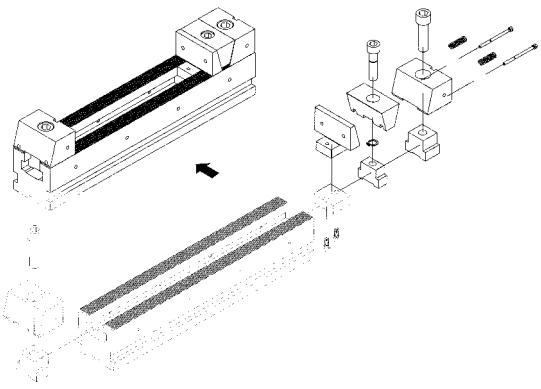
Flexible Line Up Vice

STANDARD STYLE
4 POSITION FOR EACH ITEM.



ORDER NO.	A	B±0.01	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	KG	CODE NO.
VFS-5030	300	50	30	80	12	36	13	75	24.8	10	12	12.5	1.5	70	0.5	160	60	8.5	4007-050
VFS-5030G			50	100										100		100			4007-051
VFS-5040	400	50	40	80	12	36	13	75	24.8	10	12	12.5	1.5	80	0.5	240	60	10.5	4007-052
VFS-5040G			50	100										100		200			4007-053
VFS-5050	500	50	50	80	12	36	13	75	24.8	10	12	12.5	1.5	90	0.5	320	60	12.5	4007-054
VFS-5050G				100										100		300			4007-055
VFS-5060	600	50	60	80	12	36	13	75	24.8	10	12	12.5	1.5	100	0.5	400	60	14	4007-056
VFS-5060G			50	100															4007-057
VFS-5070	700	50	70	80	12	36	13	75	24.8	10	12	12.5	1.5	110	0.5	480	60	15.5	4007-058
VFS-5070G			50	100										100		500			4007-059
VFS-7240	400	72	50	100	16	48	18	110	39.7	14	16	21.3	2.0	100	0.7	200	82	23	4007-060
VFS-7250	500	72	50	100	16	48	18	110	39.7	14	16	21.3	2.0	100	0.7	300	82	25	4007-061
VFS-7260	600	72	50	100	16	48	18	110	39.7	14	16	21.3	2.0	100	0.7	400	82	27	4007-062
VFS-7270	700	72	50	100	16	48	18	110	39.7	14	16	21.3	2.0	100	0.7	500	82	30	4007-063

Material：tool steel
Hardness：over HRC55

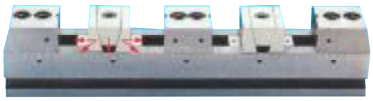


Flexible Line UP Vice

one workpieces

two workpieces

three workpieces



four workpieces

five workpieces

ONE WAY FIX JAW TYPE

six workpieces

seven workpieces

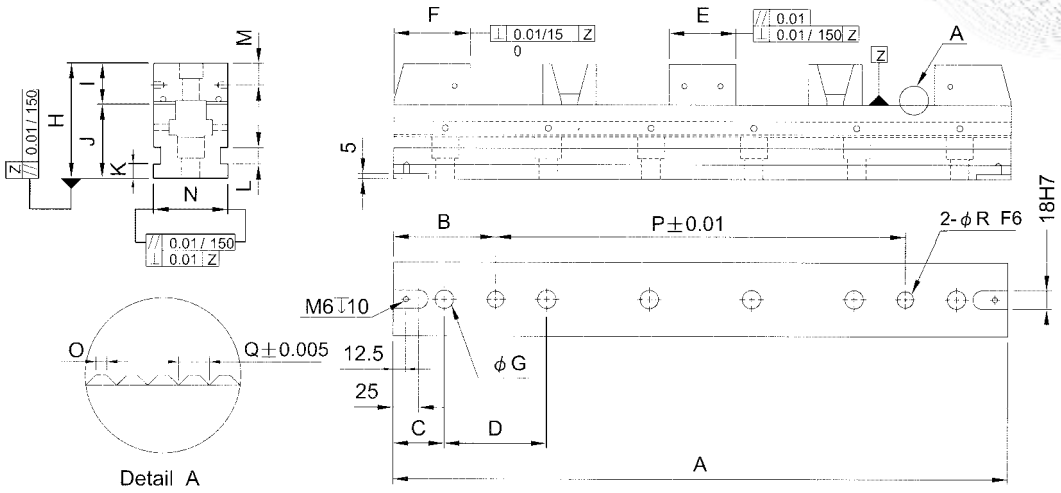
Maximum width of the workpieces can be clamped

ORDER NO.	One workpiece 	Two workpieces 	Three workpieces 	Four workpieces 
VFS-5030	203	71	27	--
VFS-5040	303	121	60	30
VFS-5050	403	171	94	55
VFS-5060	503	221	127	80
VFS-5070	603	271	160	105
VFS-7240	269	93	35	--
VFS-7250	369	143	68	30
VFS-7260	469	193	101	55
VFS-7270	569	243	135	80

ORDER NO.	Five workpiece 	Six workpiece 	Seven workpiece 	Eight workpiece 	Nine workpiece 
VFS-5030	--	--	--	--	--
VFS-5040	--	--	--	--	--
VFS-5050	32	16	--	--	--
VFS-5060	52	33	20	--	--
VFS-5070	72	50	34	22	13
VFS-7240	--	--	--	--	--
VFS-7250	--	--	--	--	--
VFS-7260	28	--	--	--	--
VFS-7270	48	26	--	--	--

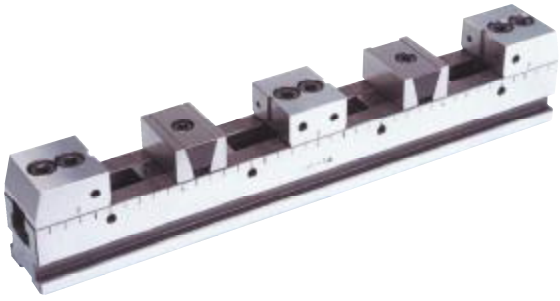
Flexible Line UP Vice

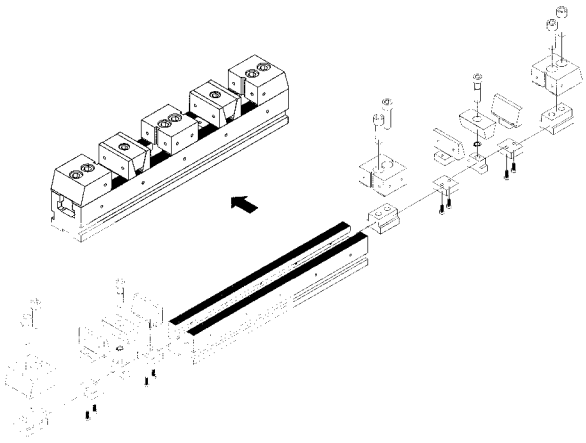
STANDARD STYLE
4 POSITION FOR EACH ITEM.



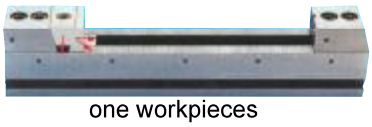
ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	KG	CODE NO.
VFL-5030	300	70	30	80	44	50	13	75	24.8	50	10	12	12.5	50	0.5	160	1.5	12	7	4007-080
VFL-5030G		100	50	100												100				4007-081
VFL-5040	400	80	40	80	44	50	13	75	24.8	50	10	12	12.5	50	0.5	240	1.5	12	9	4007-082
VFL-5040G		100	50	100												200				4007-083
VFL-5050	500	90	50	80	44	50	13	75	24.8	50	10	12	12.5	50	0.5	320	1.5	12	10	4007-084
VFL-5050G		100	50	100												300				4007-085
VFL-5060	600	100	60	80	44	50	13	75	24.8	55	10	12	12.5	50	0.5	400	1.5	12	11	4007-086
VFL-5060G			50	100																4007-087
VFL-5070	700	110	70	80	44	50	13	75	24.8	50	10	12	12.5	50	0.5	480	1.5	12	14	4007-088
VFL-5070G		100	50	100												500				4007-089
VFL-7240	400	100	50	100	65	75	18	110	39.7	72	14	16	21.3	72	0.7	200	2.0	16	19	4007-090
VFL-7250	500	100	50	100	65	75	18	110	39.7	72	14	16	21.3	72	0.7	300	2.0	16	25	4007-091
VFL-7260	600	100	50	100	65	75	18	110	39.7	72	14	16	21.3	72	0.7	400	2.0	16	27	4007-092
VFL-7270	700	100	50	100	65	75	18	110	39.7	72	14	16	21.3	72	0.7	500	2.0	16	30	4007-093

Material:tool steel
Hardness:over HRC55





Flexible Line UP Vice


one workpieces


two workpieces


three workpieces


four workpieces


five workpieces

TOW WAY FIX JAW TYPE


six workpieces


seven workpieces

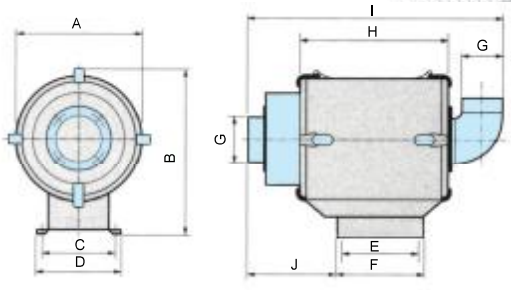
Maximum width of the workpieces can be clamped

ORDER NO.	One workpiece	Two workpieces	Three workpieces	Four workpieces	Five workpieces
					
VFL-5030	176	82	32	21	–
VFL-5040	276	132	65	46	23
VFL-5050	376	182	98	71	43
VFL-5060	476	232	132	96	63
VFL-7240	217	100	33	20	–
VFL-7250	317	150	65	45	16
VFL-7260	417	200	100	70	36
VFL-7270	517	250	133	95	56

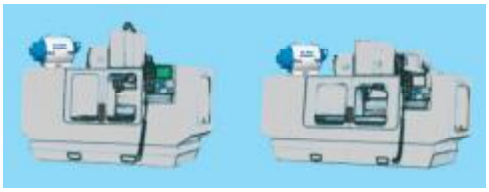
ORDER NO.	Six workpiece	Seven workpieces	Eight workpieces	Nine workpieces	Ten workpieces	Eleven workpieces
						
VFL-5030	--	–	–	–	--	–
VFL-5040	17	–	–	–	--	–
VFL-5050	34	19	15	–	--	–
VFL-5060	50	33	28	17	14	–
VFL-7240	--	–	–	–	--	–
VFL-7250	--	–	–	–	--	–
VFL-7260	27	–	–	–	--	–
VFL-7270	44	23	18	–	--	–

Oil Mist Cleaner

NEW



NC,CNC lathe, machining center, grinding machine, cleaning machine, NC milling machine, automatic press, universal lathe, drilling machine, broaching machine, transfer machine, gun drill, etc.



FEATURES

- Various types of mists can cause people to have headaches or chapped skin, and can also make the skin sticky when it adheres to the skin.
- When mists adhere to the floor, they can make it slippery,causing falls and other secondary accidents.
- Work environments filled with mists cause workers to work less hard, reducing productivity.
- Systems which remove mists to outside the building result in environmental damage. In addition, the effects of heating / cooling systems is reduced, resulting in higher air conditioning costs.
- The presence of mist may cause the electrical systems within manufacturing machinery to malfunction.
- Small size and light weight (compared to our conventional product)

DIMEMSIONS

ORDER NO.	VOM-30	VOM-35	VOM-45
POWER SOURSE	3ø220v / 380v / 440v (50/60HZ)		
R.P.M	3,450		
AMP	1.7/1.0/0.8	3.5/2.0/1.6	6.5/3.7/3.3
WIND CAPACITY	5	10	20
mmAq	70	100	150
MOTOR	0.4	0.75	1.5
INLET&OUTLET(Ø)	98/98	123/123	148/148
G.W(kg)	32	40	75

STANDARD PARTS	OPTION PARTS
1.DRAIN HOSE : 2m 2.FLANGE : 1EA	1.AFTER FILTER

unit: mm

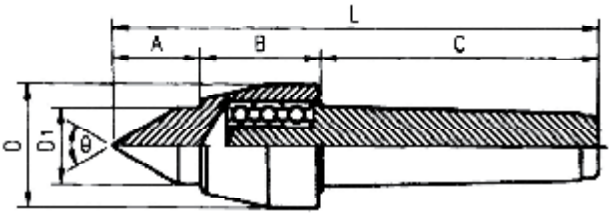
ORDER NO.	A	B	C	D	E	F	G	H	I	J	CODE NO.
VOM-30	295	380	180	226	210	240	Ø98	320	650	200	4007-100
VOM-35	340	420	180	226	210	240	Ø123	370	730	225	4007-101
VOM-45	445	545	280	320	360	400	Ø148	480	890	210	4007-102

MEMO


Accuracy
ACCURACY
/
SPEED
/
RESPONSIBILITY
/
COOPERATIVE

LATHE MACHINE ACCESSORIES

Light Duty Live Center

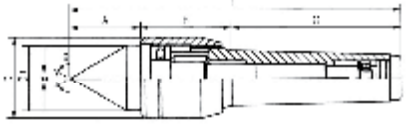


- Center is made of alloy steel under heating treatment to provide higher rigidity (HRC60°±2°) and satisfied wear-resistance.
- Center is constituted by ball bearings assembly.
- Applicable to middle-speed & high-speed lathe with light load.

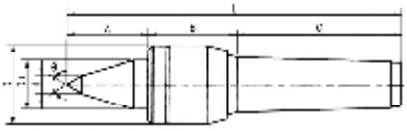
Unit:mm

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

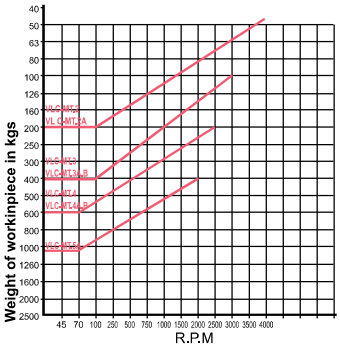
- Center shaft & main body are made of alloy steel under heating treatment to provide higher rigidity (HRC60°±2°) and satisfied wear- resistance.
- Center is constituted by thrust ball bearing, needle roller bearings & ball bearings assembly.
- Applicable to middle-speed & high- speed lathe with heavy load.

※ B TYPE SUITABLE FOR SMALL -WORKPIECE MACHINING.

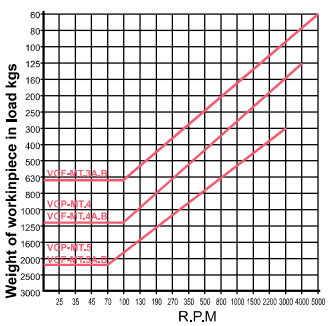
Unit:mm

ORDER NO.	TYPE	A	B	C	D	D1	b	L	d1	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VLC-212	MT2A	28	35	69	32	25	-	132	-	0.005	4000	60°	0.4	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	12	0.005	2500	60°	1.5	240 x 70 x 61	5001-012
VLC-215	MT5A	54	72	136	65	52	-	262	18	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	12	0.005	2500	60°	1.5	240 x 70 x 61	5001-015

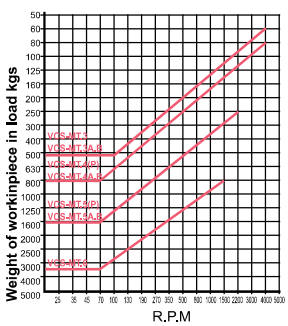
THE CHART FOR LOADING WEIGHT WITH R.P.M.



FOR VLC-TYPE



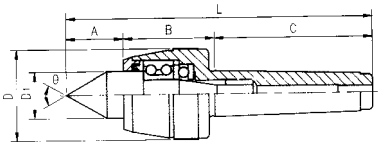
FOR VCF/VCP-TYPE



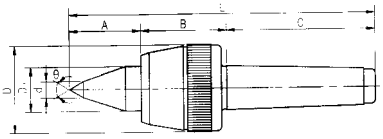
FOR VCS-TYPE

High-Speed NC Live Center

A TYPE



B TYPE



WATER-PROOF TYPE

- Center shaft is made of SKS3 material under vacuum heating tretment to provide higher rigidity (HRC60º±2º) 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.

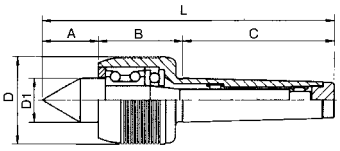
※ B Type is applicable in the metal workings on small workpieces.

Unit:mm

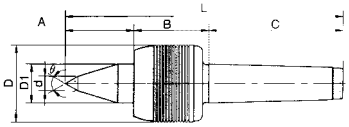
ORDER NO.	TYPE	A	B	C	D	D1	b	L	d1	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VLC-MT3A	MT3A	39	55	86	53	30	-	180	12	0.005	4000	60º	1.3	240 x 70 x 61	5001-020
VLC-MT4A	MT4A	42	62	108	63	32	-	212	12	0.005	3000	60º	2.2	253 x 92 x 80	5001-021
VLC-MT5A	MT5A	57	71	136	83	40	-	264	18	0.005	2500	60º	4.5	303 x 108 x 101	5001-022
VLC-MT6A	MT6A	80	115	139	128	70	-	384	-	0.008	1500	60º	15.6	410 x 177 x 168	5001-023
VLC-MT3B	MT3B	45	55	86	53	30	10	186	12	0.005	4000	60º	1.4	240 x 70 x 61	5001-024
VLC-MT4B	MT4B	52	62	108	63	32	12	222	12	0.005	3000	60º	2.2	253 x 92 x 80	5001-025
VLC-MT5B	MT5B	67	71	136	83	40	14	274	18	0.005	2500	60º	4.5	303 x 108 x 101	5001-026

High-Load NC Live Center

A TYPE



B TYPE



- Shaft uses material SKD11: through vacuum heat treatment, it is even more durale, hardness is as high as (HRC60º± 2º) and satisfied wear-resistance. Main body is made of SCM21 material.
- 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.

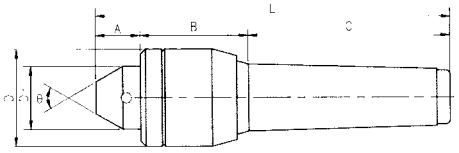
※ B Type is applicable in the metal workings on small workpieces.

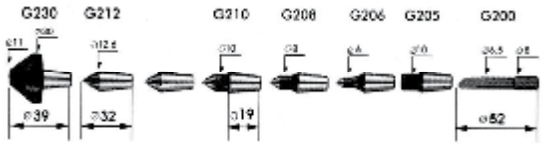
Unit:mm

ORDER NO.	A	B	C	D	D1	b	L	d1	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCF-MT3A	38	50	86	53	30	-	174	12	0.003	5000	60º	1.3	240 x 70 x 61	5001-030
VCF-MT4A	45	60	108	68	32	-	213	12	0.003	4500	60º	2.4	253 x 92 x 80	5001-031
VCF-MT5A	52	70	136	87	40	-	258	18	0.003	3000	60º	5	303 x 108 x 101	5001-032
VCF-MT3B	52	50	86	53	25	10	188	12	0.003	5000	60º	1.3	240 x 70 x 61	5001-033
VCF-MT4B	55	60	108	68	32	12	223	12	0.003	4500	60º	2.4	253 x 92 x 80	5001-034
VCF-MT5B	67	70	136	87	40	14	273	18	0.003	3000	60º	5	303 x 108 x 101	5001-035

Inter-changeable Points Live Center

- Complete set with 7 Interchangeable Points for various processing.
- Packed in plastic case.
- Accurating high accurancy and durability as well as complete rust-proof performance
- Body mabe of SCM-4 special tool steel hardened and ground can be used for heavy duty work.



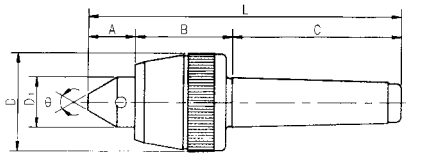


Unit:mm

ORDER NO.	TYPE	A	B	C	D	D1	b	L	d1	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	60º	0.9	166 x 105 x 63	5001-040
VLC-313	MT3	23	44	86	41	30	-	153	-	0.008	3000	60º	1.4	255 x 138 x 100	5001-041
VLC-314	MT4	23	51	108	47	32	-	182	-	0.008	2500	60º	2	255 x 138 x 100	5001-042

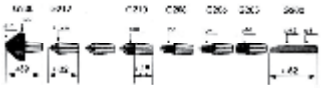
High Speed NC Interchangeable Points Live Center

Water-Proof Type



- Center shaft is made of SKS3 material under vacuum heating treatment to provide higher rigidity (HRC60º±2º) and satisfied wear-resistance.
- Center is constituted by dual ball bearing. Thrust bearing & needle roller bearing assembly.
- Applicable to high-speed lathe & NC leathe with heavy load, water-proof.

VCS-MT3, MT4

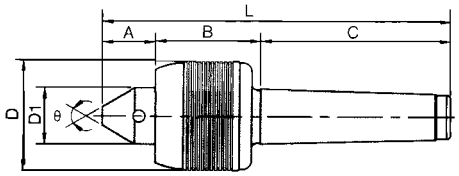


VCS-MT4P, MT5P

Unit:mm

ORDER NO.	A	B	C	D	D1	b	L	d1	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCS-MT3	28	55	86	53	30	-	167	-	0.008	4000	60º	1.8	255 x 138 x 100	5001-050
VCS-MT4	30	62	108	63	32	-	196	-	0.008	3500	60º	2.5	255 x 138 x 100	5001-051
VCS-MT4P	30	62	108	63	32	-	196	-	0.008	3500	60º	2.7	235 x 130 x 80	5001-052
VCS-MT5P	34	71	136	83	40	-	237	-	0.008	2500	60º	5.1	275 x 147 x 97	5001-053

High Load Interchangeable Points Live Center

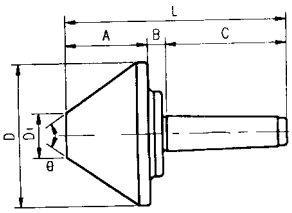


- Shaft uses material SKD11:through vacuum heat treatment, it is even more durable, hardness is as high as (HRC60°±2°) and satisfied wear-resistance. Main body is made of SCM21 material.
- Front end is constituted by skf angular contact ball bearing & thrust ball bearing. middle & rear ends are comprised of needle roller bearing assembly.
- These centers are suitable for NC lathe at high-speed & heavy-load operation, water-proof.

Unit:mm

ORDER NO.	A	B	C	D	D1	b	L	d1	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCP-MT4	35	60	108	68	32	-	203	-	0.005	4500	60°	3	253 x 130 x 80	5001-060
VCP-MT5	37	70	136	87	40	-	243	-	0.005	3000	60°	5.5	275 x 147 x 97	5001-061

Bull Nose Center



HARDEN PROCESS : HRC50°
CONCENTRICITY : 0.005mm
ROUNDNESS : 0.005mm
MATERIAL : STEEL

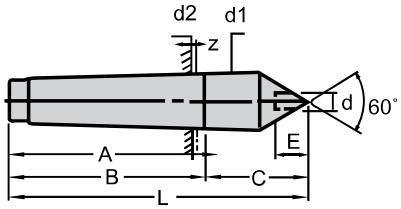
Unit:mm

ORDER NO.	SIZE	A	C	D	D1	L	Speed Max R.P.M.	R.P.M.100 LOAD WEIGHT (KGS)	G.W. weight (KGS)	CODE NO.
VLC-433	MT3x3″	52	86	78	15	156	3300	400	1.6	5001-070
VLC-434	MT3x4″	59	86	106	25	161	3000	500	2.8	5001-071
VLC-443	MT4x3″	52	108	78	15	178	3300	400	1.8	5001-072
VLC-444	MT4x4″	59	108	106	25	183	3000	500	3.1	5001-073
VLC-445	MT4x5″	73	108	128	40	193	2000	650	4.9	5001-074

Unit:mm

ORDER NO.	SIZE	A	C	D	D1	L	Speed Max R.P.M.	R.P.M.100 LOAD WEIGHT (KGS)	G.W. weight (KGS)	CODE NO.
VLC-446	MT4x6″	88	108	156	45	208	1900	800	7.7	5001-075
VLC-448	MT4x8″	98	108	206	81	218	1500	1300	15.4	5001-076
VLC-455	MT5x5″	73	136	128	40	221	2000	650	5.8	5001-077
VLC-456	MT5x6″	88	136	156	45	236	1900	800	8.6	5001-078
VLC-458	MT5x8″	98	136	206	81	246	1500	1600	15.7	5001-079

Lathe Centers



- Carbide tipped-HRC 70º
- Hardened & precision ground.
- Concentricity within.0002″(0.005mm)

Unit:mm

ORDER NO.	SIZE	L	A	B	C	E	d2	d1	d	WEIGHT (KGS)	CODE NO.
VLC-112	MT-2	100	69	67	31	8	17.780	18.0	6	0.2	5001-090
VLC-113	MT-3	125	89	81	39	10	23.825	24.1	8	0.4	5001-091
VLC-114	MT-4	155	109	102.5	46	14	31.267	31.6	10	0.8	5001-092
VLC-115	MT-5	200	136	129.5	64	18	44.399	44.7	14	2.1	5001-093
VLC-116	MT-6	270	190	182	80	30	63.648	63.8	18	5.7	5001-094

Work-Driving Center

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 under heating treatment(HRC62º).
- 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.

