

A

TOOLS FOR TURNING MACHINES



A1 - CENTERS & COLLETS (A01-A17)



A2 - CHUCKS & JAWS (A18-A30)



A3 - TOOL POSTS & HOLDERS (A31-A32)



A4 - BAR FEEDERS (A33-A41)



A5 - VDI TOOL HOLDERS (A42-A109)

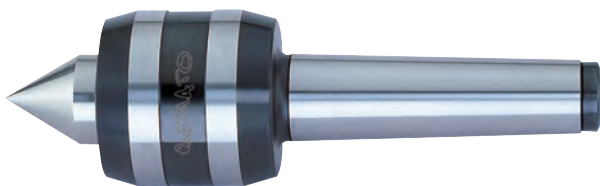


A6 - TOOL POST GRINDER FOR LATHE (A110)

A “ TOOLS FOR TURNING MACHINES



SUPER HIGH SPEED LIVE CENTERS



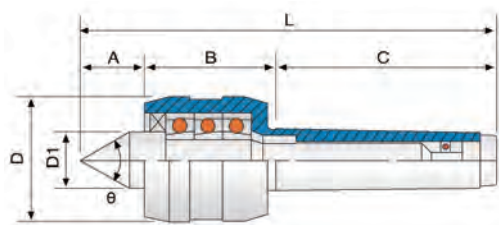
▲ ITEM NO. 51100101~51100103
< STANDARD NOSE >

FEATURES:

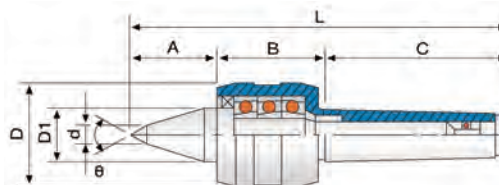
- The shaft is made of alloy steel and hardened to HRC $60^{\circ}\pm 1^{\circ}$.
- The center uses precision angular contact ball bearing and the combination of needle bearing & ball bearing.
- Applicable to CNC lathes, can be used at high speed turning and with waterproof design.
- Long nose live centers are suitable for small workpiece.



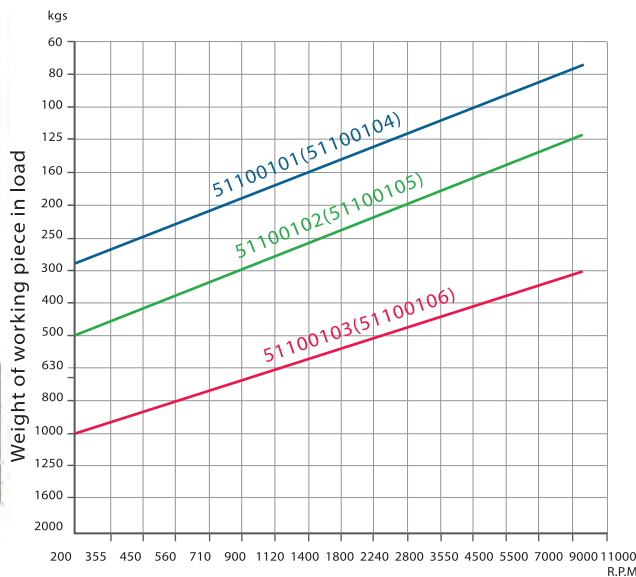
▲ ITEM NO. 51100104~51100106
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▲ STANDARD NOSE



▲ LONG NOSE



UNIT: mm

ITEM NO.	SHANK	A	B	C	D	D1	d	L	STATIC ACCURACY	MAX. SPEED	θ	G.W.	L x W x H
51100101	MT 3	38	58	86	48	30	-	182	0.003	10000 R.P.M.	60°	1.14 kgs	240 x 80 x 65
51100102	MT 4	45	65	108	62	32	-	215	0.003	10000 R.P.M.	60°	2.20 kgs	257 x 100 x 90
51100103	MT 5	50	70	136	72	40	-	256	0.003	8000 R.P.M.	60°	3.70 kgs	300 x 100 x 90
51100104	MT 3	48	58	86	48	30	10	192	0.003	10000 R.P.M.	60°	1.18 kgs	240 x 80 x 65
51100105	MT 4	52	65	108	62	32	12	225	0.003	10000 R.P.M.	60°	2.24 kgs	257 x 100 x 90
51100106	MT 5	60	70	136	72	40	14	266	0.003	8000 R.P.M.	60°	3.74 kgs	300 x 100 x 90



HIGH SPEED LIVE CENTERS



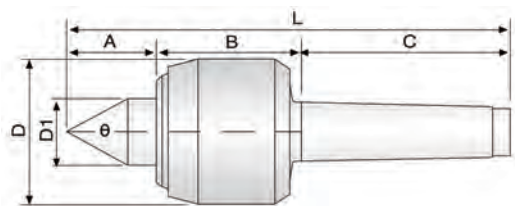
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FEATURES:

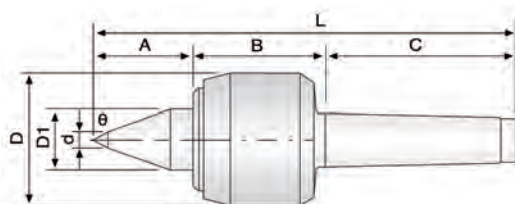
- The shaft is made of alloy steel and through vacuum heat treatment HRC 60°±1°.
It possesses high rigidity and high durability.
- The center uses the combination of roller bearing, thrust ball bearing and ball bearing.
- Applicable to CNC lathes, can be used at high speed turning and with waterproof design.
- Long nose live centers are suitable for small workpiece.



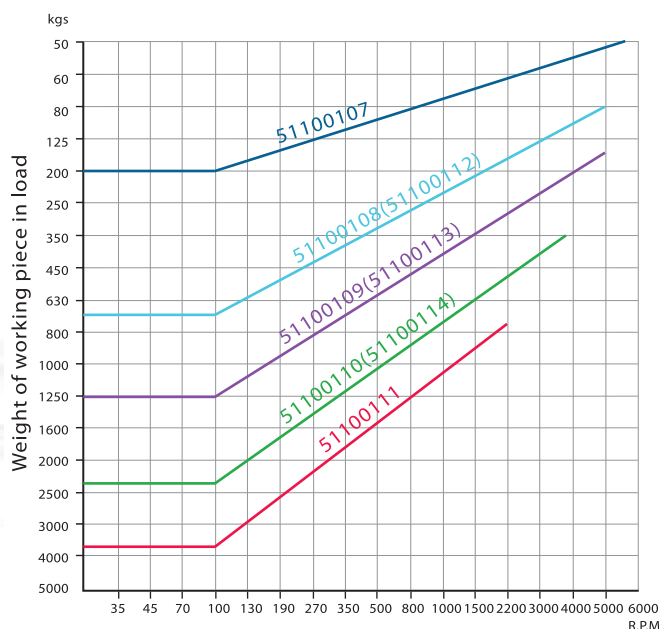
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▲ STANDARD NOSE



▲ LONG NOSE



UNIT: mm

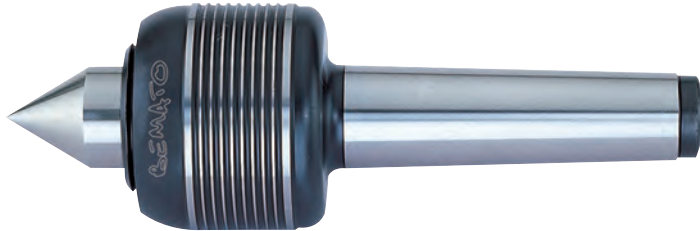
ITEM NO.	SHANK	A	B	C	D	D1	d	L	STATIC ACCURACY	MAX. SPEED	θ	G.W.	L x W x H
51100107	MT 2	20	38	69	32	13	-	127	0.003	6000 R.P.M.	60°	0.38 kg	180 x 50 x 40
51100108	MT 3	34	61	86	58	25	-	181	0.003	5200 R.P.M.	60°	1.58 kgs	240 x 80 x 65
51100109	MT 4	44	72	109	76	35	-	225	0.003	5000 R.P.M.	60°	3.04 kgs	257 x 100 x 90
51100110	MT 5	60	91	136	95	45	-	287	0.003	3500 R.P.M.	60°	6.54 kgs	320 x 118 x 115
51100111	MT 6	64	106	190	120	58	-	360	0.008	2300 R.P.M.	60°	15.0 kgs	425 x 185 x 180
51100112	MT 3	45	61	86	58	25	10	192	0.003	5200 R.P.M.	60°	1.58 kgs	240 x 80 x 65
51100113	MT 4	55	72	109	76	35	12	236	0.003	5000 R.P.M.	60°	3.10 kgs	257 x 100 x 90
51100114	MT 5	70	91	136	95	45	14	297	0.003	3500 R.P.M.	60°	6.54 kgs	320 x 118 x 110



A “ TOOLS FOR TURNING MACHINES



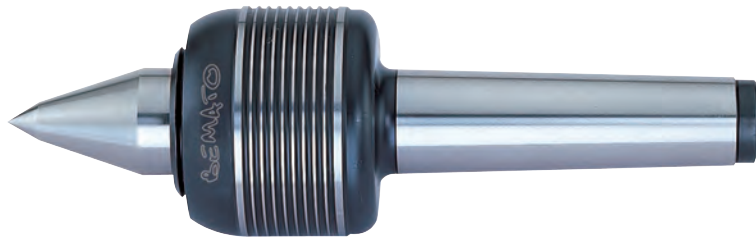
HIGH SPEED & HEAVY DUTY LIVE CENTERS



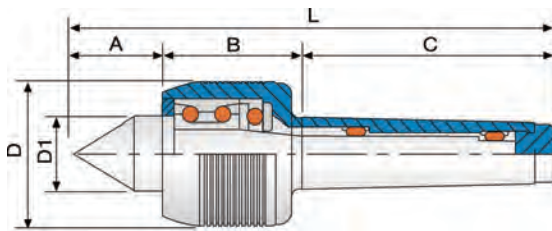
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FEATURES:

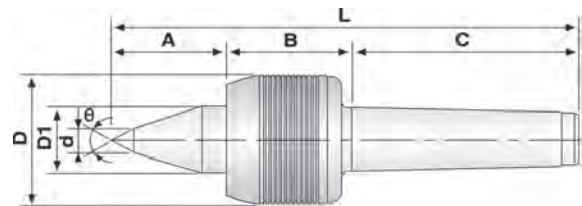
- Shaft uses alloy steel and hardened through vacuum heat treatment to HRC $60^{\circ}\pm 1^{\circ}$, main body is made of SCM 21 material.
- Front end is fitted with angular contact ball bearing & thrust bearing. Middle & rear end are fitted with needle bearing.
- These centers are suitable for CNC lathes at high speed & heavy load operation with waterproof design.
- Long nose live centers are suitable for small workpiece.



▲ ITEM NO. 51100118~51100120
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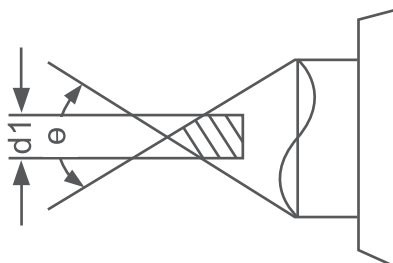


▲ STANDARD NOSE

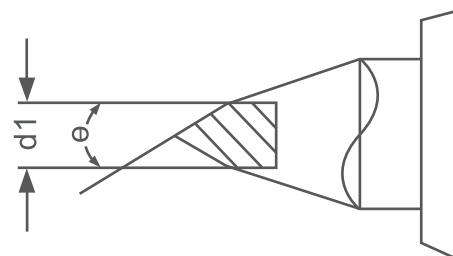


▲ LONG NOSE

▼ SPECIAL ORDER
With carbide tipped

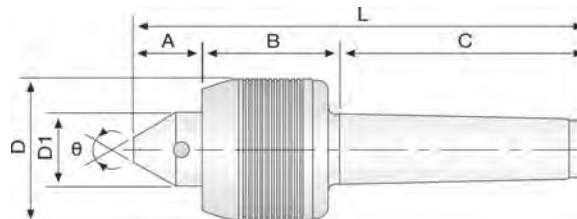
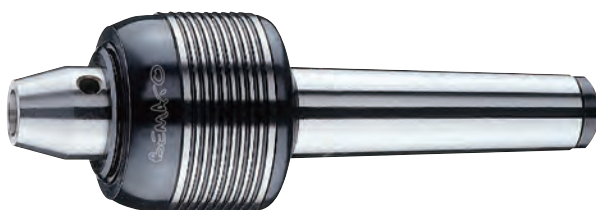
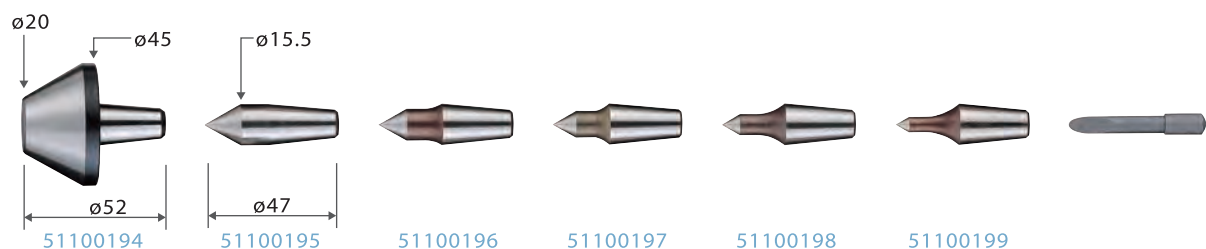


▲ STANDARD NOSE

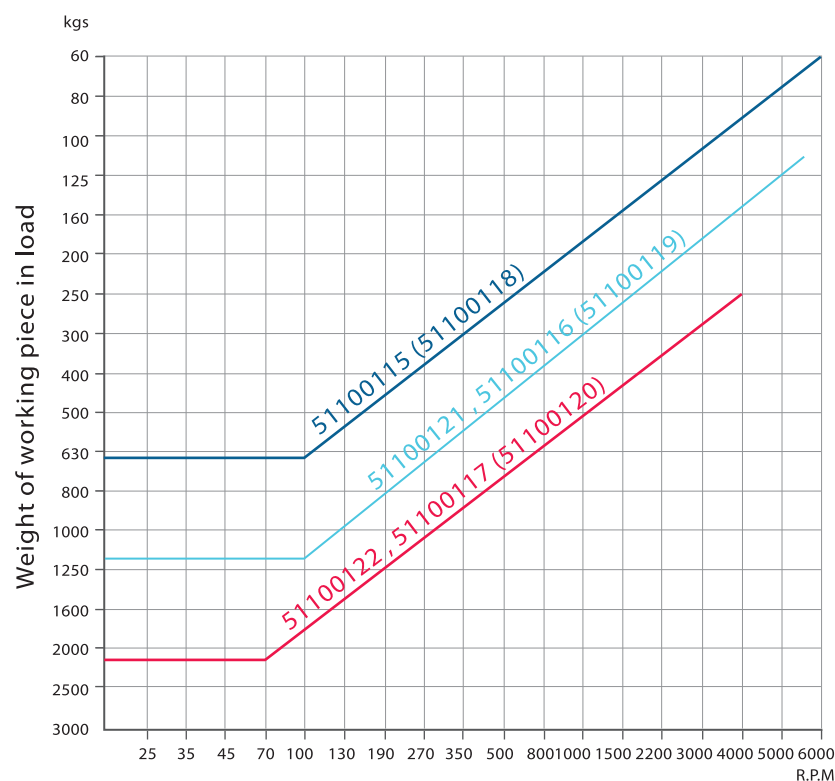


▲ LONG NOSE

CHANGEABLE TIPS:



ITEM NO. 51100121~51100122



UNIT: mm

ITEM NO.	SHANK	A	B	C	D	D1	d	L	d1	STATIC ACCURACY	MAX. SPEED	θ	G.W.	L x W x H
51100115	MT 3	38	50	86	53	30	-	174	12	0.003	6000 R.P.M.	60°	1.26 kgs	240 x 80 x 65
51100116	MT 4	45	60	108	68	32	-	213	12	0.003	5500 R.P.M.	60°	2.38 kgs	257 x 100 x 90
51100117	MT 5	52	70	136	87	40	-	258	18	0.003	4000 R.P.M.	60°	4.82 kgs	320 x 118 x 115
51100118	MT 3	52	50	86	53	30	10	188	12	0.003	6000 R.P.M.	60°	1.28 kgs	240 x 80 x 65
51100119	MT 4	55	60	108	68	32	12	223	12	0.003	5500 R.P.M.	60°	2.40 kgs	257 x 100 x 90
51100120	MT 5	67	70	136	87	40	14	273	18	0.003	4000 R.P.M.	60°	4.90 kgs	320 x 118 x 115
51100121	MT 4	29	64	108	68	32	-	201	-	0.005	5500 R.P.M.	30°	2.96 kgs	238 x 132 x 80
51100122	MT 5	37	70	136	87	40	-	243	-	0.005	4000 R.P.M.	30°	5.40 kgs	280 x 150 x 106



A “TOOLS FOR TURNING MACHINES

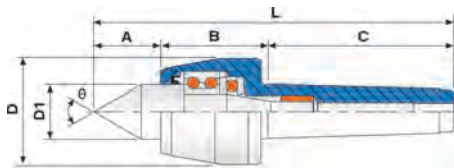
HIGH SPEED & MEDIUM DUTY LIVE CENTERS

FEATURES:

- Center shaft is made of alloy steel and hardened through vacuum heat treatment to provide higher rigidity HRC 60°±1°.
- Center is fitted with double rolls thrust bearing & needle roller bearing assembly.
- Applicable to high speed lathes & CNC lathes with heavy load.
- Long nose live centers are suitable for small workpiece.
- Waterproof design



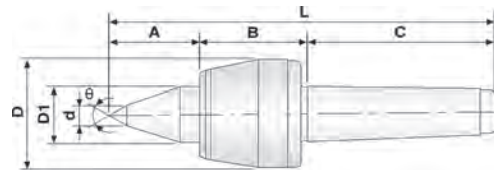
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< STANDARD NOSE >



▲ STANDARD NOSE

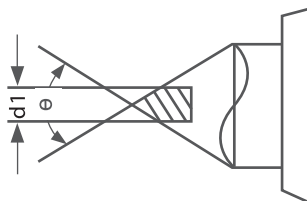


▲ ITEM NO. 51100127~51100129
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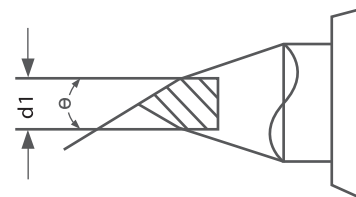


