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Vertex в России.

Vertex – компания, являющаяся крупнейшим тайваньским экспортером прецизионной инструментальной оснастки и вспомогательного инструмента.



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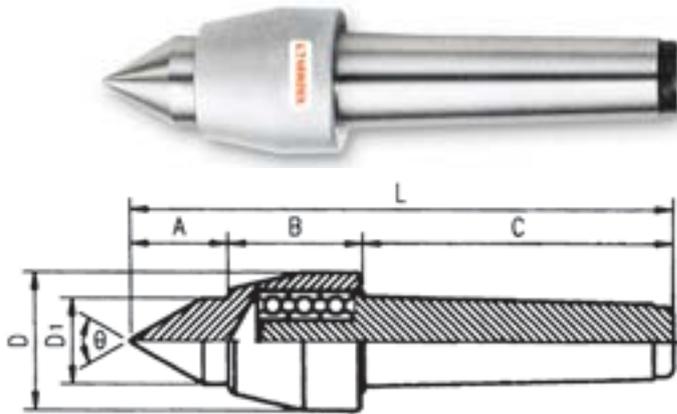
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Light Duty Live Center

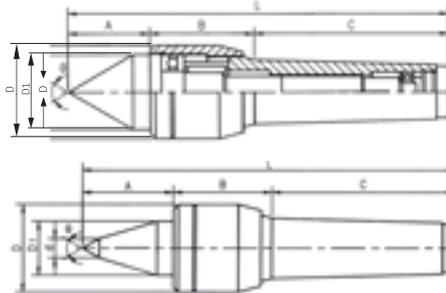
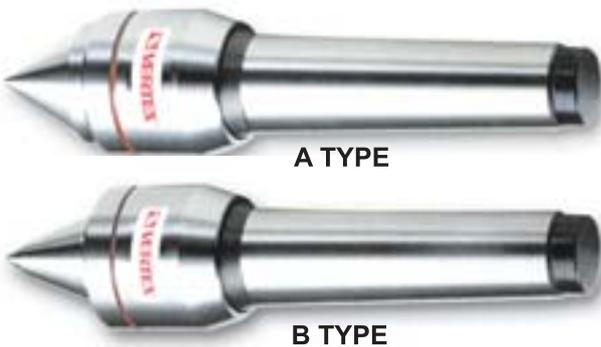


1. Center is made of alloy steel under heating treatment to provide higher rigidity (HRC60°±2°) and satisfied wear-resistance.
 2. Center is constituted by ball bearings assembly.
 3. Applicable to middle-speed & high-speed leathers with light load.
- Unit:mm

ORDER NO.	A	B	C	D	D1	L	Accuracy	Speed Max	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VPC-MT1	21	31	56	32	16	108	0.005	3200RPM	60°	0.25kgs	115x136x38	5001-001
VPC-MT2	26	37	69	40	22	132	0.005	2800RPM	60°	0.48kgs	140x45x45	5001-002
VPC-MT3	32	46	86	45	26	164	0.005	2000RPM	60°	0.83kgs	170x50x52	5001-003
VPC-MT4	34	46	108	48	30	188	0.005	1800RPM	60°	1.22kgs	195x58x56	5001-004
VPC-MT5	50	62	136	68	45	248	0.005	1500RPM	60°	3.3kgs	268x86x77	5001-005



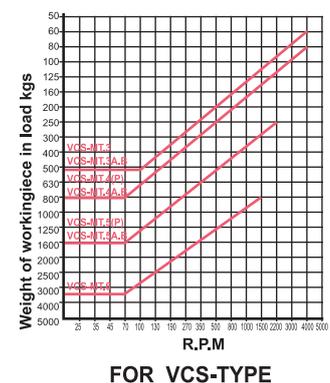
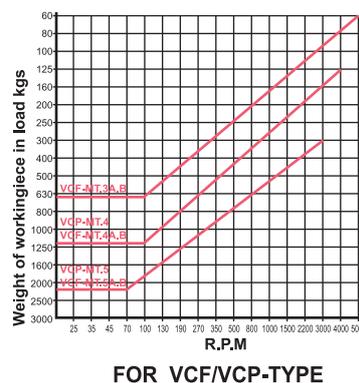
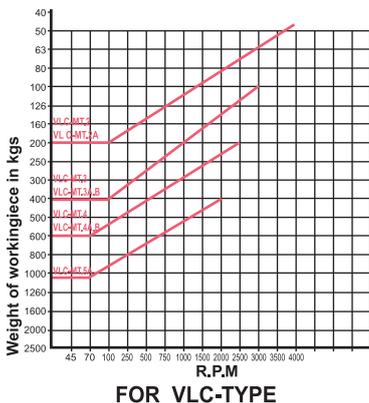
Live Lathe Center



1. Center shaft & main body are made of alloy steel under heating treatment to provide higher rigidity (HRC60°±2°) and satisfied wear-resistance.
 2. Center is constituted by thrust ball bearing needle roller bearings & ball bearings assembly.
 3. Applicable to middle-speed & high-speed leathers with heavy load.
- ※BTYPE SUITABLE FOR SMALL - WORKPIECE MACHINING.
- Unit:mm

ORDER NO.	TYPE	A	B	C	D	D1	b	L	d1	ACCURACY	SPEED MAX	θ	G.W. WEIGHT KGS	PACKING LXWXH	CODE NO.
VLC-212	MT2A	28	35	69	32	25	-	132	-	0.005	4000RPM	60°	0.4kgs	173x43x40	5001-010
VLC-213	MT3A	36	44	86	41	35	-	166	-	0.005	3000RPM	60°	0.88kgs	198x67x51	5001-011
VLC-214	MT4A	41	51	108	47	40	-	200	12	0.005	2500RPM	60°	0.46kgs	240x70x61	5001-012
VLC-215	MT5A	54	72	136	65	52	-	262	18	0.005	2000RPM	60°	3.66kgs	290x92x80	5001-013
VLC-213B	MT3B	46	44	86	41	25	10	176	-	0.005	3000RPM	60°	0.88kgs	198x67x51	5001-014
VLC-214B	MT4B	55	51	108	47	32	12	214	12	0.005	2500RPM	60°	1.46kgs	240x70x61	5001-015

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

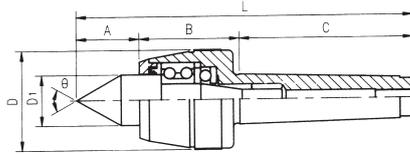




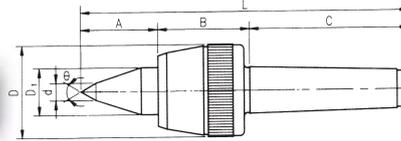
High-Speed NC Live Center



A TYPE



B TYPE



WATER-PROOF TYPE

- Center shaft is made of SKS3 material under vacuum heating treatment to provide higher rigidity (HRC60 \pm 2 $^\circ$) and satisfied wear-resistance.
 - Center is constituted by dual ball bearing. Thrust bearing & needle roller bearing assembly.
 - Applicable to high-speed leather & NC leather with heavy load water-proof.
- ※ B Type is applicable in the metal workings on small workpieces.

Unit:mm

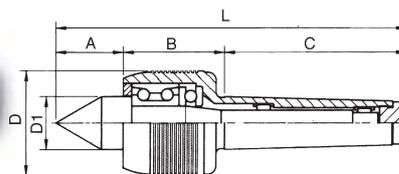
ORDER NO.	TYPE	A	B	C	D	D1	b	L	d1	Accuracy	Speed Max	θ	G.W. weight kgs	Packing L x W x H	CODE NO.
VLC-MT3A	MT3A	39	55	86	53	30	-	180	12	0.005	4000RPM	60 $^\circ$	1.28Kgs	240x70x61	5001-020
VLC-MT4A	MT4A	42	62	108	63	32	-	212	12	0.005	3000RPM	60 $^\circ$	2.2Kgs	253x92x80	5001-021
VLC-MT5A	MT5A	57	71	136	83	40	-	264	18	0.005	2500RPM	60 $^\circ$	4.33Kgs	303x108x101	5001-022
VLC-MT6A	MT6A	80	115	139	128	70	-	384	-	0.008	1500RPM	60 $^\circ$	14.2Kgs	410x177x168	5001-023
VLC-MT3B	MT3B	45	55	86	53	30	10	186	12	0.005	4000RPM	60 $^\circ$	1.28Kgs	240x70x61	5001-024
VLC-MT4B	MT4B	52	62	108	63	32	12	222	12	0.005	3000RPM	60 $^\circ$	2.2Kgs	253x92x80	5001-025
VLC-MT5B	MT5B	67	71	136	83	40	14	274	18	0.005	2500RPM	60 $^\circ$	4.42Kgs	303x108x101	5001-026



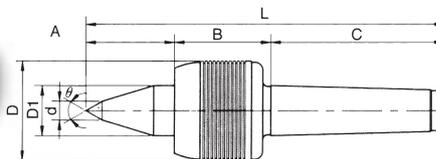
High-load NC Live Center



A TYPE



B TYPE



- Shaft uses material SKD11: through vacuum heat treatment, it is even more durable, hardness is as high as (HRC60 \pm 2 $^\circ$) 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 leather at high-speed & heavy-load operation, water-proof.
- ※ B Type is applicable in the metal workings on small workpieces.

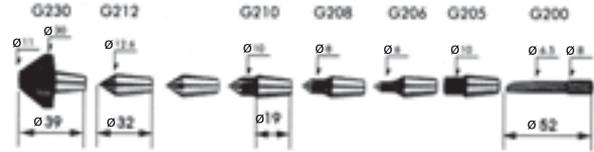
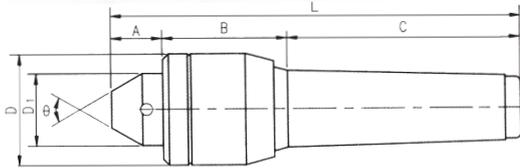
ORDER NO.	A	B	C	D	D1	b	L	d1	Accuracy	Speed Max	θ	G.W. weight kgs	Packing L x W x H	CODE NO.
VCF-MT3A	38	50	86	53	30	-	174	12	0.003	5000RPM	60 $^\circ$	1.28kgs	240 x 70 x 61	5001-030
VCF-MT4A	45	60	108	68	32	-	213	12	0.003	4500RPM	60 $^\circ$	2.45kgs	253 x 92 x 80	5001-031
VCF-MT5A	52	70	136	87	40	-	258	18	0.003	3000RPM	60 $^\circ$	4.65kgs	303 x 108 x 101	5001-032
VCF-MT3B	52	50	86	53	25	10	188	12	0.003	5000RPM	60 $^\circ$	1.3 kgs	240 x 70 x 61	5001-033
VCF-MT4B	55	60	108	68	32	12	223	12	0.003	4500RPM	60 $^\circ$	2.46kgs	253 x 92 x 80	5001-034
VCF-MT5B	67	70	136	87	40	14	273	18	0.003	3000RPM	60 $^\circ$	4.7 kgs	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 accuracy 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	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VLC-312	MT2	22	36	69	32	25	-	127	-	0.008	4000RPM	60°	0.85kgs	166 x 105 x 63	5001-040
VLC-313	MT3	23	44	86	41	30	-	153	-	0.008	3000RPM	60°	1.4 kgs	255 x 138 x 100	5001-041
VLC-314	MT4	23	51	108	47	32	-	182	-	0.008	2500RPM	60°	1.92kgs	255 x 138 x 100	5001-042

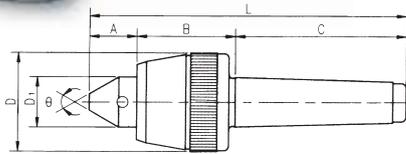


High Speed NC Interchangeable Points Live Center

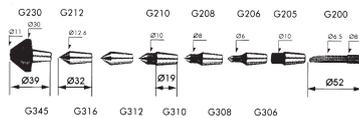
Water-Proof Type



1. Center shaft is made of SKS3 material under vacuum heating treatment to provide higher rigidity (HRC60°+2°) and satisfied wear-resistance.
2. Center is constituted by dual ball bearing. Thrust bearing & needle roller bearing assembly.
3. Applicable to high-speed leathe & NC leathe with heavy load water-proof.



VCS-MT3,MT4



VCS-MT4P,MT5P



Unit:mm

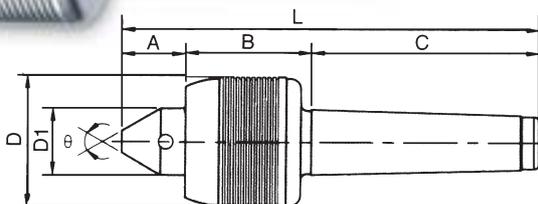
ORDER NO.	A	B	C	D	D1	b	L	d1	Accuracy	Speed Max	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCS-MT3	28	55	86	53	30	-	167	-	0.008	4000RPM	60°	1.8 kgs	255 x 138 x 100	5001-050
VCS-MT4	30	62	108	63	32	-	196	-	0.008	3500RPM	60°	2.53kgs	255 x 138 x 100	5001-051
VCS-MT4P	30	62	108	63	32	-	196	-	0.008	3500RPM	60°	2.4 kgs	235 x 130 x 80	5001-052
VCS-MT5P	34	71	136	83	40	-	237	-	0.008	2500RPM	60°	5 kgs	275 x 147 x 97	5001-053



High Load Interchangeable Point Live Center



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



Unit:mm

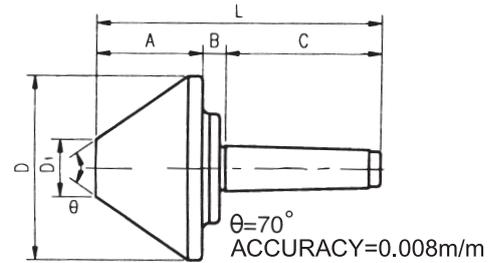
ORDER NO.	A	B	C	D	D1	b	L	d1	Accuracy	Speed Max	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCP-MT4	35	60	108	68	32	-	203	-	0.005	4500RPM	60°	2.76 kgs	235 x 130 x 80	5001-060
VCP-MT5	37	70	136	87	40	-	243	-	0.005	3000RPM	60°	5 kgs	275 x 147 x 97	5001-061



Bull Nose Center



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



Unit:mm

Unit:mm

ORDER NO.	SIZE	A	C	D	D1	L	SPEED MAX RPM	RPM100 LOAD WEIGHT (KGS)	G.W. WEIGHT (KGS)	CODE NO.
VLC-433	MT3x3"	52	86	78	15	156	3300	400	1.30	5001-070
VLC-434	MT3x4"	59	86	106	25	161	3000	500	2.70	5001-071
VLC-443	MT4x3"	52	108	78	15	178	3300	400	1.45	5001-072
VLC-444	MT4x4"	59	108	106	25	183	3000	500	3.00	5001-073
VLC-445	MT4x5"	73	108	128	40	193	2000	650	4.80	5001-074

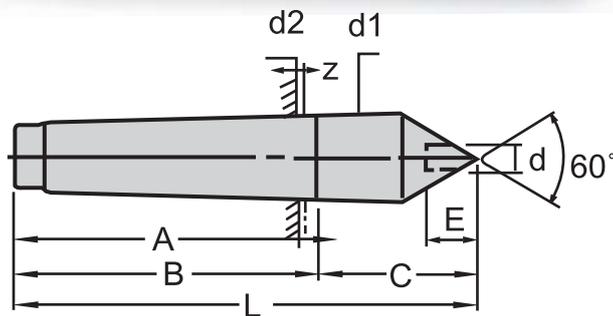
ORDER NO.	SIZE	A	C	D	D1	L	SPEED MAX RPM	RPM100 LOAD WEIGHT (KGS)	G.W. WEIGHT (KGS)	CODE NO.
VLC-446	MT4x6"	88	108	156	45	208	1900	800	7.60	5001-075
VLC-448	MT4x8"	98	108	206	81	218	1500	1300	17.0	5001-076
VLC-455	MT5x5"	73	136	128	40	221	2000	650	5.80	5001-077
VLC-456	MT5x6"	88	136	156	45	236	1900	800	8.50	5001-078
VLC-458	MT5x8"	98	136	206	81	246	1500	1600	18.00	5001-079



Lathe Centers



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



Unit:mm

ORDER NO.	SIZE	L	A	B	C	E	d2	d1	d	WEIGHT	CODE NO.
VLC-112	MT-2	100	69	67	31	8	17.780	18.0	6	0.13 kg	5001-090
VLC-113	MT-3	125	89	81	39	10	23.825	24.1	8	0.32 kg	5001-091
VLC-114	MT-4	155	109	102.5	46	14	31.267	31.6	10	0.7 kg	5001-092
VLC-115	MT-5	300	136	129.5	64	18	44.399	44.7	14	1.9 kg	5001-093
VLC-116	MT-6	270	190	182	80	30	63.648	63.8	18	5.6 kg	5001-094



Work-Driving Center



VDK-15



VDK-23



VDK-32

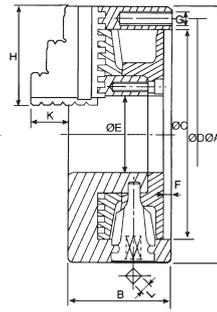
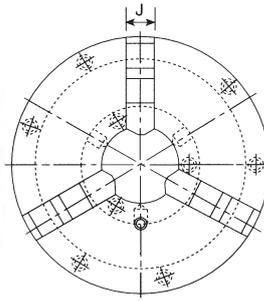
1. This Clamp-free center is comprised of excellent mechanical structure, nearly free of breakdown. main body & center shaft are made of sld material under heating treatment(HRC62°).
2. Driving is required for traditional lathe machining to prevent workpiece from stop. This clamp-free center with 6 T & 8T design on end surface is able to securely support work-piece surface to fulfill easy and rapid machining.

Unit:mm

ORDER NO.	Center Shaft size	Outer dia	Working Range	Weight	CODE NO.
VDK-15-MT4	6ø	16ø	16ø - 25ø	0.60 kg	5001-100
VDK-23-MT4	8ø	23ø	23ø - 32ø	0.65 kg	5001-101
VDK-32-MT4	8ø	32ø	32ø - 45ø	0.7 kg	5001-102



3-Jaw Scroll Chuck



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

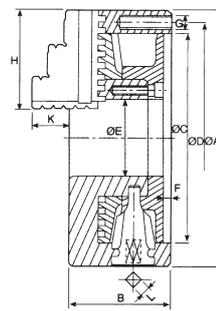
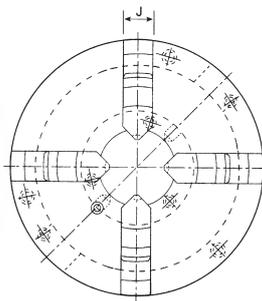
SPECIFICATIONS

Unit:mm

ORDER NO.	Dim											Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m ²)	Weight (kg)	Max. Speed (r.p.m.)	Gripping Range		CODE NO.
	A	B	C	D	E	F	G	H	J	K	L						O.D.range	I.D.Range	
VSC-3	85	46	60	73	16	4	3-M6	36	11	15	7	3.0	900	—	1.7	3500	Ø2-Ø70	Ø24-Ø64	5002-001
VSC-4	112	59	80	95	24	4.5	3-M8	42	14	18	8	4.5	1200	—	3.7	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	5.2	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	9.3	4000	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	3500	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	16	3200	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	22.7	2900	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	31.8	2500	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	44.8	2200	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



4-Jaw Scroll Chuck



1. Gripping of square or octagonal workpiece could fit into central line automatically.
2. SIC have high stability in gripping thin tube work piece.
3. The specification is the same as VSC type.
4. The body is made of MEEHANITE. It is suitably used for high speed revolution and 3 times more durable than regular chucks.