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

SET STYLE

TAPER SLEEVE

STOPPER

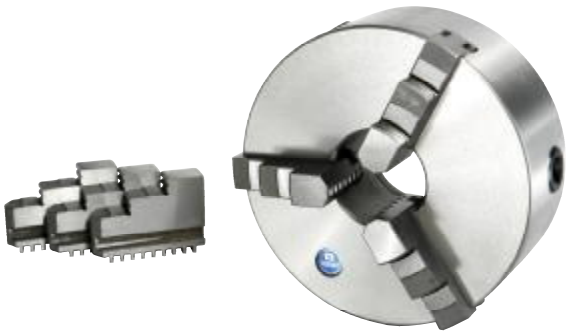
CENTER

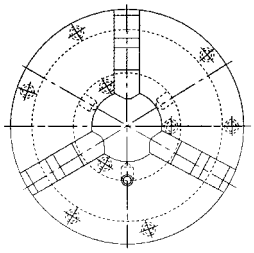
Unit:mm

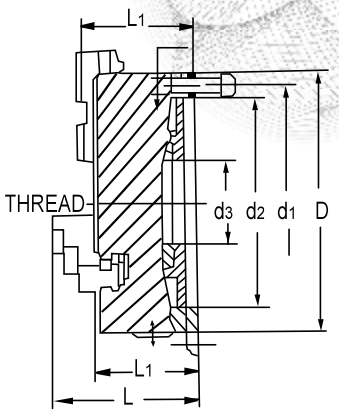
ORDER NO.	Center Shaft Size	Stopper Outer Dia	Working Range	Weight (KGS)	CODE NO.
VDC-30-MT4	6ø, 8ø, 10ø	16ø, 23ø, 30ø	15ø-45ø	0.23	5001-106

3 Jaw Self Centering Chuck

2 Set of Solid Jaw. Plain Back







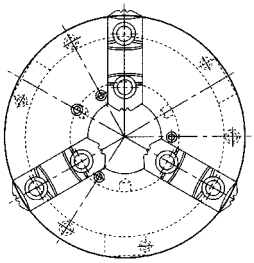
SPECIFICATIONS

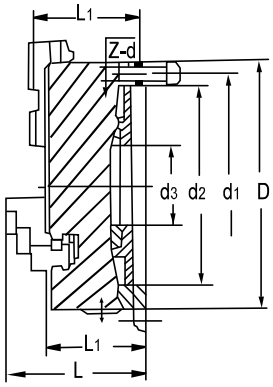
Unit:mm

ORDER NO.	D-Size	d1	d2	d3	L	L1	h	THREAD	WEIGHT (kgs)	CODE NO.
VSC-3A	80mm(3″)	66	55	16	66	50	3.5	3-M6	2	5002-020A
VSC-4A	100mm(4″)	84	72	22	74.5	55	3.5	3-M8	3.3	5002-021A
VSC-5A	130mm(5″)	115	100	33	78	55	3.5	3-M8	5.8	5002-022A
VSC-6A	160mm(6″)	145	130	40	95	65	5	3-M8	9	5002-023A
VSC-7A	190mm(7 1/2″)	172	155	55	105	75	5	3-M10	15.1	5002-024A
VSC-8A	200mm(8″)	180	165	70	109	75	5	3-M10	15.6	5002-025A
VSC-9A	240mm(9 1/2″)	215	195	70	122.5	80	10	3-M12	26	5002-026A
VSC-10A	250mm(10″)	225	206	80	120	80	5	3-M12	26.5	5002-027A

3 Jaw Powerful Self Centering Chuck

Reversible Top Jaws. Plain Back





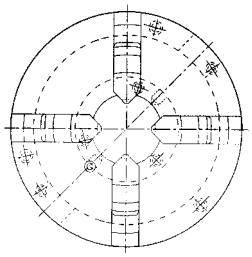
3 JAW SELF CENTERING CHUCK REVERSIBLE TOP JAWS. PLAIN BACK

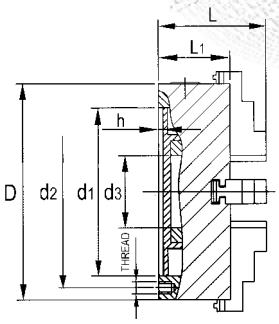
SPECIFICATIONS

Unit:mm

ORDER NO.	D-Size	d1	d2	d3	L	L1	THREAD	WEIGHT (kgs)	CODE NO.
VSK-6A	165mm(6″)	142	130	40	95	71	3-M8	8.3	5002-040A
VSK-7A	190mm(7 1/2″)	172	155	55	105	75	3-M10	10	5002-041A
VSK-8A	200mm(8″)	180	165	65	109	78	3-M12	16	5002-042A
VSK-10A	250mm(10″)	226	195	80	120	84	3-M12	21.7	5002-043A
VSK-13A	325mm(13″)	296	272	100	154.5	102.5	3-M16	45.8	5002-044A
VSK-15A	380mm(15″)	350	325	135	156.5	104.5	3-M16	64.7	5002-045A
VSK-16A	400mm(16″)	370	345	160	181.5	129.5	3-M16	75.6	5002-046A

4 Jaw Self Centering Chucks



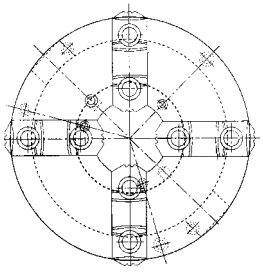


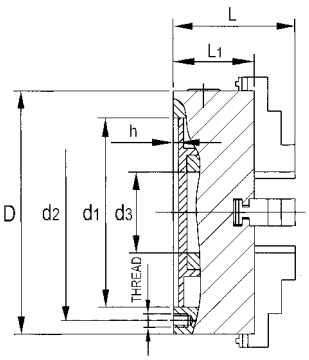
SPECIFICATIONS

Unit:mm

ORDER NO.	D	d1	d2	d3	L	L1	h	THREAD	WEIGHT (kgs)	CODE NO.
VPS-6A	165	130	145	45	94	65	5	3-M8	9.3	5002-050
VPS-7A	190	155	172	55	105	75	5	3-M10	13.8	5002-051
VPS-8A	200	165	180	65	109	75	5	3-M10	16.6	5002-052
VPS-10A	250	206	226	80	120	80	5	3-M12	28	5002-053
VPS-12A	315	260	285	100	147.5	90	6	3-M16	54	5002-054

4 Jaw Self Centering Chucks (2-Pices Jaw)





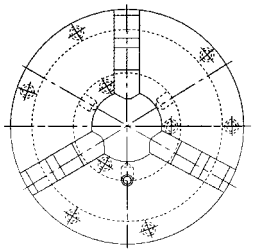
SPECIFICATIONS

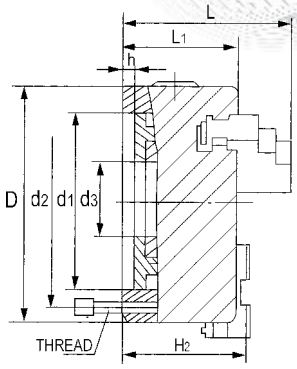
Unit:mm

ORDER NO.	D	d1	d2	d3	L	L1	h	THREAD	WEIGHT (kgs)	CODE NO.
VPS-6AK	165	130	145	45	109	65	5	3-M8	9.5	5002-055
VPS-8AK	200	165	180	65	122	75	5	3-M10	14.8	5002-057
VPS-10AK	250	206	226	80	136	80	5	3-M12	24.7	5002-058
VPS-12AK	315	260	285	100	156.5	90	6	3-M16	45.7	5002-059

DIN-Type 3-Jaw Self-Centering Chucks

DIN 6350 Standard





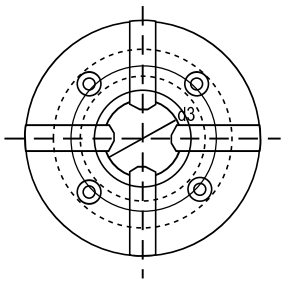
It have front mounting type as well.

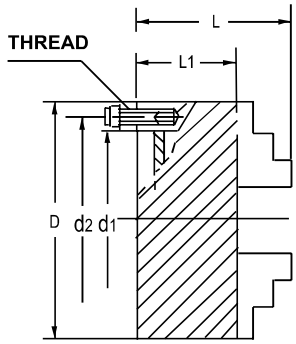
SPECIFICATIONS

Unit:mm

ORDER NO.	D	d1	d2	d3	L	L1	h	THREAD	R.P.M. MAX SPEED	WEIGHT (kgs)	CODE NO.
VSC-3D	80	56	67	16	66.5	50	4	3-M6	4000	1.9	5002-215
VSC-4D	100	70	83	22	74.5	55	3	3-M8	3500	3.3	5002-216
VSC-5D	125	95	108	30	84.5	58	4	3-M8	3000	5.2	5002-217
VSC-6D	160	125	140	45	94	65	5	6-M10	2500	9.1	5002-218
VSC-8D	200	160	176	65	109	75	5	6-M10	2500	16	5002-219
VSC-10D	250	200	224	80	120	80	5	6-M12	1600	27.5	5002-219A

4-Jaw Independent Chuck Plain Back



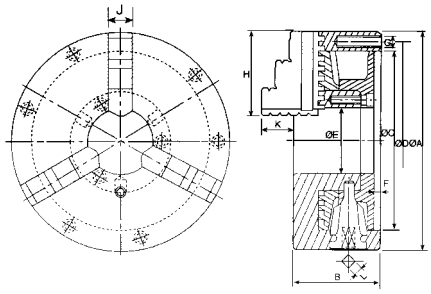


SPECIFICATIONS

Unit:mm

ORDER NO.	D-size	d1	d2	d3	L	L1	h	THREAD	WEIGHT (kgs)	CODE NO.
VKC-4	100mm(4″)	72	84	25	74	54	4.5	4-M8	4	5002-220
VKC-5	125mm(5″)	95	108	30	78	56			5.1	5002-221
VKC-6	160mm(6″)	65	95	45	93	65	5	4-M10	8.3	5002-222
VKC-8	200mm(8″)	75		56	107	75	6		15.9	5002-223
VKC-10	250mm(10″)	110	130	65	120	80		4-M12	21.8	5002-224
VKC-12B	320mm(12″)	140	165	95	134	90		4-M16	43.8	5002-226
VKC-14	350mm(14″)	130	168						53.6	5002-227
VKC-16	400mm(16″)	160	185	125	143	95	8		65	5002-228
VKC-20	500mm(21″)	200	236	160	161	106		4-M20	105	5002-229
VKC-25	630mm(25″)	220	258	180	180	118	10		175	5002-230
VKC-32	800mm(32″)	250	300	210	202	132	12	8-M20	300	5002-231

3-Jaw Scroll Chuck



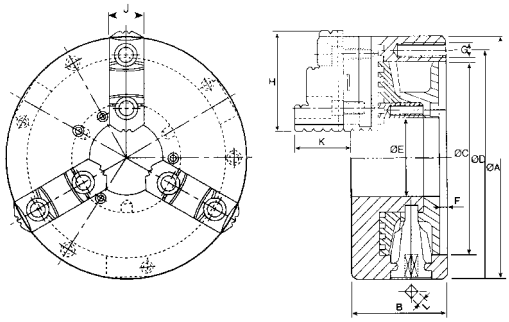
- Interchangable utilization of internal and external hard jaws.
- VSC types feature economical and durable,suitable for mass production.
- Gripping accuracy of 0.03mm (0.012inch)T.I.R..
- The body is made of MEEHANITE. It is suitably used for high speed revolution and 3 times more durable than regular chucks.

SPECIFICATIONS

Unit:mm

Dim / ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m²)	Weight (kgs)	Max. Speed (r.p.m.)	Gripping Range		CODE NO.
																	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	18	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	3.9	2500	Ø3-Ø110	Ø35-Ø100	5002-003
VSC-6	165	67	130	147	45	5	3-M10	63	19	27	10	9.0	3300	0.03	9.6	2000	Ø3-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	14.2	2000	Ø4-Ø180	Ø56-Ø170	5002-005
VSC-8	200	76.5	160	176	58	5	3-M10	77	21.5	38	11	11.0	3600	0.07	15.2	2000	Ø4-Ø180	Ø56-Ø170	5002-006
VSC-9	232	84	190	210	70	6	3-M12	87	24	33	12	15.0	3900	0.15	22.8	2000	Ø5-Ø220	Ø62-Ø210	5002-007
VSC-10	273	87	230	250	87	8.5	3-M12	98	28	37	12	19.5	4800	0.25	30.8	1800	Ø6-Ø260	Ø70-Ø250	5002-008
VSC-12	310	96	260	285	105	7	3-M12	110	30	44	14	21.0	5700	0.58	44.6	1800	Ø10-Ø300	Ø86-Ø290	5002-009
VSC-16	405	122	345	375	145	8.5	6-M14	146	42	56	15	23.0	4500	1.75	102	1500	Ø14-Ø400	Ø100-Ø380	5002-010

3-Jaw Powerful Scroll Chuck



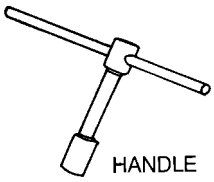
- VSK types chucks have wider unilization range; hard jaws suitable for heavy cutting; soft jaws suitable for light and precision cutting.
- Hard jaws could be used as internal jaws and external jaws.
- Gripping accuracy of 0.03mm (0.012inch) T.I.R.
- The body is made of MEEHANITE. It is suitably used for high speed revolution and 3 times more durable than regular chucks.

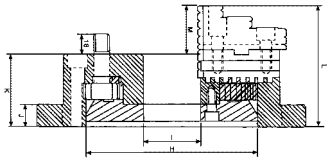
SPECIFICATIONS

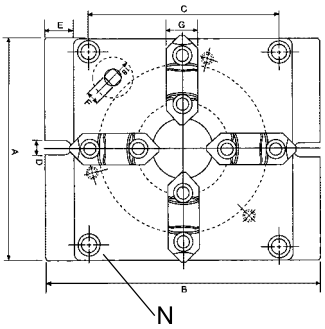
Unit:mm

Dim / ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m²)	Weight (kgs)	Max. Speed (r.p.m.)	Gripping Range		CODE NO.
																	O.D. Range	I.D. Range	
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	13.8	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	6	3-M12	96	32	50	12	15.0	3900	0.16	22.1	2000	Ø11-Ø220	Ø70-Ø210	5002-033
VSK-10	273	87	230	250	87	8.5	3-M12	100	35	50	12	19.5	4800	0.26	29.5	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	41.8	1800	Ø15-Ø300	Ø90-Ø290	5002-035
VSK-16	405	122	345	375	145	8.5	6-M14	150	50	75	15	23.0	4500	1.72	98	1500	Ø30-Ø470	Ø110-Ø380	5002-037

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 alse begripped 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.

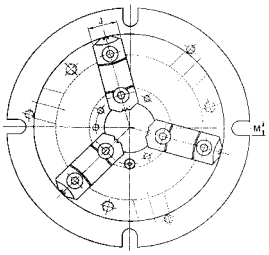
SPECIFICATIONS

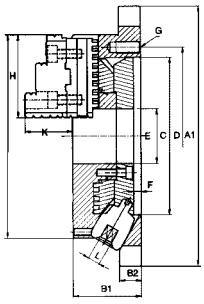
Unit:mm

ORDER NO.	A	B	C	D	E	G	H	I	J	K	L	M	N	MAX. GRIPPING DIAMETER		WEIGHT (kgs)	CODE NO.
														CLAMPING DIA	PROPING DIA		
VMJ-6	165	215	144	18	50	26	130	40	18	57	96	39	4-M10	Ø4-Ø128	Ø55-Ø128	13.5	5002-240
VMJ-8	200	250	174	18	50	28	160	55	20	65	108	43	4-M12	Ø5-Ø162	Ø62-Ø162	21.5	5002-241
VMJ-10	250	310	218	18	60	32	200	70	22	72	122	50	4-M14	Ø6-Ø200	Ø72-Ø200	36.1	5002-242
VMJ-12	310	380	274	22	70	40	260	100	25	85	141	56	4-M16	Ø10-Ø265	Ø90-Ø265	61.7	5002-243

Super Thin Chucks

- 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 machinig operation.
- The flanged type design make it easily for loading and unloading operation.
- "POWERFUL TYPE" design, may be used with hard jaws or soft jaws alternatively.





SPECIFICATIONS

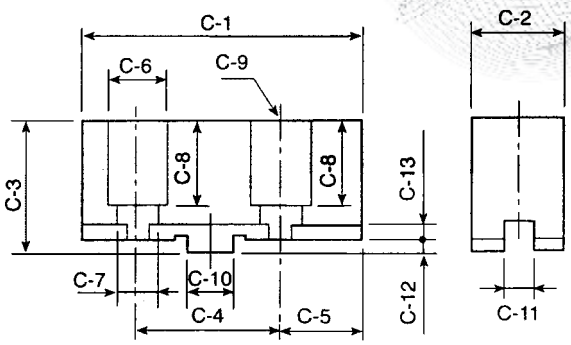
Unit:mm

Dim / ORDER NO.	A1	A2	B1	B2	C	D	E	F	G	H	J	K	L	M	Weight (kgs)	Gripping Range		CODE NO.
																O.D. Range	I.D. Range	
VNBK-6	220	170	58	18	130	147	45	6	3-M10	68	26	40	10	13	12.4	Ø8-160	Ø48-150	5002-070
VNBK-8	270	210	65	20	155	172	60	6	3-M10	85	28	45	11	13	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	29.5	Ø12-250	Ø72-240	5002-072
VNBK-12	370	305	80	22	250	285	105	6	3-M12	117	40	59	14	18	46.7	Ø15-300	Ø86-290	5002-073

Soft Jaw For SK-Type Chuck

1.Soft jaw for SK-type chuck. 2.Manufactured in specilfication

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-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	50	53.98	28	19	13	36	M12	19.03	12.7	3	3.5	3.7	5002-303
VSJ-10	110	37	50	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-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-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

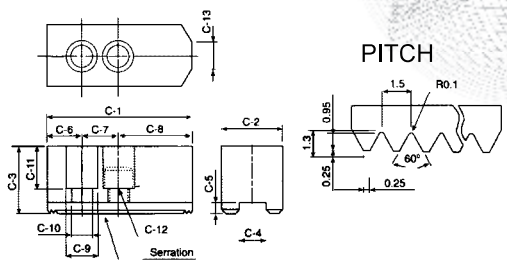
ORDER NO.	MODEL	HEIGHT	CODE NO.
VSJ-9-10	VSJ-9	100H	5002-30310
VSJ-10-5	VSJ-10	50H	5002-3045
VSJ-10-6	VSJ-10	60H	5002-3046
VSJ-10-7	VSJ-10	70H	5002-3047
VSJ-10-8	VSJ-10	80H	5002-3048
VSJ-10-9	VSJ-10	90H	5002-3049
VSJ-10-10	VSJ-10	100H	5002-30410
VSJ-12-6	VSJ-12	60H	5002-3056
VSJ-12-7	VSJ-12	70H	5002-3057
VSJ-12-8	VSJ-12	80H	5002-3068
VSJ-12-9	VSJ-12	90H	5002-3069
VSJ-12-10	VSJ-12	100H	5002-30610

Soft Jaw Hydraulic Power Chucks

Soft jaw for CNC lathe.

STANDARD
3 PCS/SET

ALUMINIUM



MATERIAL: ALUMINIUM

ORDER NO.	SIZE	CODE NO.
VHC-8A	SAME VHC-8	5002-250
VHC-10A	SAME VHC-10	5002-251

MATERIAL: STEEL

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.
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	-	7.5	5002-337

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-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-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

ORDER NO.	MODEL	HEIGHT	CODE NO.
VHC-10-9	VHC-10	90H	5002-3339
VHC-10-10	VHC-10	100H	5002-33310
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-12-7	VHC-12 21SLOT	70H	5002-3347
VHC-12-8	VHC-12 21SLOT	80H	5002-3348
VHC-12-9	VHC-12 21SLOT	90H	5002-3349
VHC-12-10	VHC-12 21SLOT	100H	5002-33410
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

Soft Jaw Forming Ring

- The size can be adjusted against the helical slot.
- Bias pin can be rotated 180 degree for different size to extend a clamping range.
- Don't need to drill new hole. The hole on the soft jaws can be used directly for bias pin.
- The material, which is hardened and ground, can last for a long time.

FAETURES

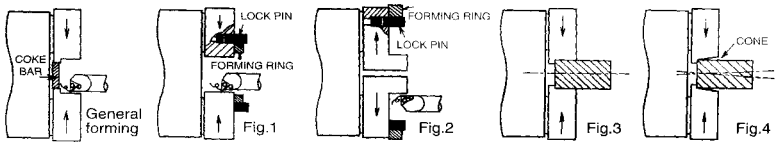
- Forming ring is available for5″ ,6″,8″,10″&12″ power chuck.
- The clamping force is increasing. the roundness and vibration caused by eccentricity can be improved. The cutting accuracy is much better because of no taper hole(as fig.3) and less vibration.
- Both Clamping(as fig.1) and extension (as fig. 2) are available. Meanwhile,the size adjusting is at will, the operation is easy and endurable.
- More improvement for used chuck to have high accuracy & strong clamping force .

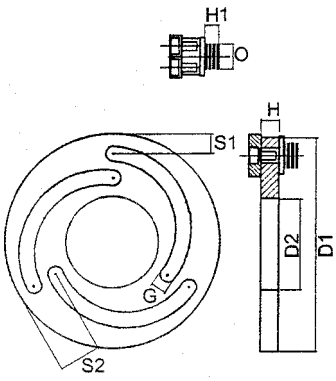
THE CHUCK NOT INCHUDING

INSTRUCTION

Because the forming ring is used for cutting soft jaws by clamping and with extending. through-hole could increase the accuracy of clamping work piece. (please refer to fig.1.2&3)

As fig.4, the soft jaw is made without forming ring. So that the cone has created, moreover, the Bad accuracy, run-out, vibration occur when clamping force is not stable.





ORDER NO.	SUIT TO SK-CHUCK SIZE	H	D1	D2	S1	S2	G	H1	O	KGS	CODE NO.
VFR-05	5″	12	140	60	12	28	10	9	13.5	1	5002-360
VFR-06	6″	12	168	80	12	32	10	9	16.5	1.5	5002-361
VFR-08	8″	12	218	115	17	36	10	9	18.5	2.4	5002-362
VFR-10	10″	12	258	150	15	40	10	9	18.5	3	5002-363
VFR-12	12″	15	316	188	21	50	10	9	21.5	5	5002-364

Hard Jaws For Hydraulic Power Chucks

1.Hard jaw for hydraulic power chucks. 2.Hard jaw for CNC lathe

Fig-1

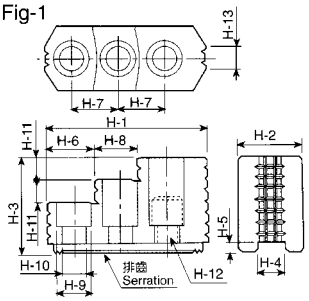
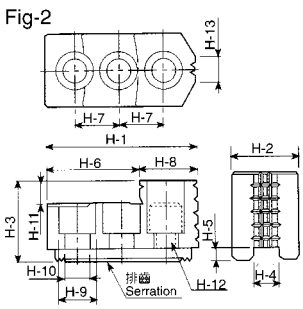


Fig-2



DIMENSIONS

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	13	20	46	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)

Fig-1

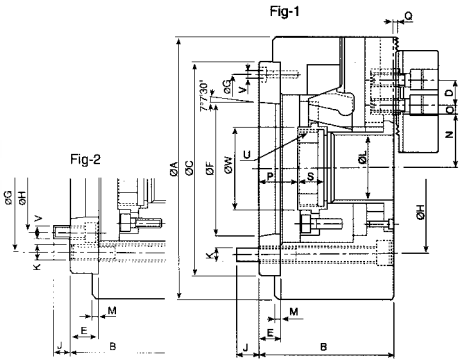
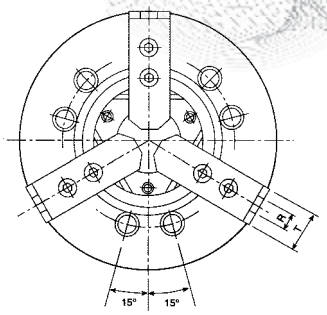


Fig-2



- More large bore:
  Having the largest bore in wede 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 form high grabe alloy steel, All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.

SPECIFICATIONS

Unit:mm

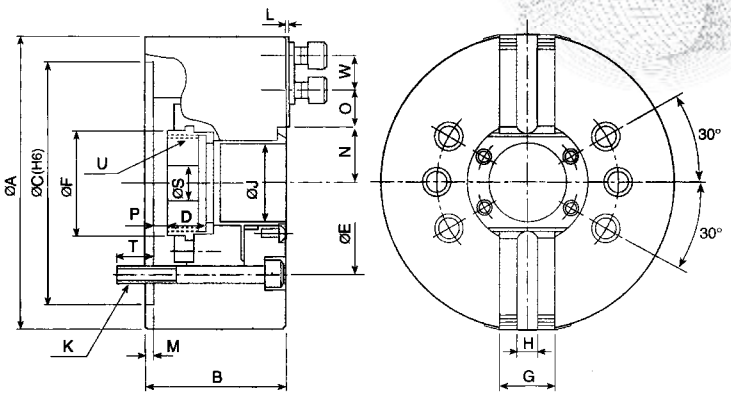
NO. / Dim — ORDER	N-205A4	N-206A5	N-208A5	N-208A6	N-210A6	N-210A8	N-212A8	N-215A8	N-215A11
Through-Hole (mm)	ø33	ø45	ø52	ø52	ø75	ø75	ø91	ø117.5	ø117.5
Plunger Stroke (mm)	10	12	16	16	19	19	23	23	23
Jaw Stroke (mm)	5.4	5.5	7.4	7.4	8.8	8.8	10.6	10.6	10.6
Max. Draw Bar Pull Force (kgf)	1700	2200	3400	3400	4300	4300	5500	7240	7240
Max. Gripping Force (kgf)	3600	5700	8800	8800	11000	11000	14300	18355	18355
Max. Operating Pressure (kgt/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

Unit:mm

NO. / Dim — ORDER	N-205A4	N-206A5	N-208A5	N-208A6	N-210A6	N-210A8	N-212A8	N-215A8	N-215A11
A	135	169	210	201	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

2-Jaw Wedge Type Through-hole Power Chuck (Without Adaptor)



- All sliding surfaces are hardened and ground for accurate actual running and long service repeatability. Lubrication nipple in each base jaw.
- Base jaw:
  1.5mmx60º serrtion.
- Mounting:
  Adaptor mounting to fit with DIN,ISO,BS,ASA B5.9 type A spindles.