▲ LONG NOSE

▼ SPECIAL ORDER With carbide tipped



▲ STANDARD NOSE

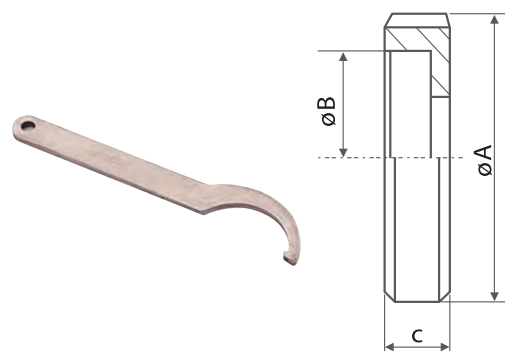


▲ LONG NOSE

▼ ITEM NO. 51101075, 51101076 < STANDARD NOSE > 4AT, 5AT



▼ ITEM NO. 51101077, 51101078 < LONG NOSE > 4BT, 5BT



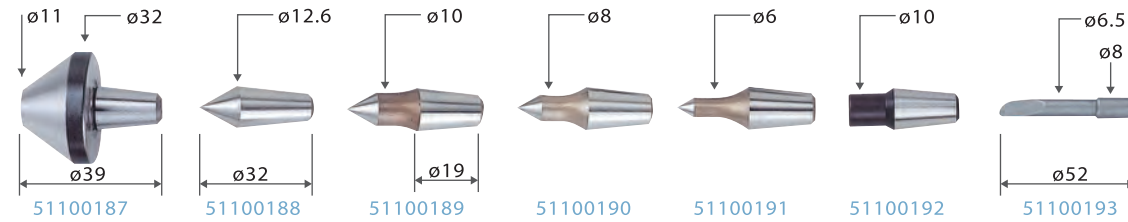
MORSE TAPER MT / MK	DIMENSIONS (mm)		
	A	B	C
51101075	69	M60 x 1.5	20
51101077			
51101076	92	M80 x 1.5	25
51101078			



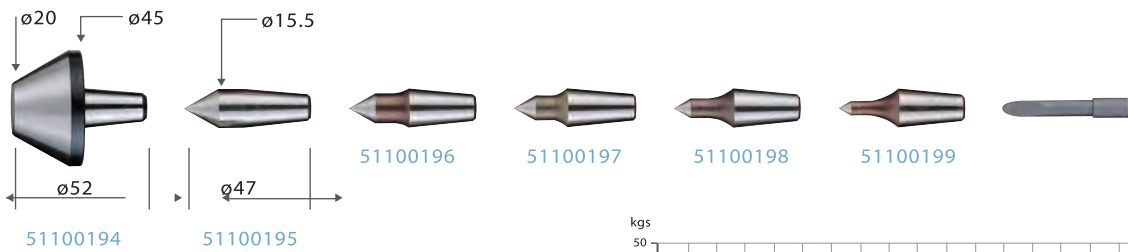
HIGH SPEED & MEDIUM DUTY LIVE CENTERS - WATER PROOF TYPE

CHANGEABLE TIPS:

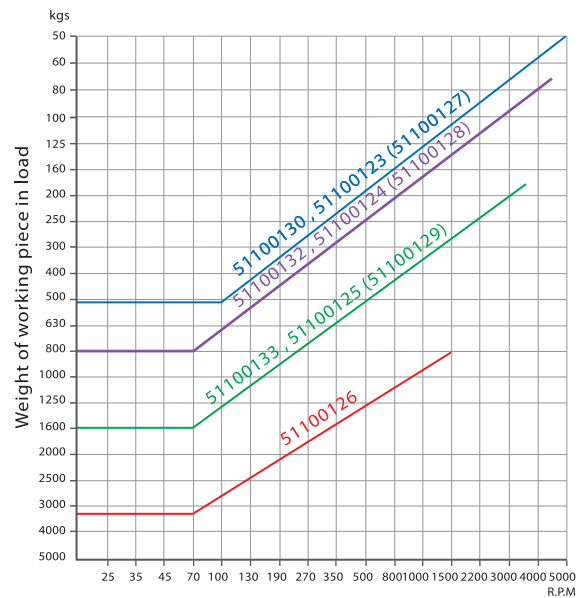
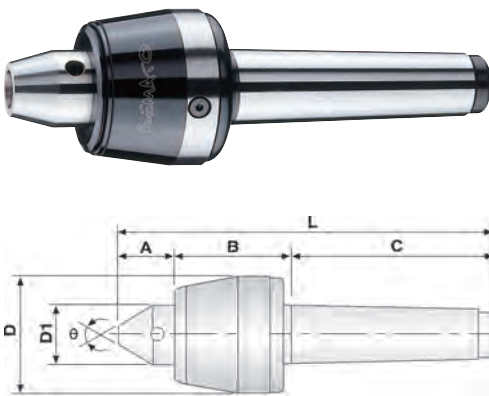
(For 51100130 & 51100131)



(For 51100132 & 51100133)



ITEM NO. 51100130~51100133



UNIT: mm

ITEM NO.	SHANK	A	B	C	D	D1	d	L	d1	STATIC ACCURACY	MAX. SPEED	θ	G.W.	L x W x H
51100123	MT 3	39	55	86	53	30	-	180	12	0.003	5000 R.P.M.	60°	1.28 kgs	240 x 80 x 65
51100124	MT 4	42	62	108	63	32	-	208	12	0.003	4500 R.P.M.	60°	2.08 kgs	257 x 100 x 90
51100125	MT 5	49	71	136	83	40	-	256	18	0.003	3500 R.P.M.	60°	4.42 kgs	320 x 118 x 115
51100126	MT 6	80	110	189	128	70	-	379	-	0.008	1500 R.P.M.	60°	15.7 kgs	425 x 185 x 180
51100127	MT 3	45	55	86	53	30	10	186	12	0.003	5000 R.P.M.	60°	1.30 kgs	240 x 80 x 65
51100128	MT 4	52	62	108	63	32	12	218	12	0.003	4500 R.P.M.	60°	2.10 kgs	257 x 100 x 90
51100129	MT 5	59	71	136	83	40	14	266	18	0.003	3500 R.P.M.	60°	4.54 kgs	320 x 118 x 115
51100130	MT 3	28	55	86	53	30	-	169	-	0.005	5000 R.P.M.	60°	1.50 kgs	235 x 130 x 100
51100131	MT 4	30	62	108	63	32	-	196	-	0.005	4500 R.P.M.	60°	2.18 kgs	235 x 130 x 100
51100132	MT 4	30	62	108	63	32	-	196	-	0.005	4500 R.P.M.	60°	2.70 kgs	238 x 132 x 80
51100133	MT 5	34	71	136	83	40	-	237	-	0.005	3500 R.P.M.	60°	5.00 kgs	280 x 150 x 106
51101075	MT 4	42	62	108	60	32	-	208	12	0.003	4500 R.P.M.	60°	2.46 kgs	257 x 100 x 90
51101076	MT 5	49	71	136	80	40	-	256	18	0.003	3500 R.P.M.	60°	5.12 kgs	320 x 118 x 115
51101077	MT 4	52	62	108	60	32	12	218	12	0.003	4500 R.P.M.	60°	2.52 kgs	257 x 100 x 90
51101078	MT 5	59	71	136	80	40	14	266	18	0.003	3500 R.P.M.	60°	5.20 kgs	320 x 118 x 115



A “TOOLS FOR TURNING MACHINES



HIGH SPEED LIVE CENTERS-ROLLING TYPE

FEATURES:

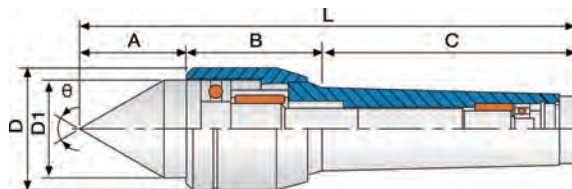
- Center shaft and main body are made of alloy steel and hardened to HRC $60^{\circ}\pm 1^{\circ}$.
- Center is assembled with thrust bearing, needle bearing & ball bearing.
- Applicable to medium & high speed lathes with heavy load.
- Long nose live centers are suitable for small workpiece.



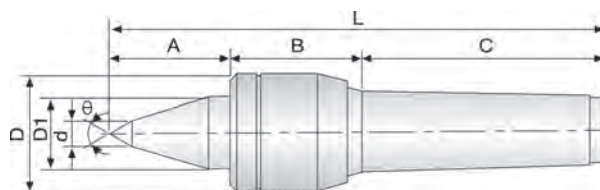
▲ ITEM NO. 51100134~51100137
< STANDARD NOSE >



▲ ITEM NO. 51100138~51100139
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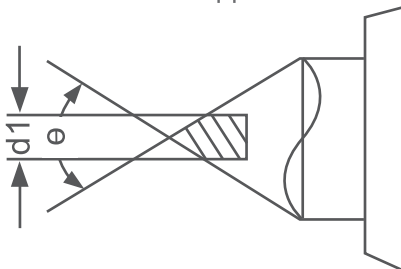


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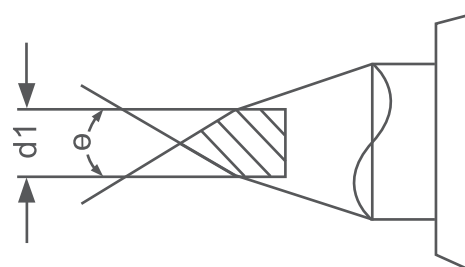


▲ LONG NOSE

▼ SPECIAL ORDER
With carbide tipped



▲ STANDARD NOSE

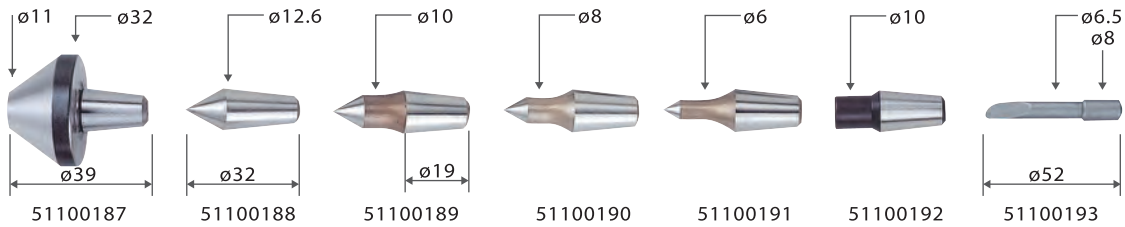


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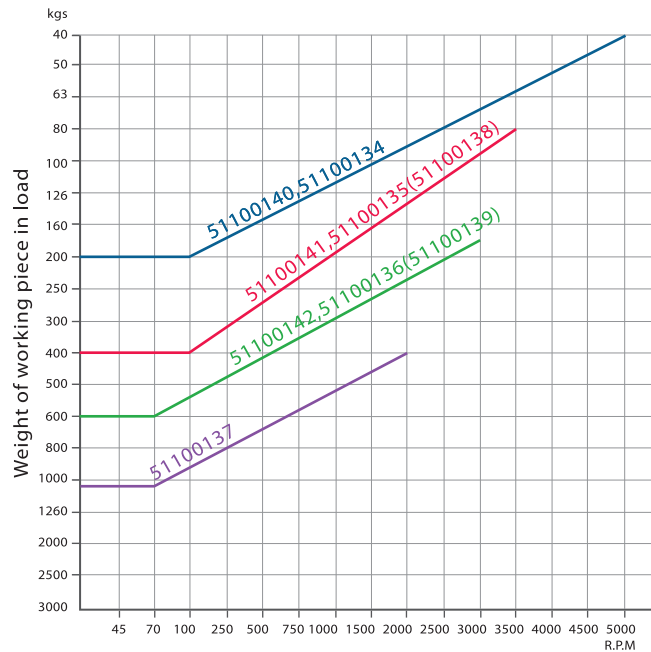
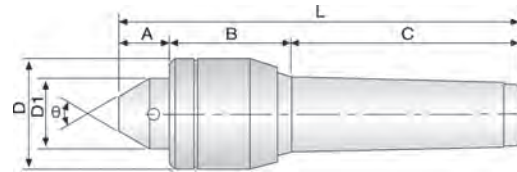


HIGH SPEED LIVE CENTERS-ROLLING TYPE

CHANGEABLE TIPS:



ITEM NO. 51100140~51100142



UNIT: mm

ITEM NO.	SHANK	A	B	C	D	D1	d	L	d1	STATIC ACCURACY	MAX. SPEED	θ	G.W.	L x W x H
51100134	MT 2	28	35	69	32	23	-	132	-	0.003	5000 R.P.M.	60°	0.36 kg	175 x 45 x 45
51100135	MT 3	36	44	86	41	35	-	166	12	0.003	3500 R.P.M.	60°	0.88 kg	200 x 60 x 50
51100136	MT 4	41	51	108	47	40	-	200	12	0.003	3000 R.P.M.	60°	1.46 kgs	240 x 80 x 65
51100137	MT 5	54	72	136	65	52	-	262	18	0.003	2000 R.P.M.	60°	3.70 kgs	300 x 100 x 90
51100138	MT 3	46	44	86	41	25	10	176	12	0.003	3500 R.P.M.	60°	0.84 kg	200 x 60 x 50
51100139	MT 4	55	51	108	47	32	12	214	12	0.003	3000 R.P.M.	60°	1.46 kgs	240 x 80 x 65
51100140	MT 2	22	36	69	32	25	-	127	-	0.005	5000 R.P.M.	60°	0.86 kg	173 x 102 x 66
51100141	MT 3	23	44	86	41	30	-	153	-	0.005	3500 R.P.M.	60°	1.18 kgs	235 x 130 x 100
51100142	MT 4	23	51	108	47	32	-	182	-	0.005	3000 R.P.M.	60°	1.62 kgs	235 x 130 x 100



A “TOOLS FOR TURNING MACHINES



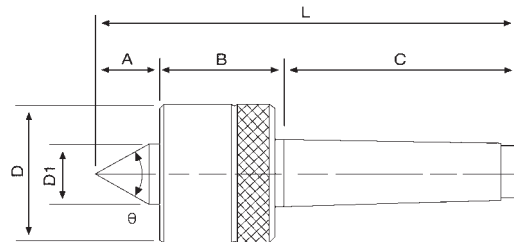
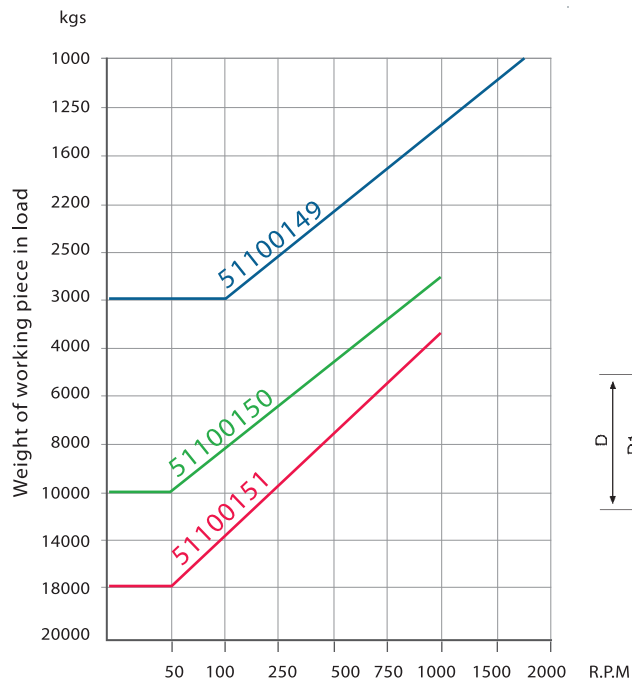
EXTRA HEAVY DUTY LIVE CENTERS

FEATURES:

- Shaft uses alloy steel and hardened through vacuum heat treatment to HRC $60^{\circ} \pm 2^{\circ}$.
- Applicable to heavy duty lathes.
- Waterproof design.



▲ ITEM NO. 51100149~51100151



UNIT: mm

ITEM NO.	SHANK	A	B	C	D	D1	L	STATIC ACCURACY	MAX. SPEED	θ	G.W.	L x W x H
51100149	MT 5	52	82	135	98	50	269	0.005	1800 R.P.M.	60°	7.5 kgs	340 x 140 x 120
51100150	MT 6	74	116	190	148	70	380	0.008	1000 R.P.M.	60°	22 kgs	425 x 185 x 180
51100151	MT 7	106	127	260	196	90	493	0.008	1000 R.P.M.	60°	41 kgs	530 x 242 x 235
51101079	MT 80#	106	127	200	196	90	433	0.008	1000 R.P.M.	60°	39 kgs	530 x 242 x 235



LIVE CENTERS

FEATURES:

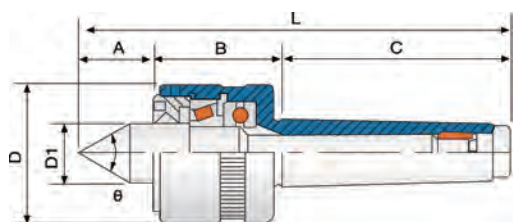
- The shaft uses alloy steel and hardened through vacuum heat treatment to HRC $60^{\circ} \pm 1^{\circ}$.
- The center uses the combination of taper roller bearing and needle bearing.
- Application to medium and heavy load.
- The center is adjustable to reach to original loading capacity after using a period of time.
- Long nose live centers are suitable for small workpiece.
- Waterproof design.



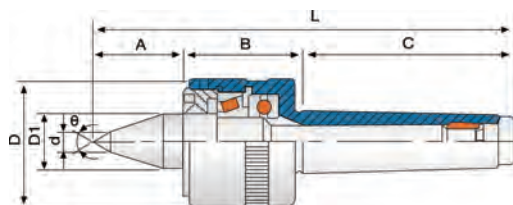
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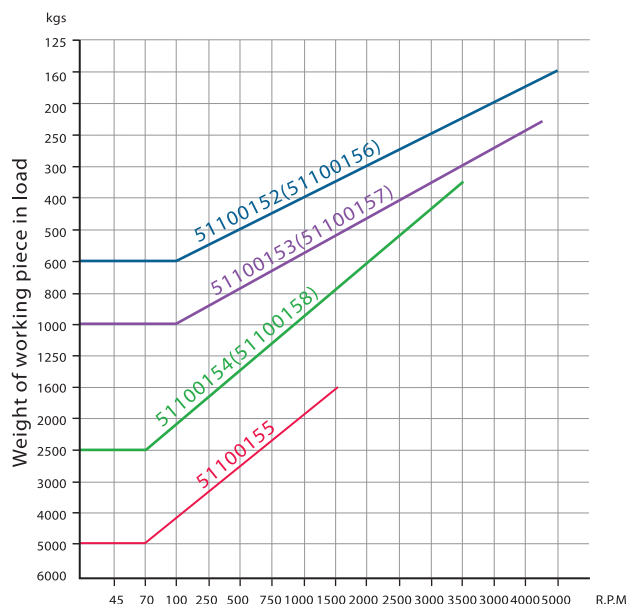
▲ ITEM NO. 51100156~51100158
< LONG NOSE >



▲ STANDARD NOSE



▲ LONG NOSE



UNIT: mm

ITEM NO.	SHANK	A	B	C	D	D1	d	L	STATIC ACCURACY	MAX. SPEED	θ	G.W.	L x W x H
51100152	MT 3	37	47	86	50	25	-	170	0.003	5000 R.P.M.	60°	1.06 kgs	240 x 80 x 65
51100153	MT 4	45	59	108	65	32	-	212	0.003	4500 R.P.M.	60°	2.40 kgs	257 x 100 x 90
51100154	MT 5	50	62	136	80	40	-	248	0.003	3500 R.P.M.	60°	4.40 kgs	320 x 118 x 115
51100155	MT 6	66	85	189	128	60	-	333	0.008	1500 R.P.M.	60°	14.2 kgs	425 x 185 x 180
51100156	MT 3	47	47	86	50	25	10	180	0.003	5000 R.P.M.	60°	1.08 kgs	240 x 80 x 65
51100157	MT 4	55	59	108	65	32	12	222	0.003	4500 R.P.M.	60°	2.42 kgs	257 x 100 x 90
51100158	MT 5	60	85	136	80	40	14	263	0.003	3500 R.P.M.	60°	4.30 kgs	320 x 118 x 115



A “TOOLS FOR TURNING MACHINES



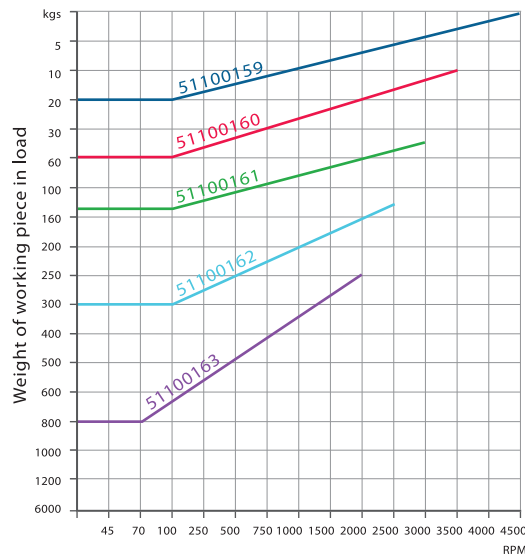
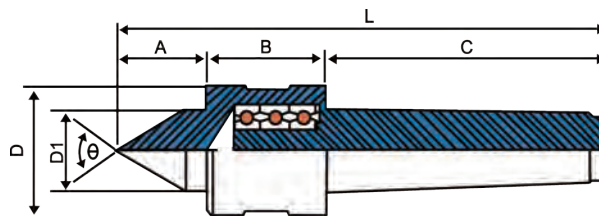
LIVE CENTERS (LIGHT DUTY)

FEATURES:

- Center is made of CR-MO steel and hardened to HRC 60°±2° .
- Center is assembled with ball bearings.
- Application to medium & high speed lathes with light duty.