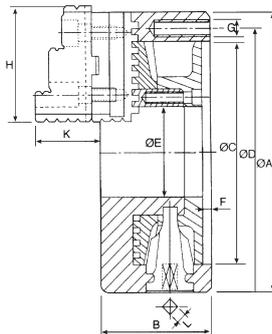
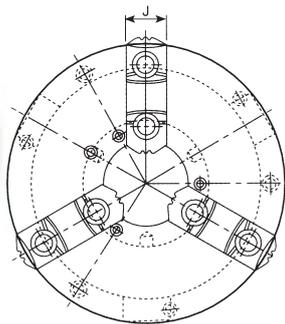
SPECIFICATIONS

Unit:mm

ORDER NO.	Dim											Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m ²)	Weight (kg)	Max. Speed (r.p.m.)	Gripping Range		CODE NO.
	A	B	C	D	E	F	G	H	J	K	L						O.D.range	I.D.Range	
VPS-7	192	76.5	155	172	58	5	3-M10	77	21.5	28	11	11.0	3600	0.06	14.8	3500	Ø4-Ø180	Ø56-Ø170	5002-200
VPS-9	232	75	190	210	70	6	3-M12	87	24	33	12	15.0	3900	0.16	23.2	2900	Ø5-Ø220	Ø62-Ø210	5002-201
VPS-12	310	96	260	285	105	7	3-M12	110	30	44	14	21.0	5700	0.58	47	2200	Ø10-Ø300	Ø86-Ø290	5002-202
VPS-16	405	122	345	375	145	8.5	6-M14	146	42	56	15	23.0	4500	1.72	107	1500	Ø14-Ø400	Ø100-Ø380	5002-203



3-Jaw Powerful Scroll Chuck



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

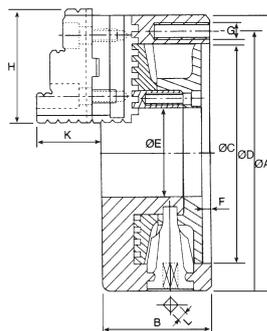
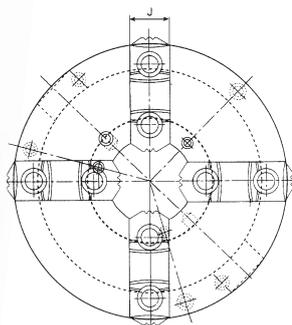
SPECIFICATIONS

Unit:mm

ORDER NO.	Dim											Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m ²)	Weight (kg)	Max. Speed (r.p.m.)	Gripping Range		CODE NO.
	A	B	C	D	E	F	G	H	J	K	L						O.D.range	I.D.Range	
VSK-6	165	67	130	147	45	5	3-M10	72	26	39	10	9.0	3300	0.03	9	4000	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	3500	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	15.5	3200	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	2900	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	29.7	2500	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	43.5	2200	Ø15-Ø300	Ø90- Ø290	5002-035
VSK-15	381	110.5	310	342	128	9.5	6-M14	135	50	67.5	15	23.0	4000	1.1	69	1500	Ø25-Ø320	Ø110-Ø310	5002-036
VSK-16	405	122	345	375	145	8.5	6-M14	150	50	75	15	23.0	4500	1.72	98	1500	Ø30-Ø400	Ø110-Ø380	5002-037



4-Jaw Powerful Scroll Chuck



1. Hard jaws are adopted for square for square or octagonal thin tube workpieces machining.
- 2.Soft jaws could grip rectangular workpiece after being unisotropic machined.
- 3.The specification is the same as SK type.
- 4.The body is made of MEEHANITE. It is suitably used for high speed revolution and 3 times more durable than regular chucks.

REVERSIBLE TOP JAWS TYPE

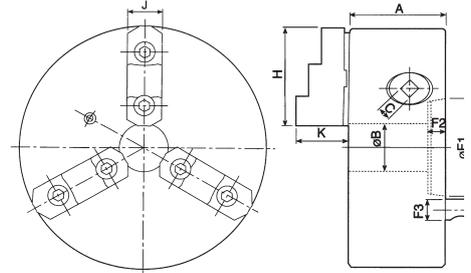
SPECIFICATIONS

Unit:mm

ORDER NO.	Dim											Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m ²)	Weight (kg)	Max. Speed (r.p.m.)	Gripping Range		CODE NO.
	A	B	C	D	E	F	G	H	J	K	L						O.D.range	I.D.Range	
VPSK-7	192	76.5	155	172	58	5	3-M10	82	28	43	11	11.0	3600	0.06	14.1	3500	Ø8- Ø180	Ø62- Ø170	5002-210
VPSK-9	232	84	190	210	70	6	3-M12	96	32	50	12	15.0	3900	0.16	22.2	2900	Ø11-Ø220	Ø70- Ø210	5002-211
VPSK-12	310	96	260	285	105	7	3-M12	114	40	56	14	21.0	5700	0.58	45	2200	Ø15-Ø300	Ø90- Ø290	5002-212
VPSK-16	405	122	345	375	145	8.5	6-M14	150	50	75	15	23.0	4500	1.72	108	1500	Ø30-Ø400	Ø110-Ø380	5002-213



3-Jaw Strong Scroll Chucks D1 Camlock Direct Mounting



(ASA spindle nose D1-4,D1-5,D1- 6,D1-8)

American standard camlock type with 2-piece reversible hard top jaws.

- 1.Gripping accuracy of 0.03mm(0.002inch)T.I.R.
- 2.Standard accessories

A chuck wrench and hex. key One set of mounting bolts.(UNC-bolts)

- 3.The body is made of MEEHANITE.

It is suitably used for high speed revolution and 3 times more durable than regular chucks.

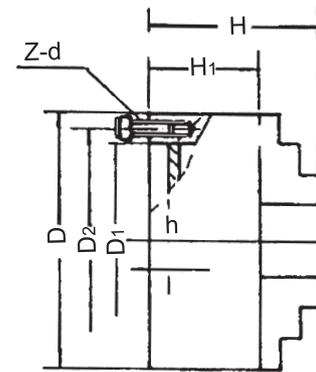
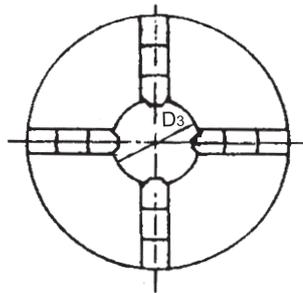
SPECIFICATIONS

Unit:mm

ORDER NO.	DIM Spindle Size	Chuck Size	A	B	C	H	J	K	Mounting Dimensions				Gripping Range		Weight (kg)	Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m ²)	Max. Speed (r.p.m.)	CODE NO.
									F1	F2	F3	F4	O.D. range	I.D. range						
KD4-6"	D1-4	165	72	46	10	72	26	39	63.5	13	15.8	82.55	Ø8-Ø160	Ø55-Ø150	11	90	3300	0.04	4000	5002-060
KD5-8"	D1-5	200	77	46	11	82	28	42	82.563	14.3	19	104.78	Ø8-Ø180	Ø62-Ø170	18	11.5	3600	0.07	3200	5002-061
KD6-8"	D1-6	200	77	58	11	82	28	42	106.375	16	22	133.35	Ø8-Ø180	Ø62-Ø170	17	17	3600	0.07	3200	5002-063
KD6-10"	D1-6	250	86	76	12	96	32	50	106.375	16	22	133.35	Ø11-Ø220	Ø70-Ø210	29.5	19.5	4800	0.2	2500	5002-064
KD6-12"	D1-6	306	107	103	14	114	40	57	106.375	16	22	133.35	Ø15-Ø300	Ø90-Ø290	47	21.0	5700	0.5	2200	5002-065



4-Jaw Independent Chuck Plain Back



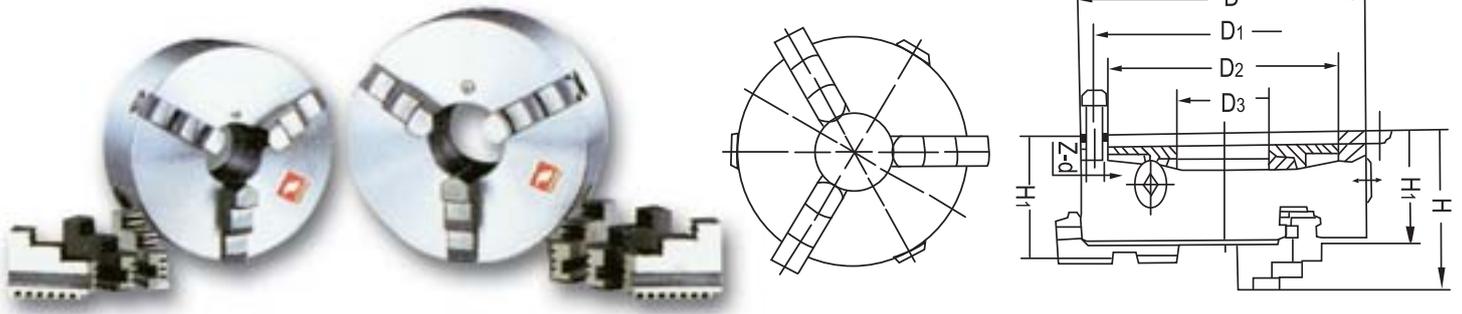
Unit:mm

ORDER NO.	D-Size	D1	D2	D3	H	H1	h	Z-d	WEIGHT	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				5002-221
VKC-6	160mm(6")	65	95	45	93	65	5	4-M10	9	5002-222
VKC-8	200mm(8")	75		56	107	75				15.5
VKC-10	250mm(10")	110	75	120	80	27				5002-224
VKC-12A	300mm(12")	152	130	75	134	90	6	4-M12	27	5002-225
VKC-12B	320mm(12")	140								165
VKC-14	350mm(14")	130	168	95	134	90				54
VKC-16	400mm(16")	160	185	125	143	95	8	4-M16	60	5002-228
VKC-20	500mm(20")	200	236	160	161	106			105	5002-229
VKC-25	630mm(25")	220	258	180	180	118	10	4-M20	175	5002-230
VKC-32	800mm(32")	250	300	210	202	132			300	5002-231



3 Jaw Self Centering Chuck Economical Type

2 set of solid jaw plain back

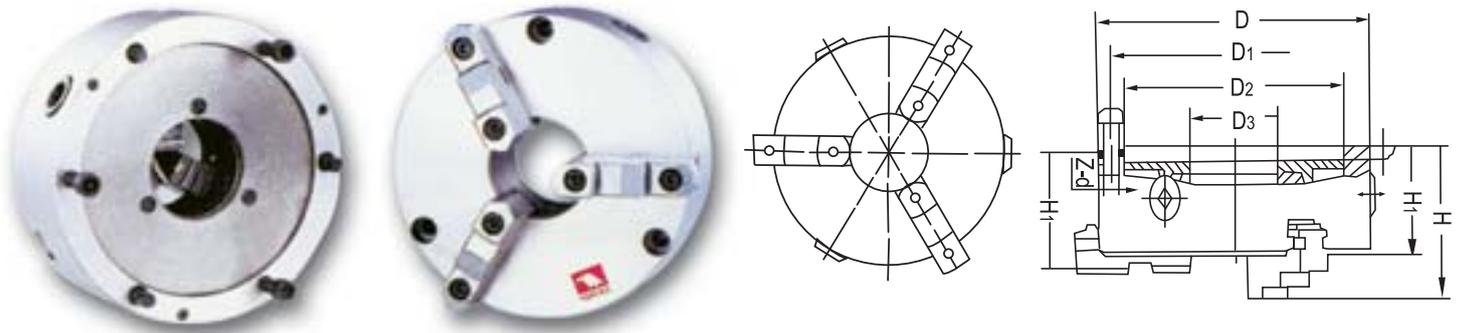


ORDER NO.	D-Size	D1	D2	D3	H	H1	h	Z-d	WEIGHT(kg)	CODE NO.
VSC-3C	80mm(3")	55	66	16	66	50	3.5	3-M6	2.2	5002-020
VSC-4C	100mm(4")	72	84	22	74.5	55	3.5	3-M8	3.5	5002-021
VSC-5C	130mm(5")	100	115	33	78	55	3.5	3-M8	5.5	5002-022
VSC-6C	160mm(6")	130	142	40	95	65	5	3-M8	10	5002-023
VSC-7C	190mm(7 1/2")	155	172	55	105	75	5	3-M10	10	5002-024
VSC-8C	200mm(8")	165	180	70	109	75	5	3-M10	19	5002-025
VSC-9C	240mm(9 1/2")	195	215	70	122.5	80	10	3-M12		5002-026
VSC-10C	250mm(10")	206	225	80	120	80	5	3-M12	26	5002-027



3 Jaw Powerful Self Centering Chuck Economical Type

Reversible Top Jaws.Plain Back



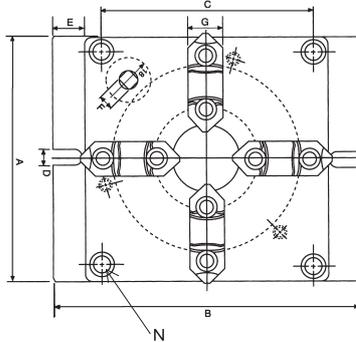
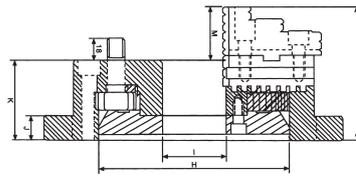
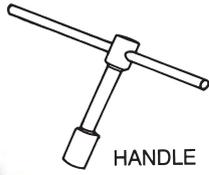
ORDER NO.	D-Size	D1	D2	D3	H	H1	Z-d	WEIGHT(kg)	CODE NO.
VSK-6C	165mm(6")	132	144	40	95	71	3-M8	10	5002-040
VSK-7C	190mm(7-1/2")	155	172	55	105	75	3-M10		5002-041
VSK-8C	200mm(8")	165	180	65	109	78	3-M12	15.5	5002-042
VSK-10C	250mm(10")	195	226	80	120	84	3-M12	26	5002-043
VSK-13C	325mm(13")	272	296	100	154.5	102.5	3-M16	46	5002-044
VSK-15C	380mm(15")	325	350	135	156.5	104.5	3-M16	72	5002-045
VSK-16C	400mm(16")	345	370	160	181.5	129.5	3-M16	80	5002-046

3 JAW SELF CENTERING CHUCK 2 SET OF SOLID JAW PLAIN BACK

3 JAW SELF CENTERING CHUCK REVERSIBLE TOP JAWS. PLAIN BACK



Machining Jaw Chuck



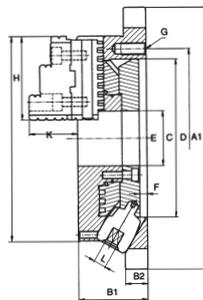
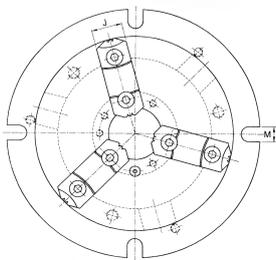
- Works are gripped firmly by the formed jaws, ensuring high precision. (Deviation: within 0.03mm)
- * Use forming rings (jaw locks) to form the soft-jaws.
- Large workpieces can be held tight with the low profile vise body.
- Able to grip square works by using this chuck as a two-way jaw unit, *The fixed jaw (optional) is necessary. Longitudinal works can also be gripped by using the bore of this chuck with the cover removed.
- 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.

Unit:mm

ORDER NO.	A	B	C	D	E	G	H	I	J	K	L	M	N	MAX. GRIPPING DIAMETER		WEIGHT(kg)	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	13.7	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	35.6	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



1. The angle between "HANDLE" AND "BASE OF CHUCK" is 30° degree, There Fore, it is much more convenient for "HANDLE" rotation.
2. This "POWER SUPER THIN" design of chuck may increase the "allowable length" of machining operation.
3. The flanged type design make it easily for loading and unloading operation.
4. "POWERFUL TYPE" design, may be used with hard jaws or soft jaws alternatively.

SPECIFICATIONS

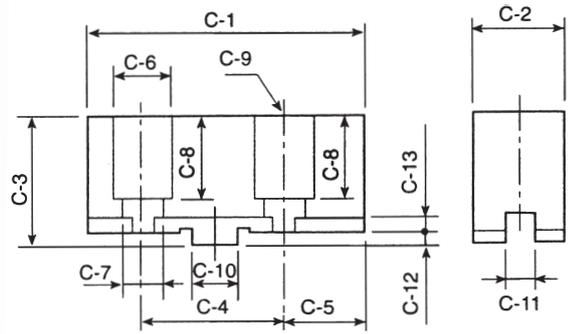
Unit:mm

ORDER NO.	DIM														Weight (kg)	Gripping Range		CODE NO.
	A1	A2	B1	B2	C	D	E	F	G	H	J	K	L	M		O.D.range	I.D.range	
VNBK-6	220	170	58	18	130	147	45	6	3-M10	68	26	40	10	13	11	ø8-160	ø48-150	5002-070
VNBK-8	270	210	65	20	155	172	60	6	3-M10	85	28	45	11	13	19.5	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	42.5	ø15-300	ø86-290	5002-073



Soft Jaw For SK-Type Chuck

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



Unit:mm

THE SPECIAL OF HEIGHT (C-3) FOR VSJ-TYPE IS AVAILABLE

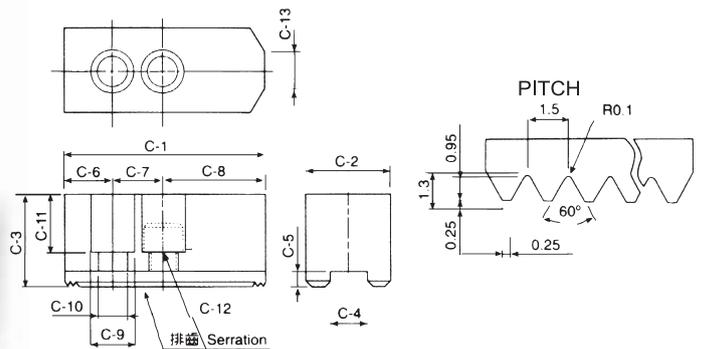
DIM ORDER NO.	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	WEIGHT	CODE NO.
VSJ-6	75	26	38	38.1	18	14	8.5	27	M8	12.68	7.94	3	3.5	1.36	5002-300
VSJ-7	95	31	48	44.45	25	17	11	35	M10	12.68	7.94	3	3.5	2.63	5002-301
VSJ-8	95	31	48	44.45	25	17	11	35	M10	12.68	7.94	3	3.5	2.63	5002-302
VSJ-9	110	37	50	53.98	28	19	13	36	M12	19.03	12.7	3	3.5	3.70	5002-303
VSJ-10	110	37	50	53.98	28	19	13	36	M12	19.03	12.7	3	3.5	3.70	5002-304
VSJ-12	125	40	54	63.5	32	19	13	40.5	M12	19.03	12.7	3	3.5	5.19	5002-305
VSJ-16	160	50	70	76.2	42	25	17	48	M16	19.03	12.7	6	5.5		5002-306

MODEL ORDER NO.	VSJ-6	VSJ-7 VSJ-8	VSJ-9	VSJ-10	VSJ-12
50H	VSJ-6-5	VSJ-8-5	VSJ-9-5	VSJ-10-5	VSJ-12-5
60H	VSJ-6-6	VSJ-8-6	VSJ-9-6	VSJ-10-6	VSJ-12-6
70H	VSJ-6-7	VSJ-8-7	VSJ-9-7	VSJ-10-7	VSJ-12-7
80H	VSJ-6-8	VSJ-8-8	VSJ-9-8	VSJ-10-8	VSJ-12-8
90H			VSJ-9-9	VSJ-10-9	VSJ-12-9
100H			VSJ-9-10	VSJ-10-10	VSJ-12-10



Soft Jaw Hydraulic Power Chucks

1. Soft jaw for SK-type chuck. 2. Soft jaw for CNC lathe.



Unit:mm

THE SPECIAL OF HEIGHT (C-3) FOR VHC-TYPE IS AVAILABLE

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	CODE NO.
VHC-05	54	23	25	10	4	12	14	28	13.5	8.5	16	M8	8		5002-330
VHC-06	73	32	36	12	6	15	20	38	17	11	23	M10	14	1.5	5002-331
VHC-08	95	35	37	14	6	24	25	54	19	13	28	M12	16	2.35	5002-332
VHC-10	110	40	42	16	6	30	30	50	19	13	27	M12	18	3.65	5002-333
VHC-12	130	50	50	21	6	39	30	60	23		30	M16	18	6.51	5002-334
VHC-15	165	62	62	22	6	37	43	85	32	21	38	M20	-		5002-335
VHC-12-1	130	50	50	18	5	39	30	60	23	15	30	M14	18	6.51	5002-336
VHC-15-1	135	50	60	25.5	5	26	43	66	32	21	39	M20	-		5002-337

MODEL ORDER NO.	VHC-05	VHC-06	VHC-08	VHC-10	VHC-12 18SLOT	VHC-12 21SLOT	VHC-15
50H	VHC-05-5	VHC-06-5	VHC-08-5	VHC-10-5	VHC-12-5A	VHC-12-5	VHC-15-5
60H	VHC-05-6	VHC-06-6	VHC-08-6	VHC-10-6	VHC-12-6A	VHC-12-6	VHC-15-6
70H	VHC-05-7	VHC-06-7	VHC-08-7	VHC-10-7	VHC-12-7A	VHC-12-7	VHC-15-7
80H	VHC-05-8	VHC-06-8	VHC-08-8	VHC-10-8	VHC-12-8A	VHC-12-8	VHC-15-8
90H				VHC-10-9	VHC-12-9A	VHC-12-9	VHC-15-9
100H				VHC-10-10	VHC-12-10A	VHC-12-10	VHC-15-10



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.