SPECIFICATIONS

Unit:mm

NO. / Dim — ORDER	NT205	NT206	NT208	NT210	NT212	NT215
Through-Hole (mm)	Ø33	Ø45	Ø52	Ø75	Ø91	Ø117.5
Plunger Stroke (mm)	10	12	16	19	23	23
Jaw Stroke (mm)	5.4	5.5	7.4	8.8	10.6	10.6
Max. Draw Bar Pull Force (kgf)	1189	1479	2294	2906	3739	4793
Max. Gripping Force (kgf)	2447	3875	5710	7546	9789	12236
Max. Speed (r.p.m.)	7000	6000	4800	4200	3300	2500
Weight (kgs)	5.9	13	22.1	33.2	61.9	115
Matching Cylinder	M1036	M1246	M1552	M1875	M2091	M2511
Max. Operating Pressure (kgt/cm^2)	19.5	18.9	17.3	18.4	18.4	15.3
Matching Soft Jaw	VHC05	VHC06	VHC08	VHC10	VHC12	VHC15
Matching Hard Jaw	HJ05	HJ06	HJ08	HJ10	HJ12	HJ15
CODE NO.	5002-250	5002-251	5002-252	5002-253	5002-254	5002-255

DIMENSIONS

Unit:mm

NO. / Dim — ORDER	NT205	NT206	NT208	NT210	NT212	NT215
A	135	169	210	254	304	381
B	60	81	91	100	110	133
C (H6)	110	140	170	220	220	300
D	20	19	20.5	25	28	43
E	82.55	104.78	133.35	171.45	171.45	235
M	4	5	5	5	6	6
G	23	32	37	42	52	62
H	10	12	14	16	21	24
J	33	45	52	75	91	117.5
K	3-M10	6-M10	6-M12	6-M16	6-M16	6-M20
L	2	2	2	2	2	5
F	45	60	66	94	108	139
N max.	26.5	32	38.7	51	61.3	82
N min.	23.8	29.25	35	46.6	56	76.7
O max.	19.75	22.75	29.75	33.75	45.75	46.75
O min.	7.75	9.25	14.75	14.25	15.75	13.75
P max.	1	11	14.5	8.5	8	7
P min.	-9	-1	-1.5	-10.5	-15	-16
S	12	20	30	45	50	60
T	15.5	16	20	22	23	30
U max.	M40x1.5	M55x2	M60x2	M85x2	M100x2	M130x2
W	14	20	25	30	30	43

3-Jaw Wedge Type Non Through-hole Power Chuck (Without Adaptor)

Fig1

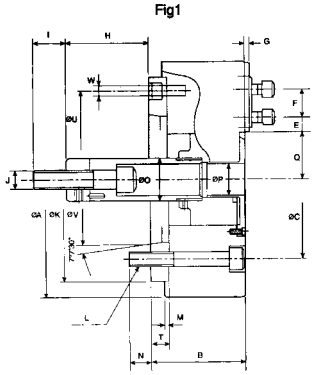
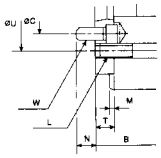
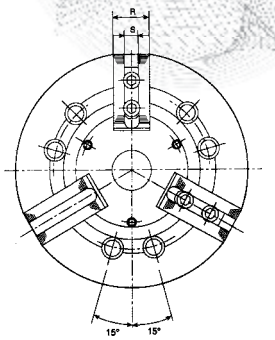


Fig2





- 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

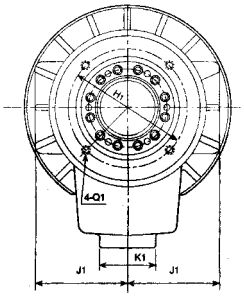
NO. / Dim \ ORDER	V-206A5	V-208A6	V-210A6	V-210A8	V-212A8	V-215A8	V-215A11
Jaw Stroke (mm)	9.2	9.7	8.8	8.8	10.5	16	16
Plunger Stroke (mm)	20	21	25	25	30	35	35
Max. Pull Force (kgf)	1835	2549	2957	2957	4181	8362	8362
Max. Gripping Force (kgf)	5253	7548	10013	10013	15807	25391	25391
Max. Operating Pressure (kgt/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

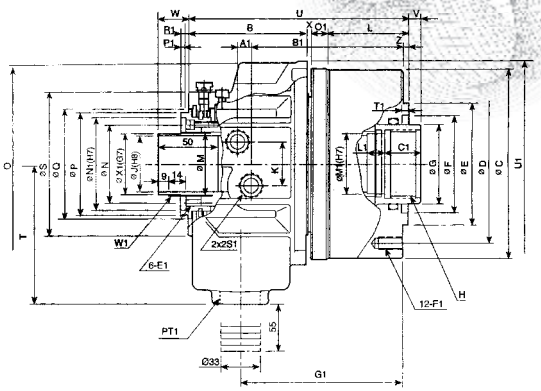
DIMENSIONS

Unit:mm

NO. / Dim \ ORDER	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

Super High Speed Through Hole Rotary Hydraulic Cylinder





- Small-sized light weight:
  Comparing with the traditional product, it is small-sized (reduced to MAX 95mm)and a light weight (weighted MAX 4.5kgs). Make its capacity more slable to reduce the burden of the machinery at high speed turning.
- The most largest bore:
  Comparing with the old product, it has about 20% more bore full diameter for utilizing the capacity of machinery.
- The safety mechanism:
  It can retain the gripping force with a check valve.

SPECIFICATIONS

Dim / ORDER NO.	Piston Dia. (mm)	Piston Area		Piston Stroke (mm)	Max. Draw Bar Pull Force		Max. Operating Pressure (kgf/cm²)	Max. Speed (r.p.m.)	Moment Inertia I (kgf.m²)	Weight (kgs)	Total Leakage (l/min)	CODE NO.
		Push Side (cm²)	Pull Side (cm²)		Push Side KN (kgs)	Pull Side KN (kgs)						
M1036	105	71	68.5	15	24.8(2529)	24(2447)	40.8	8000	0.011	8.6	3.0	5003-001
M1236	125	100	89	15	38(3875)	33(3365)	40.8	7000	0.019	13.0	3.0	5003-002
M1246	125	100	89	15	38(3875)	33(3365)	40.8	7000	0.019	12.0	3.0	5003-003
M1546	155	161	150	22	60(6118)	56(5710)	40.8	6200	0.052	18	3.9	5003-004
M1552	155	161	150	22	60(6118)	56(5710)	40.8	6200	0.052	16.8	3.9	5003-005
M1868	180	198	183	25	75(7546)	69(7036)	40.8	4700	0.095	28.0	4.2	5003-006
M1875	180	198	183	25	75(7546)	69(7036)	40.8	4700	0.095	26.0	4.2	5003-007
M2091	205	252	234	30	94(9585)	88(8973)	40.8	3800	0.15	37.0	4.5	5003-008
M2511	250	348	336	23	124(12644)	120(12236)	40.8	2800	0.45	57	7.0	5003-009

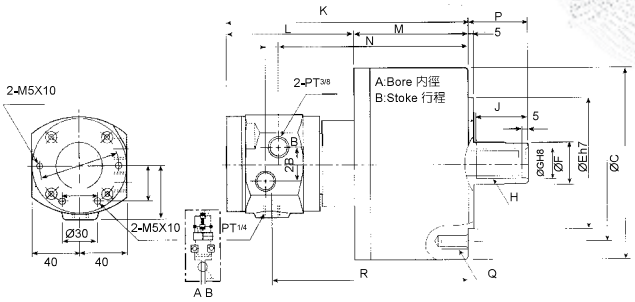
DIMENSIONS

Dim / ORDER NO.	C1	E1	F1	G1	H1	J1	K1	L1	M1	N1	O1	P1	Q1	R1	S1	T1	U1	W1	X1	B	C
M1036	25	M5x0.8	M10x1.5	126	88	68	53	15	38	64	14	4	M5x0.8	4	PT3/8″	6	136	M44x1.5	42	101	136
M1236	30	M6x1.0	M10x1.5	135	98	76	47	15	38	76	14	4	M5x0.8	6	PT1/2″	6	169	M52x1.5	50	99	154.5
M1246	30	M6x1.0	M10x1.5	135	98	76	47	15	50	76	14	4	M5x0.8	6	PT1/2″	6	169	M52x1.5	50	99	154.5
M1546	30	M6x1.0	M10x1.5	145	110	86	47	15	50	85	14	4	M6x1.0	7	PT1/2″	6	187.5	M58x1.5	56	103	190
M1552	30	M6x1.0	M10x1.5	145	110	86	47	15	55	85	14	4	M6x1.0	7	PT1/2″	6	187.5	M58x1.5	56	103	190
M1868	35	M6x1.0	M10x1.5	166.5	155	101	47	15	70	108	16	4	M6x1.0	7	PT1/2″	6	220	M84x2	81	126	215
M1875	35	M6x1.0	M10x1.5	166.5	155	101	47	15	80	108	16	4	M6x1.0	7	PT1/2″	6	220	M84x2	81	126	215
M2091	35	M6x1.0	M12x1.75	183	165	110	47	15	95	120	16	4	M6x1.0	7	PT1/2″	6	267	M99x2	96	141	240
M2511	45	M6x1.0	M16x2.0	197	206	129	55	20	123	160	18	4	M6x1.0	7	PT1/2″	6	294		134.6	186	310

Dim / ORDER NO.	D	E	F	G	H	J	K	L	M	N	O	P	Q	S	T	U	V max	V mix	W max	W mix	X	Z	A1	B1
M1036	115	100	65	48	M42x1.5	36	32	62	44.6	54	126	73	80	104	115	179.5	10	-5	39	24	2.5	5	11	120.5
M1236	130	100	80	65	M42x1.5	36	36	67	52.6	64	166	85	90	118	114	184	10	-5	40	25	4	5	11	126.5
M1246	130	100	80	65	M55x2	46	36	67	52.6	64	166	85	90	118	114	184	10	-5	40	25	4	5	11	126.5
M1546	170	130	85	70	M55x2	46	36	75	59.6	73	184	96	102	137	130	196	17	-5	47	25	4	5	11	136
M1552	170	130	85	70	M60x2	52	36	75	59.6	73	184	96	102	137	130	196	17	-5	47	25	4	5	11	136
M1868	190	160	120	95	M75x2	68	36	84	84.6	98	215	121	131	166	160	230	20	-5	50	25	4	5	17.5	153.5
M1875	190	160	120	95	M85x2	75	36	84	84.6	98	215	121	131	166	160	230	20	-5	50	25	4	5	17.5	153.5
M2091	215	180	140	110	M100x2	91	36	93	99.6	108	264	138	148	182	185	253	25	-5	55	25	3	5	21	168
M2511	275	230	166	140	M130x2	117.5	36	89	134.6	148	362	178		232	215	296	18	-5	38	15	3	6	27	184.5

Non Through Hole Rotary Hydraulic Cylinder (With Valves)

- Built-in safty check valves.



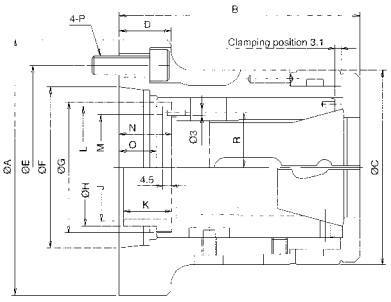
DIMENSIONS

Dim / ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P Max.	P Min.	Q	R	CODE NO.
MS105	105	20	135	100	80	30	21	M20x2.5	35	197	108	89	152	45	25	6-M10x20	158	5003-030
MS125	125	25	160	130	110	35	25	M24x3.0	44	205	108	97	160	51	26	6-M12x24	166	5003-031
MS150	150	30	190	130	110	45	31	M30x3.5	45	214	108	106	169	56	26	12-M12x24	175	5003-032
MS200	200	35	245	145	120	55	37	M36x4.0	60	228	108	122	183	69	34	12-M16x30	189	5003-033

SPECIFICATIONS

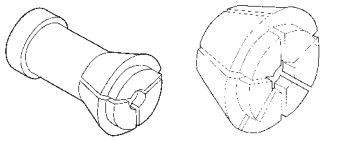
Dim / ORDER NO.	Piston Area		Max. Draw Bar Pull Pull Side KN (kgf)	Piston Stroke (mm)	Max.Speed (r.p.m.)	Max. Operating Pressure (kgf/cm²)	Total Leakage (l/min)	Moment Inertia I (kgf.m²)	Weight (kgs)
	Push Side (cm²)	Pull Side (cm²)							
MS105	86	79	29(2957)	20	6000	4.0(40.8)	0.8	0.0125	7.1
MS125	122	113	42(4283)	25	6000	4.0(40.8)	0.8	0.0225	10
MS150	176	160	60(6118)	30	5500	4.0(40.8)	0.8	0.0475	13.5
MS200	314	290	108(11013)	35	5500	4.0(40.8)	0.8	0.0975	22

Collet Chucks



Please use DIN6343 collets

collet illustration



Spring Collet

Multi-Bore Collet

Holding Range

CHUCK NO.	MULTIBORE				SPRING COLLET			
	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

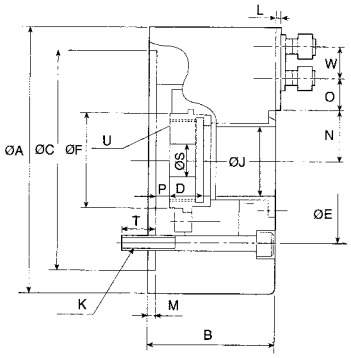
DIMENSIONS

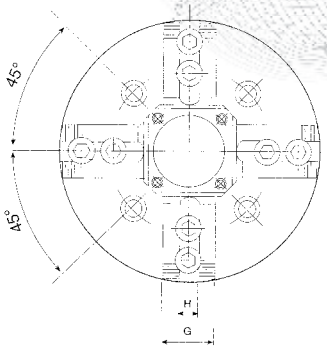
ORDER NO.	A	B	C	D	E	F	G	H	J Max.	K	L	M	N	O	P	R
CR42A5	135	124	100	27	104.78	82.563	M66xP1.5	60	M55xP20	25	62.5	54	27.4	19.4	M10	28
CR42A6	170	124	100	32	133.35	106.375	M66xP1.5	66	M60xP20	25	62.5	54	27.4	19.4	M12	28
CR60A6	170	145	130	27	133.35	106.375	M90xP1.5	67.5	M60xP20	30	83	77	29.9	21.9	M12	39.5

SPECIFICATIONS

ORDER NO.	Diameter of Shanlt	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

4-Jaw Wedge Type Trough Hole Power Chuck (Without Adaptor)





DIMENSIONS

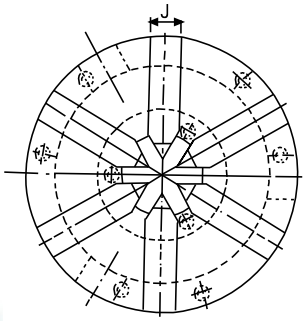
ORDER NO.	A	B	C (H6)	D	E	M	G	H	J	K	L	F	N Max.	N Min.	O Max.	O Min.	P Max.	P Min.	S	T	U	W
VNIT-208	210	91	170	20.5	133.35	5	37	14	52	4-M12	2	66	38.7	35	29.75	14.75	14.5	1.5	30	20	M60x2	25
VNIT-210	254	100	220	25	171.45	5	42	16	75	4-M16	2	94	51	46.6	33.75	14.75	8.5	-10.5	45	22	M85x2	30
VNIT-212	304	110	220	28	171.45	6	52	21	91	4-M16	2	108	61.3	56	45.75	15.75	8	-15	50	23	M100x2	30
VNIT-215	381	133	300	43	235	6	62	24	117.5	4-M20	5	139	82	76.7	46.75	13.75	7	-16	60	30	M130x2	43

SPECIFICATIONS

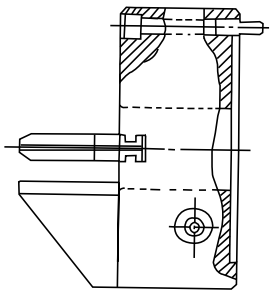
ORDER NO.	Through-Hole (mm)	Plunger Stroke (mm)	Jaw Stroke (mm)	Max. Draw Bar Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Speed (r.p.m.)	Weight (kgs)	Matching Cylinder	Max. Operating Pressure (kgf/cm²)	CODE NO.
VNIT-208	Ø52	16	7.4	2294	5716	4900	24	M1552	17.3	5003-050
VNIT-210	Ø75	19	8.8	2906	7546	4200	36	M1875	18.4	5003-051
VNIT-212	Ø91	23	10.6	3739	9789	3300	58.5	M2091	18.4	5003-052
VNIT-215	Ø117.5	23	10.6	6828	12236	2500	114	M2511	15.3	5003-053

6-Jaw Awl Type Chucks

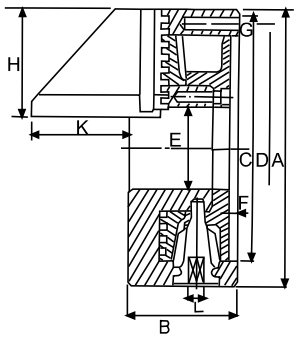
Scroll Chucks Series



Front Hole Type



Back Hole Type



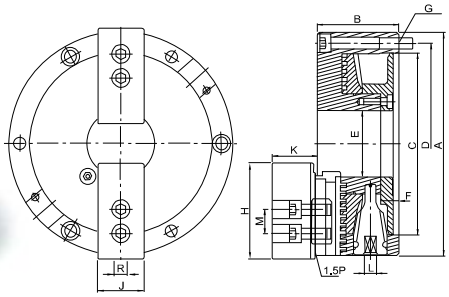
SPECIFICATIONS

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 O.D. Clamping	CODE NO.
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

2-Jaw Steel Body Chucks

Steel Body Chucks Series



Steel Body Chucks:

- Hard jaws and soft jaws can be adjusted just like on a Hydraulic power Chuck to increase the gripping range.
- Hard jaws as well as Soft jaws are interchangeable with those of CNC Lathes.
- Can be used as a “Forming plate” for machining soft Jaws.
- The Chuck Handle can be operated easily and smoothly.
- Chuck Body is made by steel to enhance safety operations for high speed machining.

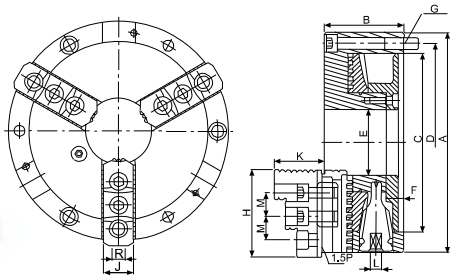
SPECIFICATIONS

Unit:mm

ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	M	R	Gross Weight (kgs)	Max. Speed (r.p.m.)	Max. Gripping Diameter		CODE NO.
																O.D. Clamping	I.D. Clamping	
VTNT-07	193	78	155	172	58	5	3-M10	90	42	44	11	20	12	15.8	3200	Ø8~Ø235	Ø66~Ø235	5005-031
VTNT-09	233	85	190	210	70	6	3-M12	100	48	47	12	25	14	24.5	2800	Ø11~Ø280	Ø85~Ø280	5005-032

3-Jaw Steel Body Chucks

Steel Body Chucks Series



Steel Body Chucks:

- Chuck Body is made by steel to enhance safety operations for high speed machining.
- Hard jaws as well as Soft jaws are interchangeable with those of CNC Lathes.
- The Chuck Handle can be operated easily and smoothly.
- Can be used as a “Forming plate” for machining soft jaws.
- Hard jaws and soft jaws can be adjusted just like on a Hydraulic power Chuck to increase the gripping range.

SPECIFICATIONS

Unit:mm

ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	M	R	Gross Weight (kgs)	Max. Speed (r.p.m.)	Max. Gripping Diameter		CODE NO.
																O.D. Clamping	I.D. Clamping	
VNT-07	193	78	155	172	58	5	3-M10	78	28	46	11	20	12	14.8	3200	Ø8~Ø235	Ø66~Ø235	5005-040
VNT-09	233	85	190	210	70	6	3-M12	92	32	53	12	25	14	23.4	2800	Ø11~Ø280	Ø85~Ø280	5005-041
VNT-10	273	91	230	250	89	6	3-M12	104	37	56	12	30	16	32	2400	Ø12~Ø330	Ø92~Ø330	5005-042
VNT-12	310	104	260	285	105	7	3-M12	118	47	67	14	30	21	46	2100	Ø15~Ø370	Ø104~Ø370	5005-043

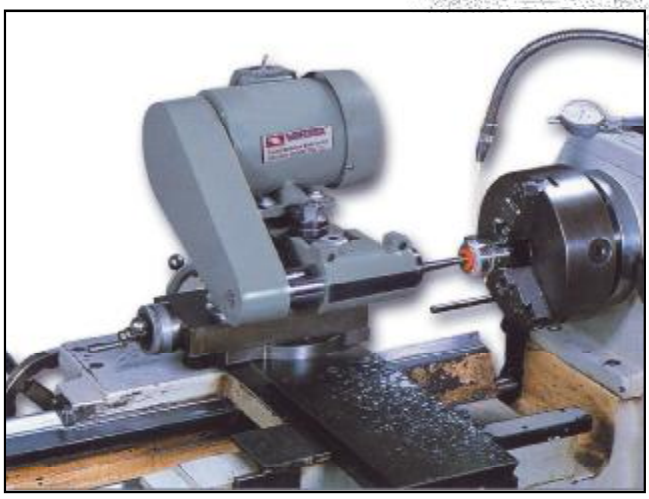
ILLUSTRATE:

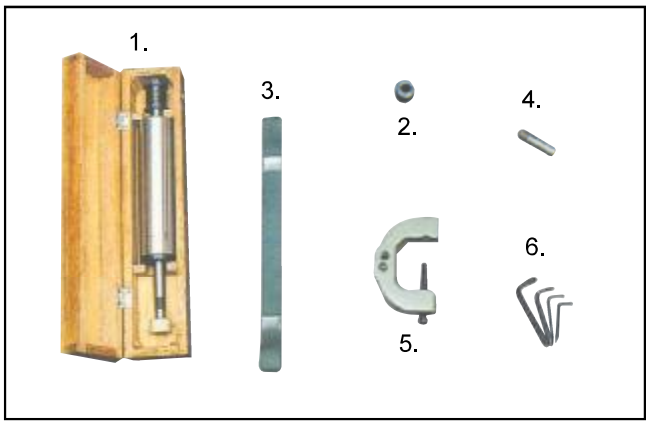
Can for more large capacity.

The hard jaw & soft jaw is same as hydraulic power chuck

Tool Post Grinder ON Lathe

For Internal Grinding





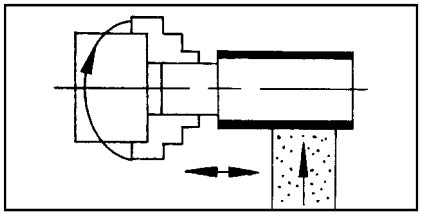
Standard Accessories

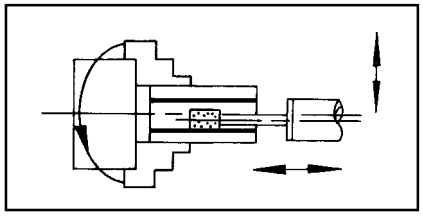
1.Internal Spindle 1
2.Pulley for Internal Grinding 2
3.Flat Belt 1
4.Diamond tool 1
5.Holder for Diamond Tool 1
6.key Folds (8, 5, 3, 2mm) 4

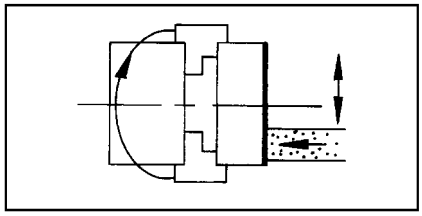
Characteristic Features

- Both the main shafts have been specially designed, and the world-wide precision bearing is used to fit the main shafts which are made of alloy steel heat-treated for high wear resistance, precision, as well as maintaining to the lowest temperature for durability and stability.
- The motor base and the spindle bushing are adjustable.
- The motor is well designed with a special and nice appearance, The R.P.M. of this motor varied depending on the size of the workpiece.
- This grinder is capable of grinding the work piece to a minimum of 3 mm in outer diameter and from 2mm up in inner diameter (bore) with the accuracy within 0.003mm and a well finished surface. (supplied with special attachments).
- The spindle bushing is made of cast iron, and supported by three surfaces. Therefore, it is durable and elastic.
- Materials such as steel, iron, copper (brass), aluminum, cast iron, plastics, procelain, marble, regardless of being heat treated or not, can be ground on this machine which functions lie a cylindrical grinder. So it may lower the cost of the production.
  We assure you of high quality products.