▲ ITEM NO. 51100159~51100163



UNIT: mm

ITEM NO.	SHANK	A	B	C	D	D1	L	STATIC ACCURACY	MAX. SPEED	θ	G.W.	L x W x H
51100159	MT 1	21	31	56	32	16	108	0.005	4500 R.P.M.	60°	0.22 kg	120 x 40 x 40
51100160	MT 2	26	37	69	40	22	132	0.005	3500 R.P.M.	60°	0.42 kg	140 x 50 x 50
51100161	MT 3	32	46	86	45	26	164	0.005	3000 R.P.M.	60°	0.76 kg	170 x 50 x 50
51100162	MT 4	34	46	108	48	30	188	0.005	2500 R.P.M.	60°	1.22 kgs	205 x 60 x 60
51100163	MT 5	50	62	136	68	45	248	0.005	2000 R.P.M.	60°	3.20 kgs	260 x 80 x 80

● tailstock pressure: 4 ~ 8 kg / 10 ~ 15 pound



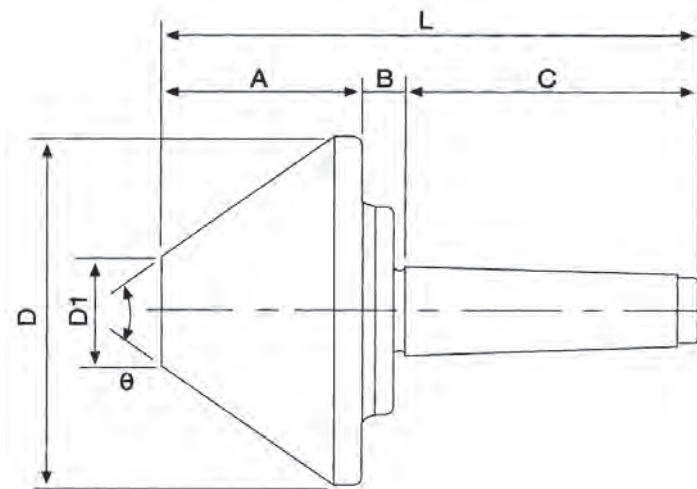
BULL NOSE CENTERS

FEATURES:

- The tip of bull nose center uses CR-MO steel and hardened to HRC 60° ±2°.
- The center uses combination of taper roller bearing and ball bearing.
- Application to pipes turning.



▲ ITEM NO. 51100164~51100182



UNIT: mm

ITEM NO.	SHANK	A	B	C	D	D1	L	STATIC ACCURACY	LOAD WEIGHT	MAX. SPEED	θ	G.W.	L x W x H
51100164	MT 2	46	17	69	63	12	132	0.005	RPM100=200 kg	4000 R.P.M.	60°	0.94 kg	195 x 86 x 86
51100165	MT 3	46	17	86	63	12	149	0.005	RPM100=200 kg	4000 R.P.M.	60°	1.08 kgs	195 x 86 x 86
51100166	MT 3	52	18	86	78	15	156	0.005	RPM100=400 kg	3300 R.P.M.	70°	1.56 kgs	195 x 86 x 86
51100167	MT 3	59	16	86	106	25	161	0.005	RPM100=500 kg	3000 R.P.M.	75°	2.66 kgs	220 x 120 x 120
51100168	MT 4	46	17	108	63	12	171	0.005	RPM100=200 kg	4000 R.P.M.	60°	1.38 kgs	195 x 86 x 86
51100169	MT 4	52	18	108	78	15	178	0.005	RPM100=400 kg	3300 R.P.M.	70°	1.88 kgs	195 x 86 x 86
51100170	MT 4	59	16	108	106	25	183	0.005	RPM100=500 kg	3000 R.P.M.	75°	2.96 kgs	220 x 120 x 120
51100171	MT 4	73	12	108	128	40	193	0.005	RPM100=650 kg	2000 R.P.M.	70°	4.84 kgs	140 x 140 x 240
51100172	MT 4	88	12	108	156	45	208	0.008	RPM100=800 kg	1900 R.P.M.	70°	7.68 kgs	170 x 170 x 260
51100173	MT 4	98	12	108	206	81	218	0.008	RPM100=1300 kg	1500 R.P.M.	70°	15.0 kgs	285 x 285 x 360
51100174	MT 4	107	13	108	258	92	228	0.008	RPM100=2000 kg	1200 R.P.M.	80°	22.0 kgs	285 x 285 x 360
51100175	MT 5	73	12	136	128	40	221	0.005	RPM100=650 kg	2000 R.P.M.	70°	5.70 kgs	140 x 140 x 240
51100176	MT 5	88	12	136	156	45	236	0.008	RPM100=800 kg	1900 R.P.M.	70°	8.54 kgs	170 x 170 x 260
51100177	MT 5	98	12	136	206	81	246	0.008	RPM100=1600 kg	1500 R.P.M.	70°	16.0 kgs	285 x 285 x 360
51100178	MT 5	107	13	136	258	92	256	0.008	RPM100=2200 kg	1200 R.P.M.	80°	25.0 kgs	285 x 285 x 360
51100179	MT 5	107	30	136	306	120	273	0.01	RPM100=3000 kg	1000 R.P.M.	90°	37.0 kgs	340 x 340 x 360
51100180	MT 6	98	12	190	206	81	300	0.008	RPM100=2000 kg	1500 R.P.M.	70°	20.0 kgs	285 x 285 x 360
51100181	MT 6	107	13	190	258	92	310	0.008	RPM100=2500 kg	1200 R.P.M.	80°	29.0 kgs	285 x 285 x 360
51100182	MT 6	107	30	190	306	120	327	0.01	RPM100=3000 kg	1000 R.P.M.	90°	40.0 kgs	340 x 340 x 360



A “TOOLS FOR TURNING MACHINES



WORK DRIVING CENTERS—FIXED TIP

FEATURES:

- Body & center shaft are made of alloy steel with heat and sub-zero treatment.
- Hardened: HRC 60°±1°.
- Driving dog is required for traditional lathe turning to prevent workpiece from stopping. These work driving centers are either with 6 teeth or 8 teeth design for superseding the driving dogs. It supports the workpiece on end surface for easy setup and rapid machining.



ITEM NO. 51100183



ITEM NO. 51100184



ITEM NO. 51100185



WORK DRIVING CENTERS—CHANGEABLE TIPS

ITEM NO. 51100186



UNIT: mm

ITEM NO.	SHANK	CENTER SHAFT SIZE	OUTER DIA	WORKING RANGE	G.W. (kgs)	L x W x H
51100183	MT.4	6ø	16ø	16ø - 25ø	0.60	175 x 40 x 40
51100184	MT.4	8ø	23ø	23ø - 32ø	0.64	175 x 40 x 40
51100185	MT.4	8ø.14ø	32ø	32ø - 45ø	0.68	175 x 40 x 40
51100186	MT.4	6ø.8ø.10ø	16ø .23ø .30ø	15ø - 45ø	2.56	270 x 140 x 110



ECONOMY LIVE CENTERS WITH 7PC INTERCHANGEABLE TIPS

FEATURES:

- Double rows of ball bearing and thrust bearing used in the front.
- Ground to the highest accuracy.
- The front of the center is HRC 60° and the concentricity is within 0.005 mm.



▲ ITEM NO. 51100227~511000230

ITEM NO.	SHANK
51100227	MT 2
51100228	MT 3
51100229	MT 4
51100230	MT 5



ECONOMY LIVE CENTERS



▲ ITEM NO. 51100223~511000226

ITEM NO.	SHANK
51100223	MT 2
51100224	MT 3
51100225	MT 4
51100226	MT 5



BULL NOSE LIVE CENTERS

▼ ITEM NO. 51100200~511000222



FEATURES:

- Made of high quality steel.
- Hardened & ground.
- Accuracy: concentricity within 0.005 mm.
- Especially suitable for handling pipe, tube, etc.

ITEM NO.	SHANK	HEAD DIA
51100200	MT 2	2 1/2"
51100201	MT 2	3"
51100202	MT 3	3"
51100203	MT 3	4"
51100204	MT 4	4"
51100205	MT 3	5"
51100206	MT 4	5"
51100207	MT 5	5"
51100208	MT 4	6"
51100209	MT 5	6"
51100210	MT 5	8"

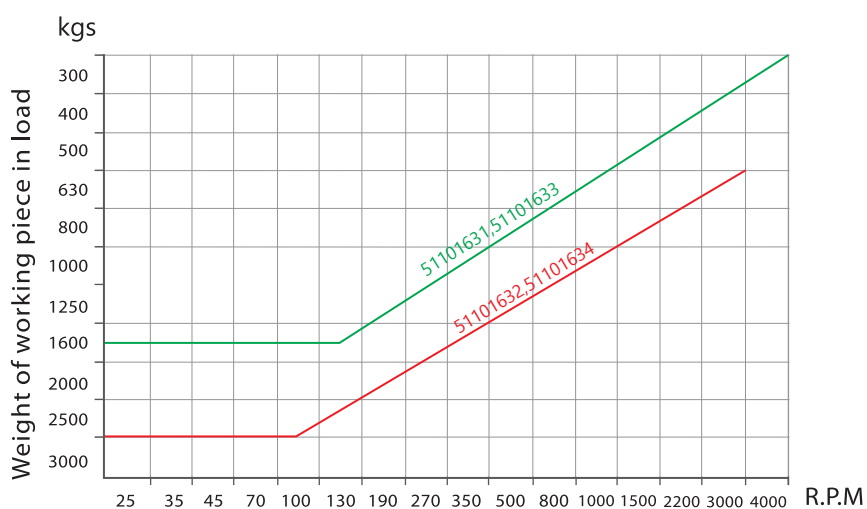
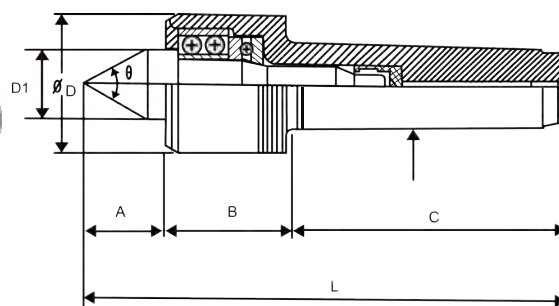
ITEM NO.	SHANK	HEAD DIA
51100211	MT 2	2.24"
51100212	MT 2	2.44"
51100213	MT 2	2.48"
51100214	MT 3	2.95"
51100215	MT 3	3.07"
51100216	MT 3	4.13"
51100217	MT 3	4.21"
51100218	MT 4	4.92"
51100219	MT 4	5.04"
51100220	MT 5	5.91"
51100221	MT 5	6.61"
~~51100222~~	~~MT 6~~	~~7.87"~~



A “ TOOLS FOR TURNING MACHINES



LIVE CENTERS (MEDIUM DUTY)



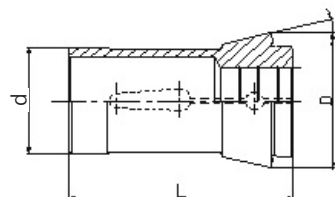
- Testing workpiece: Dry Screw Vacuum Pump
- Testing: 24 hours
- Accuracy: 0.005 to 0.003
- Temp: 30° down to 20°
- Water proof design

UNIT: mm

ITEM NO.	MORES TAPER MT/MK	A	B	C	D	D1	d	L	STATIC ACCURACY	MAX. SPEED	θ
51101631	MT-4A	41	56	109	58	28	-	206	0.003	5000 RPM	60°
51101632	MT-5A	43	57	136	68	35	-	236	0.003	4500 RPM	60°
51101633	MT-4AT	41	56	109	58	28	-	206	0.003	5000 RPM	60°
51101634	MT-5AT	43	57	136	68	35	-	236	0.003	4500 RPM	60°



PUSH-TYPE COLLETS



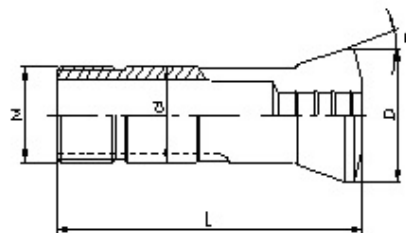
UNIT: mm

ITEM NO.	MODEL	TYPE	ART NO.	d	L	D	DIN NO	SCHAU NO	NEU NO.
52172151	140E	TRAUB A-15	1215	ø 22.0	55	ø 30.0	6343-22	F22/71	
52172152	148E	TRAUB A-20	1220	ø 28.0	70	ø 38.0		F28/93	231.004
52172153	161E	TRAUB A-25	1225	ø 32.0	75	ø 45.0	6343-32	F32/221	231.005
52172154	162E	INDEX#25	1226	ø 35.0	70	ø 43.0		F35/67	
52172155	163E	INDEX#30	1230	ø 35.0	80	ø 48.0	6343-35	F35/94	
52172156	164E	#22 B&S LICO#32	1232	ø 38.1	108	ø 49.0		F38/72	285.002
52172157	171E	INDEX#36	1236	ø 42.0	94	ø 55.0	6343-42	F42/99	231.007
52172158	173E	INDEX#42	1242	ø 48.0	94	ø 60.0	6343-48	F48/81	231.009
52172159	177E	INDEX#52	1252	ø 58.0	94	ø 70.0			
52172160	185E	INDEX#60	1261	ø 66.0	110	ø 84.0	6343-60	F66/359	231.001
52172161	193E	INDEX#80	1280	ø 90.0	130	ø 107.0	6343-80		

POLYGYM	LI CO	JINN FA	MIYNO	RIKEN
#38	TNS-30/42	C-32	BNC20	SAD-25
	#65	C-44	BNC34	SAD-40
		JCL-50	#25	SAD-50
		JCL-60		SAD-65
		JCL-75		



PULL-TYPE COLLETS



UNIT: mm

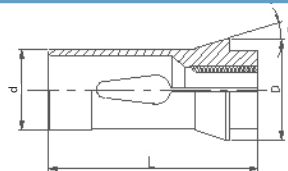
ITEM NO.	MODEL	TYPE	STEEL ART NO.	CARBIDE ART NO.	d	L	D	THREAD M	YUNGHO	FUJI	DAIWA	KITAMURA
52171562	EGURO	#6	1015	2015	ø 19.0	76	ø 26.0	18.5 x 1.2	YB-25	#0825	#10	XKNC-15FA
52171563		#8	1020	2020	ø 25.0	102	ø 33.0	24 x 1.5	YB-32	#1820	#102	XKNC-20FA
52171564		#10	1024	2024	ø 32.0	118	ø 42.0	32 x 1.5	YB-42	#1825	#15	
52171565	HARDINGE	5C	1705	2705	ø 31.75	88	ø 37.3	31.3 x 20f"		#1832		
52171566		16C	1716	2716	ø 48.0	114.5	ø 57.4	47.5 x 1.75				
52171567		20C	1720	2720	ø 60.4	163	ø 73.2	60 x 1.5				
52171568		R8	1708	2708	ø 24.1	105	ø 32.4	19 x 1.5				

RIKEN	CITIZEN	TSUGAMI	STAR	KATAMAZ	WACHIGAL	Wang Tzyy	SENDAY	SCHAUBLIN	NANN	DAVENPORT	DMG
PULL-25	BL20/25	BM-16	SC-20	850	WPL-17	#20	SD-25	W-20 80/00004	359E (K23)	Burring	GM 16-6
PULL-40							SD-32	W-25 80/00005	386E (K32)	Serro B	GM 16-6 SUB
PULL-60							SD-34	HW-25 80/02010	389E (K45)		GMC 20
							SD-45	HB-32 72/02010	9049E		GMC 20 SUB
							SD-52	L-20 77/00122	9070E		
								B6 72/00128	3640E(2)		
								B46 72/02007	3714E		
									3718E		



A “TOOLS FOR TURNING MACHINES

HEADSTOCK COLLETS FOR LATHES



UNIT: mm

ITEM NO.	MODEL	TYPE	STEEL ART NO.	CARBIDE ART NO.	d	L	D	STYLE
52171569	HANWHA	HANEX11, SL12	6912	3912	ø 16.0	64	ø 22.0	F16/1076 1212E TF16 40.012
52171570		HANEX17, ML18-G, SL16	1215	2215	ø 22.0	55	ø 30.0	F22/71 140E 231.002
52171571		HANEX20	6920	3920	ø 25.0	77	ø 35.0	F25/64 145E TF25 40.005
52171572		HANEX25	6425	3425	ø 32.0	79	ø 45.0	
52171573		SL-32	6932	3932	ø 37.0	92	ø 47.0	F37/740 1536E TF37 40.008

STROHM	TRAUB	WANG TZY	POLYGYM	JINN FA	HANWHA	NEXTURN
M75-M105	TNL 7	SL-1693	DIAMOND 12,12CS	JSL-20	SL-35	SA-12
M105/125	TNL 12/7		DIAMOND 16,16CS	JSL-26	SL-35HP-II,SUB	SA-18,SA-20,SA-20e
M205/255	TNL 12/7	SL-2596	DIAMOND 20,20B,20CS,20CSB	JSL-32	SL-38HP-II	SA-26,SA-26e
M205/255	TNL 16		DIAMOND 25,25B,25CS,25CSB	JSL-42AB		SA-32
	TNL 16	SL-3295	DIAMOND 32,32B,32CS,32CSB			
	TNL 20		DIAMOND SY-42			

CITIZEN	STAR	TSUGAMI	NOMURA
R04	JNC8	T7, BOO7, BM07, NP-4W	NSP8410, NSP8420
R07, D/ F/ G/ L-10	SW7, SW10, JNC10, RNC10, SNC10	L10	NSP1053, NN10K
B12, F12	SE12, S13, VNC12, SJ15	NT/NP11	NSP1653, NSP1253
D/ E/ F/ L/, E/ F/ L/ M-20	SB16	BO12, NT/NP-12	NN20KF
L16/20, F16/20, G20, E20, A20	RNC16, SE16, SR16, SH16	NP17, NP16, NT17	P-23
F25, L25, E25, E25J	JNC16, VNC20	BO18A, S20, BO205A	NNCP2553, NN25K
L32, M32, E32, G32	KNC16/20, SR20, VNC20	BO18B, S20, BO205B	P-32
	JNC16, ZNC16, VNC20, J20	BS26A, BS25	
	KJR25, SCN25	BS26B, BS25	
	JNC32/25, VNC32, MR32	NT/NP-32	
	STM38	BH38	
		BH38(SUB)	