THE CHUCK NOT INCLUDING

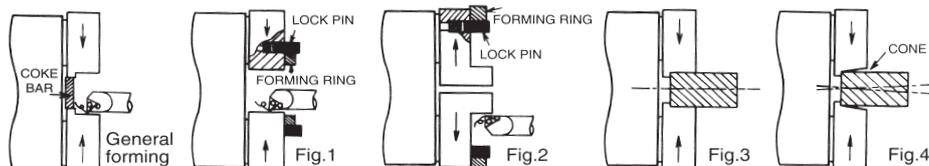
FAETURES

- Forming ring is available for 5", 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 endureable.
- More improvement for used chuck to have high accuracy & strong clamping force .

INSTRUCTION

Because the forming ring is used for cutting forming soft jaw by clamping. extending through-hole. therefore increasing the accuracy of clamping workpiece. (please refer to fig.1.2&3)

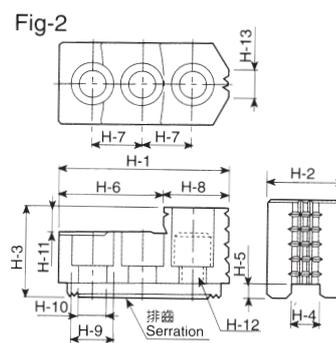
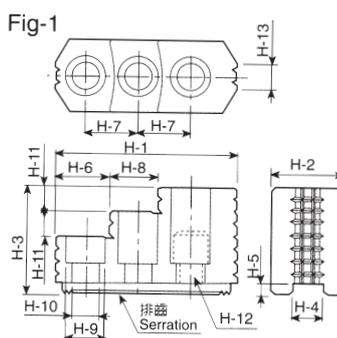
As fig.4 the soft jaw is made without forming ring. So that. the cone is made. and bad round-out. more vibration and less clamping force emerge.



ORDER NO.	SUIT TO SK-CHUCK SIZE	CODE NO
VFR-05	5"	5002-360
VFR-06	6"	5002-361
VFR-08	8"	5002-362
VFR-10	10"	5002-363
VFR-12	12"	5002-364



Hard Jaws For Hydraulic Power Chucks



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

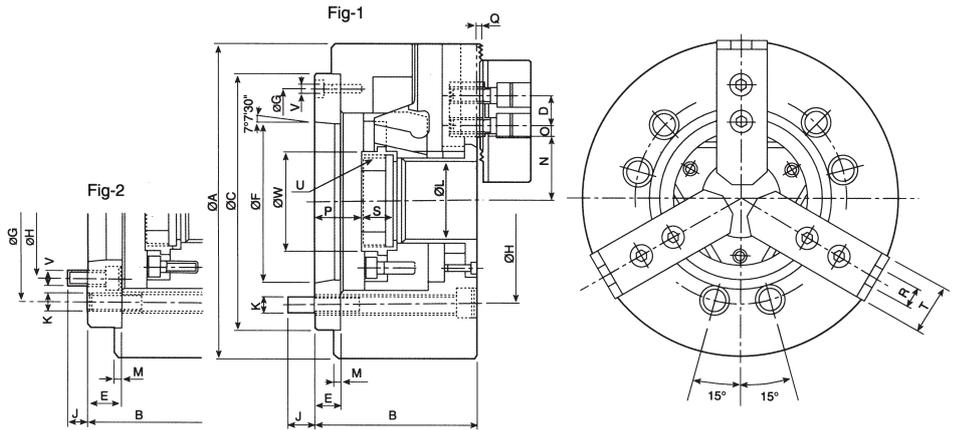
DIMENSIONS

Unit:mm

ORDER NO.	Dim													Serration Pitch	Matching Chuck	3Jaw Weight(kg)	CODE NO	
	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					
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)



1. More large bore:
Having the largest bore in wedge type power operated chucks.
2. 20% large bore:
Approximately 20% higher speed, higher gripping force and larger bore compared with usual chucks.
3. Mode N-200A chucks are assembled with adaptor for ASA B5.9 type A spindles.
4. Model N-200A chucks are manufactured from high grade alloy steel, All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.

SPECIFICATIONS

Unit:mm

Dim	ORDER NO.	N-205A4	N-206A5	N-208A5	N-208A6	N-210A6	N-210A8	N-212A8	N-215A8	N-215A11
Through-Hole(mm)		ø33	ø45	ø52	ø52	ø75	ø75	ø91	ø117.5	ø117.5
Plunger Stroke(mm)		10	12	16	16	19	19	23	23	23
Jaw Stroke(mm)		5.4	5.5	7.4	7.4	8.8	8.8	10.6	10.6	10.6
Max.Draw Bar Pull Force(kgf)		1700	2200	3400	3400	4300	4300	5500	7240	7240
Max.Gripping Force(kgf)		3600	5700	8800	8800	11000	11000	14300	18355	18355
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(kg)		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		HC05	HC06	HC08	HC08	HC10	HC10	HC12	HC15	HC15
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

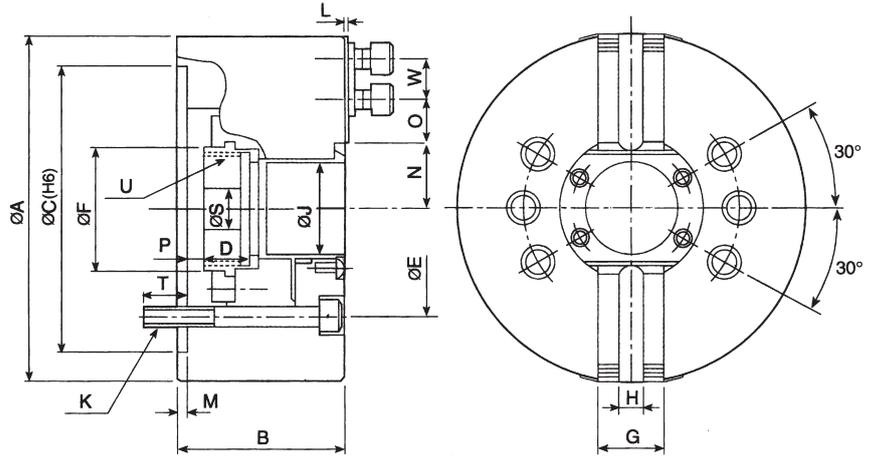
DIMENSIONS

Unit:mm

Dim	ORDER NO.	N-205A4	N-206A5	N-208A5	N-208A6	N-210A6	N-210A8	N-212A8	N-215A8	N-215A11
A		135	169	210	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		63.513	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	M60x20	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)



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

SPECIFICATIONS

Unit:mm

Dim	ORDER NO.	NT205	NT206	NT208	NT210	NT212	NT215
Through-Hole(mm)		∅33	∅45	∅52	∅75	∅91	∅117.5
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(kg)		5.9	13	22.1	33.2	61.9	115
Matching Cylinder		M1036	M1246	M1552	M1875	M2091	M2511
Max.Operating Pressure(kg/cm ²)		19.5	18.9	17.3	18.4	18.4	15.3
Matching Soft Jaw		HC05	HC06	HC08	HC10	HC12	HC15
Matching Hard Jaw		HJ05	HJ06	HJ08	HJ10	HJ12	HJ15
CODE NO.		5002-250	5002-251	5002-252	5002-253	5002-254	5002-255

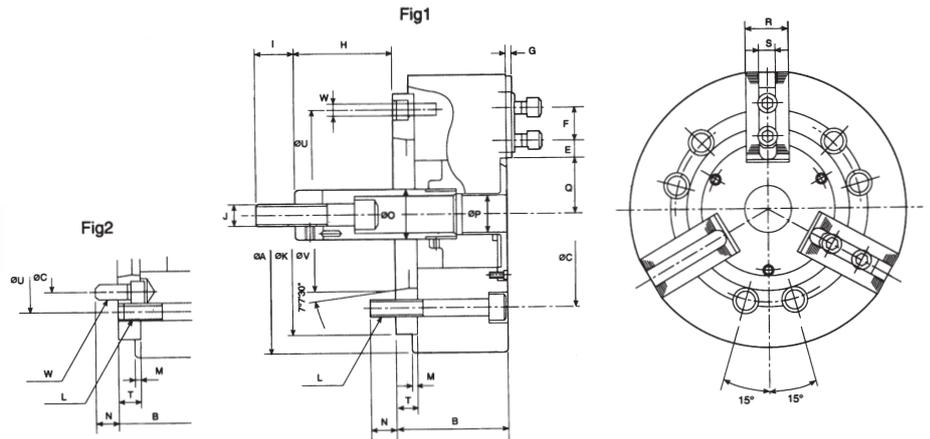
DIMENSIONS

Unit:mm

Dim	ORDER NO.	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)



1. Direct mounting: Direct mount for VA series chucks onto short taper spindle of ASA and JIS standards.
2. High performance: Similar high performance to V series.
3. Chuck mounting screws: Metric or UNC socket head cap screws are supplied for bolting the chuck to the spindle.
4. Alternative spindle adaptors: ASA or DIN adaptors can be supplied to fit machine spindle.

SPECIFICATIONS

Unit:mm

Dim	ORDER NO.	V-206A5	V-208A6	V-210A6	V-210A8	V-212A8	V-215A8	V-215A11
Jaw Stroke(mm)		9.2	9.7	8.8	8.8	10.5	16	16
Plunger Stroke(mm)		20	21	25	25	30	35	35
Max.Pull Force(kgf)		1835	2549	2957	2957	4181	8362	8362
Max.Gripping Force(kg)		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(kg)		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		HC06	HC08	HC10	HC10	HC12-1	HC15-1	HC15-1
Matching Hard Jaw		HJ06	HJ08	HJ10	HJ10	HJ12-1	HJ15-1	HJ15-1
CODE NO.		5002-090	5002-091	5002-092	5002-093	5002-094	5002-095	5002-096

DIMENSIONS

Unit:mm

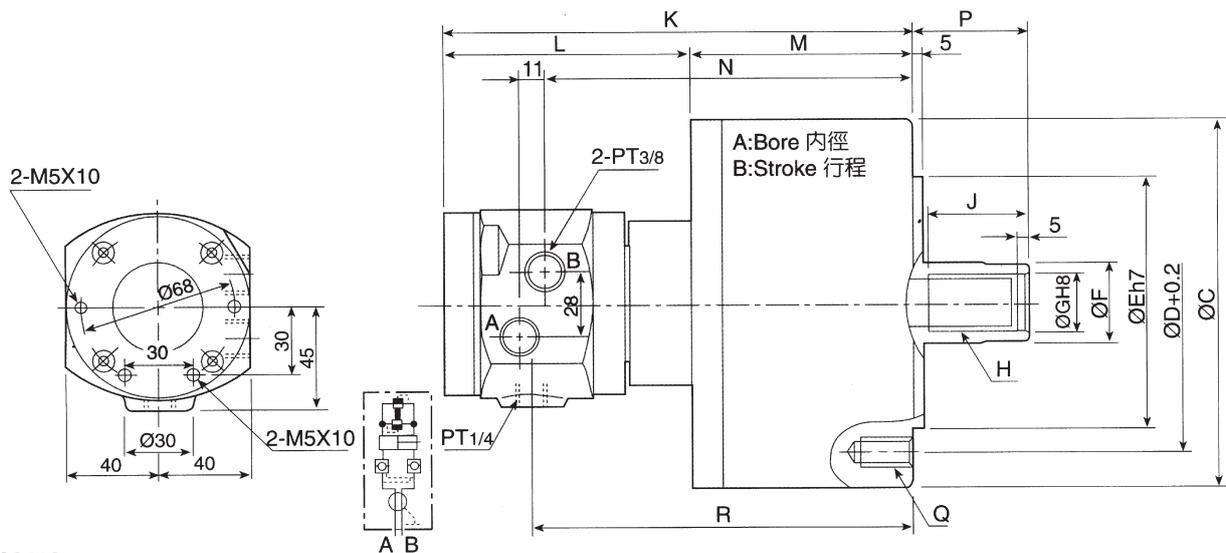
Dim	ORDER NO.	V-206A5	V-208A5	V-208A6	V-210A6	V-210A8	V-212A8	V-215A8	V-215A11
A		165	210	210	254	254	304	381	381
B		84	103	97	109	102	118	141	130
C		104.78	104.78	133.35	133.35	171.45	171.45	171.45	235
F		20	25	25	30	30	30	43	43
K		140	170	170	220	220	220	300	300
L		6-M10	6-M12	6-M12	6-M16	6-M16	6-M16	6-M16	6-M20
M		5	5	5	5	5	6	6	6
N		14	13	18	18	25	25	24	32
P		21	21	25	34	34	34	-	-
T		15	23	17	25	18	18	33	22
V		82.563	82.563	106.375	106.375	139.719	139.719	139.719	196.869
U		116	133.35	150	171.45	190	190	235	260
E max.		15.25	22.25	22.25	30.75	30.75	48.75	50.25	50.25
E min.		9.25	11.75	11.75	11.25	11.25	12.75	23.25	23.25
G		4	5	5	5	5	5	2	2
H max.		89.6	109	115	133	140	145	71	82
H min.		69.6	88	94	108	115	115	36	47
I		36	36	36	36	36	36	55	55
J		M16x2.0	M20x2.5	M20x2.5	M20x2.5	M20x2.5	M20x2.5	M30x3.5	M30x3.5
O		34	38	38	45	45	50	60	60
Q max.		38.7	46.75	46.3	51.1	51.1	61	77.5	77.5
Q min.		34.1	41.9	41.9	46.7	46.7	55.75	69.5	69.5
R		31	35	35	40	40	50	50	50
S		12	14	14	16	16	18	25.5	25.5
W		3-M6	6-M10	3-M6	6-M12	6-M8	6-M8	6-M16	3-M10
REFER FIG.		Fig-1	Fig-2	Fig-1	Fig-2	Fig-1	Fig-1	Fig-2	Fig-1



Non Through Hole Rotary Hydraulic Cylinder (With Valves)



1. Built-in safety check valves.



DIMENSIONS

ORDER NO.	DIM	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
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

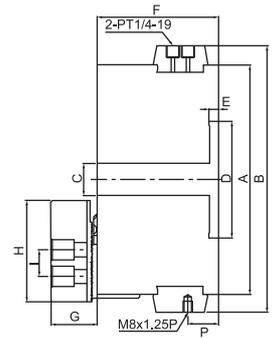
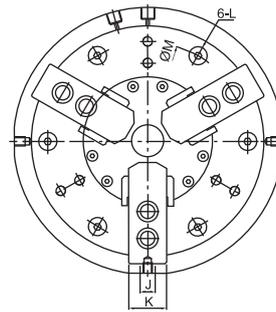
ORDER NO.	DIM	Piston Area		Max. Draw Bar Pull Pull Side KN(kgf)	Piston Stroke (mm)	Max. Speed (r.p.m.)	Max. Operating Pressure (kgf/cm ²)	Total Leakage (l/min)	Moment Inertia I (kgh.m ²)	Weight (kg)
		Push Side (cm ²)	Pull Side (cm ²)							
MS105		86	79	29(2957)	20	6000	4.0(40.8)	0.8	0.0125	7.1
MS125		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



Rotary Air Chucks

pneumatic chucks series

Example: The VRC - 8 Use on The Index Table



Light Duty Type

The distinctive feature is that the chuck rotates with the spindle of indexing table or rotary table.

1. Airtight type cylinder:

For the cylinder is leak proof; the chuck can maintain stable clamping while it clamps and rotates work piece.

2. Rustproof treated cylinder:

The cylinder won't get rusty and seize even in wet or high moisture working environment.

3. Easy for connection with air source:

After Connecting to compressed air source, fix the chuck on any direction at one's convenience. It will rotate clockwise and counterclockwise freely as well.

4. Dust and water proof cover:

Prevent metal chips or coolant from entering inside of chuck cylinder to maintain its accuracy and make service life longer.

5. Integral pneumatic cylinder:

Connect chuck and built-in cylinder to each other directly; thus enables operation stability. Moreover, it is more convenient for installation and operation since the use of draw tube and draw bar are no longer necessary.

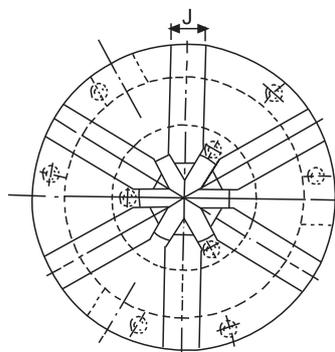
UNIT:mm

ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	P	Thru-Hole (Diameter) mm	Piston Area cm ²	Plunger Stroke mm	Jaw Stroke (Diameter) mm	Gripping Force(kgf) (Air press 6kg/cm ²)	Max. Pressure Setting (kgf/cm ²)	Max. speed r.p.m	Gripping Range mm	Gross Weight kgs	CODE NO.
																								NO.
VRC-5	136	180	16	60	6	85	33	62	14	10	25	M8	Ø118	27	16	74	10	4.6	1150	7	51	Ø12-Ø136	10	5005-001
VRC-6	166	210	20	80	7	93	40	73	20	12	31	M8	Ø147	27	20	120	13	5.5	2000	7	41	Ø15-Ø166	16.3	5005-002
VRC-8	215	250	30	110	8	112	42	95	25	14	35	M10	Ø185	28	30	190	16	6.8	3200	7	33	Ø20-Ø215	30	5005-003
VRC-10	255	290	43	140	8	120	46	110	30	16	40	M10	Ø220	30.5	43	280	19	8	4700	7	26	Ø33-Ø225	46	5005-004

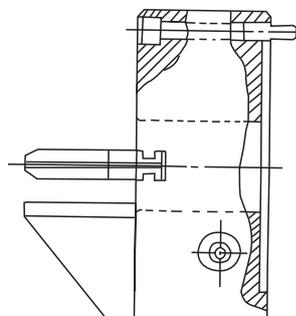


6-Jaw Awl Type Chucks

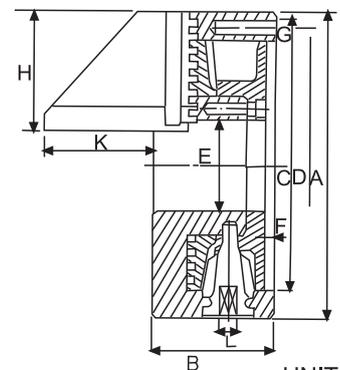
Scroll Chucks Series



Front Hole Type



Back Hole Type



SPECIFICATION

UNIT:mm

ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	Gross Weight (kg)	Max. speed (r.p.m.)	Max. Gripping Diameter		CODE NO.
														O.D.	Clamping	
VAS-4	112	58	80	95	32	4.5	3-M8	45	14	46	8	4.2	1200	Ø2	32	5005-011
VAS-6	167	65	130	147	60	5	3-M10	66	19	43	10	9.2	1200	Ø3	60	5005-012