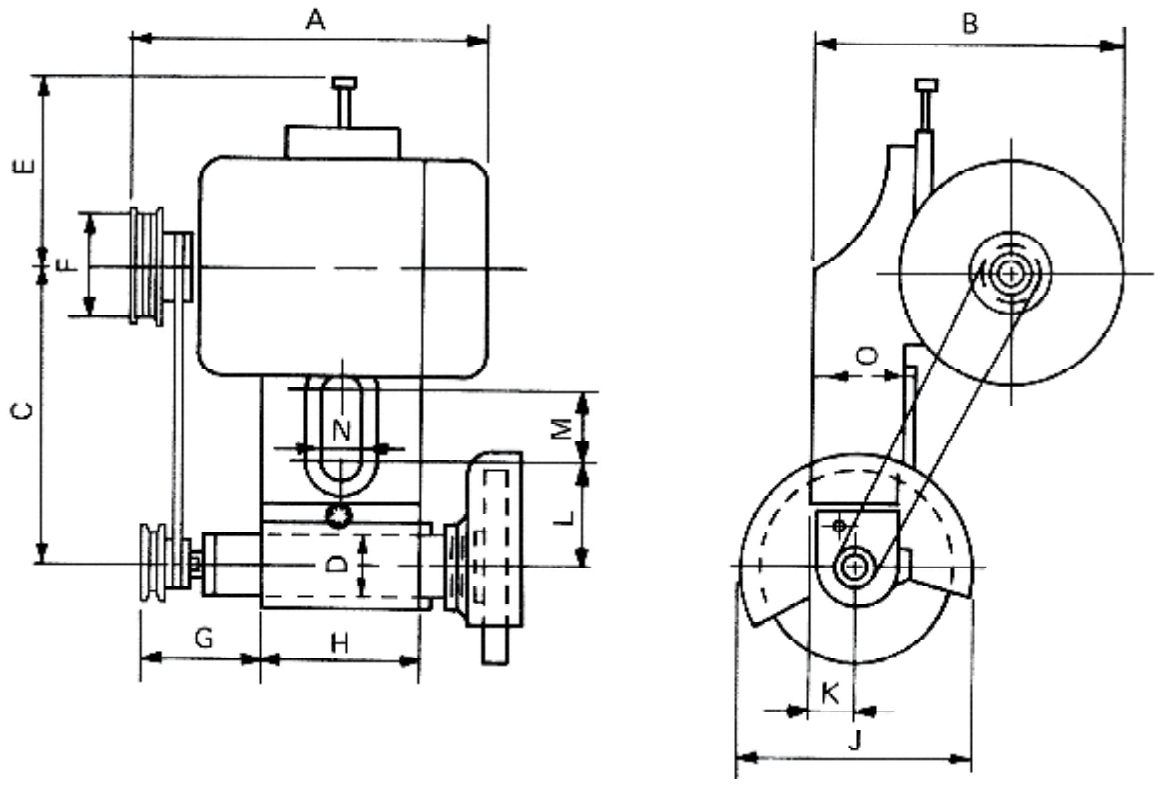
※ Types of Grinding For Work Pieces







Tool Post Grinder ON Lathe



ORDER NO.	Main Dimension. (mm)														Net Weight (kgs)	Packing Size (mm)
	A	B	C	D	E	F	G	H	J	K	L	M	N	O		
VGR-185	352	350	300-340	80	180	138	85	190	330	45-70	140	40	32	120	80	700x500x520
VGR-175	315	300	260-320	60	170	138	120	104	280	45-70	135	40	30	92	75	650x460x460
VGR-165	280	275	260-310	50	160	110	65	102	230	40-65	105	40	30	85	48	520x430x350
VGR-150	280	275	250-300	48	160	110	65	102	150	40-65	105	40	30	85	38	520x430x350
VGR-125	270	230	230-280	48	-	110	65	92	150	34-58	90	15	25	75	35	520x430x350
VGR-100	235	200	170	40	-	110	50	80	150	28	45	10	25	64	24	450x320x340

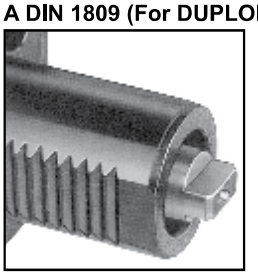
ORDER NO.	HP	External Spindle			Internal Spindle				Grinder on Lather (Length of Bed of Lather) Ft.	Swing m/m	CODE NO.
		Size of Wheel dia x width-hole	(R.P.M.) Non-load Speed		Diameter to be ground	Size of Wheel dia x width x hole	(R.P.M.) Non-load Speed		Grinding Depth (mm)		
			60 cycle	50 cycle							
			1930	1600							
VGR-185	3	12″x1″x1″			-	-	-	-	-	over 12	800-1800	5004-001
VGR-175	2	10″x1″x1″	2300	1930	-	-	-	-	-	10-12	700-1700	5004-002
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

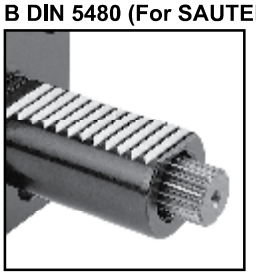
DIN69880

A DIN 1809 (For DUPLOMATIC)



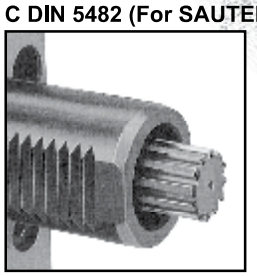
Coupling to DIN 1809

B DIN 5480 (For SAUTER/DUPLOMATIC)



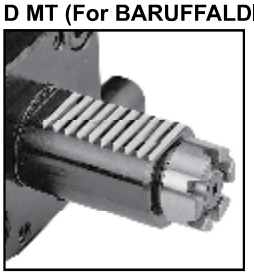
Coupling to DIN 5480

C DIN 5482 (For SAUTER/DUPLOMATIC)



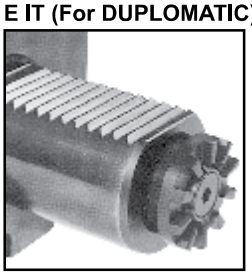
Coupling to DIN 5482

D MT (For BARUFFALDI)



Spur Coupling

E IT (For DUPLOMATIC)



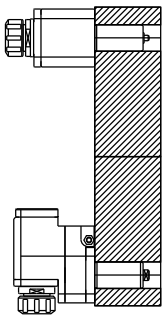
Spur Coupling

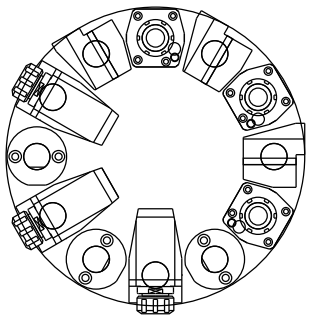
VDI Tool Holders

Tool Holders Direction System

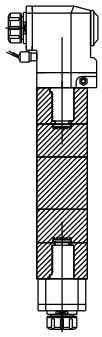
DIN69880

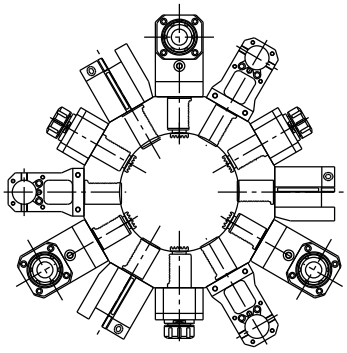
A: Axial Direction



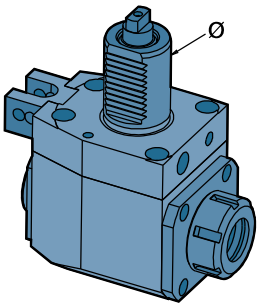


B: Radial Direction (Star Turret)



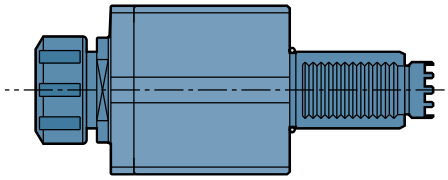


Model



DA

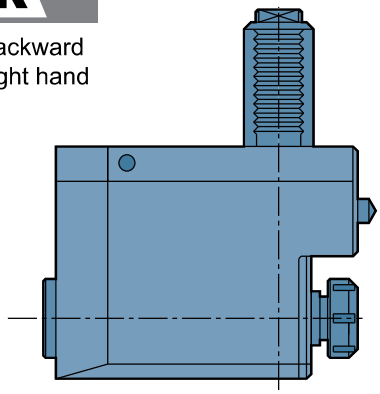
Stright Direct Drive



	VDI 20	VDI 30	VDI 40	VDI 50
SHAFT DIA.	20	30	40	50

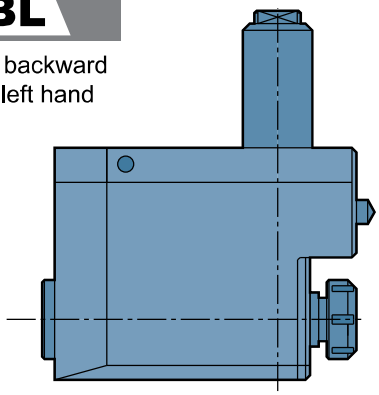
BR

B: backward
R: right hand



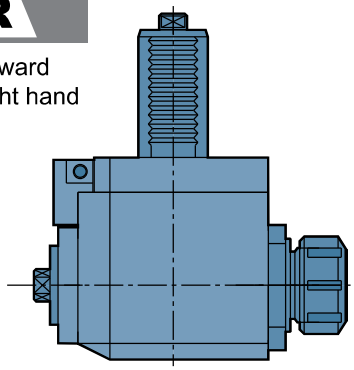
BL

B: backward
L: left hand



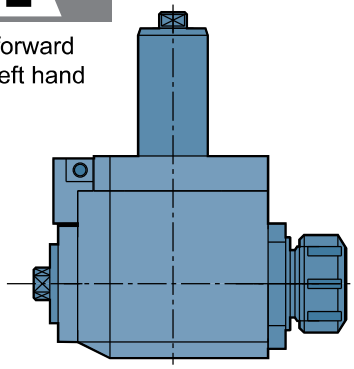
FR

F: forward
R: right hand



FL

F: forward
L: left hand



TXX

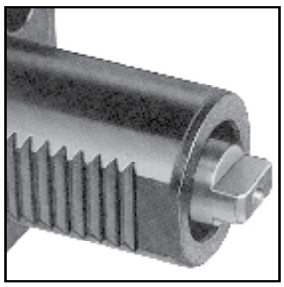
T: Tapping

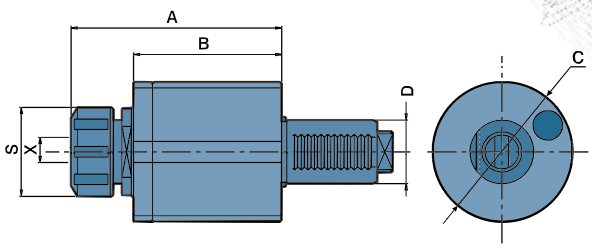
EX:

- BR4018093290 it's VDI 40, right hand, coupling type 1809, backward come with ER 32 nut. P.C.D. is 90mm
- FL3054822555 it's VDI 30 left hand coupling type 5482 (B15x12) forward, come with ER 25 nut. P.C.D. is 55mm

Axial Drilling And Milling Heads

DIN 1809





Power Transmission According To DIN 1809

- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA20180916	20	1-10 ER16	32	6000	1 : 1	77	49	58	5006-001
DA30180925	30	1-16 ER25	42	6000	1 : 1	101	70	68	5006-002
DA40180932	40	2-20 ER32	50	6000	1 : 1	89	55	86	5006-003
DA50180940	50	3-26 ER40	63	6000	1 : 1	120	81.5	96	5006-004
DA60180950	60	10-34 ER50	78	6000	1 : 1	140	88.5	116	5006-005

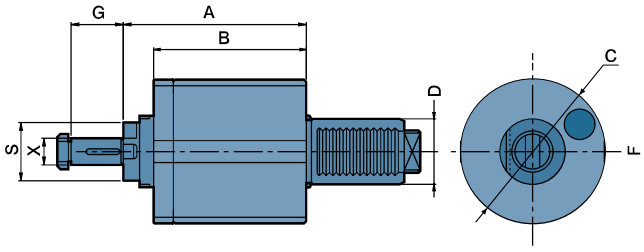
Axial Tapping Heads

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
TDA30180916	30	1-10 ER16	32	3000	1 : 1	103	70	68	5006-006
TDA40180920	40	1-13 ER20	35	3000	1 : 1	112	74	86	5006-007
TDA50180925	50	1-16 ER25	42	3000	1 : 1	121	81.5	96	5006-008
TDA60180932	60	2-20 ER32	50	3000	1 : 1	147	88.5	116	5006-009

Axial Milling Heads

DIN 1809



- External coolant and intermediate rings supply
- To be used for cutter arbor according to DIN 6358

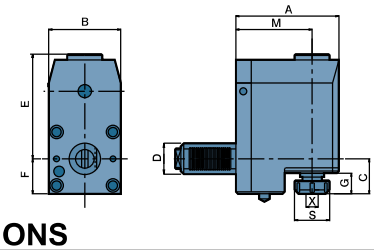
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	CODE NO.
DA30180916C	30	16	32	3000	1 : 1	91.5	70	68	27	5006-010
DA40180922C	40	22	32	3000	1 : 1	68.5	55	86	31	5006-012
DA50180922C	50	22	40	3000	1 : 1	117	81.5	96	31	5006-013
DA50180927C	50	27	40	3000	1 : 1	117	81.5	96	33	5006-014

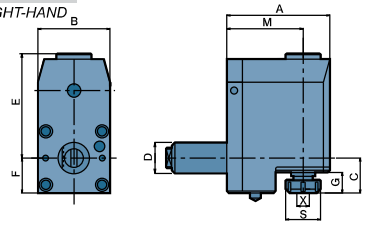
Radial Drilling And Milling Heads-Back Ward Type

DIN 1809

MODE: BL
LEFT-HAND



MODE: BR
RIGHT-HAND



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
BR2018091657 BL2018091657	20	1-10 ER16	30	5000	1 : 1	83	50	43	70	27	27	60	5006-015
BR3018092569 BL3018092569	30	1-16 ER25	42	5000	1 : 1	95	60	41.5	75.5	31.5	29	69	5006-016
BR4018093290 BL4018093290	40	2-20 ER32	50	5000	1 : 1	124	80	44	110	42	34	90	5006-017
BR5018094090 BL5018094090	50	3-26 ER40	63	5000	1 : 1	129	86	49	112	45	39	90	5006-018
BR60180950102 BL60180950102	60	10-34 ER50	78	5000	1 : 1	147	104	83	118	54	42	106	5006-019

Radial Tapping Heads-Back Ward Type

DIN 1809

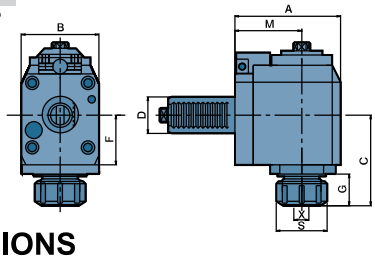
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
TBR3018091669 TBL3018091669	30	1-10 ER16	32	3000	1 : 1	95	60	44	75.5	31.5	32	69	5006-020
TBR4018092090 TBL4018092090	40	1-13 ER20	35	3000	1 : 1	124	80	50	110	42	34	90	5006-021
TBR5018092590 TBL5018092590	50	1-16 ER25	42	3000	1 : 1	129	86	54	112	45	36	90	5006-022
TBR60180932102 TBL60180932102	60	2-20 ER32	50	3000	1 : 1	147	104	87	118	54	40	106	5006-023

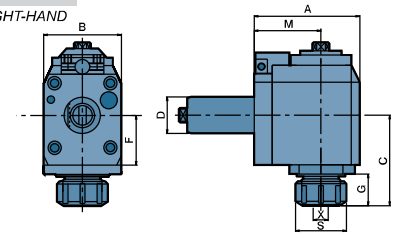
Radial Drilling And Milling Heads

DIN 1809

MODE: FL
LEFT-HAND



MODE: FR
RIGHT-HAND



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
FR3018092555 FL3018092555	30	1-16 ER25	42	5000	1 : 1	87	64	74.5	41	26	55	5006-024
FR4018093265 FL4018093265	40	2-20 ER32	50	5000	1 : 1	99	80	71	40	23	65	5006-025
FR5018094075 FL5018094075	50	3-26 ER40	63	5000	1 : 1	115	88	103	56	40	75	5006-026

Radial Tapping Heads

DIN 1809

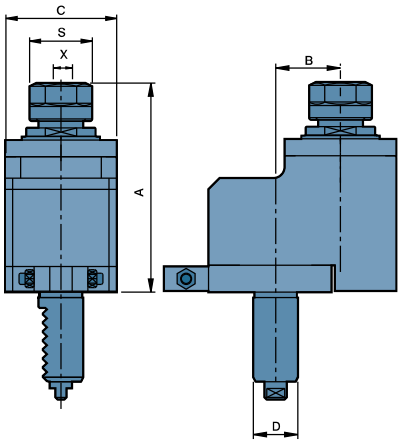
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
TFR3018091655 TFL3018091655	30	1-10 ER16	30	3000	1 : 1	87	64	75	41	30	55	5006-027
TFR4018092065 TFL4018092065	40	1-13 ER20	35	3000	1 : 1	99	80	70	40	25	65	5006-028
TFR5018092575 TFL5018092575	50	1-16 ER25	42	3000	1 : 1	115	88	103	56	42	75	5006-029

Axial Drilling And Milling Heads

OFFSET

DIN 1809



- Collet is not included
- To be used for collet DIN 6499
- External coolant supply

DIMENSIONS

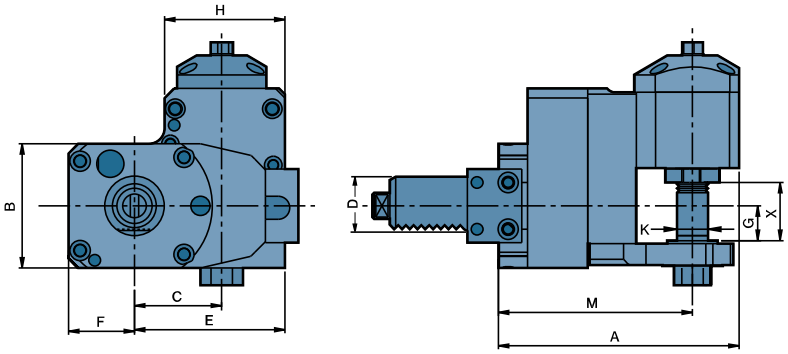
i is speed ratio example:1:2. It's 2 times of speed

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA2018091629	20	1-10 ER16	30	4000	1 : 1	93.5	29	50	5006-030
DA3018092529	30	1-16 ER25	42	4000	1 : 1	100	29	60	5006-031
DA3018092529/1	※30	1-16 ER25	42	8000	1 : 2	100	29	60	5006-032
DA4018093250	40	2-20 ER32	50	4000	1 : 1	113	50	80	5006-033
DA5018094065	50	3-26 ER40	63	3000	1 : 1	124	65	86	5006-034

Radial Milling Heads

DISK CUTTER UNITS

DIN 1809



- External coolant supply

DIMENSIONS

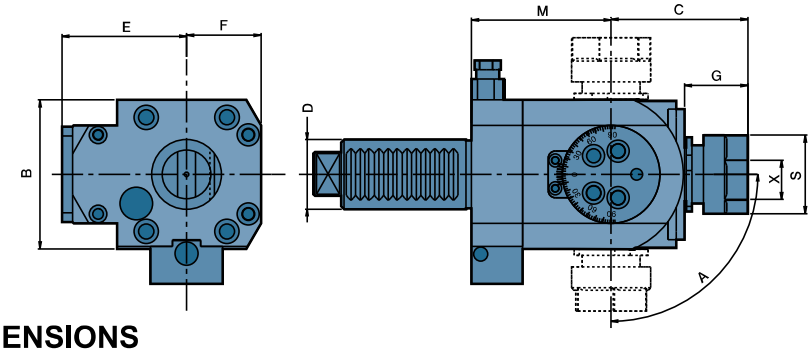
i;(3:1),It's 3 times of speed decrease

ORDER NO.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	CODE NO.
BR30180916C/3 BL30180916C/3	30	29	3000	3 : 1	124	64	45	77.5	34	18	62	16	100	5006-035

Angular Heads

THE ANGLE IS ADJUSTED

DIN 1809



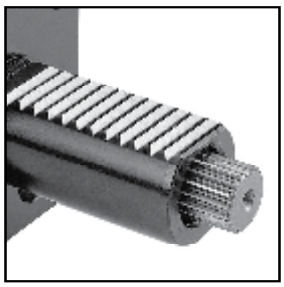
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

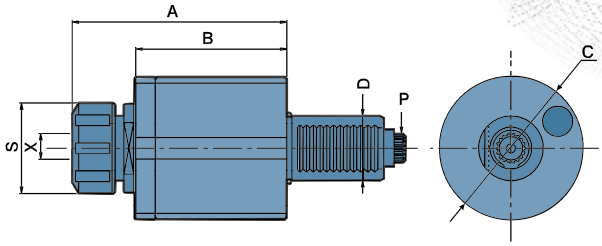
ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
DA30180920B	30	1-13 ER20	35	4000	1 : 1	±90°	64	58.5	53.5	32	27	60	5006-036A

Axial Drilling And Milling Heads

DIN 5480



Power Transmission According To DIN 5480



- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5480	CODE NO.
DA30548025	30	1-16 ER25	42	6000	1 : 1	101	70	68	W16X0.8	5006-037
DA40548032	40	2-20 ER32	50	6000	1 : 1	90	55	86	W20X0.8	5006-038

Axial Tapping Heads

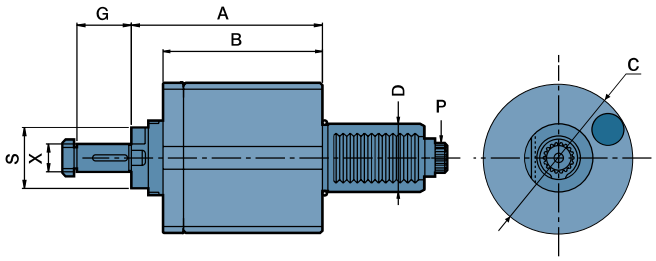
DIN 5480

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5480	CODE NO.
TDA30548016	30	1-10 ER16	30	3000	1 : 1	105	70	68	W16X0.8	5006-039A
TDA40548020	40	1-13 ER20	35	3000	1 : 1	93	55	86	W20X0.8	5006-040A

Axial Milling Heads

DIN 5480



- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply

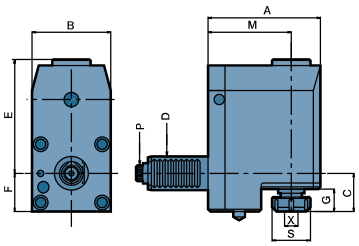
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	P DIN 5480	CODE NO.
DA30548016C	30	16	32	3000	1 : 1	91.5	70	68	27	W16X0.8	5006-041
DA40548016C	40	16	32	3000	1 : 1	68.5	55	86	27	W20X0.8	5006-042
DA40548022C	40	22	32	3000	1 : 1	68.5	55	86	31	W20X0.8	5006-043

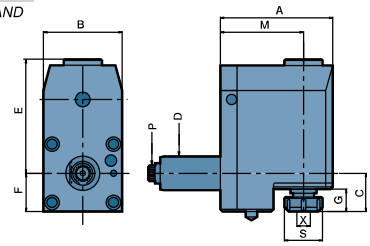
Radial Drilling And Milling Heads-Backward Type

SET BACK **DIN 5480**

MODE: BL
LEFT-HAND



MODE: BR
RIGHT-HAND



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5480	CODE NO.
BR3054802569 BL3054802569	30	1-16 ER25	42	5000	1 : 1	95	60	42	75.5	31.5	28.5	69	W16X0.8	5006-044
BR4054803290 BL4054803290	40	2-20 ER32	50	5000	1 : 1	124	80	44	110	42	34	90	W20X0.8	5006-045

Radial Tapping Heads-Set Back

DIN 5480

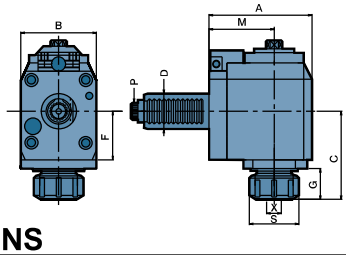
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5480	CODE NO.
TBR3054801669 TBL3054801669	30	1-10 ER16	30	3000	1 : 1	95	60	44	75.5	31.5	32	69	W16X0.8	5006-046
TBR4054802090 TBL4054802090	40	1-13 ER20	35	3000	1 : 1	124	80	50	110	42	34	90	W20X0.8	5006-047

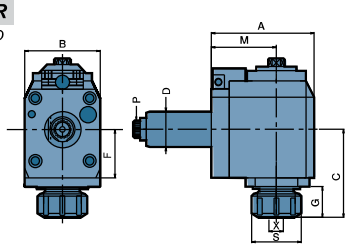
Radial Drilling And Milling Heads

DIN 5480

MODE: FL
LEFT-HAND



MODE: FR
RIGHT-HAND



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5480	CODE NO.
FR3054802555 FL3054802555	30	1-16 ER25	42	5000	1 : 1	97	64	74.5	41	26	55	W16X0.8	5006-048
FR3054802585 FL3054802585	30	1-16 ER25	42	5000	1 : 1	117	64	74.5	41	26	85	W16X0.8	5006-049
FR4054803265 FL4054803265	40	2-20 ER32	50	5000	1 : 1	99	80	71	40	23	65	W20X0.8	5006-050
FR4054803285 FL4054803285	40	2-20 ER32	50	5000	1 : 1	119	80	71	40	23	85	W20X0.8	5006-051
FR40548032100 FL40548032100	40	2-20 ER32	50	5000	1 : 1	134	80	71	40	23	100	W20X0.8	5006-052

Radial Tapping Heads

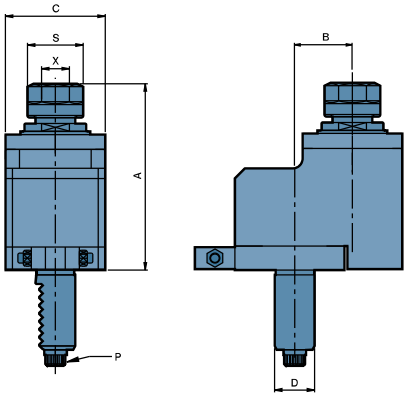
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5480	CODE NO.
TFR3054801665 TFL3054801665	30	1-10 ER16	30	3000	1 : 1	97	64	75	41	30	55	W16X0.8	5006-053
TFR3054801685 TFL3054801685	30	1-10 ER16	30	3000	1 : 1	117	64	75	41	30	85	W16X0.8	5006-054
TFR4054802065 TFL4054802065	40	1-13 ER20	35	3000	1 : 1	99	80	70	40	25	65	W20X0.8	5006-055
TFR4054802085 TFL4054802085	40	1-13 ER20	35	3000	1 : 1	119	80	70	40	25	85	W20X0.8	5006-056

Axial Drilling And Milling Heads-Offset

OFFSET

DIN 5480



- Collet is not included
- To be used for collet DIN 6499
- External coolant supply

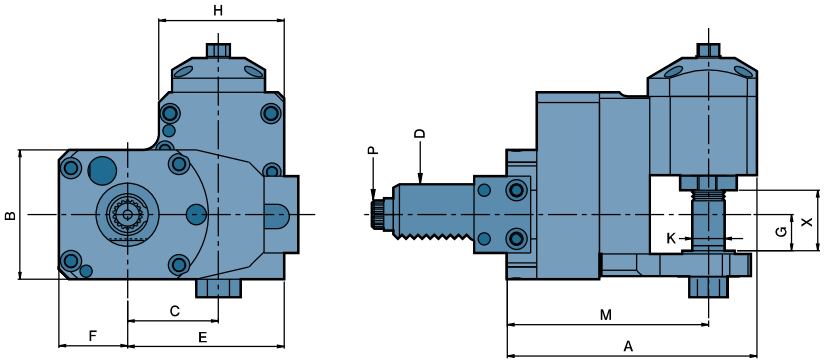
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5480	CODE NO.
DA3054802529	30	1-16 ER25	42	4000	1 : 1	100	29	60	W16X0.8	5006-057
DA3054802529/1	※ 30	1-16 ER25	42	8000	1 : 2	100	29	60	W16X0.8	5006-058
DA4054803250	40	2-20 ER32	50	4000	1 : 1	113	50	80	W20X0.8	5006-059

Radial Drilling And Milling Heads

DISK CUTTER UNITS

DIN 5480



- External coolant supply

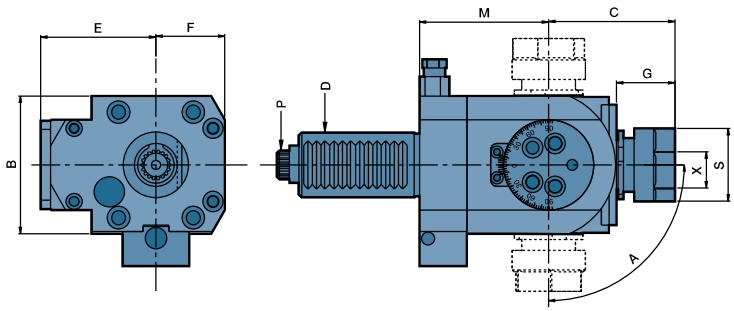
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	P DIN 5480	CODE NO.
BR30548016C/3 BL30548016C/3	30	29	3000	3 : 1	124	64	45	77.5	34	18	62	16	100	W16X0.8	5006-060