TORNOS	TORNOS-DECO	BECHLER	BECHLER ENC	GAUTHIER	GILDEMEISTER
M4, T4, TV	DECO 7	A4, A7	ENC 74 / 75	GM 12	GLD 12
M7	DECO 10	A7, A10, AR10	ENC 162 / 164	GM 20	GLD 16/20, GS20-L
M57	DECO 13	B12	ENC 163 / 167	GM 25	GLD 25L, GS25-L
R10, M10	DECO 13 / 16	B16			SPEED 32-10
R125	DECO 20, DELTA 12 / 20	B20, BR20			SPRINT 42
R16, M15	DECO 26, SIGMA 20				
RR20, R20, M20	DECO 32				
M25	DELTA 38 / 5				
MR32, TBM32	DELTA 38 / 5 (SUB)				

PETERMANN	MANURHIN	MAIER	HARDINGE	DMG
P4,P7	Swing 13, Traminer 13	ML7	S20, ST220	GMC 20
P7	Twin 13, Decotum 16	ML12G, ML12S, ML125K II	ST225	
P7R	Traminer 16	ML18S, ML18H, ML20D		
P10, 10HSR	KMX,Swing, Traminer, Twin 20	ML26S, ML26H		
P16	KMX 26, Twin 20, Swing 20	ML26D		
	Mirabel PM 32	ML36		



3-JAW SCROLL CHUCKS



< ITEM NO. 51100501~51100510

W/ 2 SETS OF JAWS

UNIT:mm

ITEM NO.	CHUCK DIA	THRU HOLE	GROSS WEIGHT	MAX. SPEED
51100501	85	16	1.9 kgs	2500 RPM
51100502	112	24	3.9 kgs	2500 RPM
51100503	132	32	5.4 kgs	2500 RPM
51100504	167	45	9.5 kgs	2000 RPM
51100505	193	58	14.4 kgs	2000 RPM
51100506	203	58	15.7 kgs	2000 RPM
51100507	233	70	23.2 kgs	2000 RPM
51100508	273	89	31.4 kgs	1800 RPM
51100509	310	105	44.8 kgs	1800 RPM
51100510	405	160	97 kgs	1500 RPM



< ITEM NO. 51100511~51100517

W/ 2 PCS JAWS

UNIT:mm

ITEM NO.	CHUCK DIA	THRU HOLE	GROSS WEIGHT	MAX. SPEED
51100511	167	45	9.4 kgs	2000 RPM
51100512	193	58	13.9 kgs	2000 RPM
51100513	203	58	15.3 kgs	2000 RPM
51100514	233	70	22.4 kgs	2000 RPM
51100515	273	89	29 kgs	1800 RPM
51100516	310	105	42.8 kgs	1800 RPM
51100517	405	160	91 kgs	1500 RPM



< ITEM NO. 51100518~51100520

A1 DIRECT MOUNTING, 2 PCS JAWS

UNIT:mm

ITEM NO.	SPINDLE SIZE	CHUCK DIA	THRU HOLE	GROSS WEIGHT	MAX. SPEED
51100518	A1-5	200	40	18 kgs	2000 RPM
51100519	A1-6	200	56	18.5 kgs	2000 RPM
51100520	A1-6	255	56	31 kgs	1800 RPM



< ITEM NO. 51100522~51100529

D1 CAMLOCK DIRECT MOUNTING, 2 PCS JAWS

UNIT:mm

ITEM NO.	SPINDLE SIZE	CHUCK DIA	THRU HOLE	GROSS WEIGHT	MAX. SPEED
51100522	D1-4	165	46	11 kgs	4000 RPM
51100523	D1-5	200	46	18 kgs	3200 RPM
51100524	D1-5	250	58	29.5 kgs	2500 RPM
51100525	D1-6	200	58	17 kgs	3200 RPM
51100526	D1-6	250	76	29.5 kgs	2500 RPM
51100527	D1-6	306	103	47 kgs	2200 RPM
51100528	D1-8	250	76	27 kgs	2500 RPM
51100529	D1-8	306	103	47 kgs	2200 RPM



A2 - CHUCKS & JAWS

TOOLS FOR TURNING MACHINES

A “TOOLS FOR TURNING MACHINES



4-JAW SCROLL CHUCKS



< ITEM NO. 51100530~51100533

4-JAW W/ 2 SETS OF JAWS

UNIT:mm

ITEM NO.	CHUCK DIA	THRU HOLE	GROSS WEIGHT	MAX. SPEED
51100530	192	58	14.9 kgs	2000 RPM
51100531	232	70	23.9 kgs	2000 RPM
51100532	310	105	46.3 kgs	1800 RPM
51100533	405	160	101 kgs	1500 RPM

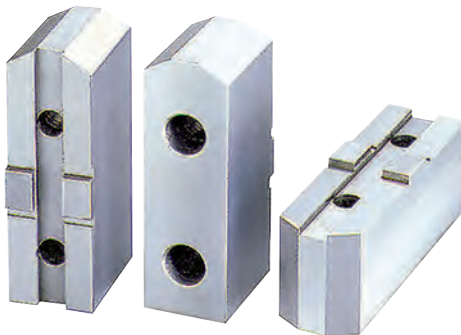


< ITEM NO. 51100534~51100537

4-JAW W/ 2 PCS OF JAWS

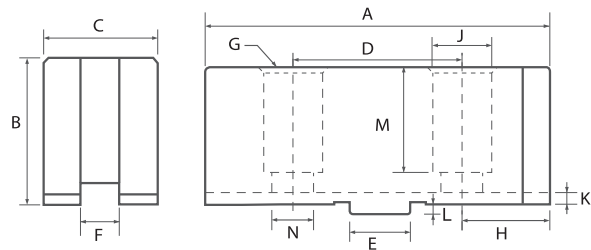
UNIT:mm

ITEM NO.	CHUCK DIA	THRU HOLE	GROSS WEIGHT	MAX. SPEED
51100534	192	58	14.2 kgs	2000 RPM
51100535	232	70	22.7 kgs	2000 RPM
51100536	310	105	47 kgs	1800 RPM
51100537	405	160	93 kgs	1500 RPM



< ITEM NO. 51100540~51100544

SOFT JAWS FOR 2-PC JAWS CHUCK



UNIT:mm

ITEM NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	NET WEIGHT
51100540	73	37	26	38.1	12.68	7.94	M8	17.45	14	3.5	3	25	9	1.3 kgs
51100541	95	48	31	44.4	12.68	7.94	M10	25.3	17	3.8	3	34	11	2.6 kgs
51100542	110	48	37	54	19.03	12.7	M12	28	19	4.2	3	34	13	3.6 kgs
51100543	125	54	42	63.5	19.03	12.7	M12	30.75	19	4.2	3	38	13	5.5 kgs
51100544	160	70	50	76.2	19.03	12.7	M16	41.9	25	5.5	6	48	17	10.4 kgs



2/3/4-JAW A2 TYPE HYDR. CHUCKS (HOLLOW)



< ITEM NO. 51101635~51101641

2-JAW A2 TYPE

UNIT:mm

ITEM NO.	CHUCK DIA	THRU HOLE	NET WEIGHT	MAX. SPEED
51101635	110	26	3.6 kgs	8000 RPM
51101636	135	33	6.5 kgs	7000 RPM
51101637	169	45	13.1 kgs	6000 RPM
51101638	210	52	23.0 kgs	5000 RPM
51101639	254	75	35.9 kgs	4200 RPM
51101640	304	91	56.6 kgs	3300 RPM
51101641	381	117.5	103.2 kgs	2500 RPM



< ITEM NO. 51101642~51101653

3-JAW A2 TYPE

UNIT:mm

ITEM NO.	CHUCK DIA	THRU HOLE	NET WEIGHT	MAX. SPEED
51101642	110	26	3.8 kgs	8000 RPM
51101643	135	33	6.1 kgs	7000 RPM
51101644	169	45	12.5 kgs	6000 RPM
51101645	210	52	21.9 kgs	5000 RPM
51101646	254	75	33.7 kgs	4200 RPM
51101647	304	91	55.3 kgs	3300 RPM
51101648	381	117.5	106.8 kgs	2500 RPM
51101649	450	120	152 kgs	2000 RPM
51101650	530	180	195.2 kgs	1700 RPM
51101651	610	205	269.4 kgs	1400 RPM
51101652	254	78	36.7 kgs	4200 RPM
51101653	304	93	57.4 kgs	3300 RPM



< ITEM NO. 51101654~51101659

4-JAW A2 TYPE

UNIT:mm

ITEM NO.	CHUCK DIA	THRU HOLE	NET WEIGHT	MAX. SPEED
51101654	169	45	14.2 kgs	4500 RPM
51101655	210	52	24.5 kgs	3600 RPM
51101656	254	75	38.1 kgs	3200 RPM
51101657	304	91	60.5 kgs	2500 RPM
51101658	381	117.5	111.5 kgs	1800 RPM
51101659	450	120	164.5 kgs	1500 RPM

A “TOOLS FOR TURNING MACHINES



2-JAW A2 TYPE HYDR. CHUCKS (SOLID)



<ITEM NO. 51101660~51101663

UNIT: mm

ITEM NO.	CHUCK DIA	THRU HOLE	NET WEIGHT	MAX. SPEED
51101660	165	-	11.1 kgs	5000 RPM
51101661	210	-	21.3 kgs	4000 RPM
51101662	254	-	32.6 kgs	3500 RPM
51101663	304	-	57.0 kgs	3000 RPM



3-JAW A2 TYPE HYDR. CHUCKS (SOLID)



<ITEM NO. 51101664~51101670

UNIT: mm

ITEM NO.	CHUCK DIA	THRU HOLE	NET WEIGHT	MAX. SPEED
51101664	135	-	6 kgs	5500 RPM
51101665	165	-	11.4 kgs	5000 RPM
51101666	210	-	21.9 kgs	4600 RPM
51101667	254	-	33.4 kgs	4000 RPM
51101668	304	-	58.5 kgs	3200 RPM
51101669	381	-	100.6 kgs	3000 RPM
51101670	450	-	134.3 kgs	2700 RPM



<ITEM NO. 51101671~51101676

UNIT: mm

ITEM NO.	CHUCK DIA	THRU HOLE	NET WEIGHT	MAX. SPEED
51101671	381	-	104.1 kgs	3000 RPM
51101672	450	-	138.5 kgs	2700 RPM
51101673	530	-	204.8 kgs	1900 RPM
51101674	610	-	260 kgs	1700 RPM
51101675	800	-	455.4 kgs	1100 RPM
51101676	1000	-	-	800 RPM



6-JAW / 8-JAW AWL TYPE CHUCKS



< ITEM NO. 51100553~51100554

6 JAW CHUCKS

UNIT: mm

ITEM NO.	CHUCK DIA	THRU HOLE	GROSS WEIGHT	MAX. SPEED	RANGE-SOLID JAW
51100553	112	32	4.2 kgs	1200 RPM	ø2 - ø32
51100554	167	60	9.2 kgs	1200 RPM	ø3 - ø60



< ITEM NO. 51100555

8 JAW CHUCKS

UNIT: mm

ITEM NO.	CHUCK DIA	THRU HOLE	GROSS WEIGHT	MAX. SPEED	RANGE-SOLID JAW
51100555	233	100	23.15 kgs	1000 RPM	ø7 - ø100



A2 - CHUCKS & JAWS

TOOLS FOR TURNING MACHINES



SUPER HIGH SPEED HOLLOW ROTARY HYDR. CYLINDERS



UNIT: mm

ITEM NO.	B1	C	D (h7)	E	F	G	H	J	WEIGHT	MAX. SPEED
51101677	109	120	100	80	60	45	M38 x 1.5P	28	6.5 kgs	8000 RPM
51101678	120	136	115	100	65	48	M42 x 1.5P	36	9.0 kgs	8000 RPM
51101679	126.5	155	130	100	80	65	M55 x 2P	46	11.9 kgs	7000 RPM
51101680	136	190	170	130	85	70	M60 x 2P	52	17.3 kgs	6200 RPM
51101681	154.5	215	190	160	125	95	M85 x 2P	75	26.1 kgs	4700 RPM
51101682	154.5	215	190	160	125	98.5	M87 x 2P	78	25.5 kgs	4700 RPM
51101683	168	240	215	180	140	110	M100 x 2P	91	33.3 kgs	3800 RPM
51101684	168	240	215	180	140	115	M103 x 2P	93	32.9 kgs	3800 RPM
51101685	191	310	275	230	166	140	M130 x 2P	117.5	63.0 kgs	2800 RPM
51101686	201	345	298	260	220	195	M180 x 3P	166.5	96.3 kgs	2000 RPM
51101687	223	405	360	320	260	235	M220 x 3P	205	138.5 kgs	1600 RPM
51101688	217	345	398	260	220	195	M180 x 3P	166.5	100.6 kgs	2000 RPM



SOLID ROTARY HYDR. CYLINDERS (BUILT-IN CHECK VALVE)



UNIT: mm

ITEM NO.	B1	C	D (h7)	E	F	G	H	WEIGHT	MAX. SPEED
51101689	105	20	135	80	30	21	M20 x 2.5P	6.6 kgs	6000 RPM
51101690	125	25	160	110	35	25	M24 x 3P	8.8 kgs	6000 RPM
51101691	150	30	190	110	45	31	M30 x 3.5P	12.8 kgs	5500 RPM
51101692	200	35	245	120	55	37	M36 x 4P	22.5 kgs	5500 RPM

A “TOOLS FOR TURNING MACHINES

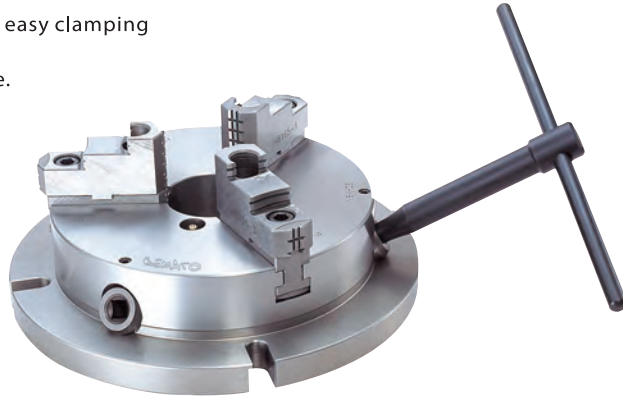


CHUCK TYPE VISE WITH SCROLL CHUCKS

CHUCK TYPE VISE WITH 3 JAWS SCROLL CHUCK

FEATURES:

- Pinion is 30° to chuck base for easy clamping and free from interference.
- Low profile for more clearance.
- Flanged base for easy set-up.
- 2-pc reversible top jaw.
- Soft jaws are available.



▲ ITEM NO. 51100545~51100548

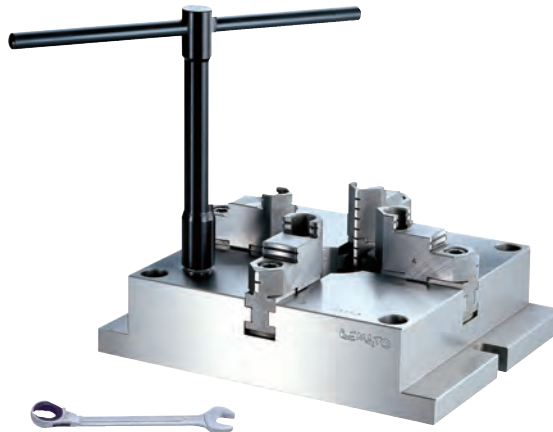
UNIT: mm

ITEM NO.	DIMENSION BASE DIA	CHUCK DIA	THRU HOLE	HEIGHT	GROSS WEIGHT	CLAMPING RANGE	
						SOLID JAW	REVERSIBLE
51100545	220	170	45	98	12.25 kgs	ø8 - ø160	ø48 - ø150
51100546	270	210	60	108	20 kgs	ø11 - ø200	ø62 - ø190
51100547	315	255	80	125	30.7 kgs	ø12 - ø250	ø72 - ø240
51100548	370	305	105	139	46.95 kgs	ø15 - ø300	ø86 - ø290

CHUCK TYPE VISE WITH 4 JAWS SCROLL CHUCK

FEATURES:

- Units can be line up for mass production purposes.
- Each jaw surface and chuck surface to chuck base is within 0.03 mm in height.
- Clamping repeatability: 0.02 mm
- 2 pcs reversible top jaw.
- Soft jaws available.
- Ideal for clamping irregular shape workpiece.



▲ ITEM NO. 51100549~51100552

UNIT: mm

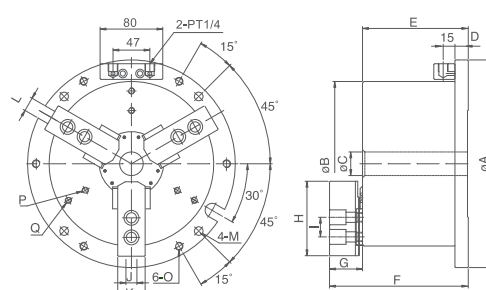
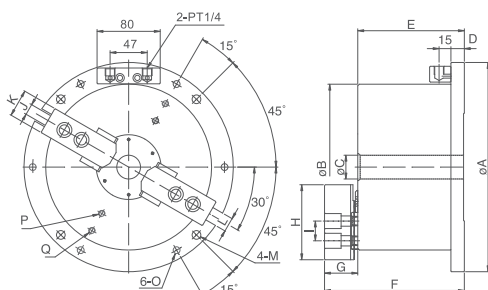
ITEM NO.	DIMENSION BASE	THRU HOLE	HEIGHT	GROSS WEIGHT	CLAMPING RANGE	
					SOLID JAW	REVERSIBLE
51100549	215 x 165	40	96	13.7 kgs	ø4 - ø128	ø55 - ø128
51100550	250 x 200	55	108	21.5 kgs	ø5 - ø162	ø62 - ø162
51100551	310 x 250	70	122	35.6 kgs	ø6 - ø200	ø72 - ø200
51100552	380 x 310	100	141	61.7 kgs	ø10 - ø265	ø90 - ø265



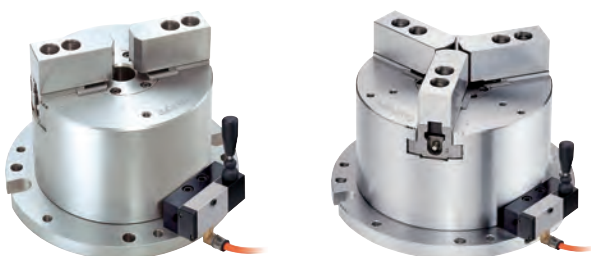
2-JAW / 3-JAW HOLLOW POWER CHUCK FIXTURES

FEATURES:

- Chuck body is CR-MO steel.
- Slide ways are hardened.
- Built-in hydraulic cylinder inside of the chuck body.
- Low profile.
- Flanged design base for easy clamping on table.
- Standard with soft jaws, hard jaws are optional.
- The whole unit is sealed properly to prevent the penetration from chips and liquids.



OPTIONAL ACCESSORIES- MANUAL PNEUMATIC SWITCH



APPLICATION:

- Fixed on a sub-table and used on pallet changer.
- Ideal for production work on VMCs.
- Ideal for setting up automatic processing on special purpose machines.