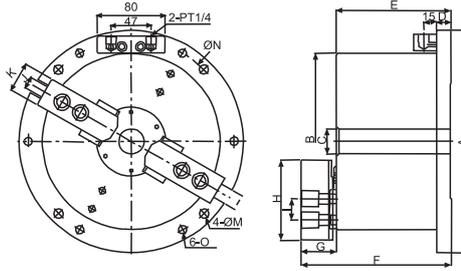


2 - Jaw Hollow Power Chuck Fixtures

Pneumatic Chucks Series



NEW



The feature is same as 3 - jaw hollow power chuck

SPECIFICATIONS

ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
VMOT-05	185	135	-	15	95	128	33	62	14	10	25	13	Ø13	Ø165	M8
VMOT-06	224	169	25	16	118	158	40	73	20	12	31	18	Ø13	Ø202	M10
VMOT-08	265	210	30	17	135	177	42	95	25	14	35	18	Ø13	Ø243	M10
VMOT-10	315	254	52	17	145	191	46	110	30	16	40	18	Ø13	Ø228	M12

UNIT:mm

ORDER NO.	Piston Area (cm ²)	Plunger stroke (mm)	Jaw stroke (Diameter)mm	Max. gripping force (kgf)	Max. Pressure Setting (kgf/cm ²)	Gripping Force(kgf) (air press 6kg/cm ²)	Gross Weight (kg)	Gripping Range	CODE NO.
VMOT-05	74	10	5.4	2600	14	1300	12	Ø12~Ø135	5005-060
VMOT-06	99	12	5.5	4000	15	1800	22.4	Ø15~Ø169	5005-061
VMOT-08	156	16	7.4	6300	15	2800	37.8	Ø20~Ø210	5005-062
VMOT-10	204	19	8.8	8600	15	3700	56.9	Ø33~Ø254	5005-063

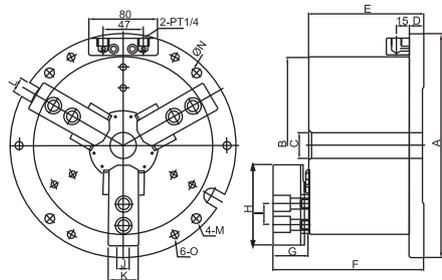


3 - Jaw Hollow Power Chuck Fixtures

Pneumatic Chucks Series



NEW



OPTIONAL



PNEUMATIC MANUAL SWITCH



EXAMPLES OF ATTACHING PNEUMATIC MANUAL SWITCH / OPTIONAL ACCESSORIES

- Dusts-proof and Waterproof**
Dust-proof and Waterproof structure prevents workchips and coolant water to enter into inside of chucks. Thus longer life is consequential. High efficiency and less working pressure can be achieved by less trouble, and consistency of quality.
- Benefit of Built-in Cylinder**
The cylinder on inside of chuck is connected to chuck itself directly for obtaining better stability, less space, and higher machining efficiency.
- Rust-proof for Pneumatic Cylinder**
Inside wall of cylinder being rustproof treated; cylinder can work under wet or high moisture circumstances without rusty and seized trouble.
- Available for Quick Fixture Change**
MO Chucks can be easily fixed on a plate fixture for quick changes.
- Flange Design**
The flange makes it easy to be locked on T-slot of worktable.
- Hard jaws and Soft jaws are Interchangeable with those of CNC Lathes**
Hard jaws and Soft jaws are same as those of CNC Lathes, therefore; they are interchangeable to reduce cost of spare jaws.

With built-in type cylinder, it is ideal for machining application on working table

SPECIFICATIONS

ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
VMO-05	185	135	-	15	95	128	33	62	14	10	25	13	Ø9	Ø165	M8
VMO-06	224	169	25	16	118	158	40	73	20	12	31	18	Ø11	Ø202	M10
VMO-08	265	210	30	17	135	177	42	95	25	14	35	18	Ø11	Ø243	M10
VMO-10	315	254	52	17	145	191	46	110	30	16	40	18	Ø13	Ø228	M12

UNIT:mm

ORDER NO.	Piston Area (cm ²)	Plunger stroke (mm)	Jaw stroke (Diameter)mm	Max. gripping force (kgf)	Max. Pressure Setting (kgf/cm ²)	Gripping Force(kgf) (air press 6kg/cm ²)	Gross Weight (kg)	Gripping Range	CODE NO.
VMO-05	74	10	5.4	4000	17	1300	12.4	Ø12~Ø135	5005-070
VMO-06	99	12	5.5	6000	19	1800	23	Ø15~Ø169	5005-071
VMO-08	156	16	7.4	9500	20	2800	38.5	Ø20~Ø210	5005-072
VMO-10	204	19	8.8	13000	20	3700	58	Ø33~Ø254	5005-073

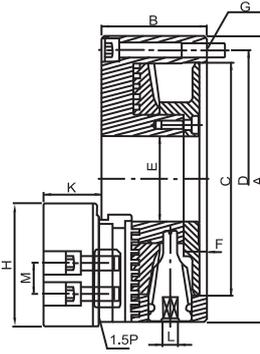
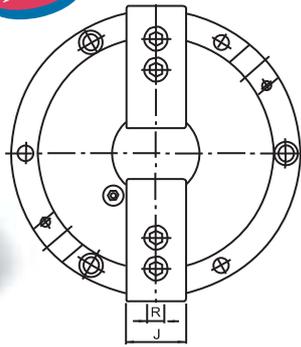


2-Jaw Steel Body Chucks

Steel Body Chucks Series



NEW



Steel Body Chucks

1. Hard jaws and soft jaws can be adjusted just like on a Hydraulic power Chuck to increase the gripping range.
2. Hard jaws as well as Soft jaws are interchangeable with those of CNC Lathes.
3. Can be used as a "Forming plate" for machining soft Jaws.
4. The Chuck Handle can be operated easily and smoothly.
5. 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 (Kg)	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

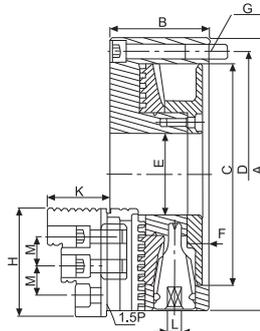
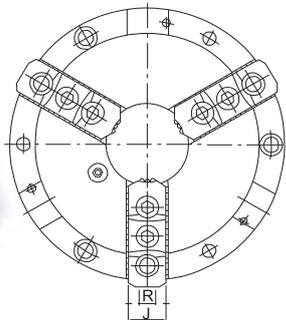


3-Jaw Steel Body Chucks

Steel Body Chucks Series



NEW



Steel body chucks:

1. Chuck Body is made by steel to enhance safety operations for high speed machining.
2. Hard jaws as well as Soft jaws are interchangeable with those of CNC Lathes.
3. The Chuck Handle can be operated easily and smoothly.
4. Can be used as a "Forming plate" for machining soft jaws.
5. 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 (Kg)	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.



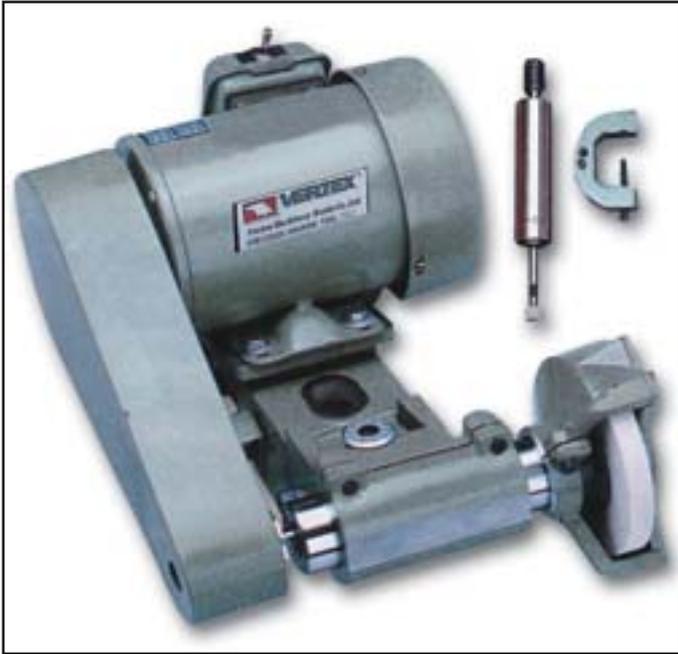
The hard jaw & soft jaw is same as hydraulic power chuck





Tool Post Grinder ON Lathe

For Internal Grinding

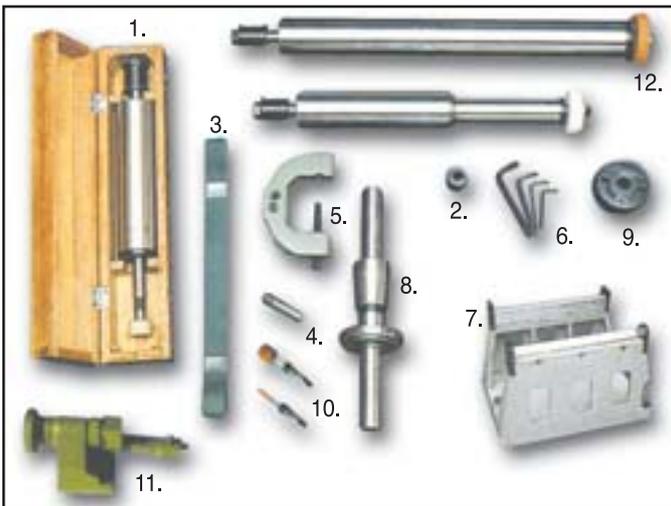


Standard Accessories

1. Internal Spindle	1
2. Pully 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

Special Accessories

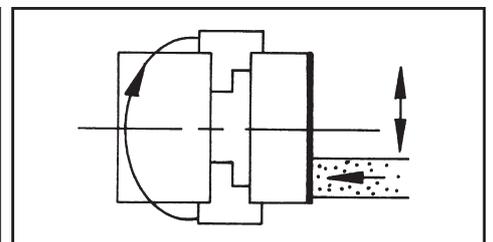
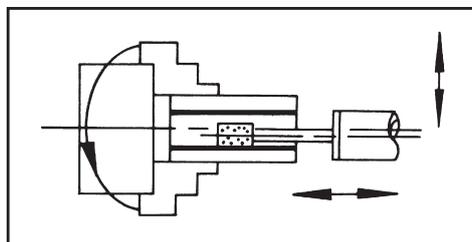
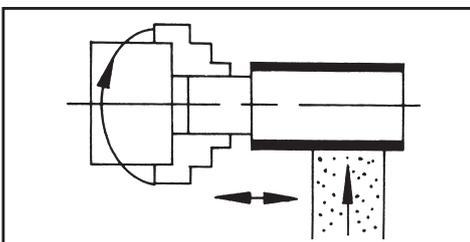
7. Balancing Stand
8. Mandrel for VGR-165 only
9. Flange and Balancing Weight
10. Spindle For Longer Internal Grinding for VGR-165 only



Characteristic Features

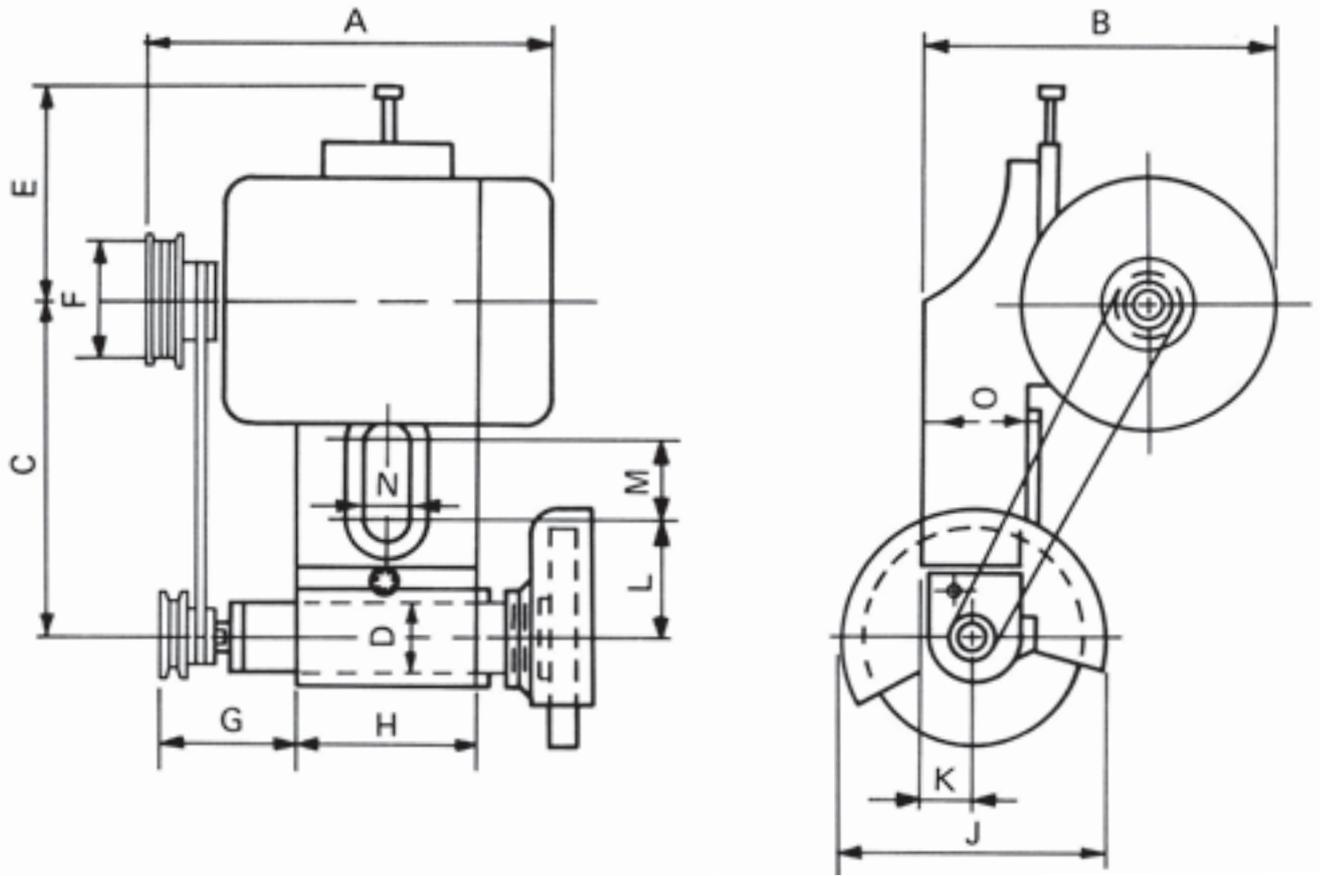
- Both the main shafts have been specially designed, and the world-wide precision bearing is used to fit the main shafts which are made of alloy steel heat-treated for high wear resistance, precision, as well as maintaining to the lowest temperature for durability and stability.
- The motor base and the spindle bushing are adjustable.
- The motor is well designed with a special and nice appearance, The R.P.M. of this motor varies depending on the size of the workpiece.
- This grinder is capable of grinding the work piece to a minimum of 3mm 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 like a cylindrical grinder. So it may lower the cost of the production.

※Types of Grinding For Work Pieces





Tool Post Grinder ON Lathe



ORDER NO.	Main Dimension. (mm)														Net weight (kg)	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.	CODE NO.		
		Size of Wheel dia x width-hole	(R.P.M.) Non-load Speed	Diameter to be ground	Size of wheel dia x width x hole	(R.P.M.) Non-load Speed	Grinding Depth (mm)				
VGR-185	3	12"x1"x1"	60 cycle 1930	50 cycle 1600	-	-	-	-	over 12	5004-001	
VGR-175	2	10"x1"x1"	2300	1930	-	-	-	-	10-12	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	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	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	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	5004-006



VDI Tool Holders

DIN69880

Coupling Type System

A DIN 1809 (For DUPLOMATIC)



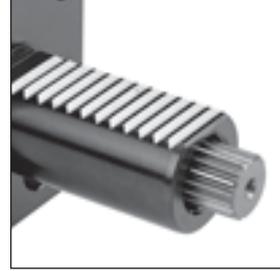
Coupling to DIN 1809

B DIN 5480 (For SAUTER/DUPLOMATIC)



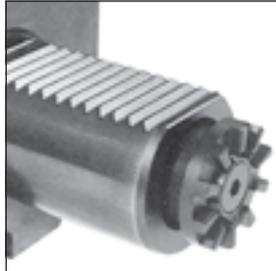
Coupling to DIN 5480

C DIN 5482 (For SAUTER/DUPLOMATIC)



Coupling to DIN 5482

D MT (For BARUFFALDI)



Spur Coupling

E IT (For DUPLOMATIC)



Spur Coupling

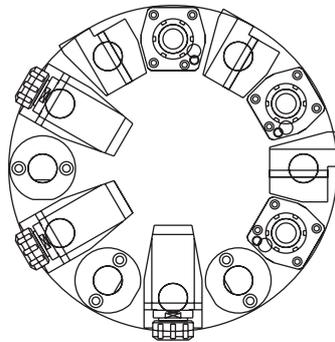
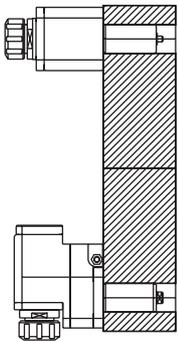


VDI Tool Holders

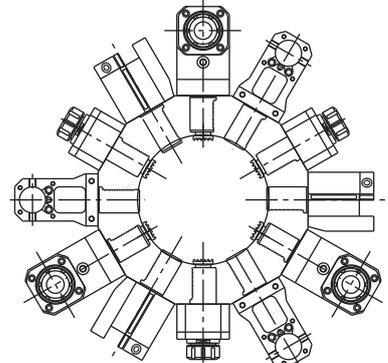
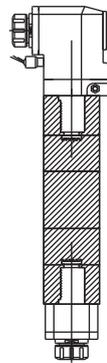
DIN69880

Tool Holders Direction System

A: Axial Direction

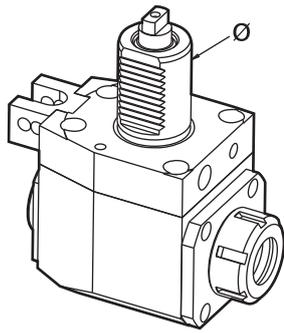


B: Radial Direction (Star Turret)



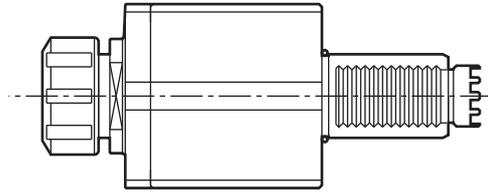


Model



DA

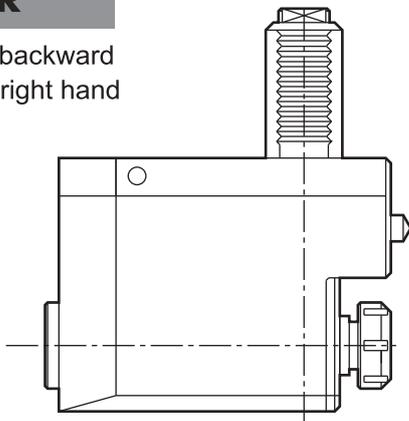
Stright Direct Drive



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

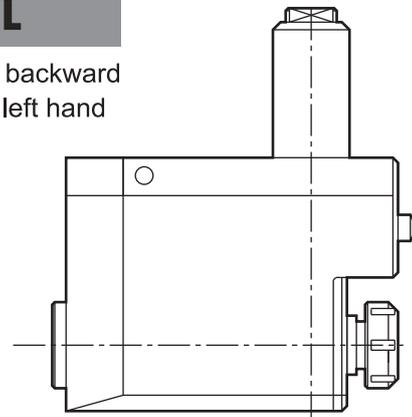
BR

B: backward
R: right hand



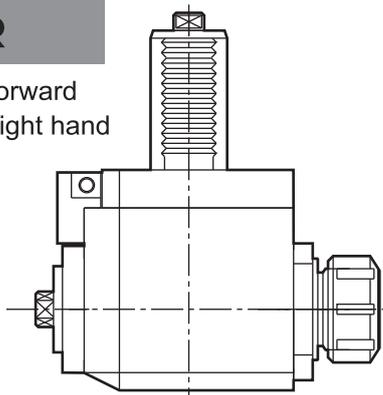
BL

B: backward
L: left hand



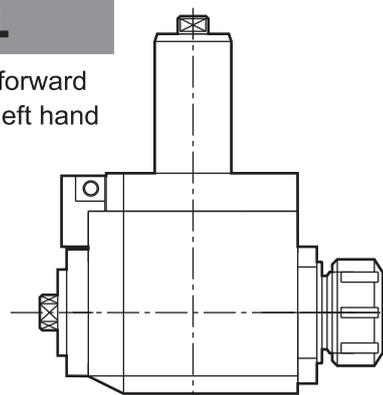
FR

F: forward
R: right hand



FL

F: forward
L: left hand



TXX

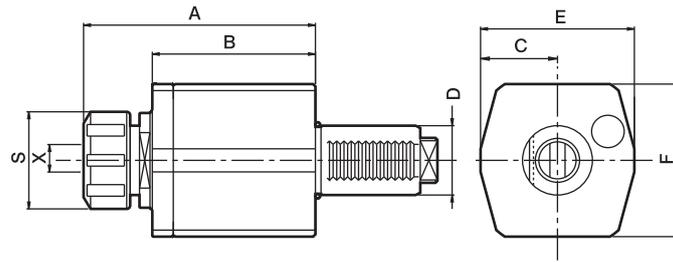
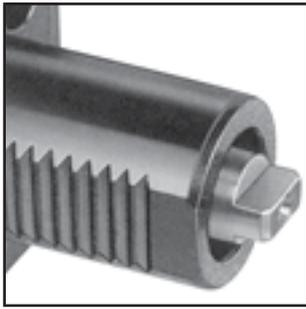
T: tapping 攻牙型