Angular Heads

ANGLE IS ADJUSTED

DIN 5480



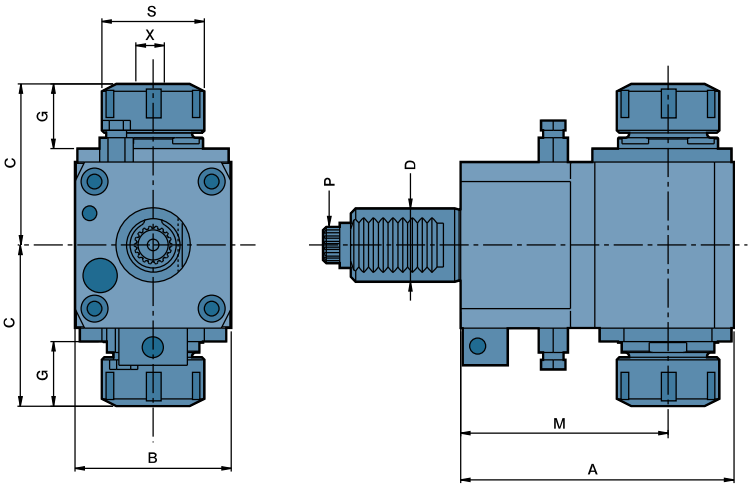
- Collet is not included
- To be used for collet DIN 6499
- External coolant supply

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5480	CODE NO.
DA30548020B	30	1-13 ER20	35	4000	1 : 1	±90°	64	59	54	32	27	67	W16X0.8	5006-061A

Radial Double Drilling And Milling Heads

DIN 5480



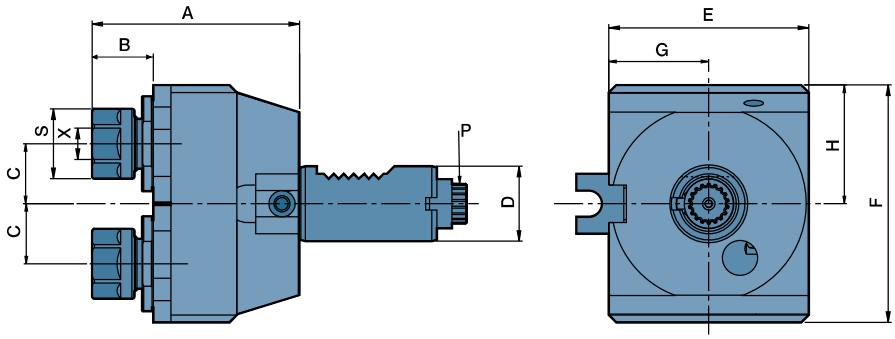
- Collet is not included
- External coolant supply
- To be used for collet DIN 6499

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	M	P DIN 5480	CODE NO.
DF3054802585D	30	1-16 ER25	42	4000	1 : 1	112	64	66	26.5	85	W16X0.8	5006-062
DF4054803285D	40	2-20 ER32	50	4000	1 : 1	119	80	82	28	85	W20X0.8	5006-063
DF40548032100D	40	2-20 ER32	50	4000	1 : 1	134	80	82	28	100	W20X0.8	5006-064

Axial Double Drilling And Milling Heads

DOUBLE COLLETS, Y OFFSET **DIN 5480**



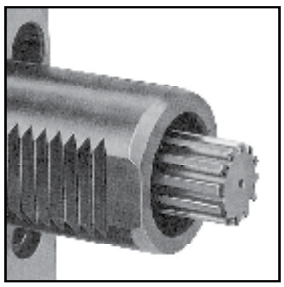
- Collet is not included
- External coolant supply
- To be used for collet DIN 6499

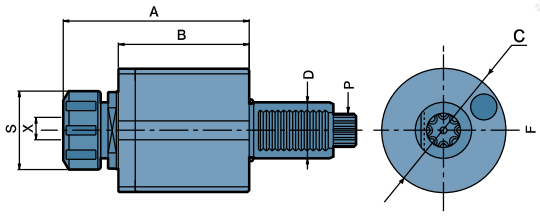
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	H	P DIN 5480	CODE NO.
DA30548016DY	30	1-10 ER16	30	4000	1 : 1	83	24.5	24	80	95	40	47.5	W16X0.8	5006-065

Axial Drilling And Milling Heads

FOR DIN 5482 MACHINE USING **DIN 5482**





Power Transmission According To DIN 5482

- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5482	CODE NO.
DA30548225	30	1-16 ER25	42	6000	1 : 1	101	70	68	B15X12	5006-066
DA40548232	40	2-20 ER32	50	6000	1 : 1	110	73.5	86	B17X14	5006-067
DA50548240	50	3-26 ER40	63	6000	1 : 1	121	81.5	96	B20X17	5006-068
DA60548250	60	10-34 ER50	78	6000	1 : 1	140	88.5	116	B25X22	5006-069

Axial Tapping Heads

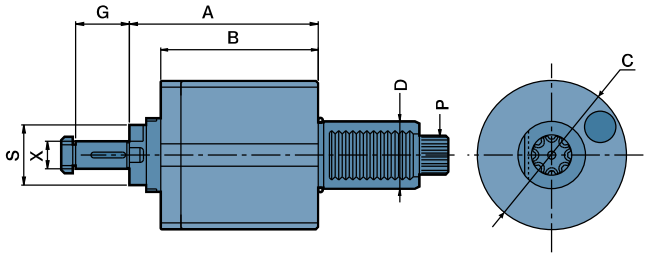
DIN 5482

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5482	CODE NO.
TDA30548216	30	1-10 ER16	30	3000	1 : 1	103	70	68	B15X12	5006-070
TDA40548220	40	1-13 ER20	35	3000	1 : 1	104	73.5	86	B17X14	5006-071
TDA50548225	50	1-16 ER25	42	3000	1 : 1	121	81.5	96	B20X17	5006-072
TDA60548232	60	2-20 ER32	50	3000	1 : 1	147	88.5	116	B25X22	5006-073

Axial Milling Heads

DIN 5480



- External coolant and intermediate rings supply
- To be used for cutter arbor according to DIN 6358

DIMENSIONS

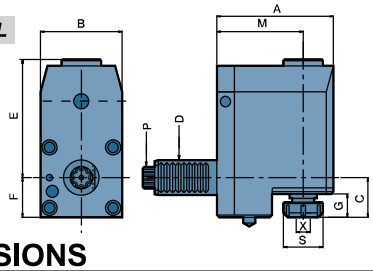
ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	P DIN 5482	CODE NO.
DA30548216C	30	16	32	3000	1 : 1	91.5	70	68	27	B15X12	5006-074
DA40548216C	40	16	32	3000	1 : 1	68.5	55	86	27	B17X14	5006-075
DA40548222C	40	22	32	3000	1 : 1	68.5	55	86	31	B17X14	5006-076
DA50548222C	50	22	40	3000	1 : 1	117	81.5	96	31	B20X17	5006-077
DA50548227C	50	27	40	3000	1 : 1	117	88.5	96	33	B20X17	5006-078

Radial Drilling And Milling Heads

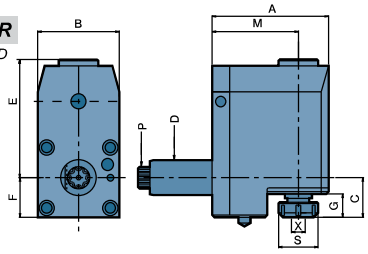
BACKWARDS

DIN 5482

MODE: BL
LEFT-HAND



MODE: BR
RIGHT-HAND



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5482	CODE NO.
BR3054822569 BL3054822569	30	1-16 ER25	42	5000	1 : 1	95	60	42	75.5	31.5	28.5	69	B15X12	5006-079
BR4054823290 BL4054823290	40	2-20 ER32	50	5000	1 : 1	124	80	44	110	42	34	90	B17X14	5006-080
BR5054824090 BL5054824090	50	3-26 ER40	63	5000	1 : 1	129	86	49	112	45	39	90	B20X17	5006-081
BR60548250102 BL60548250102	60	10-34 ER50	78	5000	1 : 1	147	104	83	118	54	42	106	B25X22	5006-082

Radial Tapping Heads-Backwards

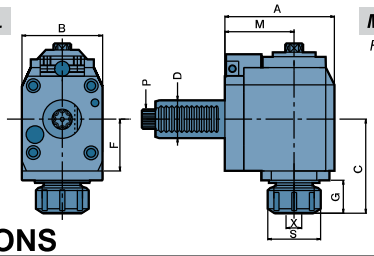
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5482	CODE NO.
TBR3054821669 TBL3054821669	30	1-10 ER16	30	3000	1 : 1	95	60	44	75.5	31.5	32	69	B15X12	5006-083
TBR4054822090 TBL4054822090	40	1-13 ER20	35	3000	1 : 1	24	80	50	110	42	34	90	B17X14	5006-084
TBR5054822590 TBL5054822590	50	2-16 ER25	42	3000	1 : 1	129	86	54	112	45	36	90	B20X17	5006-085
TBR60548232102 TBL60548232102	60	2-20 ER32	50	3000	1 : 1	147	104	87	118	54	40	106	B25X22	5006-086

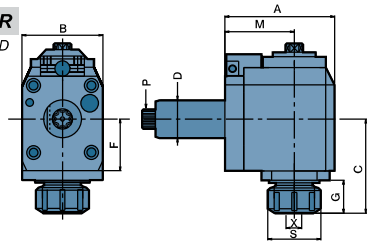
Radial Drilling And Milling Heads

DIN 5482

MODE: FL
LEFT-HAND



MODE: FR
RIGHT-HAND



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5482	CODE NO.
FR3054822565 FL3054822565	30	1-16 ER25	42	5000	1 : 1	97	64	74.5	41	26	65	B15X12	5006-087
FR3054822585 FL3054822585	30	1-16 ER25	42	5000	1 : 1	117	64	74.5	41	26	85	B15X12	5006-088
FR4054823265 FL4054823265	40	2-20 ER32	50	5000	1 : 1	99	80	71	40	23	65	B17X14	5006-089
FR4054823285 FL4054823285	40	2-20 ER32	50	5000	1 : 1	119	80	71	40	23	85	B17X14	5006-090
FR5054824075 FL5054824075	50	3-26 ER40	63	5000	1 : 1	115	88	103	56	40	75	B20X17	5006-091

Radial Tapping Heads

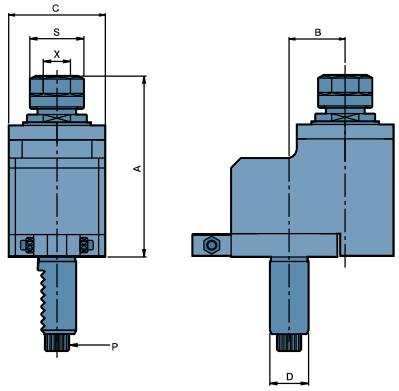
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5482	CODE NO.
TFR3054821665 TFL3054821665	30	1-10 ER16	30	3000	1 : 1	97	64	75	41	30	65	B15X12	5006-092
TFR3054821685 TFL3054821685	30	1-10 ER16	30	3000	1 : 1	117	64	75	41	30	85	B15X12	5006-093
TFR4054822065 TFL4054822065	40	1-13 ER20	35	3000	1 : 1	99	80	70	40	25	65	B17X14	5006-094
TFR4054822085 TFL4054822085	40	1-13 ER20	35	3000	1 : 1	119	80	70	40	25	85	B17X14	5006-095
TFR5054822575 TFL5054822575	50	1-16 ER25	42	3000	1 : 1	115	88	103	56	42	75	B20X17	5006-096

Axial Drilling And Milling Heads

OFFSET TYPE

DIN 5482



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

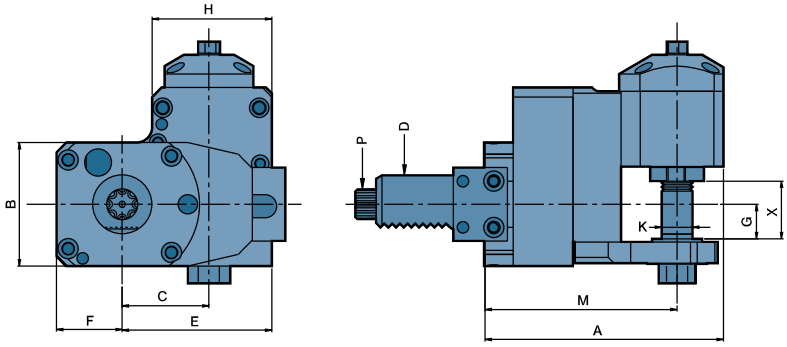
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5482	CODE NO.
DA3054822529	30	1-16 ER25	42	4000	1 : 1	100	29	60	B15X12	5006-097
DA3054822529/1	※ 30	1-16 ER25	42	8000	1 : 2	100	29	60	B15X12	5006-098
DA4054823250	40	2-20 ER32	50	4000	1 : 1	113	50	80	B17X14	5006-099
DA5054824065	50	3-26 ER40	63	3000	1 : 1	124	65	86	B20X17	5006-100

Radial Milling Heads

DISK CUTTER UNITS

DIN 5482



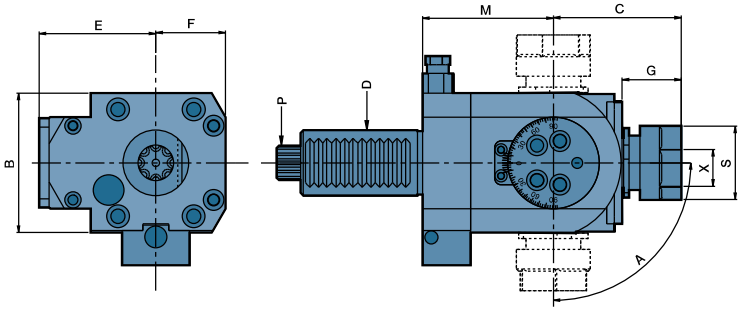
- External coolant supply

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	P DIN 5480	CODE NO.
BR30548216C/3 BL30548216C/3	30	29	3000	3 : 1	124	64	45	77.5	34	18	62	16	100	B15X12	5006-101

Angular Heads

DIN 5482



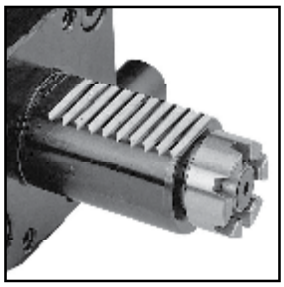
- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

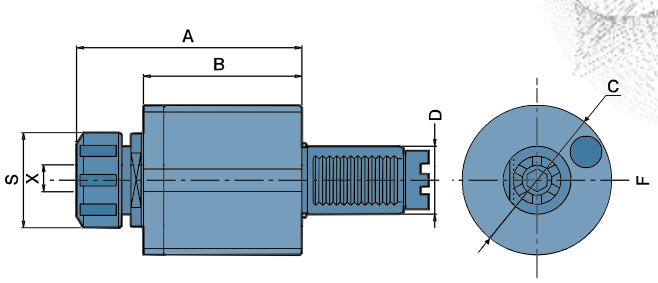
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5482	CODE NO.
DA30548220B	30	1-13 ER20	35	4000	1 : 1	±90°	64	59	54	32	27	60	B15X12	5006-102A

Axial Drilling And Milling Heads-For "Baruffaldi" Type

SPUR COUPLING-MT TYPE





- **Power Transmission According To "BARUFFALDI"**
- **MT: Frontal Transmission Coupling Gear is Fixed Version**

- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA20MT16	20	1-10 ER16	30	6000	1 : 1	76	48	58	5006-103
DA30MT25	30	1-16 ER25	42	6000	1 : 1	86	55	68	5006-104
DA40MT32	40	2-20 ER32	50	6000	1 : 1	89	55	86	5006-105
DA50MT40	50	3-26 ER40	63	6000	1 : 1	118	81.5	96	5006-106

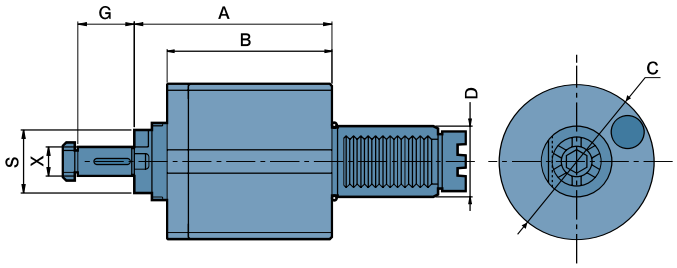
Axial Tapping Heads

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
TDA30MT16	30	1-10 ER16	30	3000	1 : 1	85	55	68	5006-107
TDA40MT20	40	1-13 ER20	35	3000	1 : 1	102	55	86	5006-108
TDA50MT25	50	1-16 ER25	42	3000	1 : 1	122	81.5	96	5006-109

Axial Milling Heads

SPUR COUPLING-MT TYPE



- External coolant and intermediate rings supply
- To be used for cutter arbor according to DIN 6358

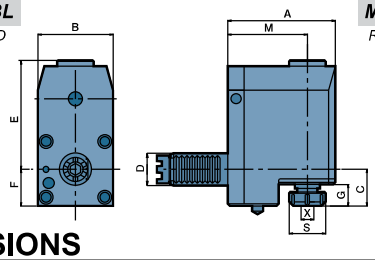
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	CODE NO.
DA30MT16C	30	16	32	3000	1 : 1	91.5	55	68	27	5006-110
DA40MT16C	40	16	32	3000	1 : 1	68.5	55	86	27	5006-111
DA40MT22C	40	22	32	3000	1 : 1	68.5	55	86	31	5006-112
DA50MT22C	50	22	40	3000	1 : 1	117	81.5	96	31	5006-113
DA50MT27C	50	27	40	3000	1 : 1	117	81.5	96	33	5006-114

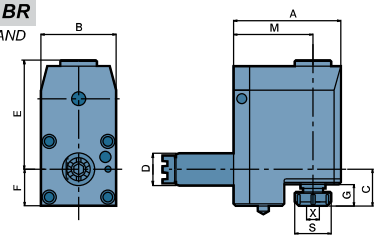
Radial Drilling And Milling Heads-Backwards

SPUR COUPLING-MT TYPE

MODE: BL
LEFT-HAND



MODE: BR
RIGHT-HAND



- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
BR20MT1657 BL20MT1657	20	1-10 ER16	30	5000	1 : 1	83	50	35	70	27	27	60	5006-115
BR30MT2569 BL30MT2569	30	1-16 ER25	42	5000	1 : 1	95	60	42	76	32	29	69	5006-116
BR40MT3290 BL40MT3290	40	2-20 ER32	50	5000	1 : 1	124	80	44	110	42	34	90	5006-117
BR50MT4090 BL50MT4090	50	3-26 ER40	63	5000	1 : 1	129	86	49	112	45	39	90	5006-118

Radial Tapping Heads-Backwards

DIMENSIONS

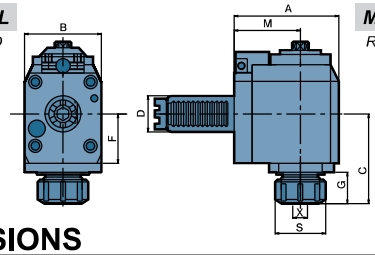
ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
TBR30MT1669 TBL30MT1669	30	1-10 ER16	30	3000	1 : 1	95	60	44	76	32	32	69	5006-119
TBR40MT2090 TBL40MT2090	40	1-13 ER20	35	3000	1 : 1	124	80	50	110	42	34	90	5006-120
TBR50MT2590 TBL50MT2590	50	1-16 ER25	42	3000	1 : 1	129	86	54	112	45	36	90	5006-121

Radial Drilling And Milling Heads

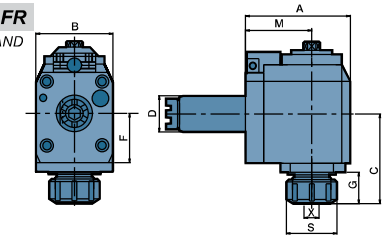
SET BACK

SPUR COUPLING-MT TYPE

MODE: FL
LEFT-HAND



MODE: FR
RIGHT-HAND



- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
FR30MT2565 FL30MT2565	30	1-16 ER25	42	5000	1 : 1	97	64	74.5	41	26	65	5006-122
FR30MT2585 FL30MT2585	30	1-16 ER25	42	5000	1 : 1	117	64	74.5	41	26	85	5006-123
FR40MT3265 FL40MT3265	40	2-20 ER32	50	5000	1 : 1	99	80	71	40	23	65	5006-124
FR40MT3285 FL40MT3285	40	2-20 ER32	50	5000	1 : 1	119	80	71	40	23	85	5006-125
FR40MT32100 FL40MT32100	40	2-20 ER32	50	5000	1 : 1	134	80	71	40	23	100	5006-126
FR50MT4075 FL50MT4075	50	3-26 ER40	60	5000	1 : 1	115	88	103	56	40	75	5006-127

Radial Tapping Heads

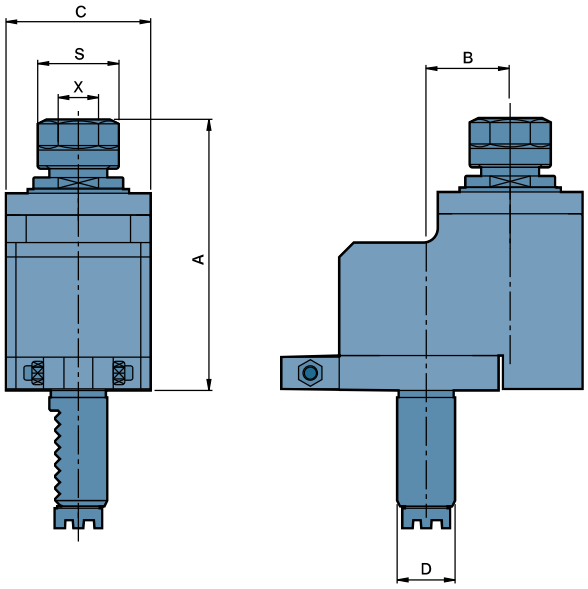
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
TFR30MT1665 TFL30MT1665	30	1-10 ER16	30	3000	1 : 1	97	64	75	41	30	65	5006-128
TFR30MT1685 TFL30MT1685	30	1-10 ER16	30	3000	1 : 1	117	64	75	41	30	85	5006-129
TFR40MT2065 TFL40MT2065	40	1-13 ER20	35	3000	1 : 1	99	80	70	40	25	65	5006-130
TFR40MT2085 TFL40MT2085	40	1-13 ER20	35	3000	1 : 1	119	80	70	40	25	85	5006-131
TFR50MT2575 TFL50MT2575	50	1-16 ER25	42	3000	1 : 1	115	88	103	56	42	75	5006-132

Axial Drilling And Milling Heads

OFFSET TYPE

SPUR COUPLING-MT TYPE



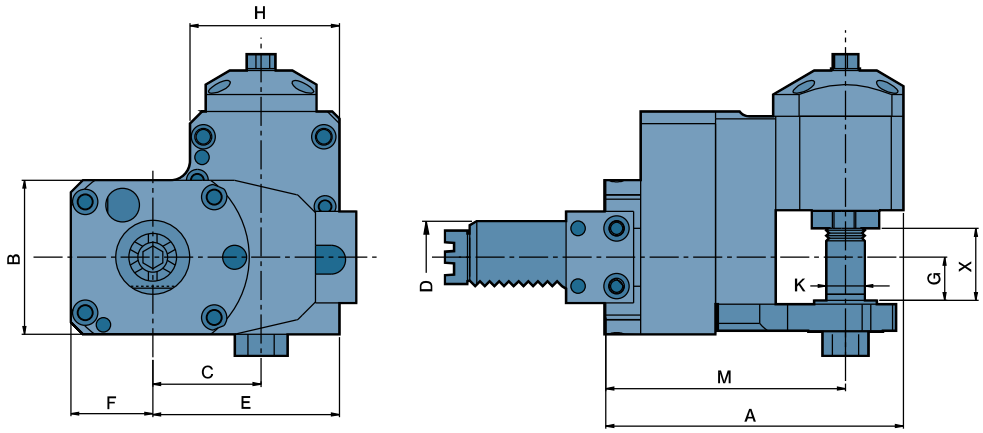
- Collet is not included
- External coolant supply
- To be used for collet DIN 6499

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA20MT1629	20	1-10 ER16	30	4000	1 : 1	93.5	29	50	5006-133
DA30MT2529	30	1-16 ER25	42	4000	1 : 1	100	29	60	5006-134
DA30MT2529/1	※ 30	2-20 ER32	42	8000	1 : 2	100	29	60	5006-135
DA40MT3250	40	2-20 ER32	50	4000	1 : 1	113	50	80	5006-136
DA50MT4065	50	3-26 ER40	63	3000	1 : 1	124	65	86	5006-137

Radial Milling Heads

SPUR COUPLING-MT TYPE



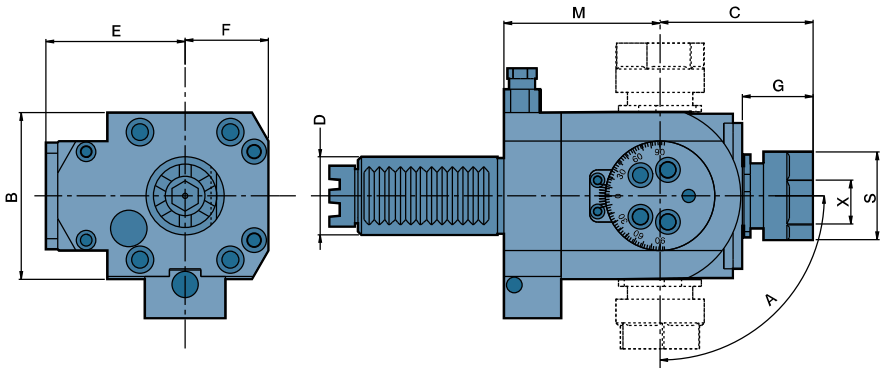
- External coolant supply

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	CODE NO.
BR30MT16C/3 BL30MT16C/3	30	29	3000	3 : 1	124	64	45	77.5	34	18	62	16	100	5006-138

Angular Heads

SPUR COUPLING-MT TYPE



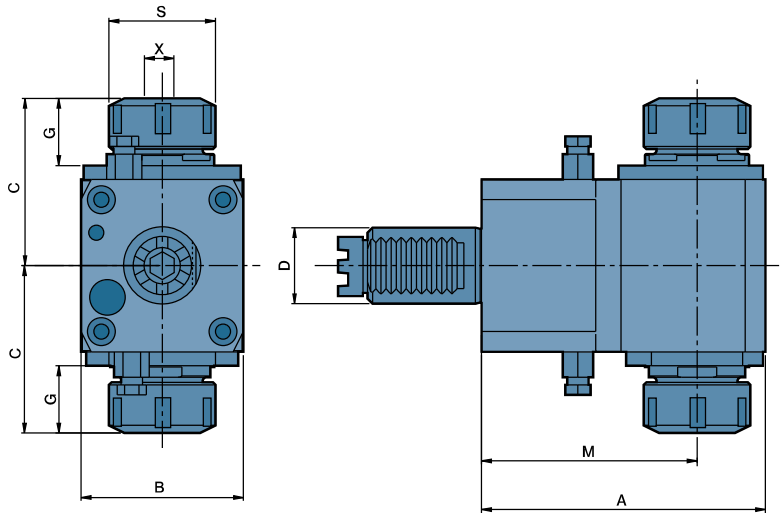
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
DA30MT20B	30	1-13 ER20	35	4000	1 : 1	±90°	64	59	54	32	27	67	5006-139A