▲ ITEM NO. 51100587

▲ ITEM NO. 51100588

UNIT: mm

ITEM NO.		A	B	C	D	E	F	G	H	I	J	K	L	M	O
2 Jaws	3 Jaws														
51100556	51100560	185	135	-	15	95	128	33	62	14	10	25	13	ø9	M8
51100557	51100561	224	169	25	16	118	158	40	73	20	12	31	18	ø11	M10
51100558	51100562	265	210	30	20	138	180	42	95	25	14	35	18	ø11	M10
51100559	51100563	315	254	52	23	150	196	46	110	30	16	40	18	ø13	M12

ITEM NO.		PISTON AREA	PLUNGER STROKE	JAW STROKE DIA	MAX. GRIPPING FORCE		MAX. PRESSURE SETTING	
2 Jaws	3 Jaws				2 Jaws	3 Jaws	2 Jaws	3 Jaws
51100556	51100560	74 cm ²	10	5.4	2620 kgf	3285 kgf	16 kgf/cm ²	20 kgf/cm ²
51100557	51100561	97 cm ²	12	5.5	4030 kgf	5040 kgf	16 kgf/cm ²	20 kgf/cm ²
51100558	51100562	156 cm ²	16	7.4	6480 kgf	8100 kgf	16 kgf/cm ²	20 kgf/cm ²
51100559	51100563	235 cm ²	19	8.8	9760 kgf	12210 kgf	16 kgf/cm ²	20 kgf/cm ²

GRIPPING FORCE (Air Pressure 7 kgf/cm ²)	CLAMPING RANGE
1300 kgf	ø12 - ø135
2000 kgf	ø15 - ø169
3300 kgf	ø20 - ø210
4800 kgf	ø33 - ø254



A “TOOLS FOR TURNING MACHINES



HARD/ SOFT JAWS FOR HYDRAULIC CHUCK

ITEM NO. 51100570~51100575

HARD JAWS FOR HYDRAULIC CHUCK

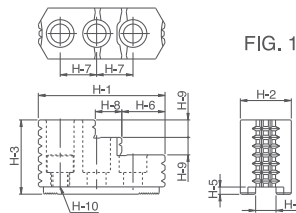
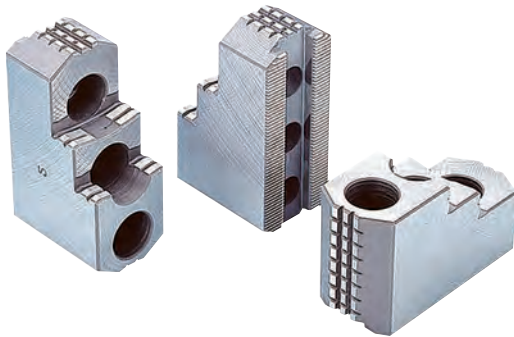


FIG. 1

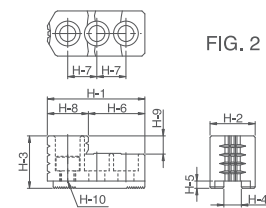


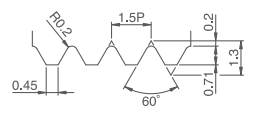
FIG. 2

UNIT: mm

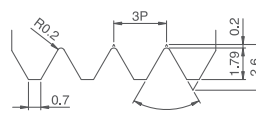
ITEM NO.	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	SERRATION PITCH	NET WEIGHT	REFERENCE DRAWING
51100570	53	23	28	10	4	29	14	24	10	M8	1.5 x 60°	0.4 kg	FIG.2
51100571	67	31	36	12	5	39	20	28	12	M10	1.5 x 60°	0.95 kg	FIG.2
51100572	87	35	51	14	5	29.5	25	18	12	M12	1.5 x 60°	1.9 kgs	FIG.1
51100573	101	40	54	16	5	45.5	30	18	13	M12	1.5 x 60°	2.8 kgs	FIG.1
51100574	108	50	67	18(21)	(5)4	49	30	20	16	M16	1.5 x 60°	3.5 kgs	FIG.1
51100575	143	62	86	25.5(22)	(5)8	55	43	38	20	M20	1.5 x 60°	9.5 kgs	FIG.1

ITEM NO. 51100576~51100581

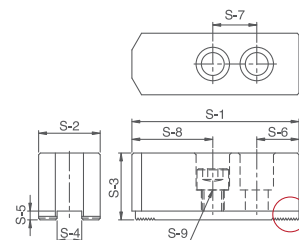
SOFT JAWS FOR HYDRAULIC CHUCK



Pitch 1.5



Pitch 3.0



UNIT: mm

ITEM NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	SERRATION PITCH	NET WEIGHT
51100576	62	25	30	10	4.5	10	14	38	M8	1.5 x 60°	0.85 kg
51100577	73	31	36	12	5	15	20	38	M10	1.5 x 60°	1.5 kgs
51100578	95	35	38	14	5	24	25	46	M12	1.5 x 60°	2.4 kgs
51100579	110	40	42	16	5	30	30	50	M12	1.5 x 60°	3.6 kgs
51100580	129	50	50	18(21)	6	39	30	60	M16	1.5 x 60°	6.1 kgs
51100581	165	62	62	25.5(22)	(5)8	37	43	85	M20	1.5 x 60°	2.5 kgs



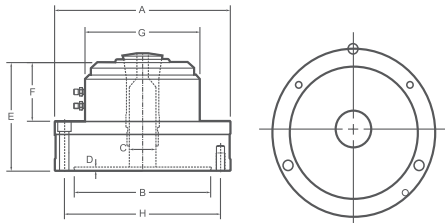
PRECISION STATIONARY COLLET CHUCKS



FEATURES:

- Precision stationary chuck: 0.015-0.030 mm repeatability.
- Resistant to cutting fluid and dust.
- Air actuated model available.
- Dead-length collet chuck: no work-part axial moving.
- 5C / 16C / B42 / B60 / B80 models available.

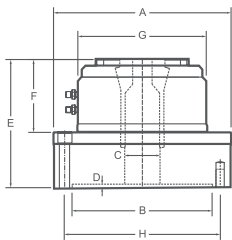
ITEM NO. 51101080~51101082



UNIT: mm

ITEM NO.	51101080	51101081
A	147 (5.79")	168 (6.61")
B	-	130 (5.12")
C	26 (1.02")	26 (1.02")
D	-	5 (0.20")
E	106 (4.17")	100 (3.94")
F	57 (2.24")	55 (2.17")
G	70 (2.76")	110 (4.33")
H	130 (5.12")	147 (5.79")
Mounting bolts	ø9.0 X 4 for M8	ø9.0 X 4 for M8
Working collet	5C Collet	5C Collet
Operating pressure	3-8 kgs/cm ² (43-114 psi)	3-8 kgs/cm ² (43-114 psi)
Chuck through hole	26 (1.02")	26 (1.02")
Clamping force	3770 kgf@7kg/cm ² (8294 lbf@100 psi)	4825 kgf@7kg/cm ² (10615 lbf@100 psi)
Net weight	7 kgs (15 lbs)	10 kgs (22 lbs)

ITEM NO. 51101083~51101085



UNIT: mm

ITEM NO.	51101083	51101084	51101085	51101086
A	197 (7.76")	196 (7.72")	207 (8.15")	246 (9.67")
B	160 (6.30")	155 (6.10")	170 (6.69")	200 (7.87")
C	40 (1.57")	42 (1.65")	60 (2.36")	80 (3.15")
D	5 (0.20")	5 (0.20")	5 (0.20")	5 (0.20")
E	112 (4.41")	138 (5.43")	148 (5.83")	152 (5.98")
F	64 (2.52")	77 (3.03")	86 (3.39")	80 (3.15")
G	130 (5.12")	144 (5.67")	168 (6.61")	196 (7.72")
H	176 (6.93")	172 (6.77")	186 (7.32")	226 (8.90")
Mounting bolts	ø11.0x3+M10xP1.5x3	ø11.0x3+M10xP1.5x3	ø11.0x3+M10xP1.5x3	ø11.0 X6 for M10
Working collet	16C Collet	B42 Collet (173E)	B60 Collet (185E)	B80 Collet (193E)
Operating pressure	3-8 kgs/cm ² (43-114 psi)	3-8 kgs/cm ² (43-114 psi)	3-8 kgs/cm ² (43-114 psi)	3-8 kgs/cm ² (43-114 psi)
Chuck through hole	40 (1.57")	42 (1.65")	60 (2.36")	80 (3.15")
Clamping force	5600 kgf@7 kg/cm ² (12320 lbf@100 psi)	5960 kgf@7 kg/cm ² (13112 lbf@100 psi)	7250 kgf@7 kg/cm ² (15950 lbf@100 psi)	9060 kgf@7 kg/cm ² (19932 lbf@100 psi)
Net weight	14 kgs (31 lbs)	17 kgs (37 lbs)	21 kgs (46 lbs)	32 kgs (71 lbs)



A “TOOLS FOR TURNING MACHINES



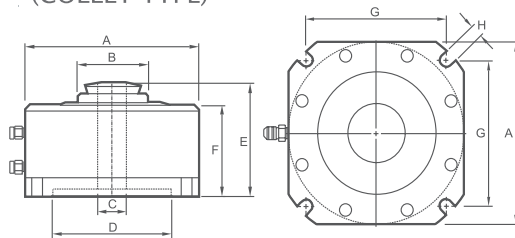
STATIONARY CHUCKS

FEATURES:

- Cost effective stationary chuck: 0.030-0.050 mm repeatability.
- High accuracy. High rigidity. Long product life.
- High resistant to cutting chips, fluid or dust.
- Chuck force-opening design ensures no workpart jamming.



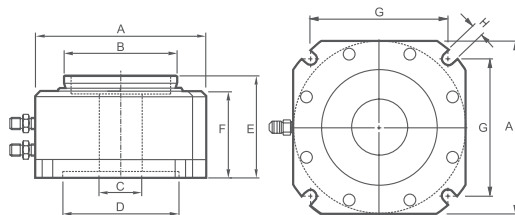
ITEM NO. 51101093~51101095 (COLLET TYPE)



UNIT: mm

ITEM NO.	51101093	51101094
A	118 (4.65")	144 (5.67")
B	40 (1.57")	55 (2.17")
C	14 (0.55")	26 (1.02")
D	90 (3.54")	100 (3.94")
E	76 (2.99")	108 (4.25")
F	64 (2.52")	75 (2.95")
G	98 (3.86")	118 (4.65")
H	8.5 (0.33")	8.5 (0.33")
Working collet/ jaws	YB-15 collet	YB-25 collet
Air/ hyd. Actuated	Air / Hyd.	Air / Hyd.
Operating pressure	3-15 kgs/ cm ² (43-214 psi)	3-15 kgs/ cm ² (43-214 psi)
Max. Capacity through/	14 / 16 mm	26 / 28 mm
Non through	(0.55" / 0.63")	(1.02" / 1.10")
Piston area	79 cm ² (12.2"²)	112 cm ² (17.4"²)
Clamping force	3750 kgf@7 kg/ cm ² (8250 lbf@100 psi)	4950 kgf@7 kg/ cm ² (10890 lbf@100 psi)
Net weight	5.0 kgs (11 lbs)	9.0 kgs (19.8 lbs)

ITEM NO. 51101096~51101098 (JAW TYPE)



UNIT: mm

ITEM NO.	51101095	51101096	51101097	51101098
A	144 (5.67")	168 (6.61")	144 (5.67")	188 (7.40")
B	55 (2.17")	95 (3.74")	95 (3.74")	136 (5.35")
C	26 (1.02")	38 (1.50")	38 (1.50")	68 (2.68")
D	100 (3.94")	100 (3.94")	100 (3.94")	155 (6.10")
E	95 (3.74")	96 (3.78")	94 (3.70")	96 (3.78")
F	75 (2.95")	76 (2.99")	73 (2.87")	73 (2.87")
G	118 (4.65")	136 (5.35")	118 (4.65")	155 (6.10")
H	8.5 (0.33")	11 (0.43")	8.5 (0.33")	11 (0.43")
Working collet / jaws	5C collet	C-40 JAWS	C-40 JAWS	C-70 JAWS
Actuated by	Air / Hyd.	Air	Hydraulic	Hydraulic
Operating pressure	3-15 kgs/ cm ² (43-214 psi)	3-8 kgs/ cm ² (43-114 psi)	3-20 kgs/ cm ² (43-286 psi)	3-20 kgs/ cm ² (43-286 psi)
Max. capacity through /	26 / 28mm	38 / 50 mm	38 / 50 mm	68 / 90 mm
Non through	(1.02" / 1.10")	(1.50" / 1.97")	(1.50" / 1.97")	(2.68" / 3.54")
Piston area	112 cm ² (17.4"²)	216 cm ² (33.5"²)	82 cm ² (12.7"²)	106 cm ² (16.4"²)
Clamping force	4950 kgf@7 kg/ cm ² (10890 lbf@100 psi)	5550 kgf@7 kg/ cm ² (12210 lbf@100 psi)	6100 kgf@20 kg/ cm ² (13420 lbf@286 psi)	7800 kgf@20 kg/ cm ² (17160 lbf@286 psi)
Net weight	9.0 kgs (19.8 lbs)	12.5 kgs (27.5 lbs)	8.5 kgs (18.7 lbs)	13.5 kgs (29.7 lbs)

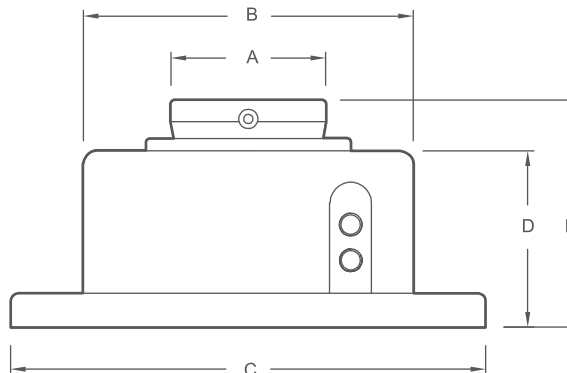


STATIONARY CHUCKS



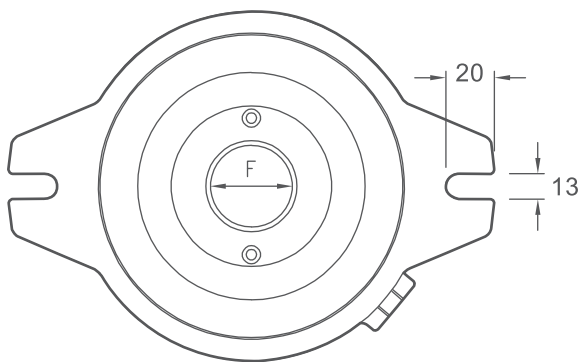
FEATURES:

- Cast iron chuck body.
- High accuracy. High rigidity. Long product life.
- High resistant to cutting chips, fluid or dust.
- Chuck force-opening design ensures no workpart jamming.
- Double pistons design (51101100 and 51101101) to enhance chucking force.



UNIT: mm

ITEM NO.	51101099
A	40 (1.57")
B	160 (6.30")
C	220 (8.66")
D	73 (2.87")
E	108(4.25")
F	26 (1.02")
Working collet / jaws	YB-25 Collet
Actuated by	Air / Hydraulic
Operating pressure	3-15 kgs/ cm ² (43-214 psi)
Chuck capacity through / Non through	26 / 28 mm (1.02" / 1.10")
Clamping force (torque)	6 kgf-m(43 lbf-ft)
Net weight	9.0 kgs (19.8 lbs)



UNIT: mm

ITEM NO.	51101100	51101101	51101102
A	94 (3.70")	136 (5.35")	-
B	190 (7.48")	212 (8.35")	180 (7.09")
C	265 (10.43")	285 (11.22")	240 (9.45")
D	99 (3.90")	105 (4.13")	74 (2.91")
E	122(4.80")	135(5.31")	102(4.02")
F	48 (1.89")	68 (2.68")	-
Working collet / jaws	C-40 Jaws	C-70 Jaws	C-44I
Actuated by	Air	Air	Hydraulic
Operating pressure	3-8 kgs/cm ² (43-114 psi)	3-8 kgs/cm ² (43-114 psi)	10-20 kgs/cm ² (143-286 psi)
Chuck capacity through / Non through	45 / 50 mm (1.77" / 1.97")	68 / 90 mm (2.68" / 3.54")	16/ 50 mm(0.63"/ 1.97") (Chuck capacity Min./ Max.)
Clamping force (torque)	6 kgf-m(43 lbf-ft)	7 kgf-m(50 lbf-ft)	N/A
Net weight	14.0 kgs (30.8 lbs)	23.0 kgs (50.6 lbs)	14.0 kgs (30.8 lbs)



A “TOOLS FOR TURNING MACHINES



CYLINDER-INTEGRATED AIR COLLET CHUCKS

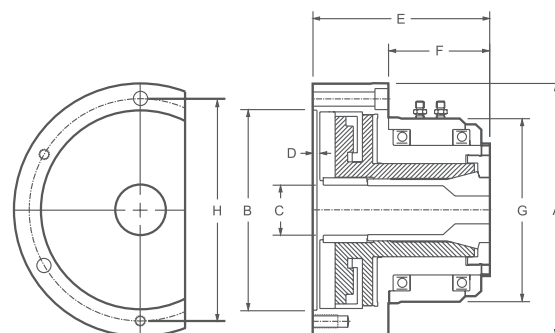
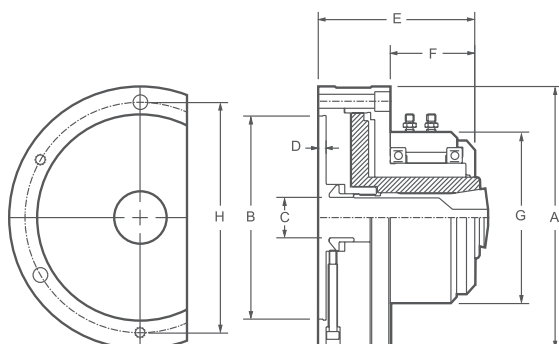
FEATURES:

- Precision collet chuck with built-in air cylinder.
- Work-part chucking repeatability up to 0.025 mm.
- Works with standard 5C, 16C, B42, B60 or B80 collets.
- High speed up to 5000 RPM (51101086).
- Large through hole up to ø80 mm (51101090).
- No need to install an extra cylinder, a draw tube or an air feeder.
- Self-lock design on close side offers high safety.
- High resistance to coolant fluid and chips penetration.
- I.D. chucking possible by installing a mandrel and pushing rut. (51101088 / 51101089)



ITEM NO. 53101086, 51101087

ITEM NO. 53101088, 51101090



UNIT: mm

ITEM NO.	51101086	51101087	51101088	51101089	51101090
A	168 (6.61")	197 (7.76")	196 (7.72")	207 (8.15")	246 (9.67")
B	130 (5.12")	160 (6.30")	155 (6.10")	170 (6.69")	200 (7.87")
C	26 (1.02")	40 (1.57")	42 (1.65")	60 (2.36")	80 (3.15")
D	5 (0.20")	5 (0.20")	5 (0.20")	5 (0.20")	5 (0.20")
E	100 (3.94")	112 (4.41")	138 (5.43")	148 (5.83")	152 (5.98")
F	55 (2.17")	64 (2.52")	77 (3.03")	86 (3.39")	80 (3.15")
G	110 (4.33")	130 (5.12")	144 (5.67")	168 (6.61")	196 (7.72")
H	147 (5.79")	176 (6.93")	172 (6.77")	186 (7.32")	226 (8.90")
Mounting screw hole	ø9.0 x 4	ø11.0x3+M10xP1.5x3	ø11.0x3+M10xP1.5x3	ø11.0x3+M10xP1.5x3	ø11.0 X6 for M10
Working collet	5C Collet	16C Collet	B42 Collet (173E)	B60 Collet (185E)	B80 Collet (193E)
Max. RPM	5000	4000	3600	3000	2300
Operating pressure	3-8 kgs/cm ²	3-8 kgs/cm ²	3-8 kgs/ cm ²	3-8 kgs/ cm ²	3-8 kgs/ cm ²
Operating pressure	(43-114 psi)	(43-114 psi)	(43-114 psi)	(43-114 psi)	(43-114 psi)
Chuck through hole	26 (1.02")	40 (1.57")	42 (1.65")	60 (2.36")	80 (3.15")
Clamping force	4825 kgf@7 kg/ cm ²	5600 kgf@7 kg/ cm ²	5960 kgf@7 kg/ cm ²	7250 kgf@7 kg/ cm ²	9060 kgf@7 kg/ cm ²
Net weight	(10615 lbf@100 psi)	(12320 lbf@100 psi)	(13112 lbf@100 psi)	(15950 lbf@100 psi)	(19932 lbf@100 psi)
	10kgs (22 lbs)	14kgs (31 lbs)	17kgs (37 lbs)	21kgs (46 lbs)	32kgs (71 lbs)

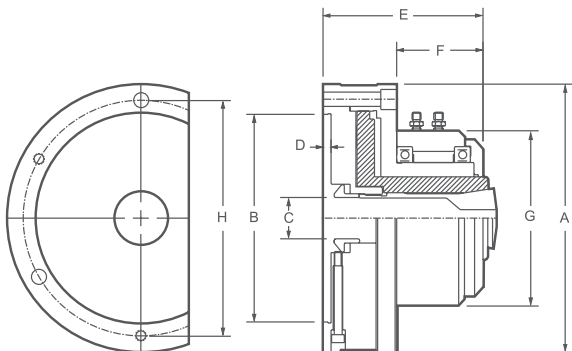


CYLINDER-INTEGRATED HYDRAULIC COLLET CHUCKS



FEATURES:

- Precision collet chuck with built-in hydraulic cylinder.
- High resistance to coolant fluid and chips penetration.
- No need to install an extra cylinder or a draw tube.
- Compact size, large clamping force.