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 TYPE 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	E	F	CODE NO.
DA20180916	20	1-10 ER16	32	6000	1:1	76	48	25	50	50	5006-001
DA30180925	30	1-16 ER25	42	6000	1:1	101	70	33	66	66	5006-002
DA40180932	40	2-20 ER32	50	6000	1:1	89	55	39	79	78	5006-003
DA50180940	50	3-26 ER40	62	6000	1:1	128	85	40	84	88	5006-004
DA60180950	60	10-34 ER50	78	6000	1:1	154	98	52	104	104	5006-005

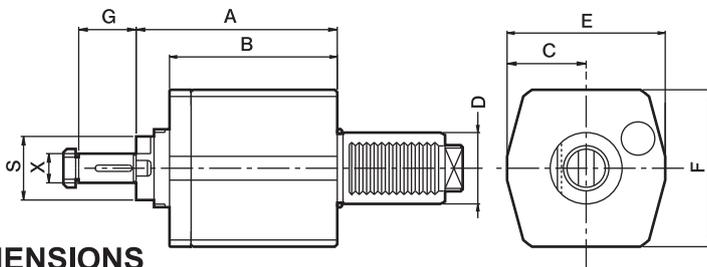
Axial Tapping Heads

DIMENSIONS

Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	CODE NO.
TDA30180916	30	1-10 ER16	32	3000	1:1	115	70	33	66	66	5006-006
TDA40180920	40	1-13 ER20	35	3000	1:1	120	55	39	79	78	5006-007
TDA50180925	50	1-16 ER25	42	3000	1:1	133	85	40	84	88	5006-008
TDA60180932	60	2-20 ER32	50	3000	1:1	147	98	52	104	104	5006-009



Axial Milling Heads TYPE DIN 1809



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

DIMENSIONS

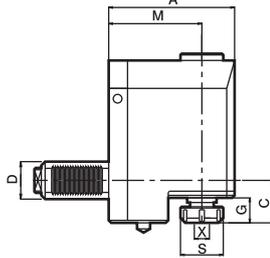
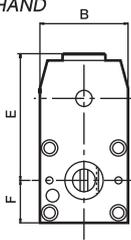
Order No.	D DIN 69880	X DIN 6358	S	Maximum R.P.M.	i	A	B	C	E	F	G	CODE NO.
DA30180916C	30	16	32	3000	1:1	91.5	70	33	66	66	27	5006-010
DA40180916C	40	16	32	3000	1:1	68.5	55	39	79	78	27	5006-011
DA40180922C	40	22	32	3000	1:1	68.5	55	39	79	78	31	5006-012
DA50180922C	50	22	40	3000	1:1	117	85	40	84	88	31	5006-013
DA50180927C	50	27	40	3000	1:1	117	85	40	84	88	33	5006-014



Radial Drilling And Milling Heads-Back ward Type TYPE DIN 1809

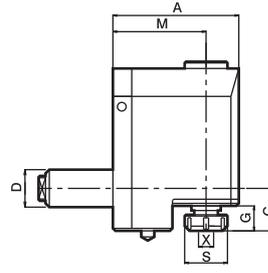
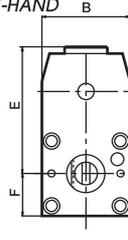
MODE: BL

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	32	5000	1:1	80	50	43	62.5	27	28.5	57	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	62	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	102	5006-019

Radial Tapping Heads-Back ward Type DIN 1809

DIMENSIONS

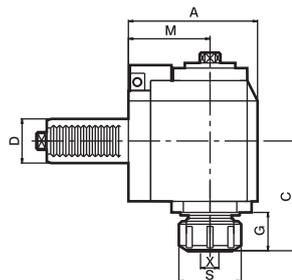
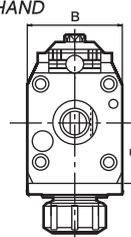
Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
TBR3018091669 TBL3018091669	30	1-10 ER16	32	3000	1:1	95	60	44	75.5	31.5	32	69	5006-020
TBR4018092090 TBL4018092090	40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	5006-021
TBR5018092590 TBL5018092590	50	1-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	5006-022
TBR60180932102 TBL60180932102	60	2-20 ER32	50	3000	1:1	147	104	87	118	54	40	102	5006-023



Radial Drilling And Milling Heads TYPE DIN 1809

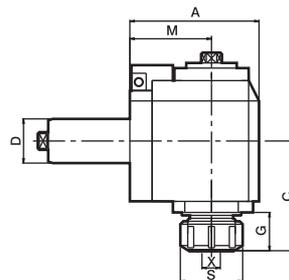
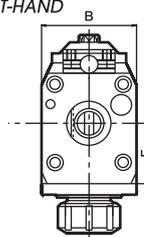
MODE: FL

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

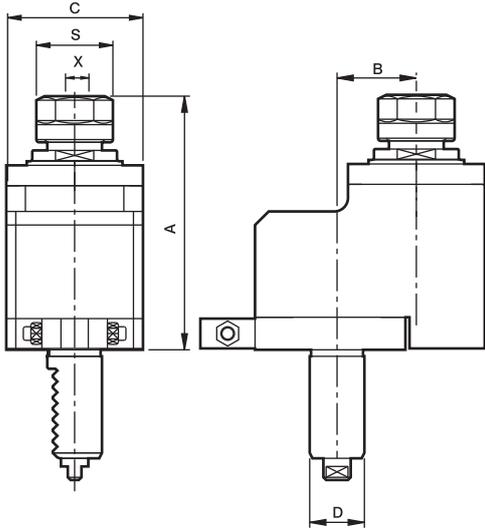
Radial Tapping Heads DIN 1809

DIMENSIONS

Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
TFR3018092555 TFL3018092555	30	1-10 ER16	32	3000	1:1	87	64	75	41	30	55	5006-027
TFR4018093265 TFL4018093265	40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	5006-028
TFR5018094075 TFL5018094075	50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	5006-029



Axial Drilling And Milling Heads TYPE DIN 1809



OFFSET

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

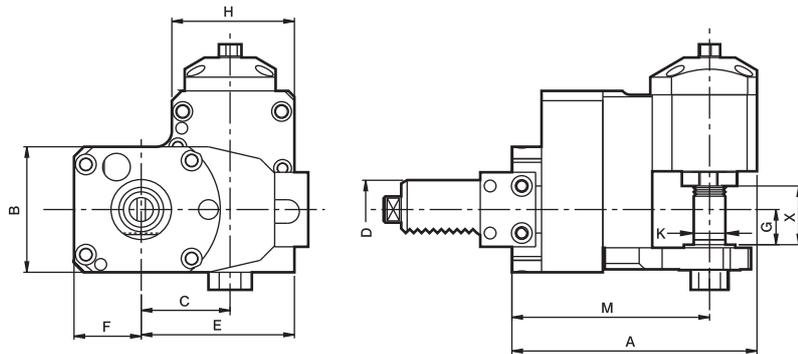
DIMENSIONS

Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA2018091629	20	1-10 ER16	32	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	80	5006-034

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



Radial Milling Heads TYPE DIN 1809



DISK CUTTER UNITS

- External coolant supply

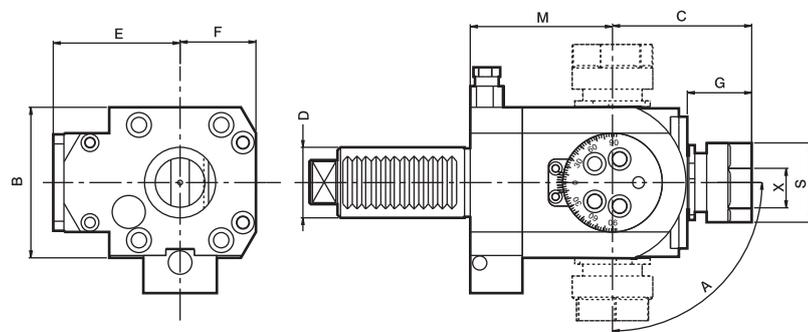
DIMENSIONS

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	16.6	3000	3:1	124	64	45	77.5	34	18	62	16	100	5006-035



Angular Heads TYPE DIN 1809



THE ANGLE IS ADJUSTED

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

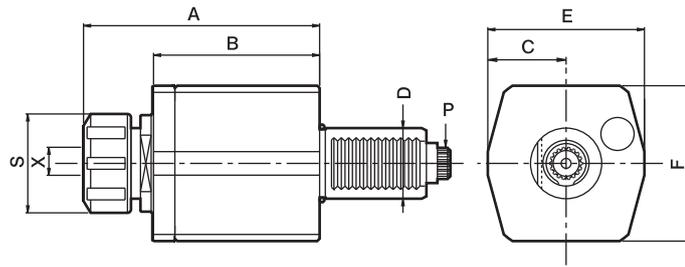
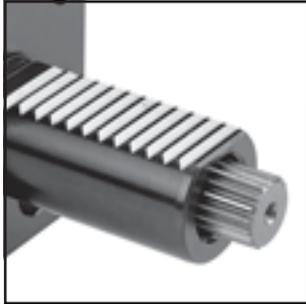
DIMENSIONS

Order No.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
DA30180916B	30	1-10 ER16	4000	1:1	±90°	64	58.5	53.5	32	27	60	5006-036



Axial Drilling And Milling Heads

TYPE 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	E	F	P DIN 5480	CODE NO.
DA30548025	30	1-16 ER25	42	6000	1:1	101	70	33	66	66	W16X0.8	5006-037
DA40548032	40	2-20 ER32	50	6000	1:1	89	55	39	79	78	W20X0.8	5006-038

Axial Tapping Heads

DIN 5480

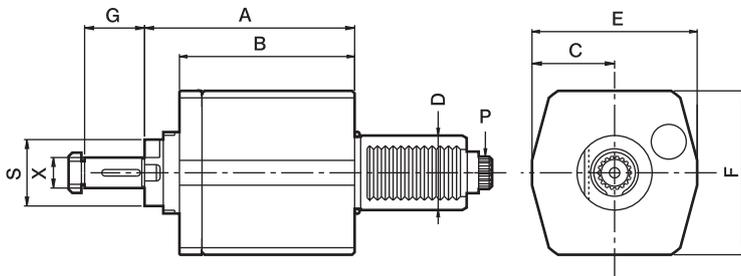
DIMENSIONS

Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	P DIN 5480	CODE NO.
TDA30548025	30	1-10 ER16	32	3000	1:1	115	70	33	66	66	W16X0.8	5006-039
TDA40548032	40	1-13 ER20	35	3000	1:1	120	55	39	79	78	W20X0.8	5006-040



Axial Milling Heads

TYPE DIN 5480



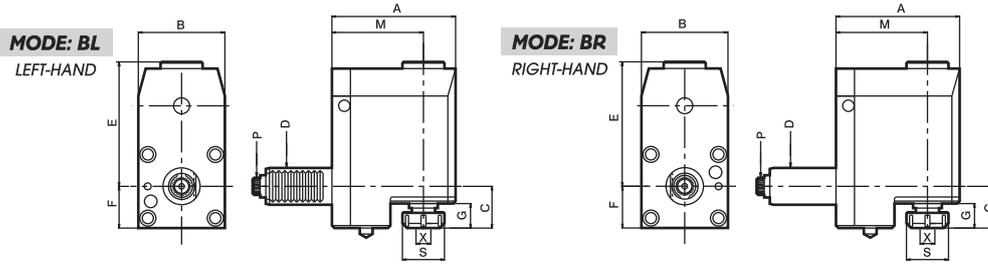
- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply.

DIMENSIONS

Order No.	D DIN 69880	X DIN 6358	S	Maximum R.P.M.	i	A	B	C	E	F	G	P DIN 5480	CODE NO.
DA30548016C	30	16	32	3000	1:1	91.5	70	33	66	66	27	W16X0.8	5006-041
DA40548016C	40	16	32	3000	1:1	68.5	55	39	79	78	27	W20X0.8	5006-042
DA40548022C	40	22	32	3000	1:1	68.5	55	39	79	78	31	W20X0.8	5006-043



Radial Drilling And Milling Heads-Backward Type TYPE DIN 5480



SET BACK

- 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

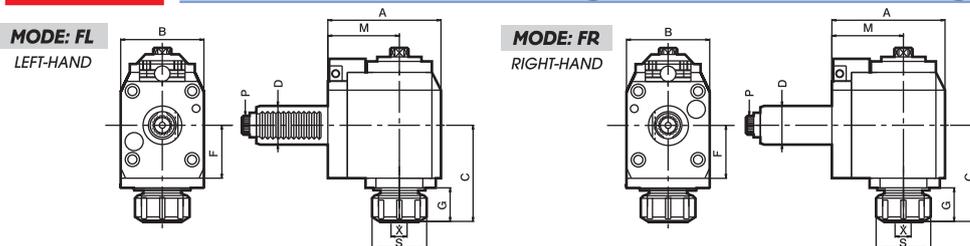
TYPE DIN 5480

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	32	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 TYPE DIN 5480



- 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.
FR3054802565 FL3054802565	30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	65	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

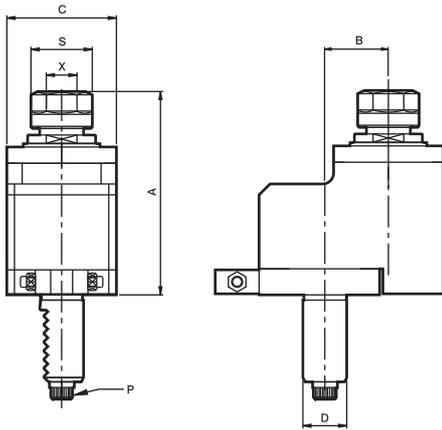
Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5480	CODE NO.
TFR3054801665 TFL3054801665	30	1-10 ER16	32	3000	1:1	97	64	75	41	30	65	W16X0.8	5006-053
TFR3054801685 TFL3054801685	30	1-10 ER16	32	3000	1:1	117	64	75	41	30	85	W16X0.8	5006-054
TFR4054802065 TFL4054802065	40	1-13 ER20	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

TYPE DIN 5480

OFFSET



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

DIMENSIONS

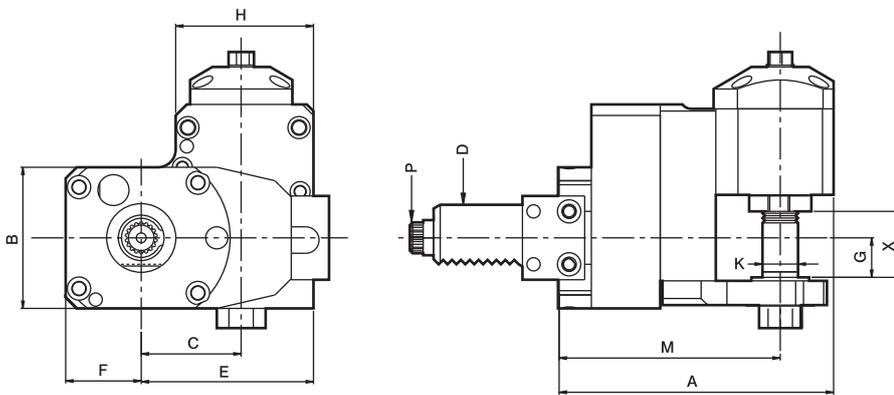
Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5480	CODE NO.
DA3054802529	30	1-16 ER25	42	4000	1:1	100	29	60	W16X0.8	5006-057
DA3054802529/1	* 30	1-16 ER25	42	8000	1:2	100	29	60	W16X0.8	5006-058
DA4054803250	40	2-20 ER32	50	4000	1:1	113	50	80	W20X0.8	5006-059



Radial Drilling And Milling Heads

TYPE DIN 5480

DISK CUTTER UNITS



- External coolant supply

DIMENSIONS

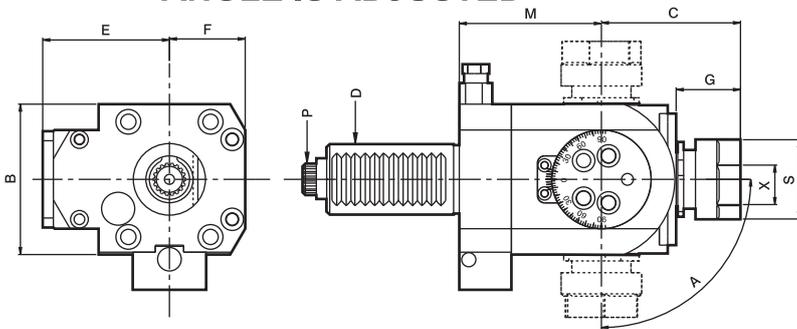
Order No.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	P DIN 5480	CODE NO.
BR30548016C/3 BL30548016C/3	30	16.6	3000	3:1	124	64	45	77.5	34	18	62	16	100	W16X0.8	5006-060



Angular Heads

TYPE DIN 5480

ANGLE IS ADJUSTED



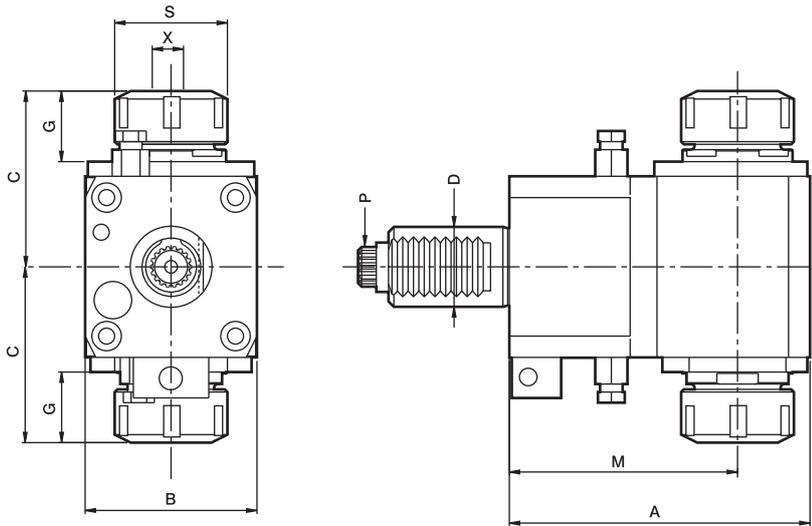
- Collet is not included.
- To be used for collet DIN 6499
- External coolant supply

DIMENSIONS

Order No.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5480	CODE NO.
DA30548016B	30	1-10 ER16	4000	1:1	±90°	64	59	54	32	27	60	W16X0.8	5006-061