Radial Drilling And Milling Heads

DOUBLE HEAD TYPE **SPUR COUPLING-MT TYPE**



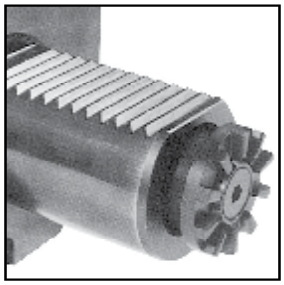
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

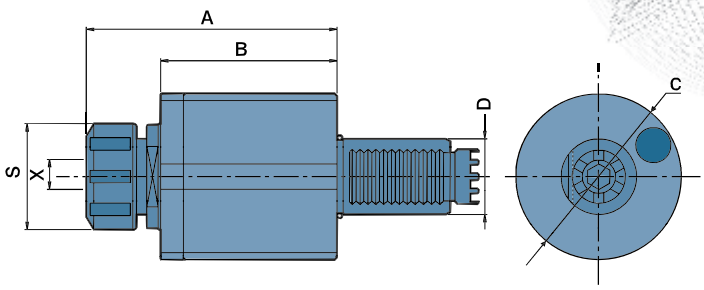
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	M	CODE NO.
DF30MT2585D	30	1-16 ER25	42	4000	1 : 1	112	64	66	27	85	5006-140
DF40MT3285D	40	2-20 ER32	50	4000	1 : 1	119	80	82	28	85	5006-141
DF40MT32100D	40	2-20 ER32	50	4000	1 : 1	134	80	82	28	100	5006-142

Axial Drilling And Milling Heads-For "Duplomatic" Type

SPUR COUPLING-IT TYPE





- **Power Transmission According To "DUPLOMATIC"**
- **IT: Fron-side Coupling is Elastic Stroke**

- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA30IT25	30	1-16 ER25	42	6000	1 : 1	86	55	68	5006-143
DA40IT32	40	2-20 ER32	50	6000	1 : 1	89	55	86	5006-144

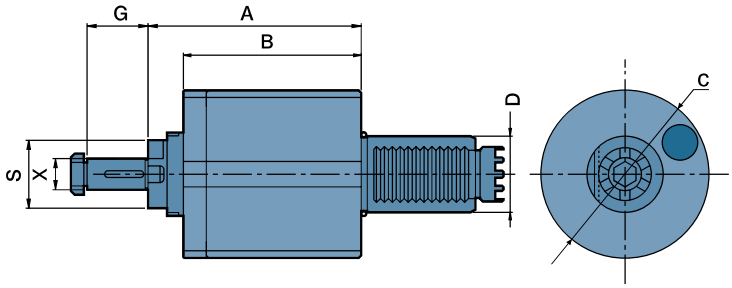
Axial Tapping Heads

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
TDA30IT16	30	1-10 ER16	30	3000	1 : 1	85	55	68	5006-146
TDA40IT20	40	1-13 ER20	35	3000	1 : 1	102	55	86	5006-147

Axial Milling Heads

SPUR COUPLING-IT TYPE



- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply

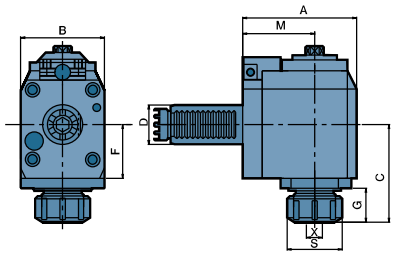
DIMENSIONS

ORDER NO.	D DIN 69880	X DIN 6358	S	Maximum R.P.M.	i	A	B	C	G	CODE NO.
DA30IT16C	30	16	32	3000	1 : 1	91.5	55	68	27	5006-149
DA40IT16C	40	16	32	3000	1 : 1	68.5	55	86	27	5006-150
DA40IT22C	40	22	32	3000	1 : 1	68.5	55	86	31	5006-151

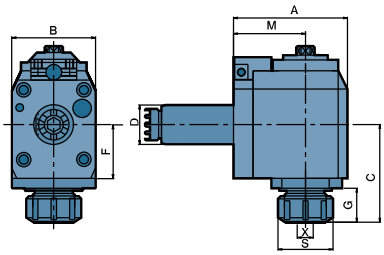
Radial Drilling And Milling Heads

SPUR COUPLING-IT TYPE

MODE: FL
LEFT-HAND



MODE: FR
RIGHT-HAND



- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
FR30IT2565 FL30IT2565	30	1-16 ER25	42	5000	1 : 1	97	64	74.5	41	26	65	5006-154
FR30IT2585 FL30IT2585	30	1-16 ER25	42	5000	1 : 1	117	64	74.5	41	26	85	5006-155
FR40IT3265 FL40IT3265	40	2-20 ER32	50	5000	1 : 1	99	80	71	40	23	65	5006-156
FR40IT3285 FL40IT3285	40	2-20 ER32	50	5000	1 : 1	119	80	71	40	23	85	5006-157
FR40IT32100 FL40IT32100	40	2-20 ER32	50	5000	1 : 1	134	80	71	40	23	100	5006-158

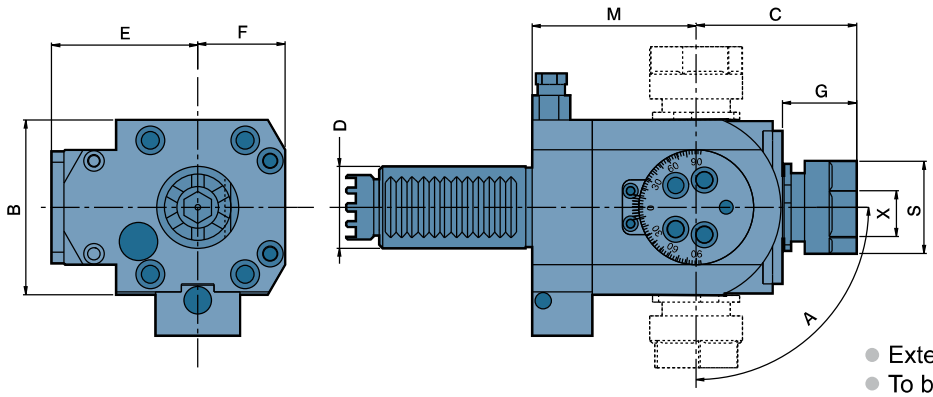
Radial Tapping Heads

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
TFR30IT1665 TFL30IT1665	30	1-10 ER16	30	3000	1 : 1	97	64	75	41	30	65	5006-160
TFR30IT1685 TFL30IT1685	30	1-10 ER16	30	3000	1 : 1	117	64	75	41	30	85	5006-161
TFR40IT2065 TFL40IT2065	40	1-13 ER20	35	3000	1 : 1	99	80	70	40	25	65	5006-162
TFR40IT2085 TFL40IT2085	40	1-13 ER20	35	3000	1 : 1	119	80	70	40	25	85	5006-163

Angular Heads

SPUR COUPLING-IT TYPE



- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

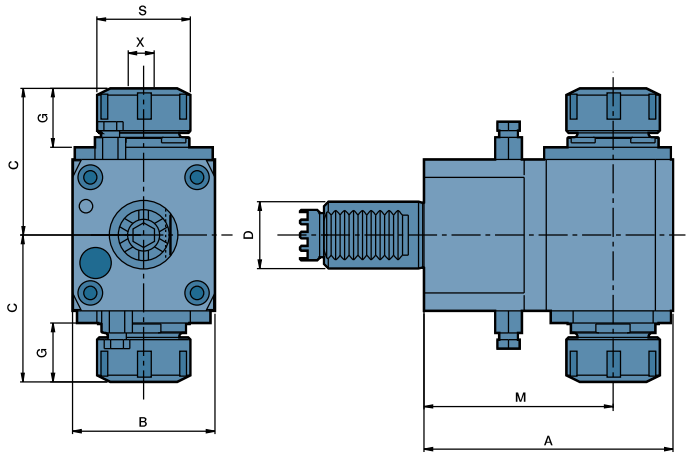
DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
DA30IT20B	30	1-13 ER20	35	4000	1 : 1	±90°	64	59	54	32	27	67	5006-165A

Other shank dimensions under development

Radial Drilling And Milling Heads

DOUBLE COLLETS — SPUR COUPLING-IT TYPE



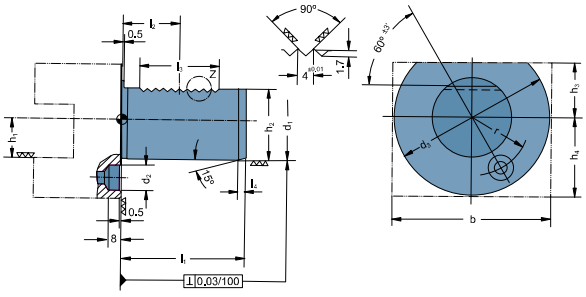
- Collet is not included
- External coolant supply
- To be used for collet DIN 6499

DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	M	CODE NO.
DF30IT2585D	30	1-16 ER25	42	4000	1 : 1	112	64	66	26.5	85	5006-166
DF40IT3285D	40	2-20 ER32	50	4000	1 : 1	119	80	82	28	85	5006-167
DF40IT32100D	40	2-20 ER32	50	4000	1 : 1	134	80	82	28	100	5006-168

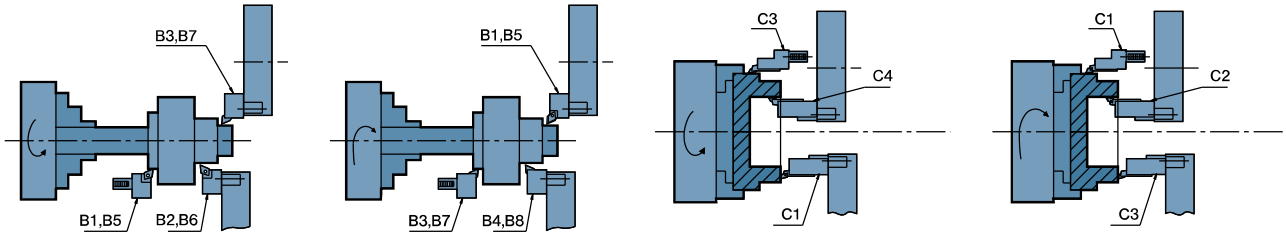
Other shank dimensions under development

VDI Dimensional Specification of Shank DIN 69880



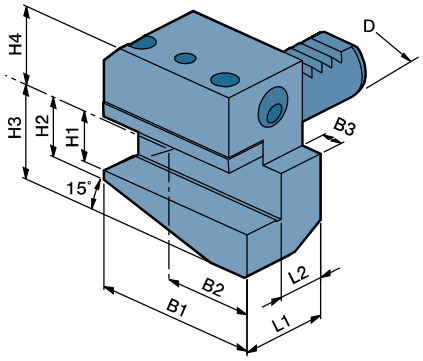
DIMENSIONS

d1 h6	l1 ±0.3	d2		d3	h1 max	h2 ±0.1	l2 ±0.05	l3 min	l4 +1	r4 ±0.02
20	40	10	H6	50	16	18	21.7	24	2	18
30	55	14	H9	68	20	27	29.7	40	2	25
40	63	14	H9	83	25	36	29.7	40	3	32
50	78	16	H9	98	32	45	35.7	48	3	37
60	94	16	H9	123	32	55	43.7	56	4	48



Radial Static Holders

B1 B2 TYPE **DIN 69880**

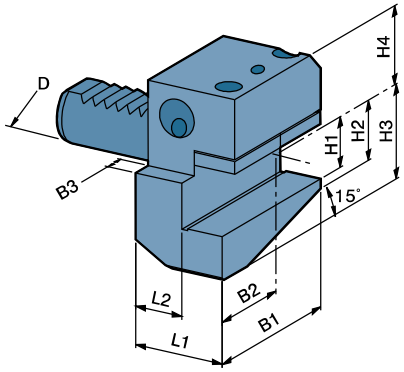


B1

- Short
- External Coolant Supply
- Right-hand

DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B1-20x16	20	55	30	7	16	19	30	25	30	16	5006-180
B1-30x20	30	70	35	10	20	26	38	28	40	22	5006-181
B1-40x25	40	85	42.5	12.5	25	35	48	32.5	44	22	5006-182
B1-50x32	50	100	50	16	32	42	60	35	55	30	5006-183
B1-60x32	60	125	62.5	16	32	46	62.5	42.5	60	30	5006-184



B2

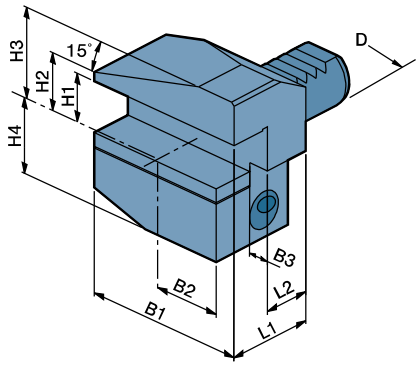
- Left-hand
- External Coolant Supply
- Short

DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B2-20x16	20	55	30	7	16	19	30	25	30	16	5006-185
B2-30x20	30	70	35	10	20	26	38	28	40	22	5006-186
B2-40x25	40	85	42.5	12.5	25	35	48	32.5	44	22	5006-187
B2-50x32	50	100	50	16	32	42	60	35	55	30	5006-188
B2-60x32	60	125	62.5	16	32	46	62.5	42.5	60	30	5006-189

Radial Static Holders

B3 B4 TYPE **DIN 69880**

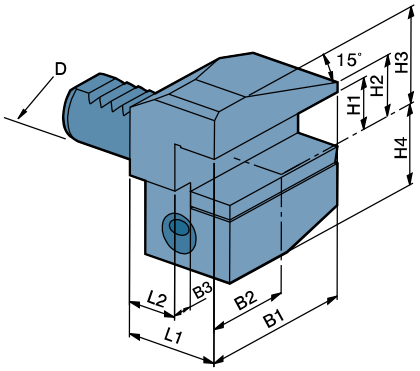


B3

- Short
- External Coolant Supply
- Right-hand

DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B3-20x16	20	55	30	7	16	19	30	25	30	16	5006-190
B3-30x20	30	70	35	10	20	22	38	35	40	22	5006-191
B3-40x25	40	85	42.5	12.5	25	30	48	42.5	44	22	5006-192
B3-50x32	50	100	50	16	32	35	60	50	55	30	5006-193
B3-60x32	60	125	62.5	16	32	42.5	62.5	42.5	60	30	5006-194



B4

- Left-hand
- External Coolant Supply
- Short

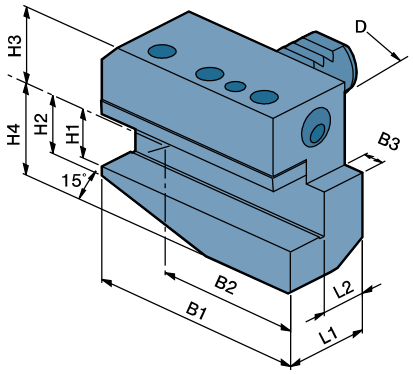
DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B4-20x16	20	55	30	7	16	19	30	25	30	16	5006-195
B4-30x20	30	70	35	10	20	22	38	35	40	22	5006-196
B4-40x25	40	85	42.5	12.5	25	30	48	42.5	44	22	5006-197
B4-50x32	50	100	50	16	32	35	60	50	55	30	5006-198
B4-60x32	60	125	62.5	16	32	42.5	62.5	42.5	60	30	5006-199

Radial Static Holders

B5 B6 TYPE

DIN 69880

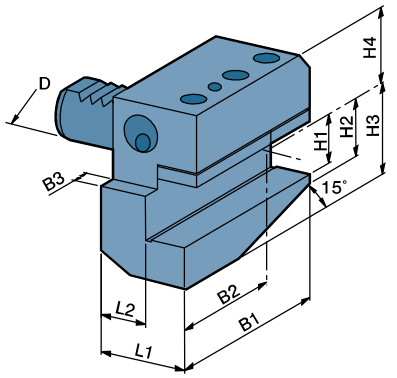


B5

- External Coolant Supply
- Right-hand
- Long

DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B5-20x16	20	75	50	7	16	19	30	25	30	16	5006-200
B5-30x20	30	100	65	10	20	26	38	28	40	22	5006-201
B5-40x25	40	118	76	12.5	25	35	48	32.5	44	22	5006-202
B5-50x32	50	130	80	16	32	42	60	35	55	30	5006-203
B5-60x32	60	145	83	16	32	46	62.5	42.5	60	30	5006-204



B6

- Left-hand
- External Coolant Supply
- Long

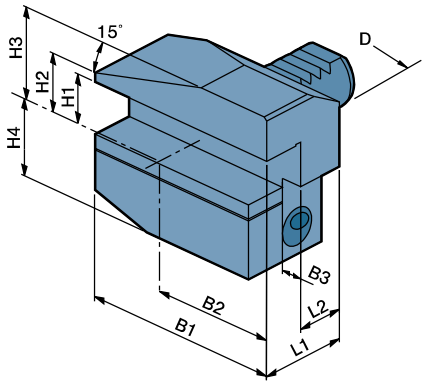
DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B6-20x16	20	75	50	7	16	19	30	25	30	16	5006-205
B6-30x20	30	100	65	10	20	26	38	28	40	22	5006-206
B6-40x25	40	118	76	12.5	25	35	48	32.5	44	22	5006-207
B6-50x32	50	130	80	16	32	42	60	35	55	30	5006-208
B6-60x32	60	145	83	16	32	46	62.5	42.5	60	30	5006-209

Radial Static Holders

B7 B8 TYPE

DIN 69880

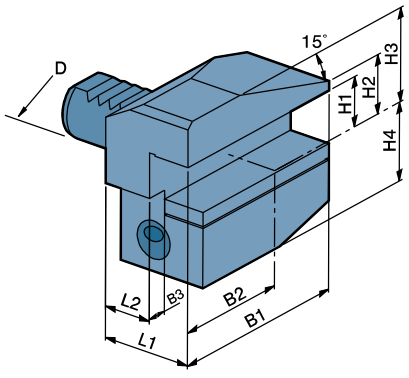


B7

- External Coolant Supply
- Right-hand
- Long

DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B7-20x16	20	75	50	7	16	19	30	25	30	16	5006-210
B7-30x20	30	100	65	10	20	22	38	35	40	22	5006-211
B7-40x25	40	118	75.5	12.5	25	30	48	42.5	44	22	5006-212
B7-50x32	50	130	80	16	32	35	60	50	55	30	5006-213
B7-60x32	60	145	82.5	16	32	42.5	62.5	42.5	60	30	5006-214



B8

- Left-hand
- External Coolant Supply
- Long

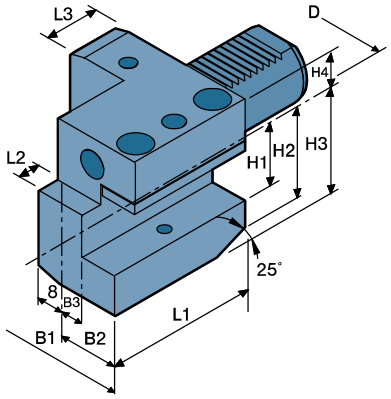
DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B8-20x16	20	75	50	7	16	19	30	25	30	16	5006-215
B8-30x20	30	100	65	10	20	22	38	35	40	22	5006-216
B8-40x25	40	118	75.5	12.5	25	30	48	42.5	44	22	5006-217
B8-50x32	50	130	80	16	32	35	60	50	55	30	5006-218
B8-60x32	60	145	82.5	16	32	42.5	62.5	42.5	60	30	5006-219

Axial Static Holders

C1 C2 TYPE

DIN 69880

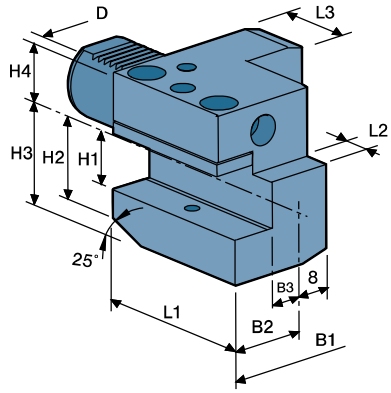


C1

- Right-hand
- External Coolant Supply

DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	CODE NO.
C1-20x16	20	65	40	26	16	23	30	25	50	7	30	5006-220
C1-30x20	30	70	35	17	20	28	38	28	70	10	30	5006-221
C1-40x25	40	85	42.5	21	25	-	48	32.5	85	12.5	30	5006-222
C1-50x32	50	100	50	26	32	-	60	35	100	16	40	5006-223
C1-60x32	60	125	62.5	33	32	-	62.5	42.5	125	16	40	5006-224



C2

- External Coolant Supply
- Left-hand

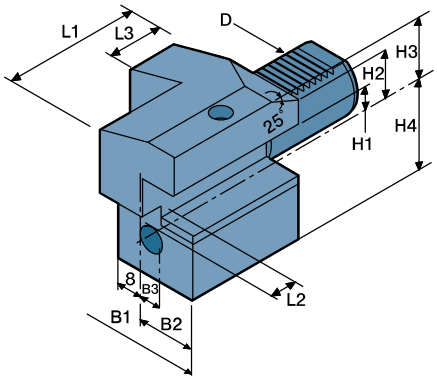
DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L 3	CODE NO.
C2-20x16	20	65	40	26	16	23	30	25	50	7	30	5006-225
C2-30x20	30	76	41	23	20	28	38	28	70	10	30	5006-226
C2-40x25	40	90	47.5	25.5	25	-	48	32.5	85	12.5	30	5006-227
C2-50x32	50	105	55	30.5	32	-	60	35	100	16	40	5006-228
C2-60x32	60	125	62.5	33	32	-	62.5	42.5	125	16	40	5006-229

Axial Static Holders

C3 C4 TYPE

DIN 69880

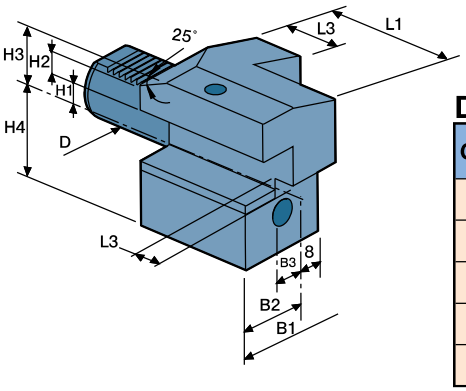


C3

- Right-hand
- External Coolant Supply

DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	CODE NO.
C3-20x16	20	65	40	26	16	23	30	25	50	7	30	5006-230
C3-30x20	30	70	35	17	20	28	38	35	70	10	30	5006-231
C3-40x25	40	85	42.5	21	25	-	48	42.5	85	12.5	30	5006-232
C3-50x32	50	100	50	26	32	-	60	50	100	16	40	5006-233
C3-60x32	60	125	62.5	33	32	-	62.5	62.5	125	16	40	5006-234



C4

- External Coolant Supply
- Left-hand

DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	CODE NO.
C4-20x16	20	65	40	26	16	23	30	25	50	7	30	5006-235
C4-30x20	30	76	41	23	20	28	38	35	70	10	30	5006-236
C4-40x25	40	90	47.5	25.5	25	-	48	42.5	85	12.5	30	5006-237
C4-50x32	50	105	55	30.5	32	-	60	50	100	16	40	5006-238
C4-60x32	60	125	62.5	33	32	-	62.5	62.5	125	16	40	5006-239

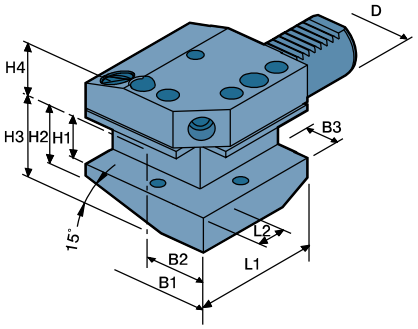
Combined Static Holders

CB1 CB2 TYPE

DIN 69880

CB1

- External Coolant Supply
- Right-hand

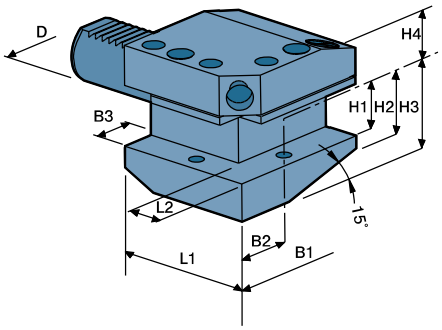


DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
CB1-20x16	20	65	40	14	16	19	30	25	50	14	5006-240
CB1-30x20	30	74	40	18	20	26	38	28	70	18	5006-241
CB1-40x25	40	85	45	22	25	35	48	32.5	100	22	5006-242
CB1-50x32	50	105	55	25	32	42	60	35	120	25	5006-243
CB1-60x32	60	125	62.5	30	32	46	62.5	42.5	135	30	5006-244

CB2

- Left-hand
- External Coolant Supply



DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
CB2-20x16	20	65	40	14	16	19	30	25	50	14	5006-245
CB2-30x20	30	74	40	18	20	26	38	28	70	18	5006-246
CB2-40x25	40	85	47	22	25	35	48	32.5	100	22	5006-247
CB2-50x32	50	105	55	25	32	42	60	35	120	25	5006-248
CB2-60x32	60	125	62.5	30	32	46	62.5	42.5	135	30	5006-249

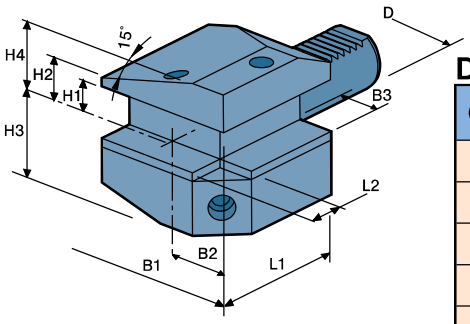
Combined Static Holders

CB3 CB4 TYPE

DIN 69880

CB3

- External Coolant Supply
- Right-hand

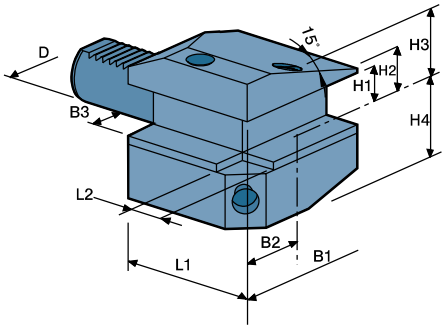


DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
CB3-20x16	20	65	40	14	16	19	30	25	50	14	5006-250
CB3-30x20	30	74	40	18	20	22	38	28	70	18	5006-251
CB3-40x25	40	85	45	22	25	30	48	32.5	100	22	5006-252
CB3-50x32	50	105	55	25	32	35	60	35	120	25	5006-253
CB3-60x32	60	125	62.5	30	32	42.5	62.5	42.5	135	30	5006-254