APPLICATIONS:

- Rotary table or index table power work-hold system.
- Gear hobbing, skiving, and shaping.
- 4-axis or 5-axis work-holding on machine centers.
- NC-controlled index drilling or tapping.

UNIT: mm

ITEM NO.	51101091	51101092
A	168 (6.61")	168 (6.61")
B	130 (5.12")	130 (5.12")
C	26 (1.02")	26 (1.02")
D	5 (0.20")	5 (0.20")
E	100 (3.94")	100 (3.94")
F	55 (2.17")	55 (2.17")
G	110 (4.33")	110 (4.33")
H	147 (5.79")	147 (5.79")
Mounting screw hole	ø9.0 X 4	ø9.0 X 4
Working collet	5C Collet	YB-25 Collet
Max. RPM	150	150
Operating pressure	3-15 kgs/ cm ² (43-215 psi)	3-15 kgs/ cm ² (43-215 psi)
Chuck through hole	26 (1.02")	26 (1.02")
Clamping force	9700 kgf@15kg/ cm ² (21340 lbf@215 psi)	9700 kgf@15 kg/ cm ² (21340 lbf@215 psi)
Net weight	10 kgs (22 lbs)	10 kgs (22 lbs)



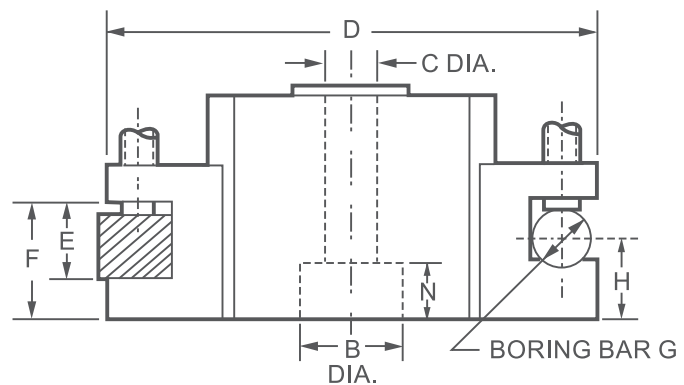
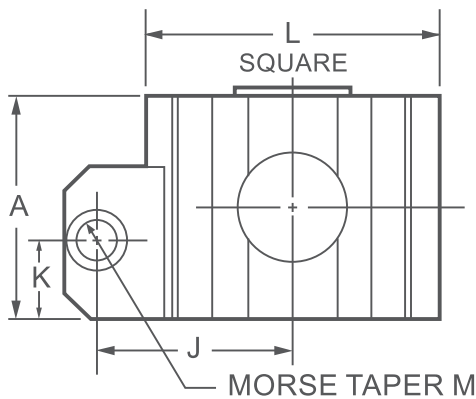
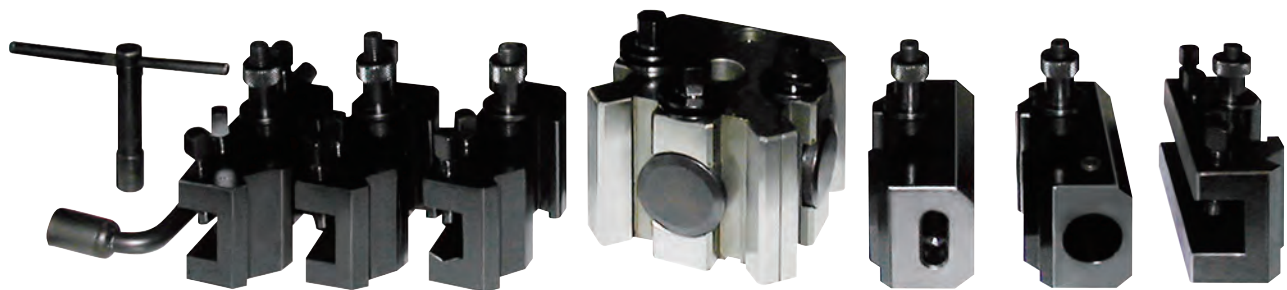
A “TOOLS FOR TURNING MACHINES



2 -WAY QUICK CHANGE TOOL POSTS – ITALIAN STYLE

FEATURES:

- Easily fitted.
- Substantial reduction in setting time- no packing or shimming is necessary.
- Gives precise repeatability.



UNIT:mm

ITEM NO.	LATHE CAPACITY	A	B	C	D	E	F	G	H	J	K	L	M	N
51101001	4-1/2"~5"	66	24	17	118	20	32	13	21	52	22	76	2	24
51101002	5"~8"	68	24	17	130	20	32	15	22	62	22	85	2	24
51101003	8"~11-1/2"	83	32	21	152	27	42	17	26	65	30	100	3	25
51101004	11-1/2"~15"	92	32	24	176	32	50	19	29	80	34	120	3	25
51101103	20"~30"	100	40	27	218	38	60	25	32	98	38	140	4	35
51101104	25"~40"	130	40	27	260	46	68	32	41	X	X	160	X	35

2- WAY QUICK CHANGE TOOL POSTS-ITALIAN STYLE OPTION ACCESSORIES



ITEM NO. 51101005~51101008

STANDARD TOOL HOLDERS:

UNIT:mm

ITEM NO.	FOR TOOL POST	LENGTH	TOOL SIZE
51101005	4-1/2"~5"	76	20
51101006	5"~8"	85	22
51101007	8"~11-1/2"	100	30
51101008	11-1/2"~15"	120	32

ITEM NO. 51101009~51101012

V-TOOL HOLDERS:

UNIT:mm

ITEM NO.	FOR TOOL POST	LENGTH	TOOL SIZE
51101009	4-1/2"~5"	76	13
51101010	5"~8"	85	15
51101011	8"~11-1/2"	100	17
51101012	11-1/2"~15"	120	19

ITEM NO. 51101013~51101016

MORSE TAPER TOOL HOLDERS:

UNIT:mm

ITEM NO.	FOR TOOL POST	LENGTH	HOLE TAPER
51101013	4-1/2"~5"	76	MT 2
51101014	5"~8"	85	MT 2
51101015	8"~11-1/2"	100	MT 3
51101016	11-1/2"~15"	120	MT 3

ITEM NO. 51101021~51101024

BORING BAR TOOL HOLDERS:

UNIT:mm

ITEM NO.	FOR TOOL POST	LENGTH	TOOL DIA
51101021	4-1/2"~5"	76	19
51101022	5"~8"	85	19
51101023	8"~11-1/2"	100	25
51101024	11-1/2"~15"	120	32

ITEM NO. 51101017~51101020

PARTING OFF TOOL HOLDERS:

UNIT:mm

ITEM NO.	FOR TOOL POST	LENGTH	TOOL SIZE
51101017	4-1/2"~5"	76	4-1/2"x1/8"x1/2"
51101018	5"~8"	85	4-1/2"x1/8"x1/2"
51101019	8"~11-1/2"	100	4-1/2"x1/8"x5/8"
51101020	11-1/2"~15"	120	6"x1/8"x3/4"

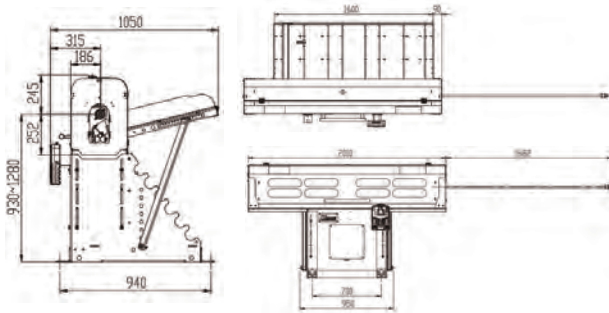


A “TOOLS FOR TURNING MACHINES



BAR FEEDERS

- The high quality linear actuator offers precise and quiet operation.
- Advanced servo drive technology provides accurate bar control.
It guarantees accurate bar control and prevents them from hitting the turret.
- Extremely short bar change cycle time, minimizes nonproductive time.
- Complete changeover from one diameter to another, quick and simple.
- Accommodate most material types and shapes such as round.
- Hand hold remote control combined with HMI provides maximum operation convenience.
- Easy click pushing system.



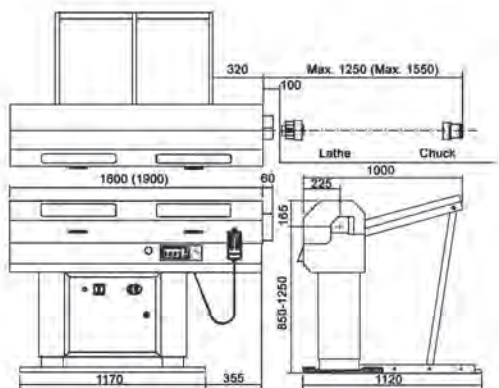
UNIT: mm



ITEM NO.	51101105
Bar diameter	ø6 - ø80
Bar length	350-1600 *depend on lathe spindle length
Spindle height	930-1280
Weight	360 kgs
Motor	servo
Power supply	220V 3P (Adjustable upon power supply from lathe)
Magazine capacity	ø5 x 130 pcs
X or Z axis retraction (optional)	600

FEATURES:

- Convenient parameters setting without need of any program modification.
- Length of waste material can be set as desired.
- Short length of waste stock for reducing material waste to the minimum.
- Retract stroke can be set up as desired.
- I/O interfacing with any type of CNC lathe.
- Self detection for abnormal motions and is displayed on LCD.
- Remote controller provides convenient running test and adjustment.
- Self detection for too short stock.



UNIT: mm

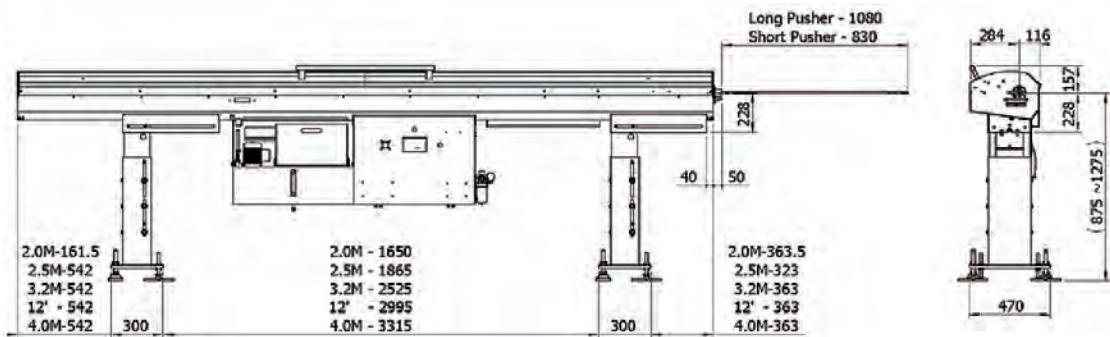
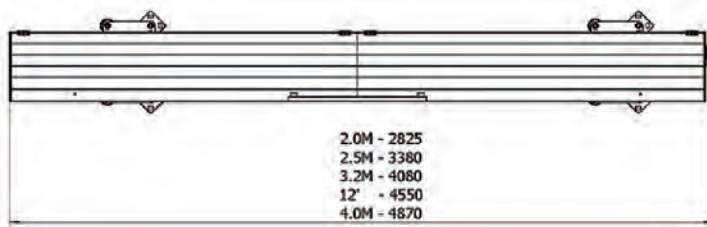


ITEM NO.	51101106	51101107
Bar diameter	ø5 - ø65	ø5 - ø65
Bar length	1200	1200
Bar capacity	ø65 x 10 pcs	ø65 x 10 pcs
Spindle height	850-1250	850-1250
Weight	350 kgs	370 kgs
Air supply	6 kg / cm ²	6 kg / cm ²
Drive	Pneumatic	Pneumatic
X or Z axis retraction	300 (Optional)	300 (Optional)



BAR FEEDERS

- Screw loading system with replaceable special pitches are cater for particular applications.
- Dual size channel combined two dimensions in one, giving good flexibility in production.
- Easy change pusher.
- Adjustment free clamping vice.
- Sectional guiding cover control ensures a smooth feeding.
- Mechanical synchronization system.
- Movable rear stand enables to move unit for maintenance. (Option)



UNIT: mm

ITEM NO.	51101108	51101108-1	51101109	51101109-1
Bar diameter	(ø0.7) ø1 - ø12 (ø0.7, may vary depending on applications)			
Magazine capacity	20 pcs / 14pcs			
Model	2.0M	2.5M	3.2M	12'
Overall length	2828	3383	4083	4550
Overall width	432 mm			
Max. bar length	2060	2560	3260	3736
Weight	300 kgs	355 kgs	377 kgs	410 kgs
Air pressure	5~7 kgs/cm ²			
Power source	220V 3P (Varying power supply is available depending on applications)			
Options	Integrated HMI remote controller Z-axis Retraction System			

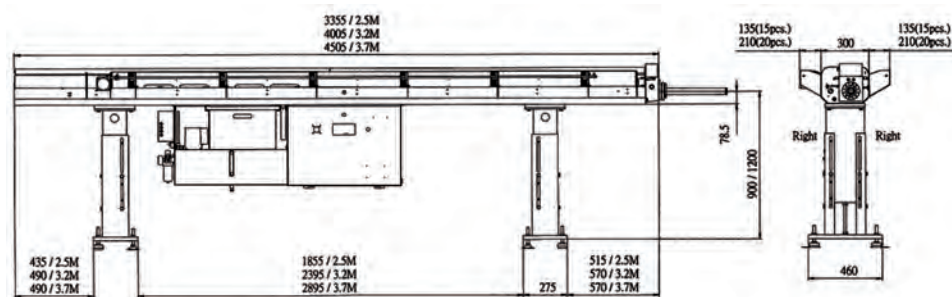


A “TOOLS FOR TURNING MACHINES

BAR FEEDERS

FEATURES:

- Durable PU guide channel greatly reduces noise and vibration
- Capable of feeding profile bar stocks
- Easy to operate - high performance
- Adjustable front rest device
- Fuzzy clamping device
- Adjustment free pneumatic clamping device
- Electronic Synchronisation for reliable operation with sliding head stock lathes
- PLC controlled operation. Parameter settings ensure optimal function for every application and bar stock type.
- Remote control for convenient operation.



UNIT: mm

GUIDE CHANNEL SIZE	BAR SIZE	PUSHER DIAMETER
13	4 to 12	12
11	4 to 10	10
8	2 to 7	7

UNIT: mm

ITEM NO.	51101110	51101111
Bar diameter	ø2 - ø12	
Type	2.5 / 3.2 / 3.7 meter	
Overall length	3355 / 4005 / 4505	
Width of machine	515 (15pcs) / 590 (20pcs)	
Max. bar length	2600 / 3200 / 3800	
Bar loading capacity	20pcs / 15pcs	
Weight	390-440 kgs	
Air supply	6 kg/m ²	
Power source	3 x 200V / 3 x 380V, 50/ 60HZ	
Drive	Servo drive	

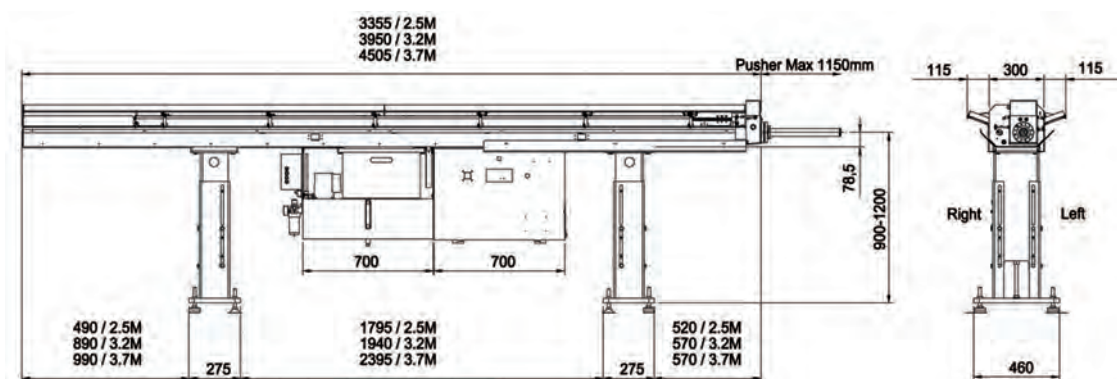


BAR FEEDERS



FEATURES:

- A space saving compact model.
- PU guiding channel minimizes noise and vibration.
- Capable of feeding profiled bar stock.
- Easy to operate - high performance.
- Hydraulic type ensures silent turning.
- PLC controlled operation. Parameter settings ensure optimal function for every application and bar stock type.
- I/O interfacing with any NC type or CNC lathe.