Radial Double Drilling And Milling Heads TYPE DIN 5480



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

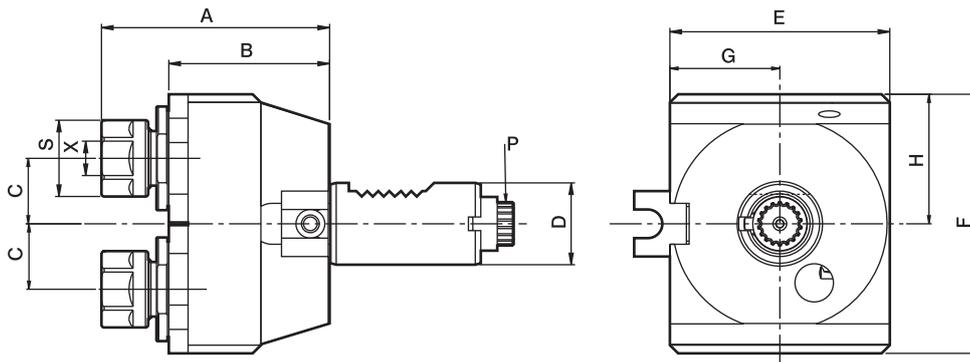
DIMENSIONS

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	42	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 TYPE DIN 5480

DOUBLE COLLETS, Y OFFSET



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

DIMENSIONS

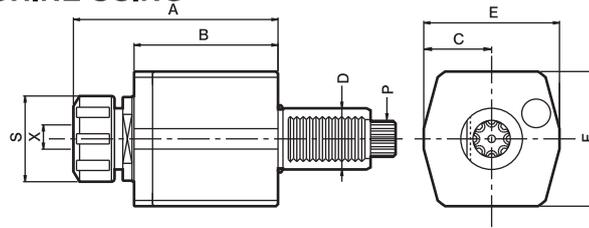
Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	H	P DIN 5480	CODE NO.
DA30548016DY	30	1-10 ER16	32	4000	1:1	83	58.5	24	80	95	40	47.5	W16X0.8	5006-065



Axial Drilling And Milling Heads

TYPE DIN 5482

FOR DIN 5482 MACHINE USING



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

Power Transmission According To DIN 5482

DIMENSIONS

Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	P DIN 5482	CODE NO.
DA30548225	30	1-16 ER25	42	6000	1:1	101	70	33	66	66	B15X12	5006-066
DA40548232	40	2-20 ER32	50	6000	1:1	89	55	39	79	78	B17X14	5006-067
DA50548240	50	3-26 ER40	63	6000	1:1	128	85	40	84	88	B20X17	5006-068
DA60548250	60	10-34 ER50	78	6000	1:1	154	98	52	104	104	B25X22	5006-069

Axial Tapping Heads

DIN 5482

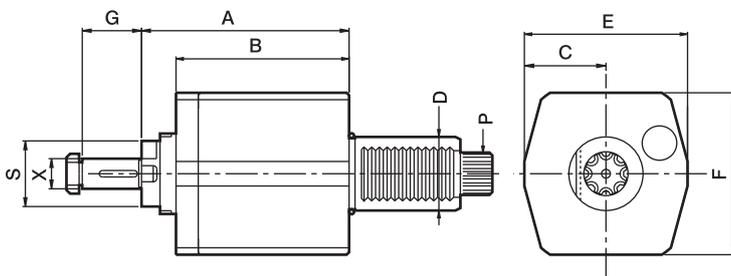
DIMENSIONS

Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	P DIN 5482	CODE NO.
TDA30548216	30	1-10 ER16	32	3000	1:1	115	70	33	66	66	B15X12	5006-070
TDA40548220	40	1-13 ER20	35	3000	1:1	120	55	39	79	78	B17X14	5006-071
TDA50548225	50	1-16 ER25	42	3000	1:1	133	85	40	84	88	B20X17	5006-072
TDA60548232	60	2-20 ER32	50	3000	1:1	147	98	52	104	104	B25X22	5006-073



Axial Milling Heads

TYPE DIN 5482



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

DIMENSIONS

Order No.	D DIN 69880	X DIN 6358	S	Maximum R.P.M.	i	A	B	C	E	F	G	P DIN 5482	CODE NO.
DA30548216C	30	16	32	3000	1:1	91.5	70	33	66	66	27	B15X12	5006-074
DA40548216C	40	16	32	3000	1:1	68.5	55	39	79	78	27	B17X14	5006-075
DA40548222C	40	22	32	3000	1:1	68.5	55	39	79	78	31	B17X14	5006-076
DA50548222C	50	22	40	3000	1:1	117	85	40	84	88	31	B20X17	5006-077
DA50548227C	50	27	40	3000	1:1	117	85	40	84	88	33	B20X17	5006-078

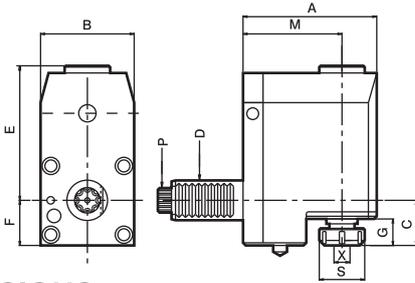


Radial Drilling And Milling Heads

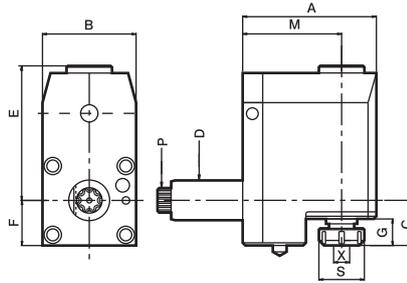
TYPE DIN 5482

BACKWARDS

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	102	B25X22	5006-082

Radial Tapping Heads-Backwards

DIMENSIONS

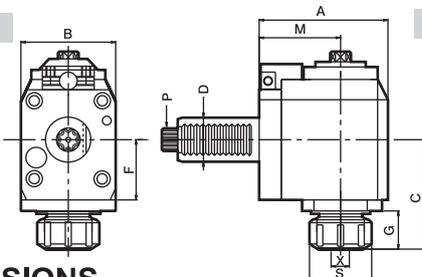
Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5482	CODE NO.
TBR3054821669 TBL3054821669	30	1-10 ER16	32	3000	1:1	95	60	44	75.5	31.5	32	69	B15X12	5006-083
TBR4054822090 TBL4054822090	40	1-13 ER20	35	3000	1:1	24	80	50	110	42	34	90	B17X14	5006-084
TBR5054822590 TBL5054822590	50	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	102	B25X22	5006-086



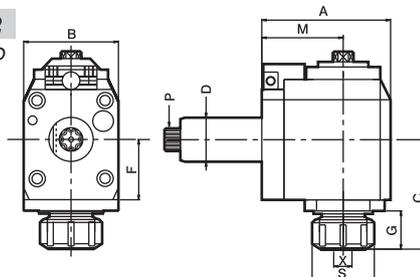
Radial Drilling And Milling Heads

TYPE 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	B20X17	5006-089
FR4054823285 FL4054823285	40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	B20X17	5006-090
FR5054824075 FL5054824075	50	3-26 ER40	63	5000	1:1	115	88	103	56	40	75	B25X22	5006-091

Radial Tapping Heads

DIMENSIONS

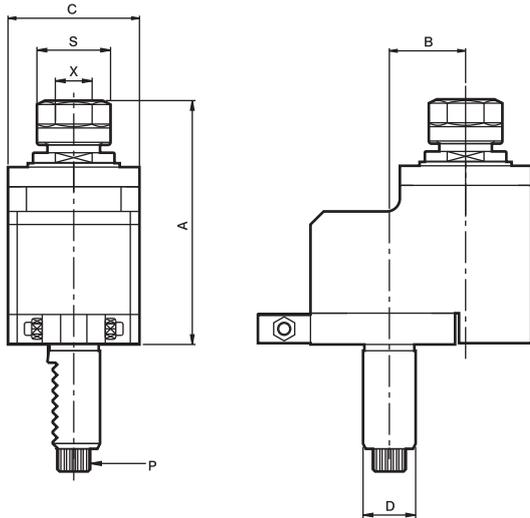
Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5482	CODE NO.
TFR3054821665 TFL3054821665	30	1-10 ER16	32	3000	1:1	97	64	75	41	30	65	B15X12	5006-092
TFR3054821685 TFL3054821685	30	1-10 ER16	32	3000	1:1	117	64	75	41	30	85	B15X12	5006-093
TFR4054822065 TFL4054822065	40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	B20X17	5006-094
TFR4054822085 TFL4054822085	40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	B20X17	5006-095
TFR5054822575 TFL5054822575	50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	B25X22	5006-096



Axial Drilling And Milling Heads

TYPE DIN 5482

OFFSET TYPE



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

DIMENSIONS

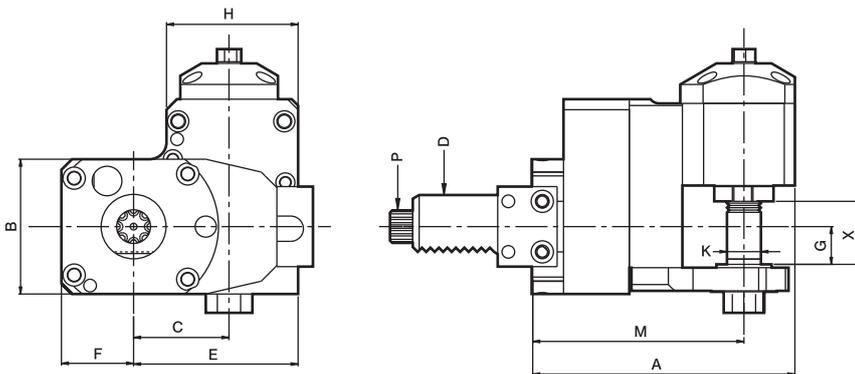
Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5482	CODE NO.
DA3054822529	30	1-16 ER25	42	4000	1:1	100	29	60	B15X12	5006-097
DA3054822529/1	※ 30	1-16 ER25	42	8000	1:2	100	29	60	B15X12	5006-098
DA4054823250	40	2-20 ER32	50	4000	1:1	113	50	80	B17X14	5006-099
DA5054824065	50	3-26 ER40	63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



Radial Milling Heads

TYPE DIN 5482

DISK CUTTER UNITS



- External coolant supply

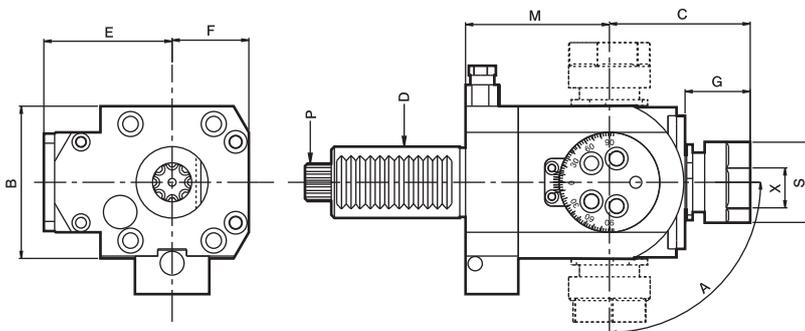
DIMENSIONS

Order No.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	P DIN 5482	CODE NO.
BR30548216C/3 BL30548216C/3	30	16.6	3000	3:1	124	64	45	77.5	34	18	62	16	100	B15X12	5006-101



Angular Heads

TYPE DIN 5482



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

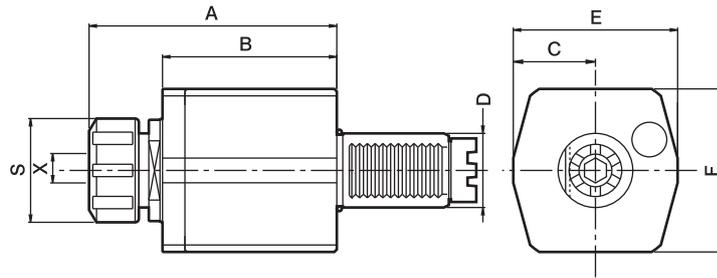
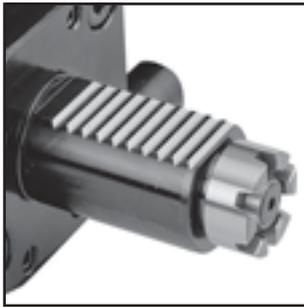
DIMENSIONS

Order No.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5482	CODE NO.
DA30548216B	30	1-10 ER16	4000	1:1	±90°	64	59	54	32	27	60	B15X12	5006-102



Axial Drilling And Milling Heads - For "Baruffaldi" Type

TYPE SPUR COUPLING-MT



- 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	E	F	CODE NO.
DA20MT16	20	1-10 ER16	32	6000	1:1	76	48	25	50	50	5006-103
DA30MT25	30	1-16 ER25	42	6000	1:1	86	55	33	66	66	5006-104
DA40MT32	40	2-20 ER32	50	6000	1:1	89	55	39	79	78	5006-105
DA50MT40	50	3-26 ER40	63	6000	1:1	123	81.5	40	84	88	5006-106

Axial Tapping Heads

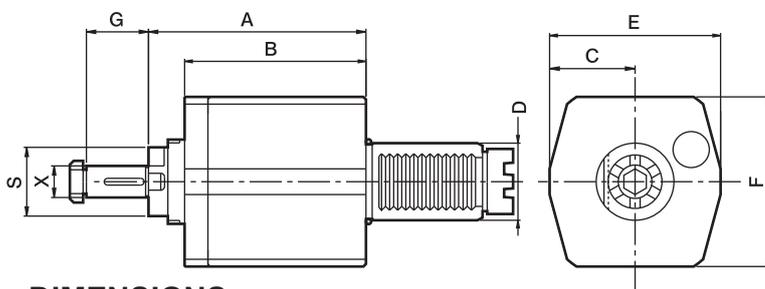
DIMENSIONS

Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	CODE NO.
TDA30MT16	30	1-10 ER16	32	3000	1:1	109	55	33	66	66	5006-107
TDA40MT20	40	1-13 ER20	35	3000	1:1	120	55	39	79	78	5006-108
TDA50MT25	50	1-16 ER25	42	3000	1:1	136	81.5	40	84	88	5006-109



Axial Milling Heads

TYPE SPUR COUPLING-MT



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

DIMENSIONS

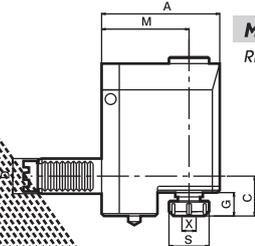
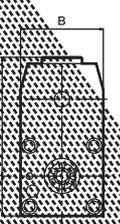
Order No.	D DIN 69880	X DIN 6358	S	Maximum R.P.M.	i	A	B	C	E	F	G	CODE NO.
DA30MT16C	30	16	32	3000	1:1	71	55	33	66	66	27	5006-110
DA40MT16C	40	16	32	3000	1:1	68.5	55	39	79	78	27	5006-111
DA40MT22C	40	22	32	3000	1:1	68.5	55	39	79	78	31	5006-112
DA50MT22C	50	22	40	3000	1:1	95.5	81.5	40	84	88	31	5006-113
DA50MT27C	50	27	40	3000	1:1	95.5	81.5	40	84	88	33	5006-114



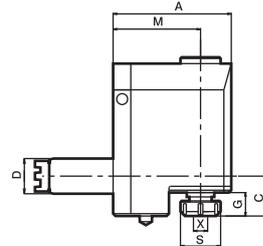
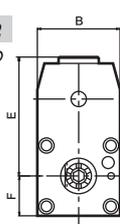
Radial Drilling And Milling Heads-Backwards

TYPE SPUR COUPLING-MT

MODE: BL
LEFT-HAND



MODE: BR
RIGHT-HAND



SET BACK

- 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	32	5000	1:1	80	50	43	63	27	29	57	5006-115
BR30MT2569 BL30MT2569	30	1-16 ER20	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	116	42	34	90	5006-117
BR50MT4090 BL50MT4090	50	3-25 ER32	63	5000	1:1	129	86	49	112	45	39	90	5006-118

Radial Tapping Heads-Backwards

DIMENSIONS

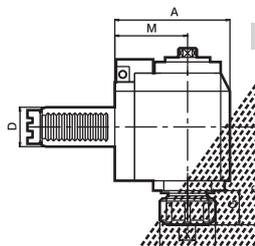
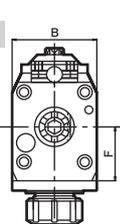
Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
TBR30MT1669 TBL30MT1669	30	1-10 ER16	32	3000	1:1	95	50	44	76	32	32	69	5006-119
TBR40MT2090 TBL40MT2090	40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	5006-120
TBR50MT2590 TBL50MT2590	50	2-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	5006-121



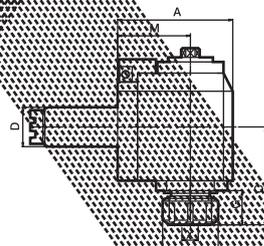
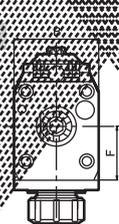
Radial Drilling And Milling Heads

TYPE SPUR COUPLING-MT

MODE: FL
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.
FR30MT2565 FL30MT2565	30	1-10 ER16	42	5000	1:1	97	64	74	76	41	26	65	5006-122
FR30MT2585 FL30MT2585	30	1-16 ER25	42	5000	1:1	117	64	74	76	41	26	85	5006-123
FR40MT3265 FL40MT3265	40	2-20 ER32	50	5000	1:1	99	80	71	70	40	25	65	5006-124
FR40MT3285 FL40MT3285	40	2-20 ER32	50	5000	1:1	119	80	71	70	40	25	85	5006-125
FR40MT32100 FL40MT32100	40	2-20 ER32	50	5000	1:1	134	80	71	70	40	25	100	5006-126
FR50MT4075 FL50MT4075	50	3-26 ER40	60	5000	1:1	115	88	103	70	56	40	75	5006-127

Radial Tapping Heads

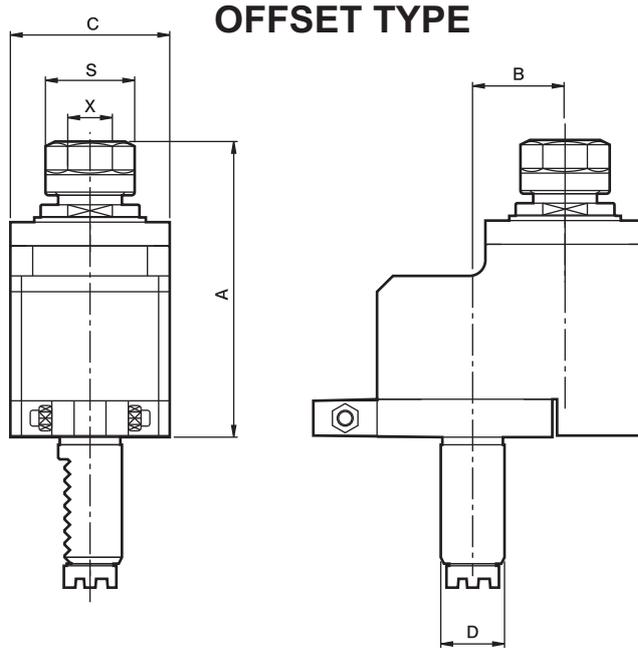
DIMENSIONS

Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
FR30MT1685 FL30MT1685	30	1-10 ER16	32	3000	1:1	97	64	75	41	30	65	5006-128
FR30MT1685 FL30MT1685	30	1-10 ER16	32	3000	1:1	117	64	75	41	30	85	5006-129
FR40MT2065 FL40MT2065	40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	5006-130
FR40MT2085 FL40MT2085	40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	5006-131
FR50MT2575 FL50MT2575	50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	5006-132