CB4

- Left-hand
- External Coolant Supply

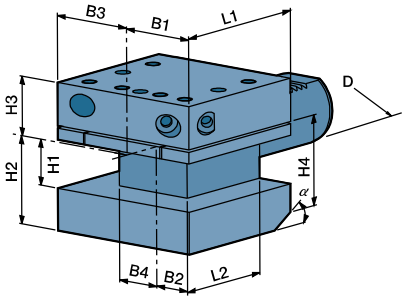


DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
CB4-20x16	20	65	40	14	16	19	30	25	50	14	5006-255
CB4-30x20	30	74	40	18	20	22	38	28	70	18	5006-256
CB4-40x25	40	85	47	22	25	30	48	32.5	100	22	5006-257
CB4-50x32	50	105	55	25	32	35	60	35	120	25	5006-258
CB4-60x32	60	125	62.5	30	32	42.5	62.5	42.5	135	30	5006-259

Combined Static Holders

D1 D2 TYPE **DIN 69880**

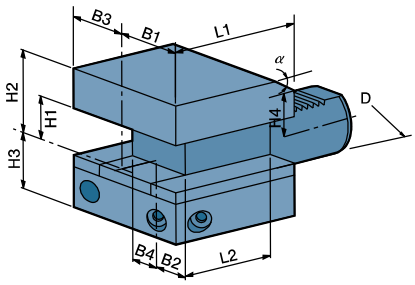


D1

- Right-hand
- External Coolant Supply

DIMENSIONS

ORDER NO.	D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	α	CODE NO.
D1-30x20	30	35	17	41	23	20	38	35	30	60	42	25°	5006-260
D1-40x25	40	42.5	21	47.5	25.5	25	48	42.5	40	72	50	25°	5006-261
D1-50x32	50	50	26	55	30.5	32	60	50	-	85	60	-	5006-262
D1-60x32	60	57.5	33	57.5	33	32	62.5	62.5	-	110	85	-	5006-263



D2

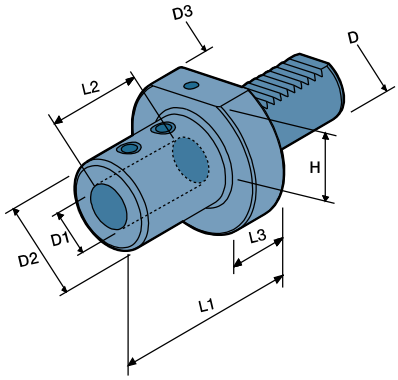
- Left-hand
- External Coolant Supply

DIMENSIONS

ORDER NO.	D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	α	CODE NO.
D2-30x20	30	35	17	41	23	20	38	35	30	60	42	25°	5006-264
D2-40x25	40	42.5	21	47.5	25.5	25	48	42.5	40	72	50	25°	5006-265
D2-50x32	50	50	26	55	30.5	32	60	50	-	85	60	-	5006-266
D2-60x32	60	57.5	33	57.5	33	32	62.5	62.5	-	110	85	-	5006-267

Static Holders

E1 TYPE **DIN 69880**



E1

- Internal Coolant Supply
- U Drills

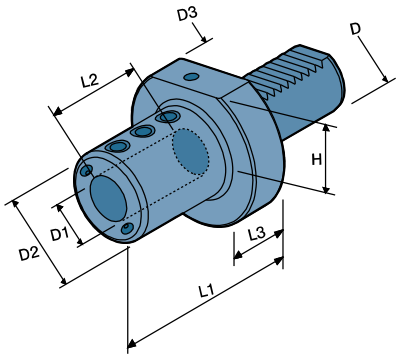
DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	L3	CODE NO.
E1-20x20	20	20	40	50	-	67	57	18	5006-268
E1-20x25	20	25	45	50	-	71	59	18	5006-269
E1-30x20	30	20	40	68	28	67	54	22	5006-270
E1-30x25	30	25	45	68	28	71	59	22	5006-271
E1-30x32	30	32	52	68	28	75	63	22	5006-272
E1-40x20	40	20	40	83	32.5	67	54	22	5006-273
E1-40x25	40	25	45	83	32.5	75	59	22	5006-274
E1-40x32	40	32	52	83	32.5	75	63	22	5006-275
E1-40x40	40	40	60	83	32.5	90	73	22	5006-276
E1-50x20	50	20	40	98	35	67	54	30	5006-277
E1-50x25	50	25	45	98	35	80	59	30	5006-278
E1-50x32	50	32	52	98	35	80	63	30	5006-279
E1-50x40	50	40	60	98	35	90	73	30	5006-280
E1-50x50	50	50	70	98	35	100	83	30	5006-281

Static Holders

E2 TYPE

DIN 69880



E2

- Boring Bar Holder
- External Coolant Supply

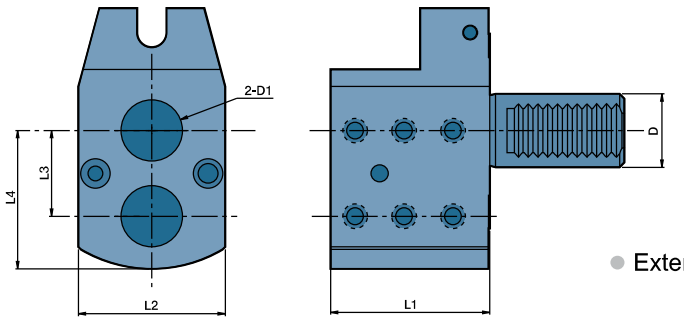
DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	L3	CODE NO.
E2-20x8	20	8	40	50	-	50	41	18	5006-282
E2-20x10	20	10	40	50	-	50	41	18	5006-283
E2-20x12	20	12	40	50	-	50	41	18	5006-284
E2-20x16	20	16	40	50	-	50	41	18	5006-285
E2-20x20	20	20	50	50	-	50	41	-	5006-286
E2-20x25	20	25	50	50	-	60	41	-	5006-287
E2-30x8	30	8	50	68	28	60	51	22	5006-288
E2-30x10	30	10	50	68	28	60	51	22	5006-289
E2-30x12	30	12	50	68	28	60	51	22	5006-290
E2-30x16	30	16	55	68	28	60	51	22	5006-291
E2-30x20	30	20	58	68	28	60	51	22	5006-292
E2-30x25	30	25	62	68	28	60	51	22	5006-293
E2-30x32	30	32	68	68	28	75	61	-	5006-294
E2-40x10	40	10	50	83	32.5	75	61	22	5006-295
E2-40x12	40	12	50	83	32.5	75	61	22	5006-296
E2-40x16	40	16	56	83	32.5	75	61	22	5006-297
E2-40x20	40	20	56	83	32.5	75	61	22	5006-298
E2-40x25	40	25	62	83	32.5	75	61	22	5006-299
E2-40x32	40	32	72	83	32.5	75	61	22	5006-300
E2-40x40	40	40	83	83	32.5	85	76	-	5006-301
E2-50x10	50	10	50	98	35	90	76	30	5006-302
E2-50x12	50	12	56	98	35	90	76	30	5006-303
E2-50x16	50	16	56	98	35	90	76	30	5006-304
E2-50x20	50	20	62	98	35	90	76	30	5006-305
E2-50x25	50	25	72	98	35	90	76	30	5006-306
E2-50x32	50	32	72	98	35	90	76	30	5006-307
E2-50x40	50	40	80	98	35	90	76	30	5006-308
E2-50x50	50	50	90	98	35	95	86	30	5006-309
E2-60x10	60	10	68	123	42.5	90	76	35	5006-310
E2-60x12	60	12	68	123	42.5	90	76	35	5006-311
E2-60x16	60	16	68	123	42.5	90	76	35	5006-312
E2-60x20	60	20	68	123	42.5	90	76	35	5006-313
E2-60x25	60	25	68	123	42.5	90	76	35	5006-314
E2-60x32	60	32	68	123	42.5	90	76	35	5006-315
E2-60x40	60	40	98	123	42.5	90	76	35	5006-316
E2-60x50	60	50	98	123	42.5	95	86	35	5006-317

Static Holders

E2-X2 TYPE

DIN 69880



- External, internal coolant supply

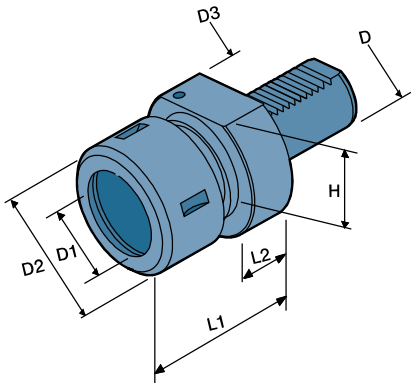
DIMENSIONS

ORDER NO.	D DIN 69880	D1	L1	L2	L3	L4	CODE NO.
E2-30-2X25-35	30	25	65	60	35	56.5	5006-318
E2-40-2X40-65	40	40	80	80	65	91.5	5006-319

Static Holders

E3 E4 TYPE

DIN 69880

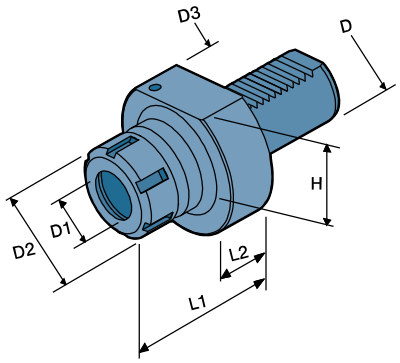


E3

- For Collet DIN 6388
- External Coolant Supply

DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	CODE NO.
E3-30-OZ25	30	2-25	60	68	28	75	22	5006-320
E3-40-OZ25	40	2-25	60	83	32.5	75	22	5006-321
E3-40-OZ32	40	4-32	78	83	32.5	90	22	5006-322
E3-50-OZ25	50	2-25	60	98	35	75	30	5006-323
E3-50-OZ32	50	4-32	78	98	35	90	30	5006-324



E4

- External Coolant Supply
- For Collet DIN 6499

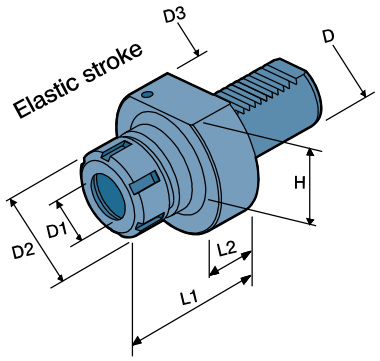
DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	CODE NO.
E4-20-ER25	20	1-16	42	50	-	50	18	5006-325
E4-30-ER25	30	1-16	42	68	28	53	22	5006-326
E4-30-ER32	30	2-20	50	68	28	57	22	5006-327
E4-40-ER32	40	2-20	50	83	32.5	62	22	5006-328
E4-40-ER40	40	3-26	63	83	32.5	75	22	5006-329
E4-50-ER40	50	3-26	63	98	35	75	30	5006-330
E4-60-ER40	60	3-26	63	123	42.5	75	30	5006-331
E4-60-ER50	60	10-34	78	123	42.5	75	30	5006-332

Static Holders

TAPPER, CHUCK TYPE

DIN 69880

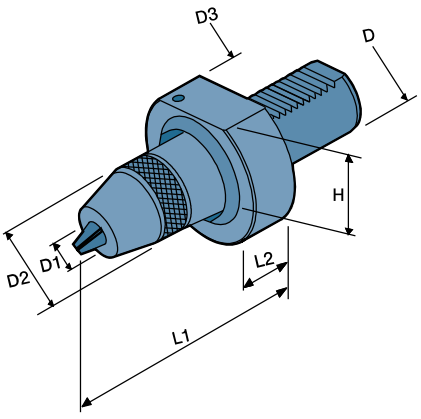


TAPPER

- External Coolant Supply
- For Collet DIN 6499

DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	CODE NO.
TAP-20-ER20	20	1-13	34	50	-	60	18	5006-333
TAP-30-ER25	30	1-16	42	68	28	68	22	5006-334
TAP-40-ER25	40	1-16	42	83	32.5	73	22	5006-335
TAP-50-ER32	50	2-20	50	98	35	83	30	5006-336
TAP-60-ER32	60	2-20	50	123	42.5	85	30	5006-337



KEYLESS DRILL CHUCK

- External Coolant Supply

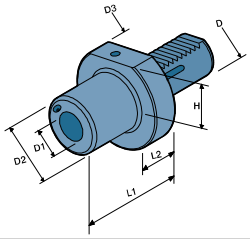
DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	CODE NO.
CHUCK-30-13	30	1-13	51	68	28	85	22	5006-338
CHUCK-40-13	40	1-13	51	83	32.5	85	22	5006-339
CHUCK-40-16	40	3-16	58	83	32.5	90	22	5006-340
CHUCK-50-13	50	1-13	51	98	35	85	30	5006-341
CHUCK-50-16	50	3-16	58	98	35	90	30	5006-342

Static Holders

F TYPE

DIN 69880



- Tool holders with morse taper according DIN 228
- External Coolant Supply

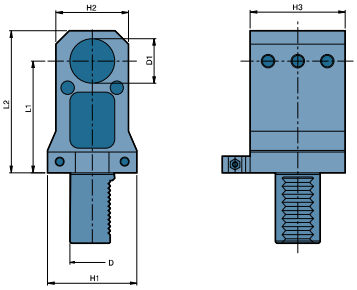
DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	CODE NO.
F20-MT1	20	MT1	-	50	-	23	-	5006-343
F30-MT1	30	MT1	52	68	28	27	22	5006-344
F30-MT2	30	MT2	58	68	28	43	22	5006-345
F30-MT3	30	MT3	64	68	28	66	22	5006-346
F40-MT2	40	MT2	66	83	32.5	43	22	5006-347
F40-MT3	40	MT3	72	83	32.5	58	22	5006-348
F40-MT4	40	MT4	72	83	32.5	78	22	5006-349
F50-MT2	50	MT2	55	98	35	36	30	5006-350
F50-MT3	50	MT3	60	98	35	44	30	5006-351
F50-MT4	50	MT4	70	98	35	71	30	5006-352
F60-MT3	60	MT3	58	123	42.5	36	30	5006-353
F60-MT4	60	MT4	68	123	42.5	50	30	5006-354

Axial Static Holders

T1 TYPE

DIN 69880



- External, internal coolant supply

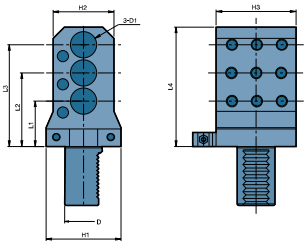
DIMENSIONS

ORDER NO.	D	D1	H1	H2	H3	L1	L2	CODE NO.
T1-30-32-65	30	32	65	52	62	65	90	5006-355
T1-30-32-85	30	32	65	52	62	85	108	5006-356
T1-30-32-100	30	32	65	52	62	100	123	5006-357
T1-30-32-120	30	32	65	52	62	120	143	5006-358
T1-40-32-85	40	32	80	65	85	85	112	5006-359
T1-40-40-85	40	40	80	65	85	85	112	5006-360
T1-40-40-100	40	40	80	65	85	100	127	5006-361

Axial Static Holders

T1-X3 TYPE

DIN 69880



- External coolant supply

DIMENSIONS

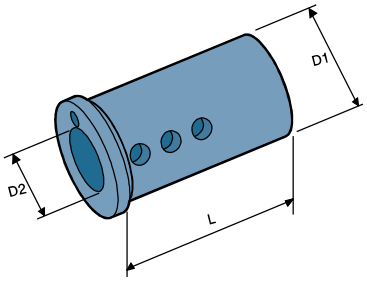
ORDER NO.	D	D1	H1	H2	H3	L1	L2	L3	L4	CODE NO.
T1-30-3X25	30	25	65	65	62	42	85	128	148	5006-362

Reducing Sleeves

RS-W, RS TYPE

RS-W

- External Coolant Supply
- For Boring Bar Holder

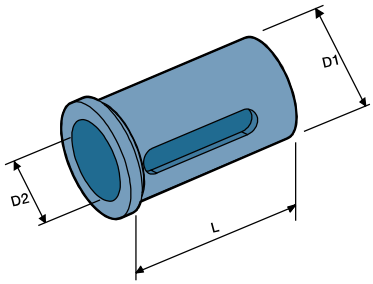


DIMENSIONS

D1	L	ORDER NO. D2	CODE NO.
20	45	**E20-8**	5006-370
		E20-10	5006-371
25	55	**E25-8**	5006-373
		E25-10	5006-374
		E25-12	5006-375
32	60	**E32-8**	5006-377
		E32-10	5006-378
		E32-12	5006-379
40	75	**E40-8**	5006-382
		E40-10	5006-383
		E40-12	5006-384
50	85	**E50-8**	5006-388
		E50-10	5006-389
		E50-12	5006-390
		E50-16	5006-391
		E50-20	5006-392
		E50-25	5006-393

RS

- For Boring Bar Holder

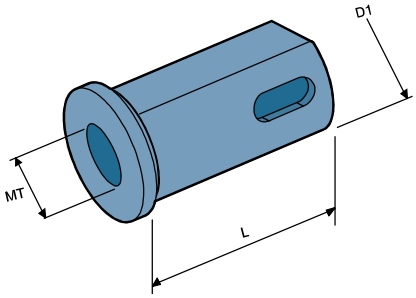


DIMENSIONS

D1	L	ORDER NO. D2	CODE NO.
20	50	**E20-12-K**	5006-399
		E20-16-K	5006-400
25	50	**E25-16-K**	5006-401A
		E25-20-K	5006-401
32	60	**E32-16-K**	5006-402A
		E32-20-K	5006-402B
		E32-25-K	5006-402
40	75	**E40-16-K**	5006-403A
		E40-20-K	5006-403B
		E40-25-K	5006-403C
		E40-32-K	5006-403
50	85	**E50-32-K**	5006-404A
		E50-40-K	5006-404

Reducing Sleeves

RS-MT, TE TYPE

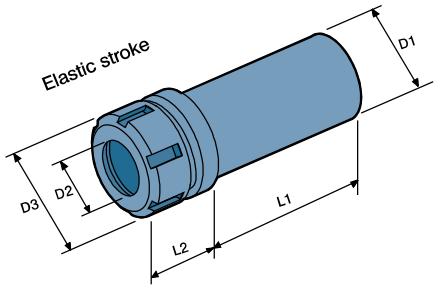


RS-MT

- Tool holders with morse taper according to DIN 228

DIMENSIONS

D1	L	MT				
		1	2	3	4	
32	60	E32-MT1	E32-MT2	E32-MT3		ORDER NO.
		5006-410	5006-411	5006-412		CODE NO.
40	75	E40-MT1	E40-MT2	E40-MT3	E40-MT4	ORDER NO.
		5006-414	5006-415	5006-416	5006-417	CODE NO.
50	85	E50-MT1	E50-MT2	E50-MT3	E50-MT4	ORDER NO.
		5006-418	5006-419	5006-420	5006-421	CODE NO.



TE

- Auto taper with cylindric shaft
- To be used for collet DIN 6499

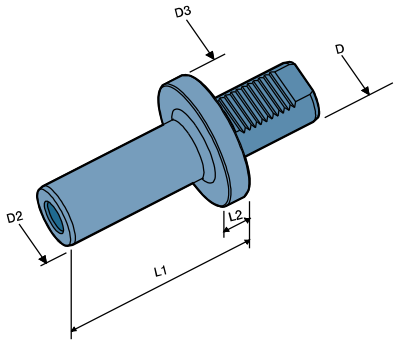
DIMENSIONS

ORDER NO.	D1	D2		D3	L1	L2	CODE NO.
TE25-ER16	25	1-10	M3-M12	ER16 32	70.5	30	5006-430
TE32-ER20	32	2-13	M3-M16	ER20 35	65	40	5006-431
TE40-ER25	40	2-16	M4-M20	ER25 42	75	43	5006-432
TE50-ER32	50	3-20	M6-M24	ER32 50	85	48	5006-433

Test Mandrel

TB1 TYPE

DIN 69880



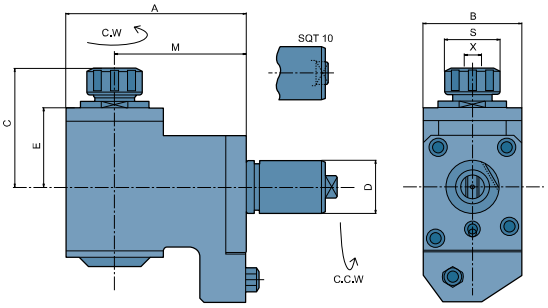
DIMENSIONS

ORDER NO.	D DIN 69880	D2	D3	L1	L2	CODE NO.
TB1-30	30	30	68	115	15	5006-434
TB1-40	40	40	83	115	15	5006-435
TB1-50	50	50	98	115	15	5006-436

H Type Milling & Drilling Head

MAZAK SUPER QUICK TURN TYPE **FOR 1ST SPINDLE**

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-HMD25	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-16 ER25	42	5000	137	75	90	60	100	5006-440
SQT 15/18-HMD25	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-16 ER25	42	5000	167	80	90	60	130	5006-441
SQT 15/18-HMD32			2-20 ER32	50	5000	167	80	92	60	130	5006-442

H Type Tapping Head

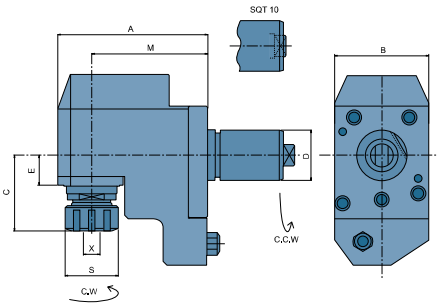
DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-HT16	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-10 ER16	30	3000	137	75	106	60	100	5006-443
SQT 15/18-HT20	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-13 ER20	35	3000	167	80	108	60	130	5006-444

H Type Back Milling & Drilling Head

MAZAK SUPER QUICK TURN TYPE **FOR 2ND SPINDLE**

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-HBMD25	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-16 ER25	42	5000	119	75	78	24.5	92	5006-450
SQT 15/18-HBMD25	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-16 ER25	42	5000	162	80	80	22.5	125	5006-451
SQT 15/18-HBMD32			2-20 ER32	50	5000	162	80	58	22.5	125	5006-452
SQT 15/18-HBMD32-1			2-20 ER32	50	5000	162	80	82.5	22.5	125	5006-453

H Type Tapping Head

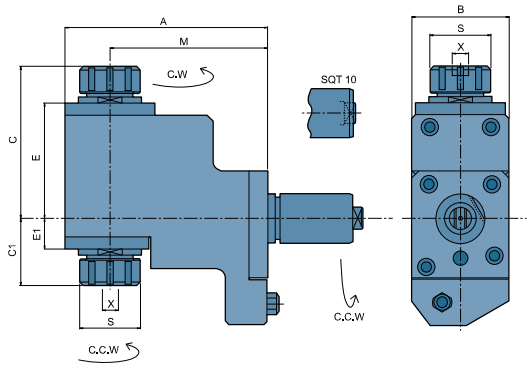
DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-HBT16	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-10 ER16	30	3000	119	75	66	24.5	92	5006-454
SQT 15/18-HBT20	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-13 ER20	30	3000	162	80	65	22.5	125	5006-455

H Type Milling & Drilling Head

MAZAK SUPER QUICK TURN TYPE **FOR 1ST AND 2ND SPINDLE**

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

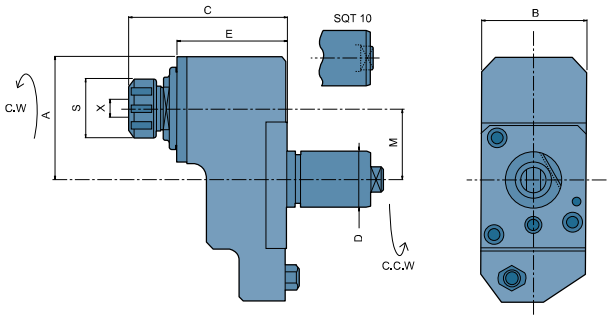
DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	C1	E	E1	M	CODE NO.
SQT 10-HMD2025	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1st-ER25 2nd-ER20	42 35	4000	130	75	103	77.5	37	16	100	5006-456
SQT 15/18-HMD232	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	2-20 ER32	42	4000	167	80	119	50	89	19	130	5006-457

V Type Milling & Drilling Head

MAZAK SUPER QUICK TURN TYPE **OFFSET**

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

DIMENSIONS

※ 1:2 Speed boost

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-VMD25	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-16 ER25	42	5000	88	75	113	79	50	5006-460
SQT 15/18-VMD25F	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-16 ER25	42	5000	89	80	116	81.5	50	5006-461
SQT 15/18-VMD25F-1			1-16 ER25	42	(1:2) 7000	89	75	116	84	50	※ 5006-462
SQT 15/18-VMD32			2-20 ER32	50	5000	89	80	122	81.5	50	5006-463

V Type Tapping Head

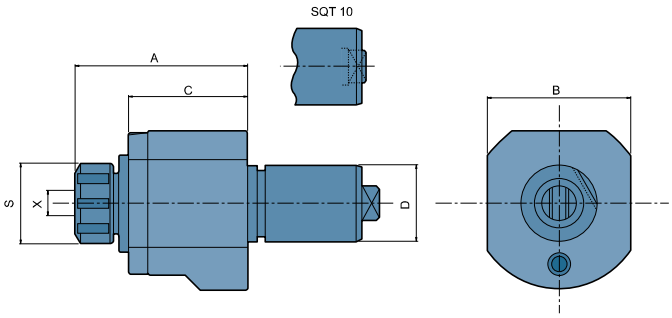
DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-VT16F	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-10 ER16	30	4000	88	75	118	79	50	5006-464
SQT 15/18-VT20F	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-13 ER20	30	4000	89	80	120	81.5	50	5006-465

V Type Milling & Drilling Head

MAZAK SUPER QUICK TURN TYPE **DA-SERIES**

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	CODE NO.
SQT 10-VMD25DA	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-16 ER25	42	6000	91	75	59	5006-466
SQT 15/18-VMD32DA	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	2-20 ER32	50	6000	117	80	80	5006-467