UNIT: mm

GUIDE CHANNEL SIZE	BAR SIZE	SPINDLE BORE
21	5 to 20	21
19	4 to 18	19
17	4 to 16	17
14	4 to 13	14
11	3 to 10	11

UNIT: mm

ITEM NO.	51101112	51101113
Bar diameter	ø3 - ø20	
Type	2.5 / 3.2 / 3.7 meter	
Overall length	3355 / 3950 / 4505	
Width of machine	415	
Max. bar length	2600 / 3200 / 3800	
Bar loading capacity	5 (54pcs) , 16 (17pcs)	
Weight	300 / 320 / 347 kgs	
Air pressure	6 kg/cm ²	
Power source	3 x 200V / 3 x 380V , 50 / 60HZ	
Drive	Servo drive	



A4 - BAR FEEDERS

TOOLS FOR TURNING MACHINES

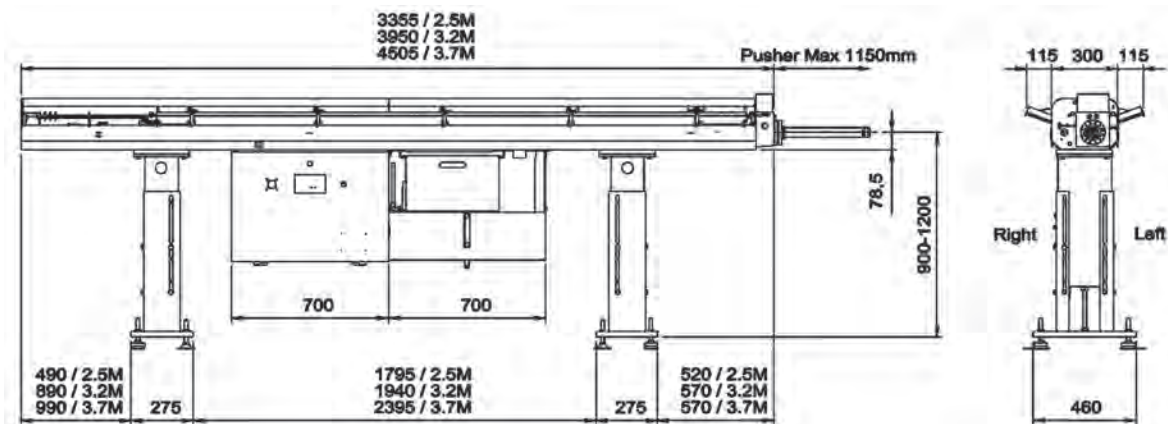
A “TOOLS FOR TURNING MACHINES

BAR FEEDER



FEATURES:

- A space saving compact model.
- PU guiding channel minimizes noise and vibration.
- Capable of feeding profiled bar stocks.
- Easy to operate - high performance
- Hydraulic bar guiding ensures silent turning.
- PLC controlled operation. Parameter settings ensure optimal function for every application and bar stock type. Alarm messages allow convenient trouble shooting.
- I/O interfacing with any NC or CNC type lathe.



UNIT: mm

GUIDE CHANNEL SIZE	BAR SIZE	SPINDLE BORE
27	5 to 26	27
25	5 to 24	25
23	5 to 22	23
21	5 to 20	21
19	4 to 18	19
17	4 to 16	17
14	4 to 13	14
11	3 to 10	11

UNIT: mm

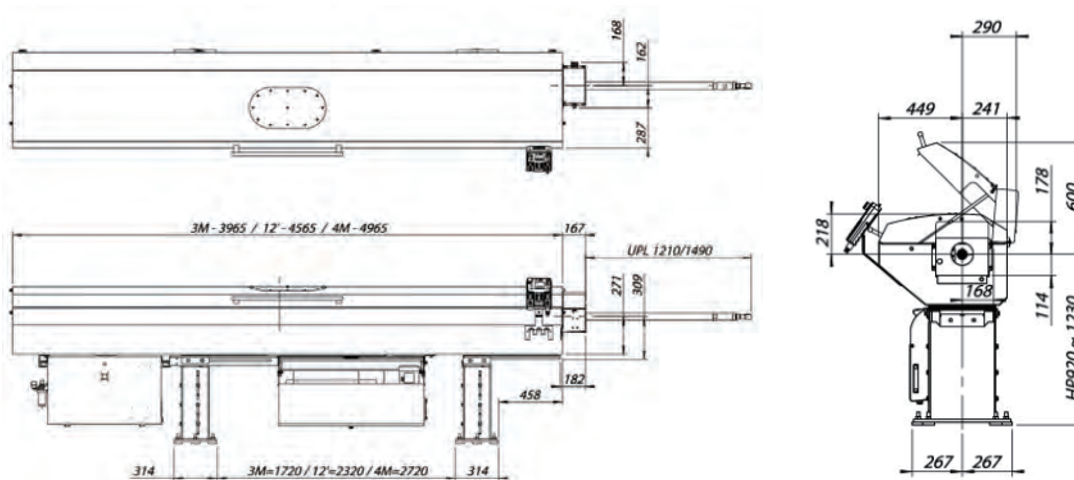
ITEM NO.	51101114
Bar diameter	ø3-ø26
Type	2.5 / 3.2 / 3.7 meter
Overall length	3355 / 3950 / 4505
Width of machine	415
Max. bar length	2600 / 3200 / 3800
Bar loading capacity	5 mm (54pcs) / 16 mm (17pcs)
Weight	300 / 320 / 347 kgs
Air pressure	6 kg/cm ²
Power source	3 x 200V / 3 x 380V, 50 / 60HZ
Drive	Servo drive



BAR FEEDER

FEATURES:

- Locking points along the guiding channels stabilize the machining, increasing productivity.
- Power booster overcomes tight pusher collets or out-of-tolerance bar stocks to assist insertion or extraction.
- Easy adjustment of bar diameter changeover.
- Perfectly fitted design of loading fingers help smoothly bar loading.



UNIT: mm

ITEM NO.	51101115	51101115-1	51101115-2
Bar diameter	ø5 - ø52	ø5 - ø52	ø5 - ø52
Magazine capacity	ø10 x 30 pcs	ø10 x 30 pcs	ø10 x 30 pcs
Model	3.0 M	12'	4.0 M
Overall length	4130	4730	5130
Overall width	893	893	893
Max. bar length	3200	3800	4200
Weight	900 kgs	950 kgs	1000 kgs
Air supply	5~7 kg / cm ²	5~7 kg / cm ²	5~7 kg / cm ²
Power supply	220V 3P (Adjustable upon power supply from lathe)		
Option	Synchronization device		



A4 - BAR FEEDERS

TOOLS FOR TURNING MACHINES

A “TOOLS FOR TURNING MACHINES

BAR FEEDERS

FEATURES:

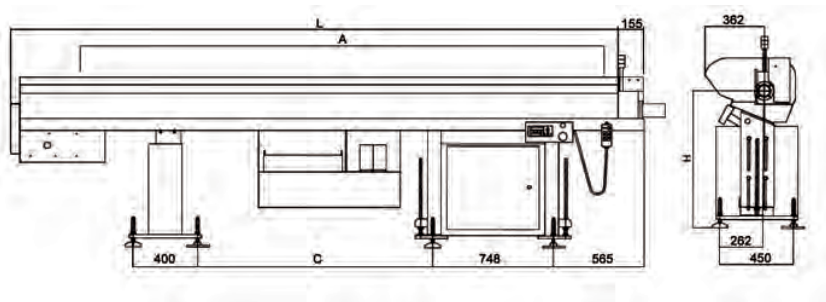
- Servo Drive and PLC control.
- Smart human/machine interface for convenient parameter setting.
- Alarm display for easy trouble shooting.
- Synchronization device and telescope tube for sliding head stock (option).
- I/O interfacing with any NC or CNC type lathe.
- Bushing type Front Rest.
- Work piece length check function.
- Electrical control system meets CE standards.
- Capable of feeding profiled bar stock.
- Remote control for convenient operation.



▲ S1 (SIEMENS PLC CONTROL)



▲ S2 (PLC CONTROL)



UNIT: mm

DIMENSION	BAR-32	BAR-37	BAR-44
L	3750	4290	4950
A	3200	3740	4400
C	1451	1991	2651
H	850-1300		

UNIT: mm

CHANNEL	BAR DIAMETER MIN	BAR DIAMETER MAX	WORKING MODE
17	5	16	Finger chuck with remnant extraction or "push type" without remnant extraction.
21	5	20	
23	5	22	
28	5	27	
33	5	32	
36	5	35	
38	10	37	
43	10	42	
46	10	45	

UNIT: mm

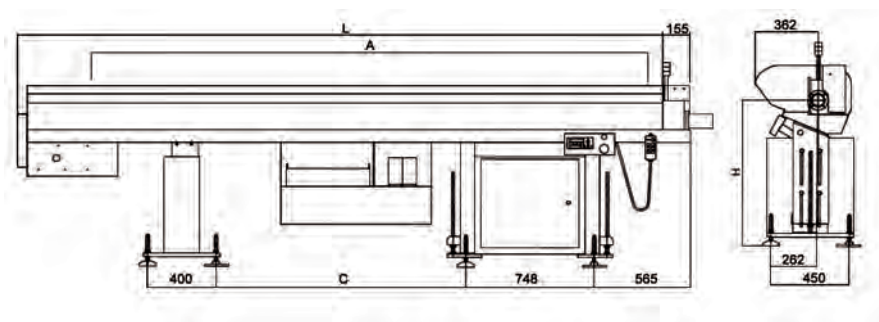
ITEM NO.	51101116(S1) 51101117(S2)	51101118(S1) 51101119(S2)	51101120(S1) 51101121(S2)	51101122(S1) 51101123(S2)
Bar diameter	ø5 - ø51	ø5 - ø51	ø5 - ø51	ø5 - ø51
Bar length	25 / 2500	32 / 3200	37 / 3700	44 / 4400
Magazine capacity	ø10 x 28pcs	ø10 x 28pcs	ø10 x 28pcs	ø10 x 28pcs
Spindle height	850~1300	850~1300	850~1300	850~1300
Weight	800 kgs	900 kgs	1000 kgs	1100 kgs
Power supply	220V/ 380V, 10A, 3p, 50/ 60HZ			
Air supply	6 kgs/cm ²	6 kgs/cm ²	6 kgs/cm ²	6 kgs/cm ²
L	-	3750	4290	4950
A	-	3200	3740	4400
C	-	1451	1991	2651
H	-	850-1300		



BAR FEEDERS

FEATURES:

- Servo Drive and PLC control.
- Smart human/machine interface for convenient parameter setting.
- Alarm display for easy trouble shooting.
- Synchronization device and telescope tube for sliding head stock (option).
- I/O interfacing with any NC or CNC type lathe.
- Bushing type Front Rest.
- Work piece length check function.
- Electrical control system meets CE standards.
- Capable of feeding profiled bar stock.
- Remote control for convenient operation.



UNIT: mm

CHANNEL	BAR DIAMETER MIN	MAX	WORKING MODE
17	5	16	Finger chuck with remnant extraction or "push type" without remnant extraction.
21	5	20	
23	5	22	
28	5	27	
33	5	32	
36	5	35	
38	10	37	
43	10	42	
46	10	45	



▲ S1 (SIEMENS PLC CONTROL)



▲ S2 (PLC CONTROL)

UNIT: mm

ITEM NO.	51101124(S1) 51101125(S2)	51101126(S1) 51101127(S2)	51101128(S1) 51101129(S2)	51101130(S1) 51101131(S2)
Bar diameter	ø5 - ø51	ø5 - ø51	ø5 - ø51	ø5 - ø51
Bar length	25 / 2500	32 / 3200	37 / 3700	44 / 4400
Magazine capacity	ø10 x 28pcs	ø10 x 28pcs	ø10 x 28pcs	ø10 x 28pcs
Spindle height	850~1300	850~1300	850~1300	850~1300
Weight	800 kgs	900 kgs	1000 kgs	1100 kgs
Power supply	220V/ 380V, 10A, 3p, 50/ 60HZ			
Air supply	6 kgs/cm ²	6 kgs/cm ²	6 kgs/cm ²	6 kgs/cm ²
L	-	3750	4290	4950
A	-	3200	3740	4400
C	-	1451	1991	2651
H	-		850-1300	



A “TOOLS FOR TURNING MACHINES

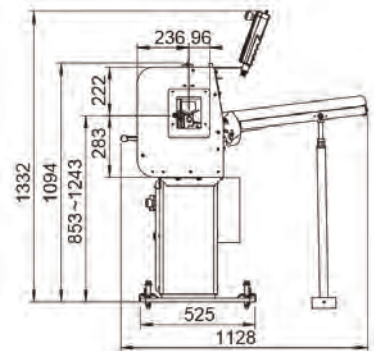
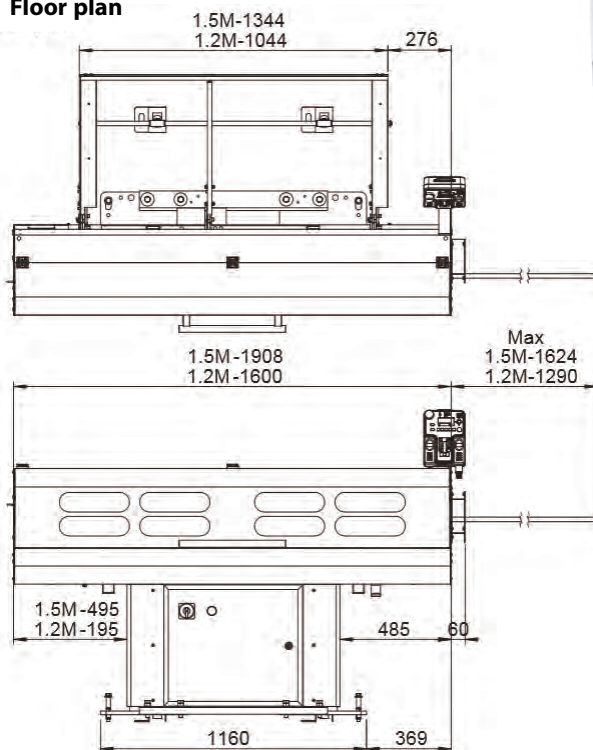


BAR FEEDERS

FEATURES:

- Advanced servo drive technology provides accurate bar control that is unrivalled on the market. It guarantees accurate bar control and prevents them from hitting the turret.
- Quick bar diameter change.
- Hand hold remote control combined with HMI provides maximum operation convenience.
- Accommodate most material types and shapes such as round, square, hexagon bar stocks.
- Easy click pushing system.
- Short remnant for reducing material waste to minimum.

Floor plan



UNIT: mm

ITEM NO.	51101693 (1.2M)	51101693-1 (1.5M)
Bar diameter	Ø5 - Ø65	
Bar length	Max. 1210	Max. 1510
Spindle height	*depend on lathe spindle length	
Weight	348 kgs	386 kgs
Motor	Servo	
Power supply	220V 3p (Adjustable upon power supply from lathe)	
Magazine capacity	Ø5 x 114 pcs	
X-axis retraction (optional) X	300	
Z-axis retraction (optional) Z	600	



VDI TOOL HOLDERS



A5 - VDI TOOL HOLDERS

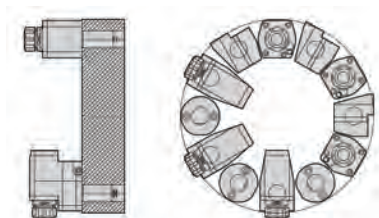


TOOLS FOR TURNING MACHINES

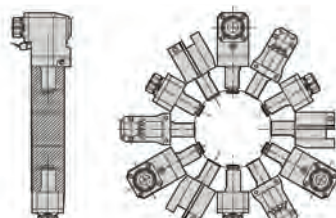
A “TOOLS FOR TURNING MACHINES

V DIRECTION SYSTEM

AXIAL



RADIAL, STAR TURRET



V COUPLING TYPE SYSTEM

V DIN 1809 (Duplomatic)



Coupling to DIN 1809

V DIN 5480 (Sauter)(Duplomatic)



Coupling to DIN 5480

V DIN 5482 (Sauter)(Duplomatic)



Coupling to DIN 5482

V MT (Baruffaldi)



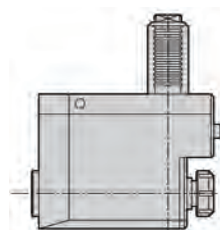
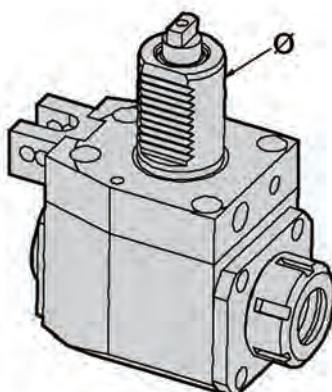
Spur coupling

V IT (Duplomatic)

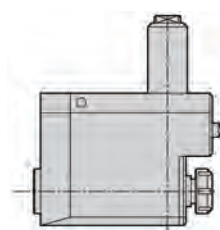


Spur coupling

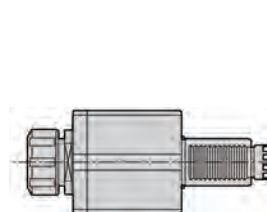
V STYLE



BR
B: Backward
R: Right Hand

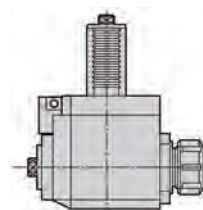


BL
B: Backward
L: Left Hand

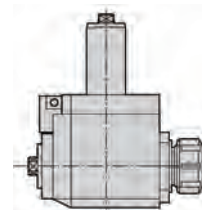


DA
Straight direct drive

TXX
T: Tapping



FR
F: Forward
R: Right Hand



FL
F: Forward
L: Left Hand

UNIT: mm

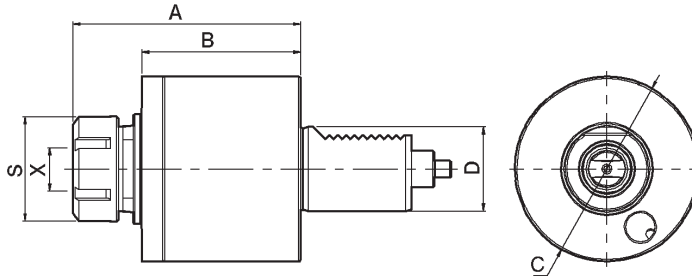
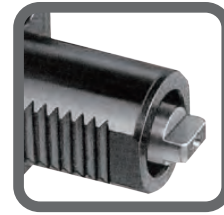
VDI 20	VDI 30	VDI 40	VDI 50
ø20	ø30	ø40	ø50



AXIAL DRILLING & MILLING HEADS

FEATURES:

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



▲ Power Transmission
According to DIN 1809

▲ DIRECTION: AXIAL / COUPLING TYPE: DIN 1809 / STYLE: DA

UNIT: mm									
ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C
51101132	DA20180916	20	1-10 ER16	30	6000	1:1	77	49	58
51101133	DA30180925	30	1-16 ER25	42	6000	1:1	101	70	68
51101134	DA40180932	40	2-20 ER32	50	6000	1:1	89	55	86
51101135	DA50180940	50	3-26 ER40	62	6000	1:1	120	81.5	96
51101136	DA60180950	60	10-34 ER50	78	6000	1:1	140	88.5	116

▼ AXIAL TAPPING HEADS

UNIT: mm									
ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C
51101137	TDA30180916	30	1-10 ER16	30	3000	1:1	103	70	68
51101138	TDA40180920	40	1-13 ER20	35	3000	1:1	112	74	86
51101139	TDA50180925	50	1-16 ER25	42	3000	1:1	121	81.5	96
51101140	TDA60180932	60	2-20 ER32	50	3000	1:1	147	88.5	116

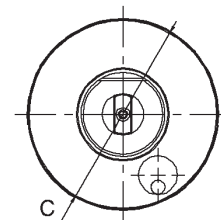
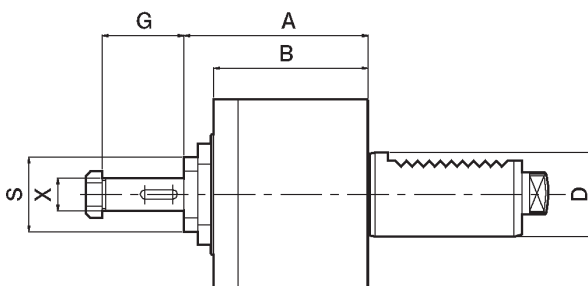


AXIAL MILLING & DRILLING HEADS

FEATURES:

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

▼ DIRECTION: AXIAL / COUPLING TYPE: DIN 1809 / STYLE: DA



UNIT: mm										
ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	G
51101145	DA30180916C	30	16	32	3000	1:1	91.5	70	68	27
51101146	DA40180922C	40	22	32	3000	1:1	68.5	55	86	31
51101147	DA50180922C	50	22	40	3000	1:1	117	81.5	96	31
51101148	DA50180927C	50	27	40	3000	1:1	117	81.5	96	33



A “TOOLS FOR TURNING MACHINES

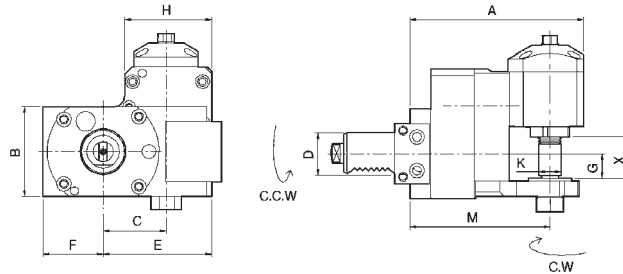


RADIAL DRILLING & MILLING HEADS-DISK CUTTER UNITS

FEATURES:

- External coolant supply.