Axial Drilling And Milling Heads

TYPE SPUR COUPLING-MT



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

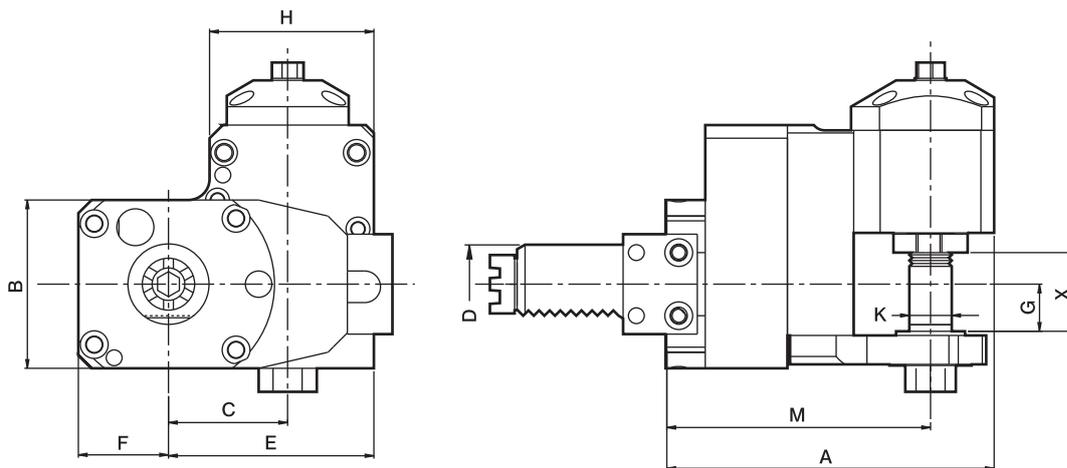
DIMENSIONS

Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA20MT1629	20	1-10 ER16	32	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

TYPE SPUR COUPLING-MT



- External coolant supply

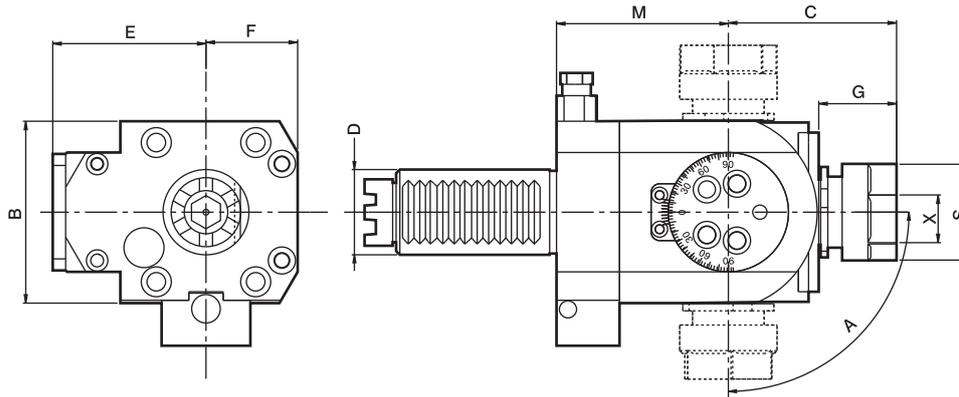
DIMENSIONS

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	16.6	3000	3:1	124	64	45	77.5	34	18	62	16	100	5006-138



Angular Heads

TYPE SPUR COUPLING-MT



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

DIMENSIONS

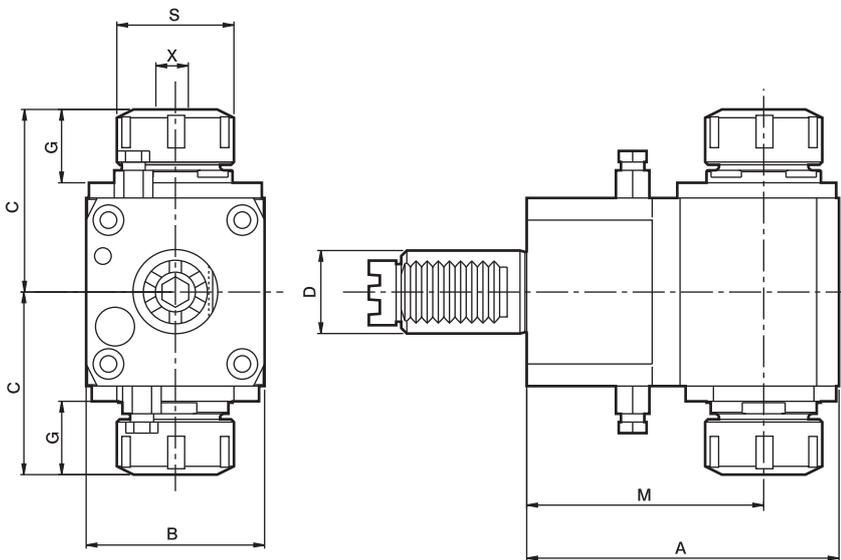
Order No.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
DA30MT16B	30	1-10 ER16	4000	1:1	±90°	64	59	54	32	27	60	5006-139



Radial Drilling And Milling Heads

TYPE SPUR COUPLING-MT

DOUBLE HEAD TYPE



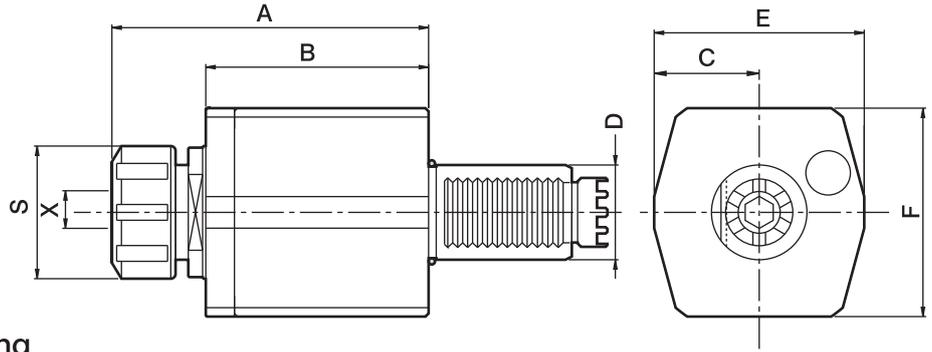
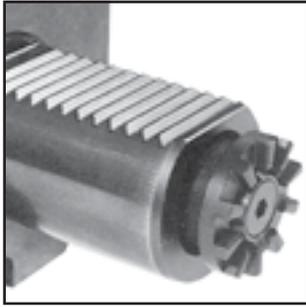
- To be used for collet DIN 6499
- External coolant supply
- Collet is not included.

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 "Diplomatic" Type TYPE SPUR COUPLING-IT



- Power Transmission According To "DIPLOMATIC"
- 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	E	F	CODE NO.
DA30IT25	30	1-16 ER25	42	6000	1:1	86	55	33	66	66	5006-143
DA40IT32	40	2-20 ER32	50	6000	1:1	89	55	39	79	78	5006-144
DA50IT40	50	3-26 ER40	63	6000	1:1	123	81.5	40	84	88	5006-145

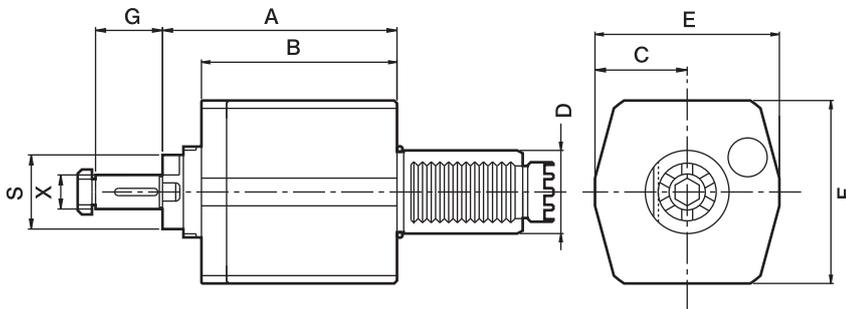
Axial Tapping Heads

DIMENSIONS

Order No.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	CODE NO.
TDA30IT16	30	1-10 ER16	32	3000	1:1	109	55	33	66	66	5006-146
TDA40IT20	40	1-13 ER20	35	3000	1:1	120	55	39	79	78	5006-147
TDA50IT25	50	1-16 ER25	42	3000	1:1	136	81.5	40	84	88	5006-148



Axial Milling Heads TYPE SPUR COUPLING-IT



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

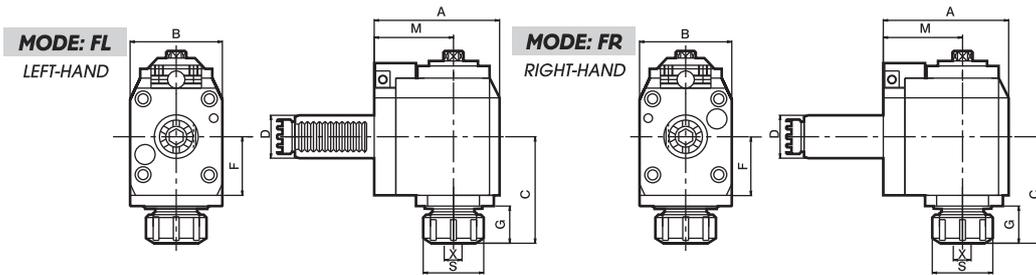
DIMENSIONS

Order No.	D DIN 69880	X DIN 6358	S	Maximum R.P.M.	i	A	B	C	E	F	G	CODE NO.
DA30IT16C	30	16	32	3000	1:1	71	55	33	66	66	27	5006-149
DA40IT16C	40	16	32	3000	1:1	68.5	55	39	79	78	27	5006-150
DA40IT22C	40	22	32	3000	1:1	68.5	55	39	79	78	31	5006-151
DA50IT22C	50	22	40	3000	1:1	95.5	81.5	40	84	88	31	5006-152
DA50IT27C	50	27	40	3000	1:1	95.5	81.5	40	84	88	33	5006-153



Radial Drilling And Milling Heads

TYPE SPUR COUPLING-IT



- 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
FR50IT4075 FL50IT4075	50	3-26 ER40	60	5000	1:1	115	88	103	56	40	75	5006-159

Radial Tapping Heads

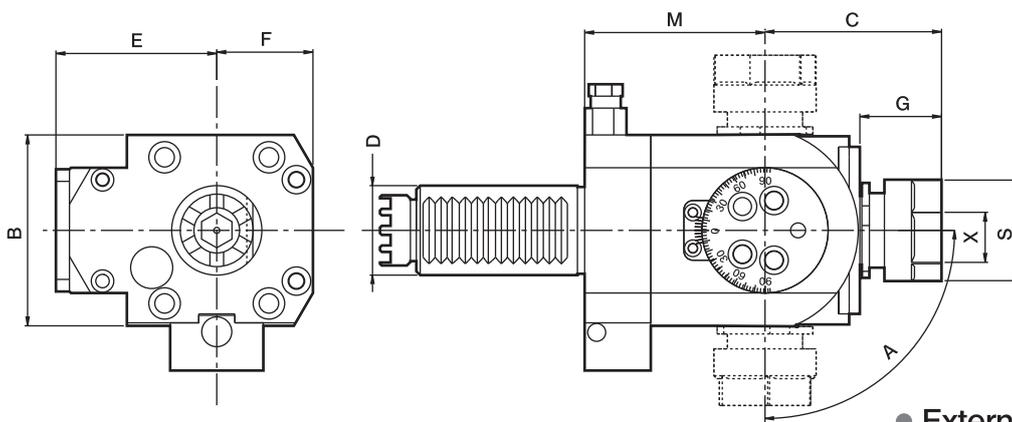
DIMENSIONS

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	32	3000	1:1	97	64	75	41	30	65	5006-160
TFR30IT1685 TFL30IT1685	30	1-10 ER16	32	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
TFR50IT2575 TFL50IT2575	50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	5006-164



Angular Heads

TYPE SPUR COUPLING-IT



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

DIMENSIONS

Order No.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
DA30IT16B	30	1-10 ER16	4000	1:1	±90°	64	59	54	32	27	60	5006-165

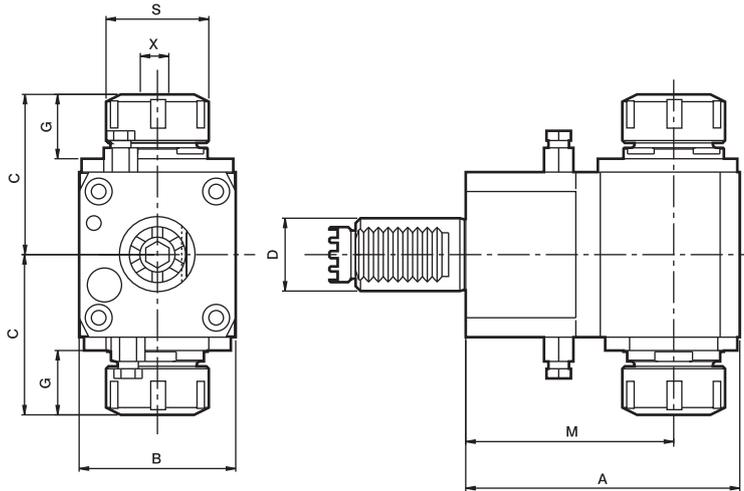
Other shank dimensions under development



Radial Drilling And Milling Heads

TYPE SPUR COUPLING-IT

DOUBLE COLLETS



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

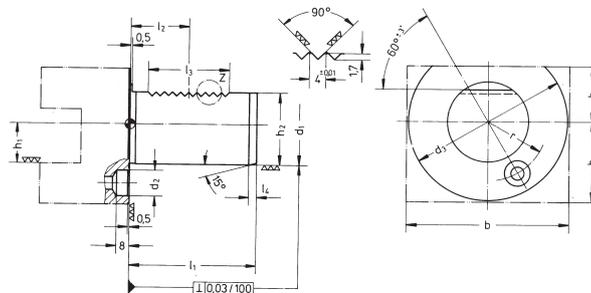
DIMENSIONS

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

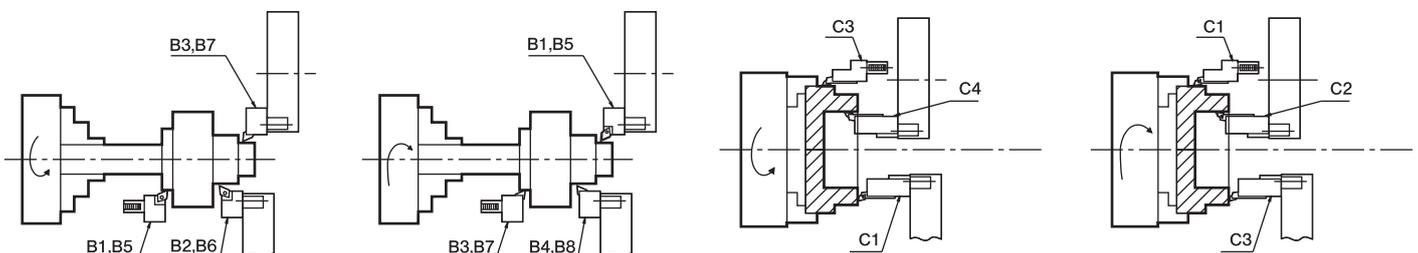


VDI Dimensional Specification of Shank DIN 69880



DIMENSIONS

d1 h6	l1 ±0.3	d2	d3	h1 max	h2 ±0.1	l2 ±0.05	l3 min	l4 +1	r4 ±0.02	CODE NO.	
20	40	10	H6	50	16	18	21.7	24	2	18	5006-169
30	55	14	H9	68	20	27	29.7	40	2	25	5006-170
40	63	14	H9	83	25	36	29.7	40	3	32	5006-171
50	78	16	H9	98	32	45	35.7	48	3	37	5006-172
60	94	16	H9	123	32	55	43.7	56	4	48	5006-173



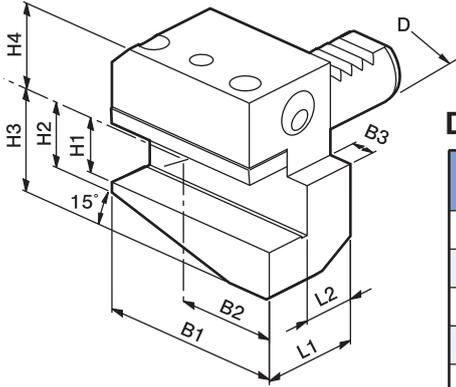


DIN 69880 Radial Stacit Holders

TYPE B1 B2

B1

- Short
- External Coolant Supply
- Right-hand

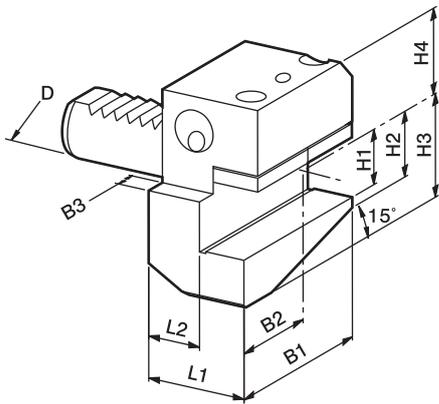


DIMENSIONS

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

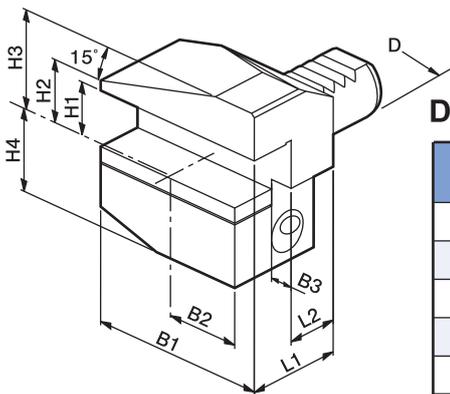


DIN 69880 Radial Stacit Holders

TYPE B3 B4

B3

- Short
- External Coolant Supply
- Right-hand

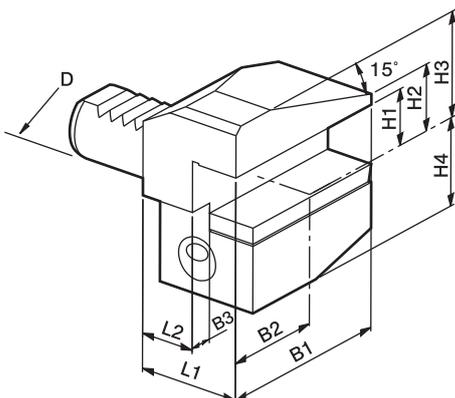


DIMENSIONS

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

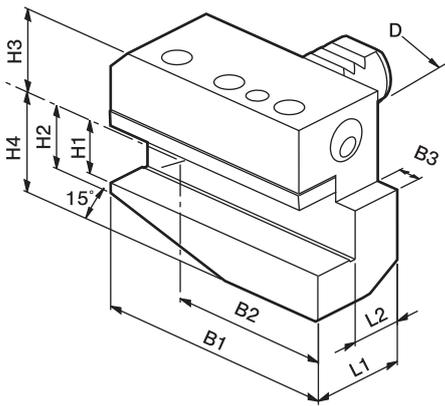


DIMENSIONS

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



DIN 69880 Radial Stacit Holders TYPE B5 B6



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

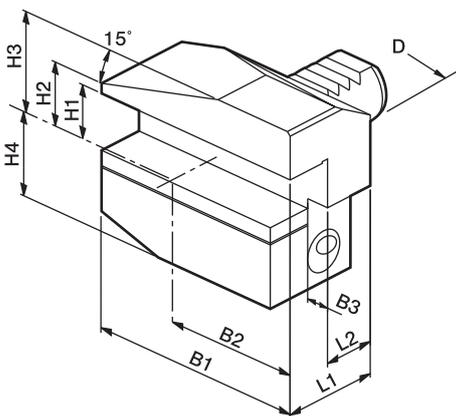
- Left-hand
- External Coolant Supply
- Long