V Type Tapping Head

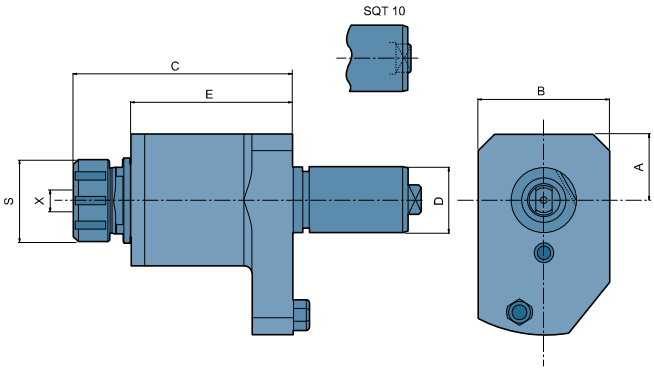
DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	CODE NO.
SQT 10-VT16DA	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-10 ER16	30	4000	97	75	59	5006-468
SQT 15/18-VT20DA	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-13 ER20	35	4000	120	80	80	5006-469

V Type Milling & Drilling Head

MAZAK SUPER QUICK TURN TYPE **DA-SERIES, LONG**

NEW



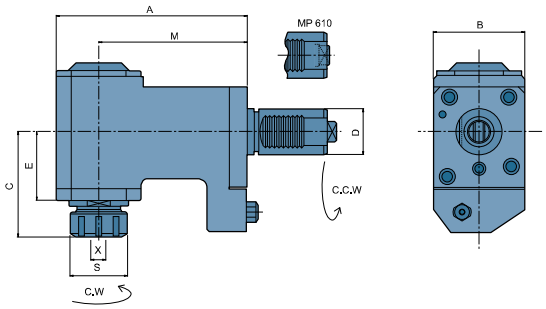
- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	CODE NO.
SQT 15/18-VMD32L	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	2-20 ER32	50	6000	40	80	117	82.5	5006-470
						40	80	133.5	98.5	5006-471

H Type Milling & Drilling Head

MAZAK MULTIPLEX TYPE



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

DIMENSIONS

※ 1:2 Speed boost

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
MP 610-HMD25	MP410N-12D 415N-12D MP610-12D 6200-16D	40	1-16 ER25	42	5000	152	75	90	60	115	5006-475
MP 620-HMD25	MP420N-12D 620N-12D MP620-12D 6200-16D	40	1-16 ER25	42	5000	167	80	90	60	130	5006-476
MP 620-HMD32			2-20 ER32	50	5000	167	80	92	60	130	5006-477
MP 620-HMD32-2			2-20 ER32	50	(1:2) 7000	169	80	101	65.5	130	※ 5006-478

H Type Tapping Head

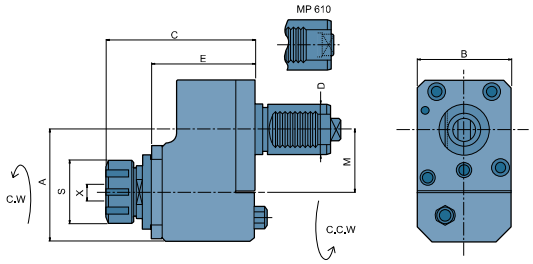
DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
MP 610-HT16	MP410N-12D 415N-12D MP610-12D 6200-16D	40	1-10 ER16	30	3000	152	75	106	60	115	5006-479
MP 620-HT20	MP420N-12D 620N-12D MP620-12D 6200-16D	40	1-13 ER20	30	3000	167	80	108	60	130	5006-480

V Type Milling & Drilling Head

MAZAK MULTIPLEX TYPE

OFFSET



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
MP 610-VMD25F	MP410N-12D 415N-12D MP610-12D 6200-16D	40	1-16 ER25	42	5000	89	75	118	82.5	50	5006-481
MP 620-VMD16F	MP420N-12D 620N-12D MP620-12D 6200-16D	40	1-16 ER25	42	5000	89	80	116	81.5	50	5006-482
MP 620-VMD32F			2-20 ER32	50	5000	89	80	118	81.5	50	5006-483

V Type Tapping Head

DIMENSIONS

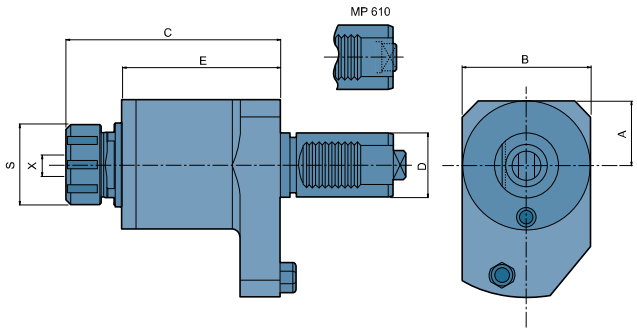
ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
MP 610-VT16F	MP410N-12D 415N-12D MP610-12D 6200-16D	40	1-10 ER16	30	4000	89	75	123	82.5	50	5006-484
MP 620-VT20F	MP420N-12D 620N-12D MP620-12D 6200-16D	40	1-13 ER20	35	4000	89	80	126	81.5	50	5006-485

V Type Milling & Drilling Head

MAZAK MULTIPLEX TYPE

DA-SERIES

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

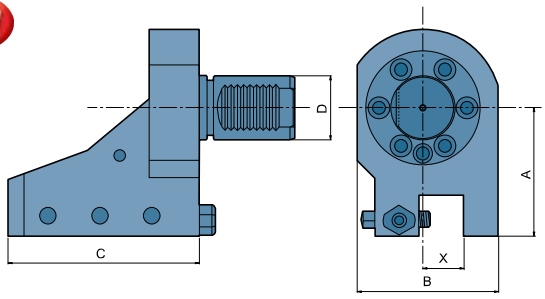
DIMENSIONS

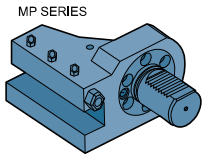
ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	CODE NO.
MP 610-VMD25DA	MP410N-12D 415N-12D MP610-12D 6200-16D	40	1-16 ER25	42	6000	40	75	105	74	5006-486
MP 620-VMD25DA	MP420N-12D 620N-12D MP620-12D 6200-16D	40	1-16 ER25	42	6000	40	80	105	74	5006-487
MP 620-VMD32DA			2-20 ER32	50	6000	40	80	107	74	5006-488

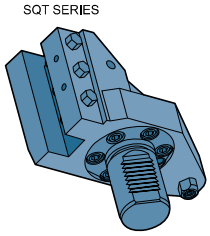
Forward Turning Holder - RH

MAZAK SUPER QUICK TURN & MULTIPLEX TYPE

NEW







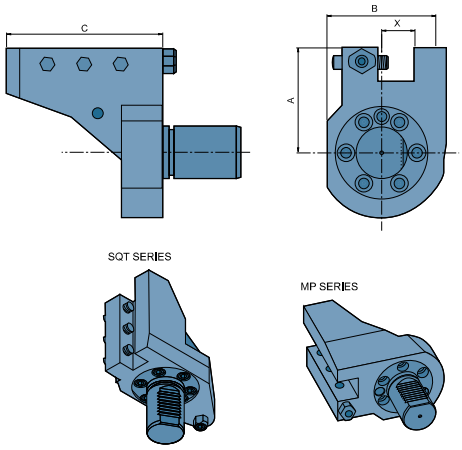
DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
SQT 10M/15AM-FTRH-M	SQT-10M/15AM	40	mm	20	66	76	100	5006-490
SQT 10M/15AM-FTRH-I			inch	0.75″	2.6″	3″	3.937″	5006-491
SQT 15M/18M-FTRH-M	SQT-15M/18M	40	mm	25	78	84	120	5006-492
SQT 15M/18M-FTRH-I			inch	1″	3.071″	3.307″	4.724″	5006-493
SQT 28M/30M-FTRH-M	SQT-28M/30M	50	mm	25	-			※ 5006-494
SQT 28M/30M-FTRH-I			inch	1″	-			※ 5006-495
MP 610N/615N-FTRH-M	MP-610N/615N	40	mm	20	85	76	100	5006-496
MP 410N/415N-FTRH-I	MP-410N/415N		inch	0.75″	3.347″	3″	3.937″	5006-497
MP 620N/625N-FTRH-M	MP-620N/625N	40	mm	25	83	84	120	5006-498
MP 420N-FTRH-I	MP-420N		inch	1″	3.268″	3.307″	4.724″	5006-499
MP 630-FTRH-M	MP-630	50	mm	25	-			5006-500
MP 630-FTRH-I			inch	1″	-			5006-501

Reverse Turning Holder - LH

MAZAK SUPER QUICK TURN & MULTIPLEX TYPE

NEW



DIMENSIONS

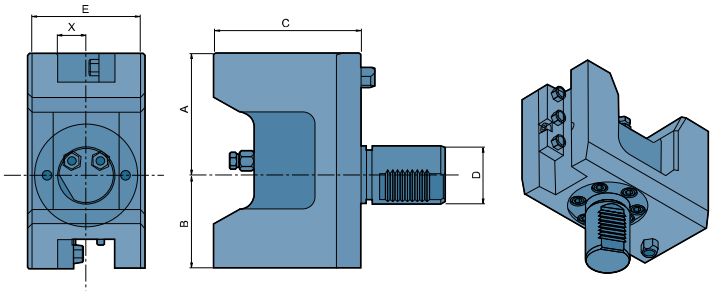
ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
SQT 10M/15AM-RTLH-M	SQT-10M/15AM	40	mm	20	66	76	100	5006-502
SQT 10M/15AM-RTLH-I			inch	0.75″	2.6″	3″	3.937″	5006-503
SQT 15M/18M-RTLH-M	SQT-15M/18M	40	mm	25	78	84	120	5006-504
SQT 15M/18M-RTLH-I			inch	1″	3.071″	3.307″	4.724″	5006-505
SQT 28M/30M-RTLH-M	SQT-28M/30M	50	mm	25	-			5006-506
SQT 28M/30M-RTLH-I			inch	1″	-			5006-507
MP 610N/615N-RTLH-M	MP-610N/615N	40	mm	20	85	76	100	5006-508
MP 410N/415N-RTLH-I	MP-410N/415N		inch	0.75″	3.347″	3″	3.937″	5006-509
MP 620N/625N-RTLH-M	MP-620N/625N	40	mm	25	83	84	120	5006-510
MP 420N-RTLH-I	MP-420N		inch	1″	3.268″	3.307″	4.724″	5006-511
MP 630-RTLH-M	MP-630	50	mm	25	-			5006-512
MP 630-RTLH-I			inch	1″	-			5006-513

※ ON REQUEST

Double Turning Holder

MAZAK SUPER QUICK TURN TYPE

NEW



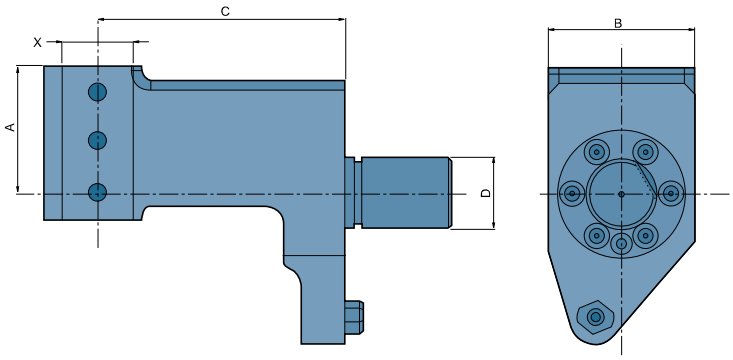
DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	E	CODE NO.
SQT 10M/15AM-DT-M	SQT-10M/15AM	40	mm	20	85	65	103	76	5006-514
SQT 10M/15AM-DT-I			inch	0.75″	3.347″	2.559″	4.055″	2.992″	5006-515
SQT 15M/18M-DT-M	SQT-15M/18M	40	mm	25	88	78	136	84	5006-516
SQT 15M/18M-DT-I			inch	1″	3.465″	3.071″	5.354″	3.307″	5006-517
SQT 28M/30M-DT-M	SQT-28M/30M	50	mm	25	128	80	150	90	5006-518
SQT 28M/30AM-DT-I			inch	1″	5.039″	3.150″	5.906″	3.543″	5006-519

Boring Bar Holder

MAZAK SUPER QUICK TURN TYPE

NEW



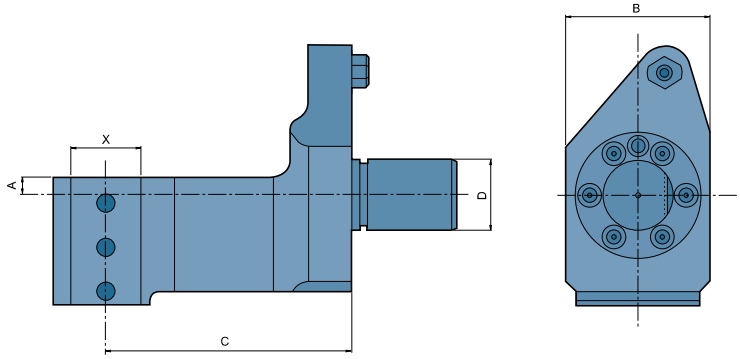
DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
SQT 10M/15AM-B-M	SQT-10M/15AM	40	mm	32	56	76	110	5006-520
SQT 10M/15AM-B-I			inch	1.25″	2.205″	2.992″	4.331″	5006-521
SQT 15M/18M-B-M	SQT-15M/18M	40	mm	40	71	82	140	5006-522
SQT 15M/18M-B-I			inch	1.5″	2.795″	3.228″	5.512″	5006-523
SQT 28M/30M-B-M	SQT-28M/30M	50	mm	50	65	90	175	5006-524
SQT 28M/30AM-B-I			inch	2″	2.559″	3.543″	6.890″	5006-525

Boring Bar Holder

MAZAK MULTIPLEX TYPE

NEW



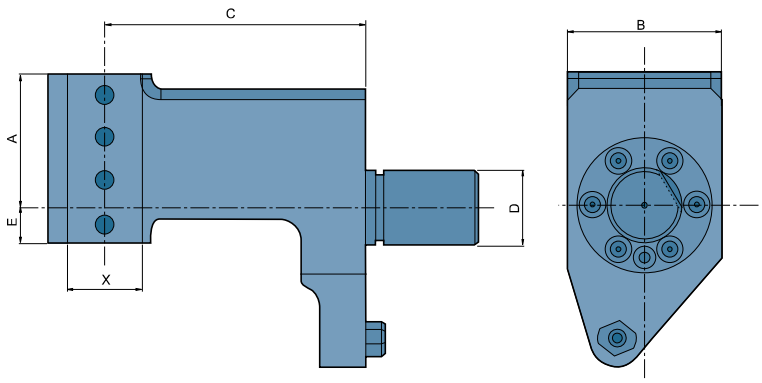
DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
MP-610N-B-A	MP-610N	40	mm	25	5	76	120	5006-526
MP-610N-B-B			inch	1″	0.197″	2.997″	4.724″	5006-527
MP-610N-B-C			mm	32	10	76	120	5006-528
MP-610N-B-D			inch	1.25″	0.394″	2.997″	4.724″	5006-529
MP-615N-B-A	MP-615N	40	mm	25	10	76	130	5006-530
MP-615N-B-B			inch	1″	0.394″	2.997″	5.118″	5006-531
MP-615N-B-C			mm	32	10	76	130	5006-532
MP-615N-B-D			inch	1.25″	0.394″	2.997″	5.118″	5006-533
MP-620N-B-A	MP-620N	40	mm	25	5	82	140	5006-534
MP-620N-B-B			inch	1″	0.197″	3.228″	5.512″	5006-535
MP-620N-B-C			mm	40	10	82	140	5006-536
MP-620N-B-D			inch	1.5″	0.394″	3.228″	5.512″	5006-537

Double Boring Bar Holder

MAZAK SUPER QUICK TURN TYPE

NEW



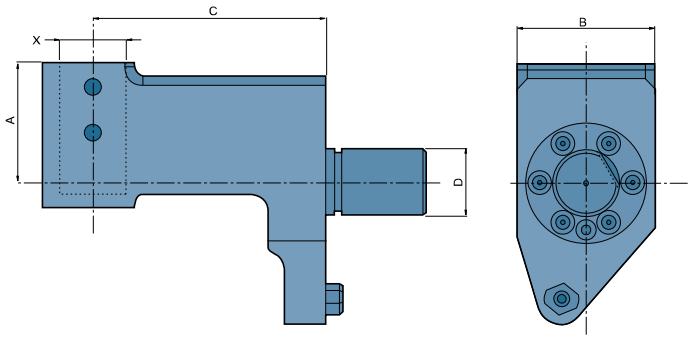
DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	E	CODE NO.
SQT 10M/15AM-DB-M	SQT-10M/15AM	40	mm	20	60	76	110	10	5006-540
SQT 10M/15AM-DB-I			inch	0.75″	2.362″	3″	4.331″	0.394″	5006-541
SQT 15M/18M-DB-M	SQT-15M/18M	40	mm	25	85	84	140	15	5006-542
SQT 15M/18M-DB-I			inch	1″	3.346″	3.307″	5.512″	0.591″	5006-543
SQT 28M/30M-DB-M	SQT-28M/30M	50	mm	32	75	90	180	35	5006-544
SQT 28M/30M-DB-I			inch	1.25″	2.953″	3.543″	7.087″	1.378″	5006-545

U Drill Holder

MAZAK SUPER QUICK TURN TYPE

NEW



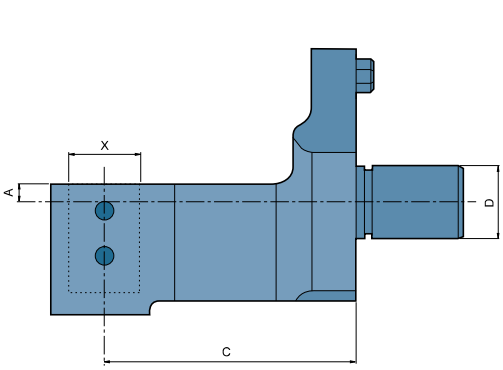
- External, internal coolant supply

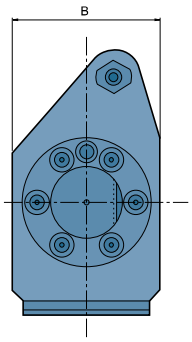
DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
SQT 10M/15AM-UD-M	SQT-10M/15AM	40	mm	32	48	76	110	5006-550
SQT 10M/15AM-UD-I			inch	-	1.890″	2.992″	4.331″	5006-551
SQT 15M/18M-UD-M	SQT-15M/18M	40	mm	40	63	82	140	5006-552
SQT 15M/18M-UD-I			inch	-	2.480″	3.228″	5.512″	5006-553
SQT 28M/30M-UD-M	SQT-28M/30M	50	mm	-				※
SQT 28M/30M-UD-I			inch					※

U Drill Holder

MAZAK MULTIPLEX TYPE





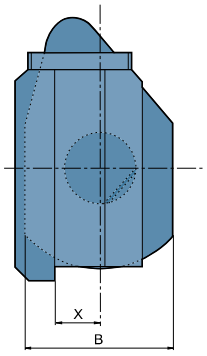
- External, internal coolant supply

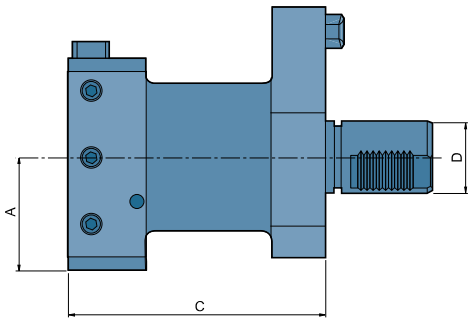
DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
MP-610-UD-M	MP-610	40	mm	25	10	76	120	5006-560
MP-610-UD-I			inch	-	0.394″	2.992″	4.724″	5006-561
MP-620-UD-M	MP-620	40	mm	40	10	82	140	5006-562
MP-620-UD-I			inch	-	0.394″	3.228″	5.512″	5006-563
MP-630-UD-M	MP-630	50	mm					※
MP-630-UD-I			inch					※

Facing Holder - RH

MAZAK SUPER QUICK TURN & MULTIPLEX TYPE



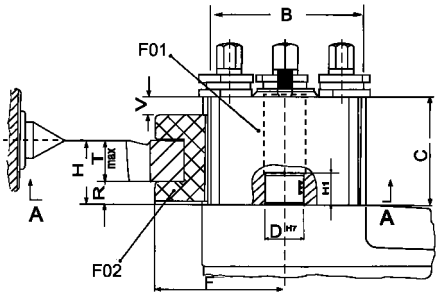


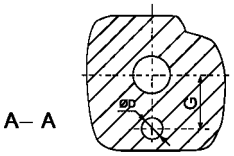
DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
SQT 10M/15AM-FRH-M	SQT-10M/15AM	40	mm	20	65	76	110	5006-570
SQT 10M/15AM-FRH-I			inch	0.75″	2.559″	2.992″	4.331″	5006-571
SQT 15M/18M-FRH-M	SQT-15M/18M	40	mm	25	60	82	143	5006-572
SQT 15M/18M-FRH-I			inch	1″	2.362″	3.228″	5.630″	5006-573
SQT 28M/30M-FRH-M	SQT-28M/30M	50	mm	25	57	90	163	5006-574
SQT 28M/30M-FRH-I			inch	1″	2.244″	3.543″	6.417″	5006-575
MP 610N/615N-FRH-M	MP-610N/615N	40	mm	20	65	76	110	5006-576
MP 410N/415N-FRH-I	MP-410N/415N		inch	0.75″	2.559″	2.992″	4.331″	5006-577
MP 620N/625N-FRH-M	MP-620N/625N	40	mm	25	55	82	143	5006-578
MP 420N-FRH-I	MP-420N		inch	1″	2.165″	3.228″	5.630″	5006-579
MP 630-FRH-M	MP-630	50	mm	25	95	90	163	5006-580
MP 630-FRH-I			inch	1″	3.740″	3.543″	6.417″	5006-581

Quick Change Tool Post & Holders-Italian Style

NEW





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 Boring holder
- Standard spanners

MAIN BODY DIMENSIONS

ORDER NO.	Lathe swing	B	D^{H7}	H		C	E	T_{max}	F	Ømax	Morse NO.	ØD	G	H1	
				Min	Max										
VTP-M	180-250	57.7	18	24	34	45	8	16	56	14	1	7	27	18	70
VTP-AR-AP	250-300	64.5	18	25	41	56	9	16	63	16	1	8	30	16	80
VTP-A	250-350	82.0	24	32	42	60	12	20	75	18	2	10	35	20	100
VTP-BR-BP	300-380	91.6	28	38	53	75	13	25	90	20	3	10	40	20	115
VTP-B	350-500	100.0	30	47	65	85	15	32	100	24	3	12	48.2	25	127
VTP-C	500-650	115.3	38	51	72	94	19	32	108	26	4	14	58.2	26	145

SET TYPE

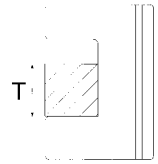
ORDER NO.	5-PIECE SETS EACH SET INCLUDES	G.W. kgs	CODE NO.
VTP-M	1 x F01-M, 3 x F02-M AND 1 x F03-M	3.1	5006-890
VTP-AR-AP	1 x F01-AR-AP, 3 x F02-AR-AP AND 1 x F03-AR-AP	4.5	5006-891
VTP-A	1 x F01-A, 3 x F02-A AND 1 x F03-A	9.3	5006-892
VTP-BR-BP	1 x F01-BR-BP, 3 x F02-BR-BP AND 1 x F03-BR-BP	13.2	5006-893
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

Individually Piece Italian Style

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

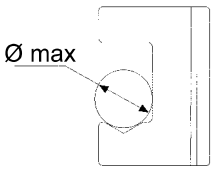
Turning Holder



● Turning Holders

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

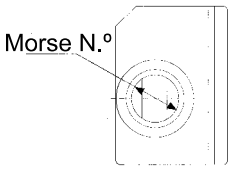
Round Shanks



● 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

European Style

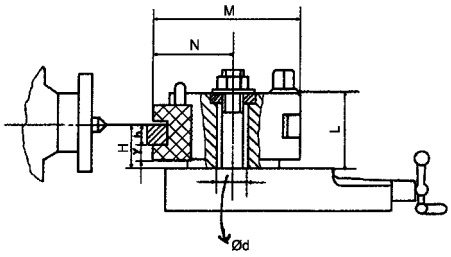
Tool post and tool holders are precisely grounded with 40 tool-bit positions. Easy to operate and can be fitted with many different tool-holders. Locking and loosening of any tool-holders are performed by a simple eccentric clamping. The simplicity and fast tool changing increases the lathe turning production. 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"

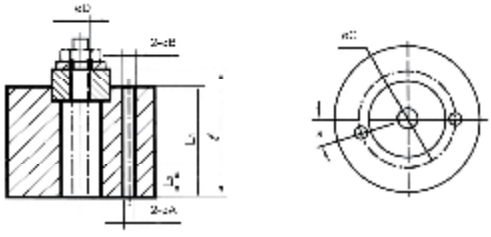
ORDER NO.	5-PIECE SETS EACH SET INCLUDES (5 pcs/set)	G.W. kgs	CODE NO.
VTP-V-A0	1 x tool post F40-0(A0), 2 x F40-010(A0D12x50) and 1 x F40-020(A0B12x50) and 1 x F40-040(A0A2.7x10x50)	1.5	5006-955A
VTP-V-A1	1 x tool post F40-1(A1), 2 x F40-111(A1D16x75) and 1 x F40-140(A1A2.7x10x75) and 1 x F40-121(A1B16x80)	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. / PARAMETER	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	ℓ	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 Positioning European Style

INDIVIDVALLY PIECE EUROPEAN STYLE

NEW

Turning & Facing Holder-"D"

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-"B"

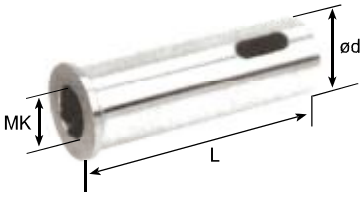
ORDER NO.	Series NO.	Max. Dia (mm)	Length (mm)	CODE NO.
VTP-F40-020	A0B	12	50	5006-960
VTP-F40-121	A1B	16	80	5006-961
VTP-F40-120	A1B	18	80	5006-962
VTP-F40-122	A1B	20	90	5006-963
VTP-F40-220	E5B	30	100	5006-964
VTP-F40-320	B2B	32	130	5006-965
VTP-F40-421	C3B	32	160	5006-966
VTP-F40-422	C3B	40	160	5006-967

Drilling & Boring Bar Holder-"S"

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	80	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-"A"

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-"L"

ORDER NO.	Series NO.	Diameter (mm)	Length (mm)	Morse Taper (mm)	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