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



DIN 69880 Radial Stacit Holders TYPE B7 B8



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

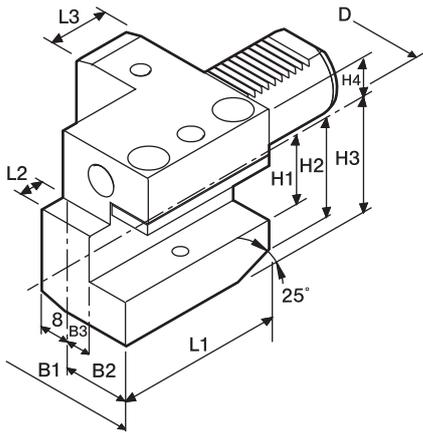
DIMENSIONS

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



DIN 69880 Axial Stacit Holders

TYPE C1 C2

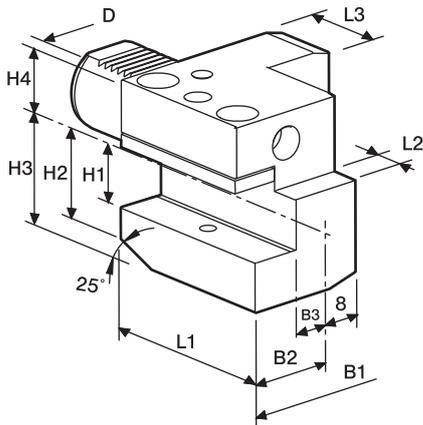


C1

- 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

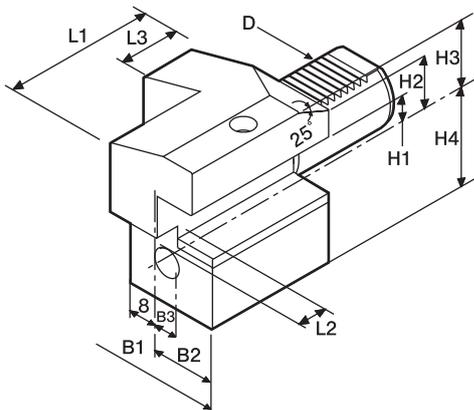
DIMENSIONS

Order No.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	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



DIN 69880 Axial Stacit Holders

TYPE C3 C4

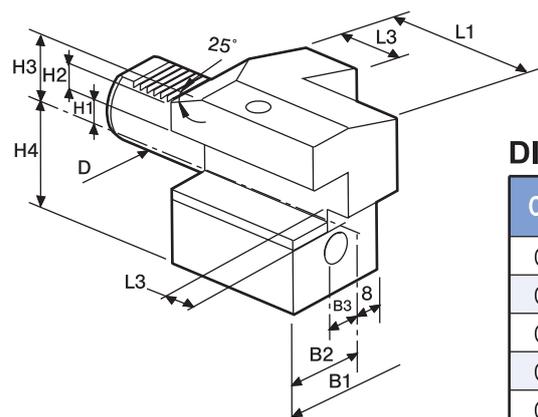


C3

- 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

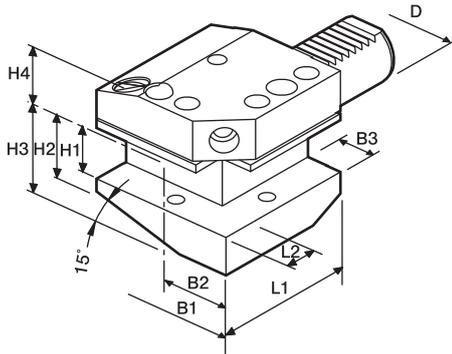
Order No.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	CODE NO.
C4-20x16	20	65	40	26	16	23	30	25	50	7	30	5006-235
C4-30x20	30	76	41	23	20	28	38	35	70	10	30	5006-236
C4-40x25	40	90	47.5	25.5	25	-	48	42.5	85	12.5	30	5006-237
C4-50x32	50	105	55	30.5	32	-	60	50	100	16	40	5006-238
C4-60x32	60	125	62.5	33	32	-	62.5	62.5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



DIN 69880 Combined Stacit Holders TYPE CB1 CB2

CB1

- External Coolant Supply
- Right-hand

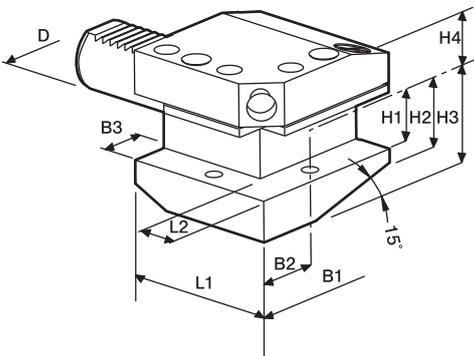


DIMENSIONS

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

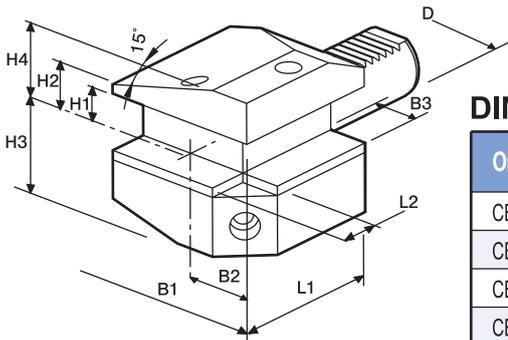
Order No.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
CB2-20x16	20	65	40	14	16	19	30	25	50	14	5006-245
CB2-30x20	30	74	40	18	20	26	38	28	70	18	5006-246
CB2-40x25	40	85	47	22	25	35	48	32.5	100	22	5006-247
CB2-50x32	50	105	55	25	32	42	60	35	120	25	5006-248
CB2-60x32	60	125	62.5	30	32	46	62.5	42.5	135	30	5006-249



DIN 69880 Combined Stacit Holders TYPE CB3 CB4

CB3

- External Coolant Supply
- Right-hand

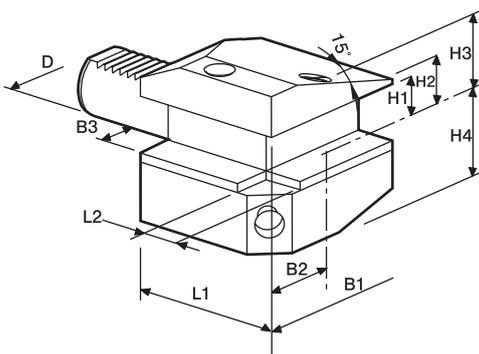


DIMENSIONS

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



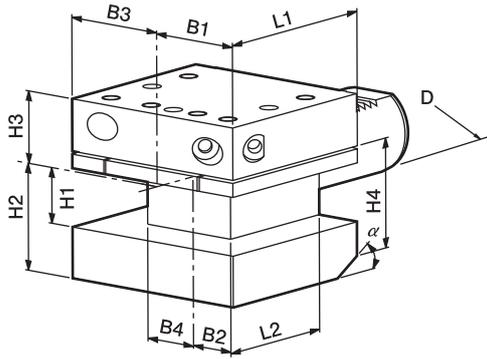
DIMENSIONS

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



DIN 69880 Combined Stacit Holders

TYPE D1 D2

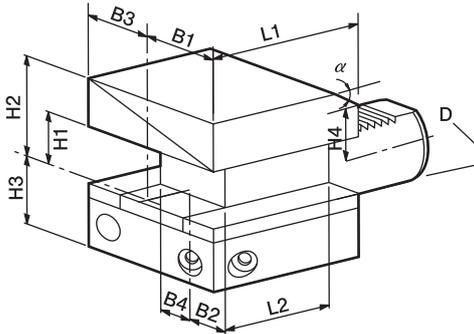


D1

- 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

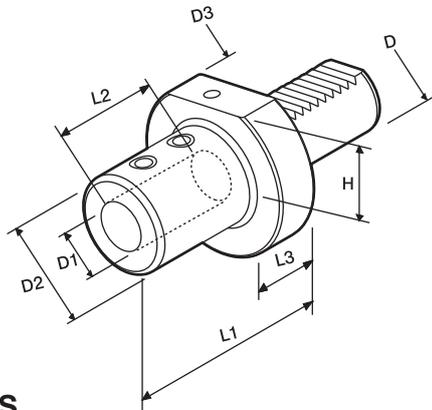
DIMENSIONS

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



DIN 69880 Stacit Holders

TYPE E1



E1

- Internal Coolant Supply
- U Drills

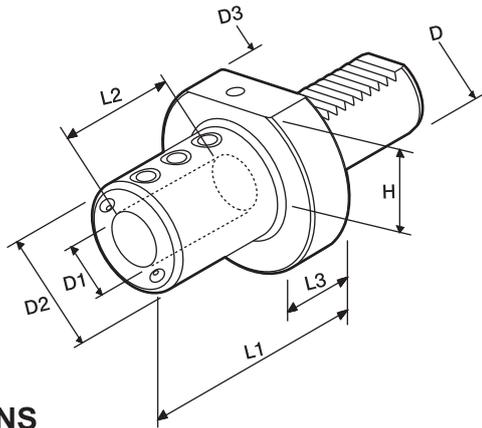
DIMENSIONS

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



DIN 69880 Stacit Holders

TYPE E2



E2

- Boring Bar Holder
- External Coolant Supply

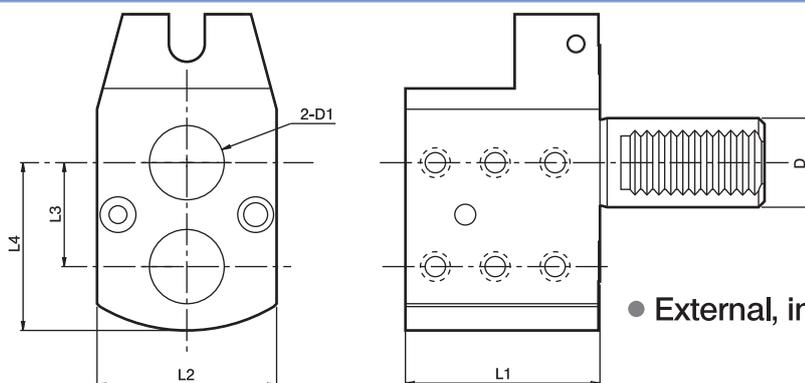
DIMENSIONS

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



DIN 69880 Stacit Holders

TYPE E2-X2



- External, internal coolant supply

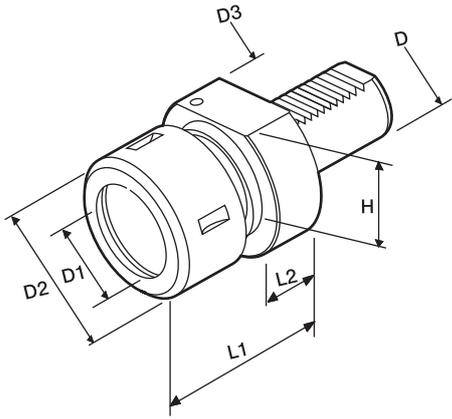
DIMENSIONS

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



DIN 69880 Stacit Holders

TYPE E3 E4

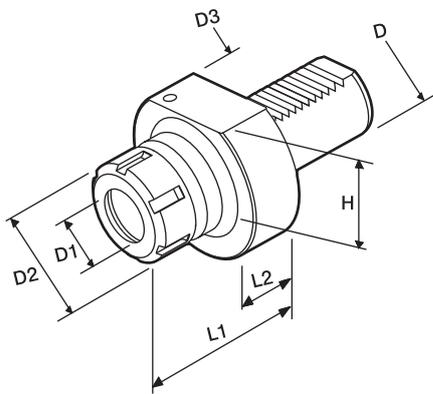


E3

- 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

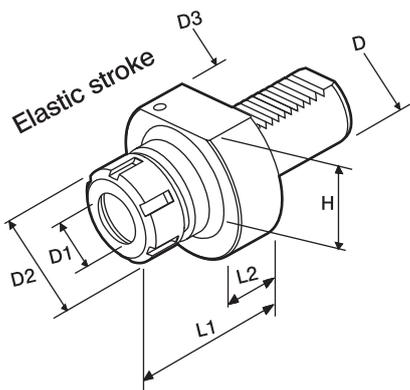
DIMENSIONS

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



DIN 69880 Stacit Holders

TYPE TAPPER, CHUCK

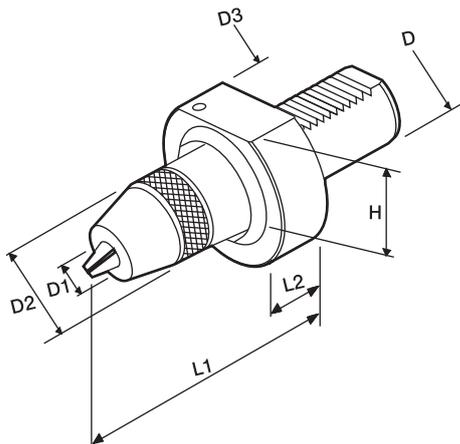


TAPPER

- 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

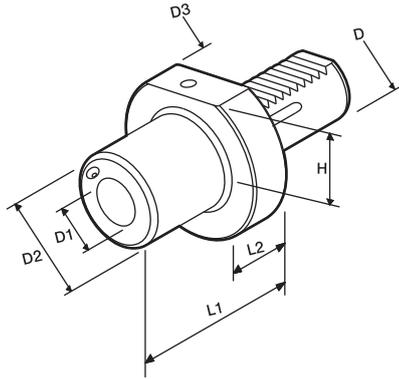
DIMENSIONS

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



DIN 69880 Stacit Holders

TYPE F



- Tool holders with morse taper according DIN 228
- External coolant supply

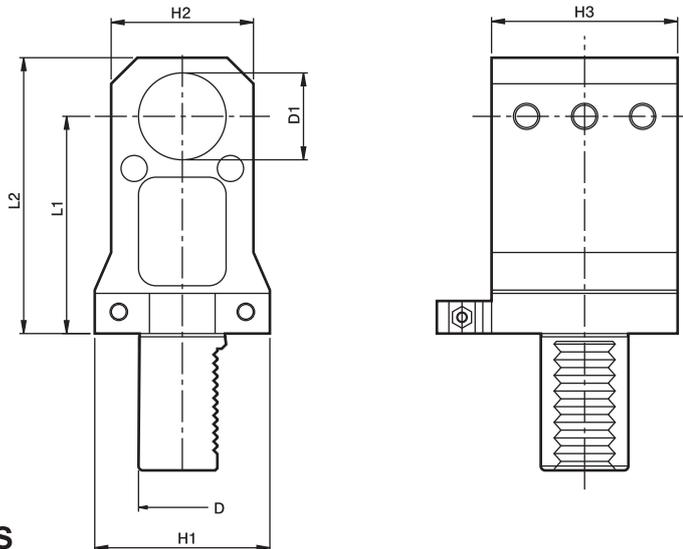
DIMENSIONS

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	27	22	5006-345
F30-MT3	30	MT3	64	68	28	36	22	5006-346
F40-MT2	40	MT2	55	83	32.5	36	22	5006-347
F40-MT3	40	MT3	58	83	32.5	36	22	5006-348
F40-MT4	40	MT4	68	83	32.5	50	22	5006-349
F50-MT2	50	MT2	55	98	35	36	30	5006-350
F50-MT3	50	MT3	58	98	35	36	30	5006-351
F50-MT4	50	MT4	68	98	35	50	30	5006-352
F60-MT3	60	MT3	58	123	42.5	36	30	5006-353
F60-MT4	60	MT4	68	123	55	36	30	5006-354



DIN 69880 Axial Stacit Holders

TYPE T1



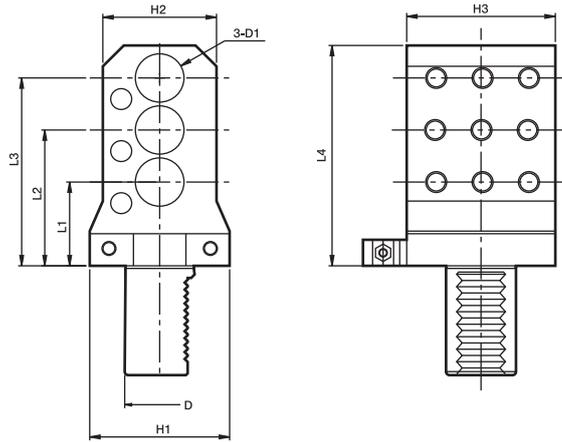
- External, internal coolant supply

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



DIN 69880 Axial Stacit Holders TYPE T1-X3



- External coolant supply

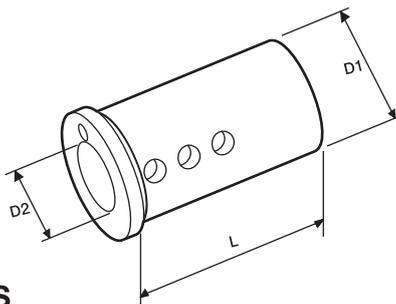
DIMENSIONS

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

TYPE RS-W RS

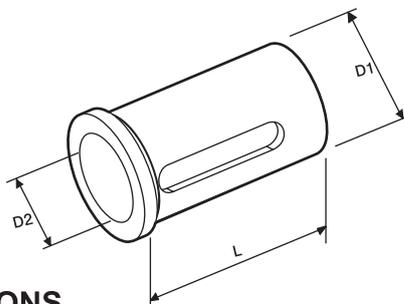


RS-W

- External Coolant Supply
- For Boring Bar Holder

DIMENSIONS

D1	L	D2							
		8	10	12	16	20	25	32	40
20	50	E20-8	E20-10	E20-12					
25	50	E25-8	E25-10	E25-12	E25-16				
32	60	E32-8	E32-10	E32-12	E32-16	E32-20			
40	75	E40-8	E40-10	E40-12	E40-16	E40-20	E40-25		
50	85	E50-8	E50-10	E50-12	E50-16	E50-20	E50-25	E50-32	



RS

- For Boring Bar Holder

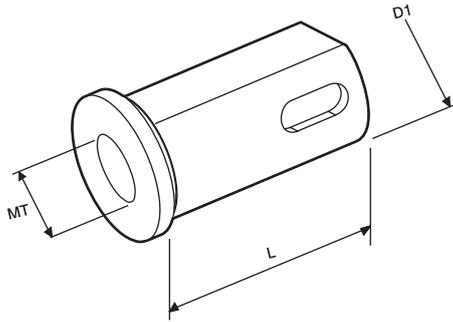
DIMENSIONS

D1	L	D2							
		8	10	12	16	20	25	32	40
20	50				E20-16				
25	50					E25-20			
32	60						E32-25		
40	75							E40-32	
50	85								E50-40



Reducing Sleeves

TYPE RS-MT TE

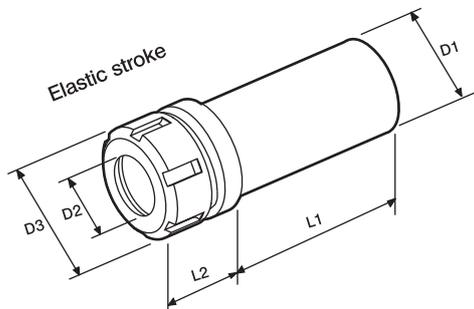


RS-MT

- Tool holders with mores taper according to DIN 228

DIMENSIONS

D1	L	MT			
		1	2	3	4
32	65	E32-MT1	E32-MT2	E32-MT3	E32-MT4
40	75	E40-MT1	E40-MT2	E40-MT3	E40-MT4
50	85	E50-MT1	E50-MT2	E50-MT3	E50-MT4



TE

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

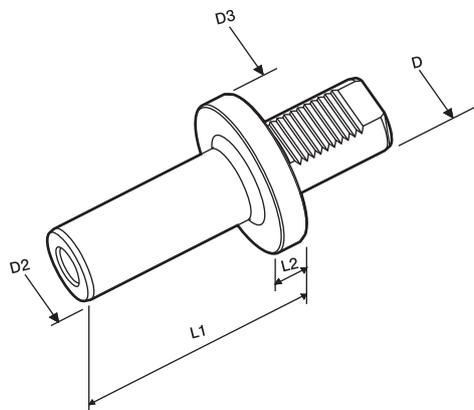
DIMENSIONS

Order No.	D1	D2		D3	L1	L2	CODE NO.
TE25-ER16	25	1-10	M3-M12	ER16 32	70.5	30	5006-363
TE32-ER20	32	2-13	M3-M16	ER20 35	65	40	5006-364
TE40-ER25	40	2-16	M4-M20	ER25 42	75	43	5006-365
TE50-ER32	50	3-20	M6-M24	ER32 50	85	48	5006-366



DIN 69880 Test Mandrel

TYPE TB1



DIMENSIONS

Order No.	D DIN 69880	D2	D3	L1	L2	CODE NO.
TB1-30	30	30	68	115	15	5006-367
TB1-40	40	40	83	115	15	5006-368
TB1-50	50	50	98	115	15	5006-369

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