✓ DIRECTION: RADIAL / COUPLING TYPE: DIN 1809 / STYLE: BR, BL



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	MAX. RPM	i	A
51101141(-1)	BR(BL)30180916C/3	30	29	3000	3:1	124
51101142(-1)	BR(BL)40180916C/3	40	30.5	3000	3:1	127

ITEM NO.	MODEL	B	C	E	F	G	H	K	M
51101141(-1)	BR(BL)30180916C/3	64	45	77.5	34	18	62	16	100
51101142(-1)	BR(BL)40180916C/3	70	45	77.5	34	18	62	16	103

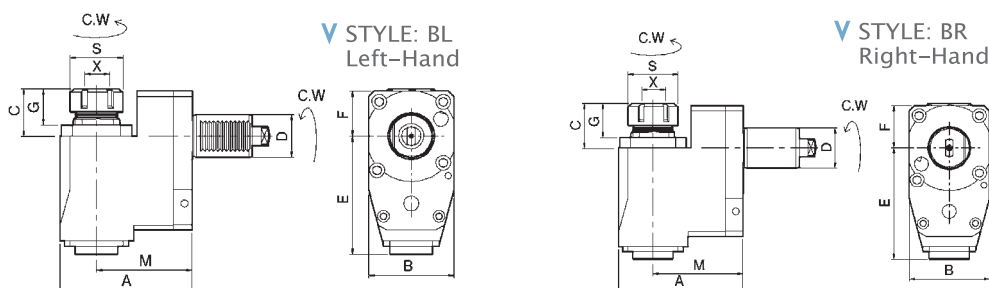


RADIAL DRILLING & MILLING HEADS-SET BACK

FEATURES:

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

✓ DIRECTION: RADIAL / COUPLING TYPE: DIN 1809 / STYLE: BR, BL



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	E	F	G	M
51101149(-1)	BR(BL)2018091660	20	1-10 ER16	30	5000	1:1	83	50	35	70	27	27	60
51101150(-1)	BR(BL)3018092569	30	1-16 ER25	42	5000	1:1	95	60	41.5	75.5	31.5	29	69
51101151(-1)	BR(BL)4018093290	40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90
51101152(-1)	BR(BL)5018094090	50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90
51101153(-1)	BR(BL)60180950102	60	10-34 ER50	78	3000	1:1	147	104	83	118	54	42	102

✓ RADIAL TAPPING HEADS-SET BACK

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	E	F	G	M
51101154(-1)	TBR(TBL)3018091669	30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	69
51101155(-1)	TBR(TBL)4018092090	40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90
51101156(-1)	TBR(TBL)5018092590	50	1-16 ER25	42	3000	1:1	129	86	54	112	45	36	90
51101157(-1)	TBR(TBL)60180932102	60	2-20 ER32	50	3000	1:1	147	104	87	118	54	40	102



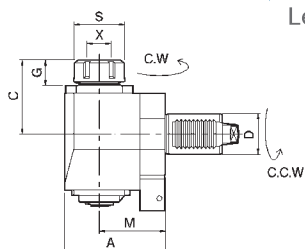
RADIAL DRILLING & MILLING HEADS

FEATURES:

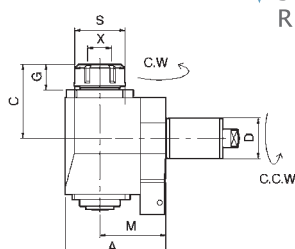
- To be used for collet DIN 6499.
- External coolant supply.
- Collet is not included.

✓ DIRECTION: RADIAL / COUPLING TYPE: DIN 1809 / STYLE: FR, FL

✓ STYLE: FL
Left-Hand



✓ STYLE: FR
Right-Hand



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	F	G	M
51101159(-1)	FR(FL)2018091645	20	1-10 ER16	30	5000	1:1	67	50	63	27	24.5	45
51101160(-1)	FR(FL)3018092555	30	1-16 ER25	42	5000	1:1	87	64	74.5	41	26	55
51101161(-1)	FR(FL)4018093265	40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65
51101162(-1)	FR(FL)5018094075	50	3-26 ER40	63	5000	1:1	115	88	103	56	40	75

✓ RADIAL TAPPING HEADS

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	F	G	M
51101163(-1)	TFR(TFL)3018091655	30	1-10 ER16	30	3000	1:1	87	64	75	41	30	55
51101164(-1)	TFR(TFL)4018092065	40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65
51101165(-1)	TFR(TFL)5018092575	50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75

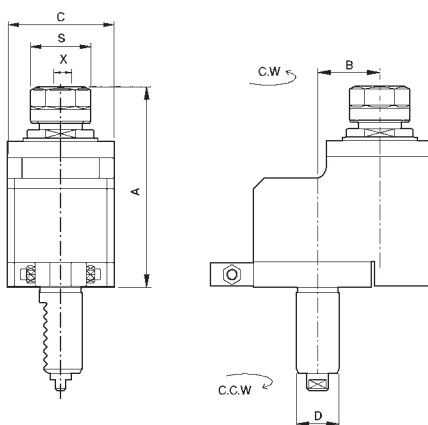


AXIAL DRILLING & MILLING HEADS-OFFSET

FEATURES:

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

✓ DIRECTION: AXIAL / COUPLING TYPE: DIN 1809 / STYLE: DA



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C
51101166	DA2018091629	20	1-10 ER16	30	4000	1:1	93.5	29	50
51101167	DA3018092529	30	1-16 ER25	42	4000	1:1	100	29	60
51101168	DA3018092529/1	*30	1-16 ER25	42	8000	1:2	100	29	60
51101169	DA4018093250	40	2-20 ER32	50	4000	1:1	113	50	80
51101170	DA5018094065	50	3-26 ER40	63	3000	1:1	124	65	86
51101171	DA6018095080	60	10-34 ER50	73	3000	1:1	173.5	80	104
51101172	DA60180950100	60	10-34 ER50	73	3000	1:1	173.5	100	104



A “TOOLS FOR TURNING MACHINES

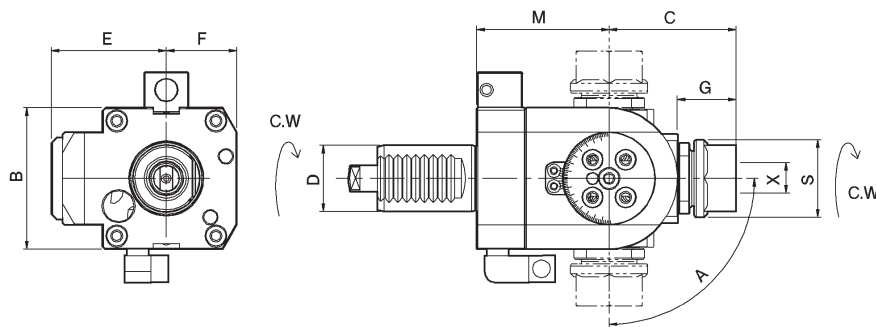


ANGULAR HEADS

FEATURES:

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

✓ COUPLING TYPE: DIN 1809 / STYLE: DA



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	A	B	C	E	F	G	M
51101173	DA30180920B	30	1-13 ER20	35	4000	±90°	64	59	54	32	27	67
51101174	DA40180925B	40	1-16 ER25	42	4000	±90°	76	65	65	38	29	70

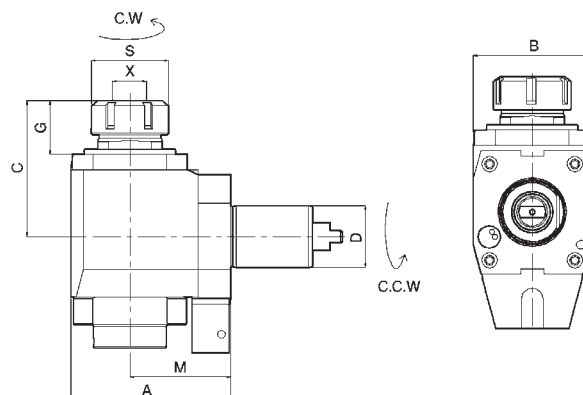


RADIAL MILLING & DRILLING HEAD

FEATURES:

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

✓ DIRECTION: RADIAL / COUPLING TYPE: DIN 1809 / STYLE: FR



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M
51101175	CWFR4018093265	40	2-20 ER32	50	4000	103	76	87.5	34.5	65

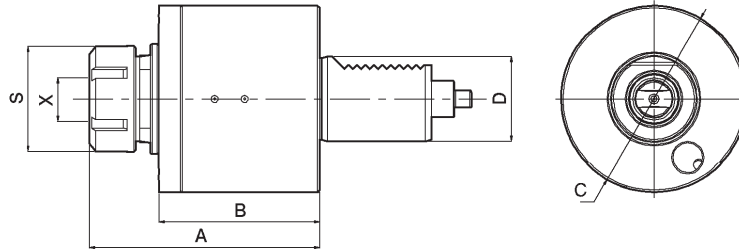


AXIAL MILLING & DRILLING HEAD

FEATURES:

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

V DIRECTION: AXIAL / COUPLING TYPE: DIN 1809 / STYLE: DA



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	A	B	C
51101176	CWDA401809ER32	40	2-20 ER32	50	6000	109	76	86

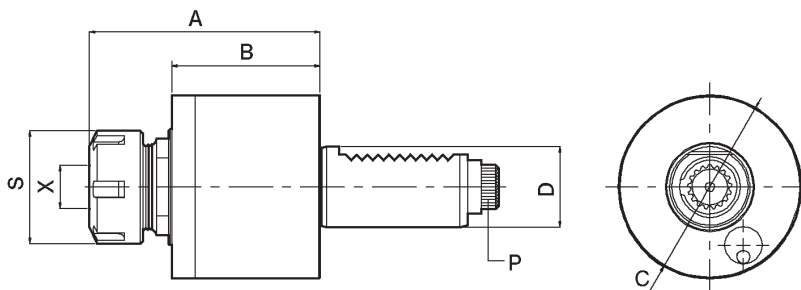
FEATURES:

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

V DIRECTION: AXIAL / COUPLING TYPE: DIN 5480 / STYLE: DA



Power Transmission
According to DIN 5480



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	P (DIN5480)
51101177	DAC30548025A	30	1-16 ER25	42	6000	1:1	70	55	68	W16 x 0.8
51101178	DAC30548025	30	1-16 ER25	42	6000	1:1	85	55	68	W16 x 0.8
51101179	DA30548025	30	1-16 ER25	42	6000	1:1	101	70	68	W16 x 0.8
51101180	DA40548032	40	2-20 ER32	50	6000	1:1	90	55	86	W20 x 0.8

V AXIAL TAPPING HEADS

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	P (DIN5480)
51101181	TDA30548016	30	1-10 ER16	30	3000	1:1	105	70	68	W16 x 0.8
51101182	TDA40548020	40	1-13 ER20	35	3000	1:1	93	55	86	W20 x 0.8



A “TOOLS FOR TURNING MACHINES

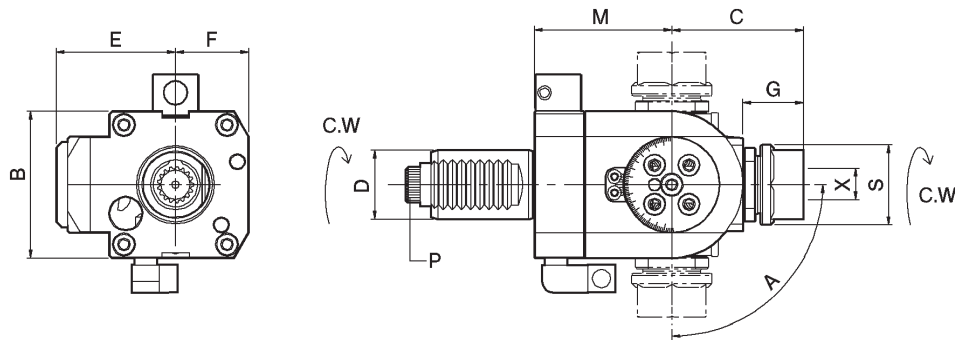


ANGULAR HEADS

FEATURES:

- To be used for collet DIN6499
- External coolant supply
- Collet is not included

✓ COUPLING TYPE: DIN 5480 / STYLE: DA



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	A	B	C	E	F	G	M
51101183	DA30548020B	30	1-13 ER20	35	4000	±90°	64	59	54	32	27	67
51101184	DA40548025B	40	1-16 ER25	42	4000	±90°	76	65	65	38	29	70

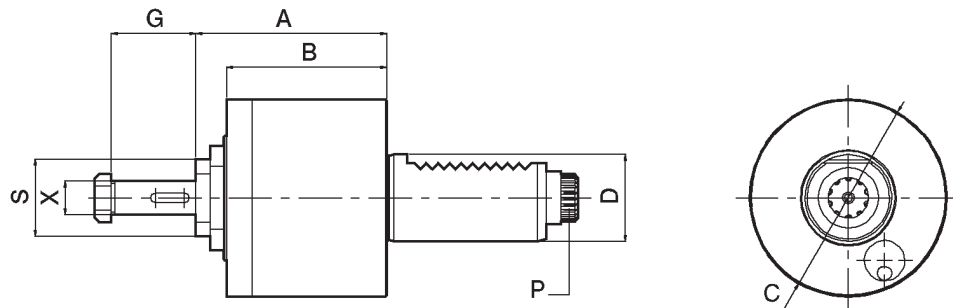


AXIAL DRILLING & MILLING HEADS

FEATURES:

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

✓ DIRECTION: AXIAL / COUPLING TYPE: DIN 5480 / STYLE: DA



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (DIN 6358)	S	MAX. RPM	A	B	C	G	P (DIN 5480)
51101185	DA30548016C	30	16	32	3000	91.5	70	68	27	W16 x 0.8
51101186	DA40548016C	40	16	32	3000	68.5	55	86	27	W20 x 0.8
51101187	DA40548022C	40	22	32	3000	68.5	55	86	31	W20 x 0.8



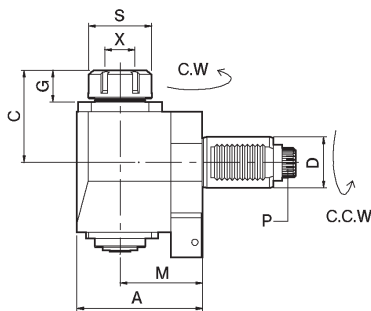
RADIAL DRILLING & MILLING HEADS

FEATURES:

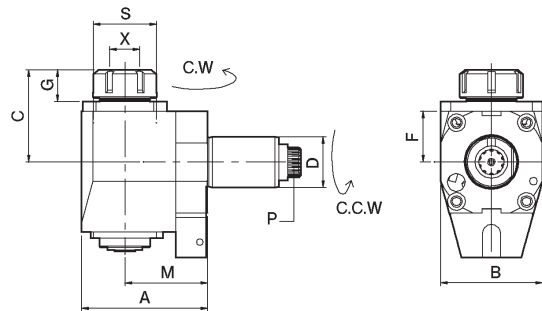
- To be used for collet DIN 6499
- External coolant supply.
- Collet is not included.

✓ DIRECTION: RADIAL / COUPLING TYPE: DIN 5480 / STYLE: FR, FL

✓ STYLE: FL
Left-Hand



✓ STYLE: FR
Right-Hand



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	F	G	M	P (DIN5480)
51101188	FR3054802555	30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	55	W16 x 0.8
51101189	FL3054802555	30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85	W16 x 0.8
51101190	FR3054802585	30	1-16 ER25	42	5000	1:1	127	64	74.5	41	26	100	W16 x 0.8
51101191	FL3054802585	30	1-16 ER25	42	5000	1:1	99	80	71	40	23	65	W20 x 0.8
51101192	FR30548025100	30	1-16 ER25	42	5000	1:1	119	80	71	40	23	85	W20 x 0.8
51101193	FL30548025100	30	1-16 ER25	42	5000	1:1	134	80	71	40	23	100	W20 x 0.8
51101194	FR4054803265	40	2-20 ER32	50	5000	1:1	97	64	75	41	30	55	W16 x 0.8
51101195	FL4054803265	40	2-20 ER32	50	5000	1:1	117	64	75	41	30	85	W16 x 0.8
51101196	FR4054803285	40	2-20 ER32	50	5000	1:1	127	64	75	41	30	100	W16 x 0.8
51101197	FL4054803285	40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	W20 x 0.8
51101198	FR40548032100	40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	W20 x 0.8
51101199	FL40548032100	40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	W20 x 0.8

✓ RADIAL TAPPING HEADS

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	F	G	M	P (DIN5480)
51101200	TFR3054801655	30	1-10 ER16	30	3000	1:1	97	64	75	41	30	55	W16 x 0.8
51101201	TFL3054801655	30	1-10 ER16	30	3000	1:1	117	64	75	41	30	85	W16 x 0.8
51101202	TFR3054801685	30	1-10 ER16	30	3000	1:1	127	64	75	41	30	100	W16 x 0.8
51101203	TFL3054801685	30	1-10 ER16	30	3000	1:1	99	80	70	40	25	65	W20 x 0.8
51101204	TFR30548016100	30	1-10 ER16	30	3000	1:1	119	80	70	40	25	85	W20 x 0.8
51101205	TFL30548016100	30	1-10 ER16	30	3000	1:1	134	80	70	40	25	100	W20 x 0.8
51101206	TFR4054802065	40	1-13 ER20	35	3000	1:1	97	64	75	41	30	55	W16 x 0.8
51101207	TFL4054802065	40	1-13 ER20	35	3000	1:1	117	64	75	41	30	85	W16 x 0.8
51101208	TFR4054802085	40	1-13 ER20	35	3000	1:1	127	64	75	41	30	100	W16 x 0.8
51101209	TFL4054802085	40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	W20 x 0.8
51101210	TFR40548020100	40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	W20 x 0.8
51101211	TFL40548020100	40	1-13 ER20	35	3000	1:1	134	80	70	40	25	100	W20 x 0.8



A5 - VDI TOOL HOLDERS

TOOLS FOR TURNING MACHINES

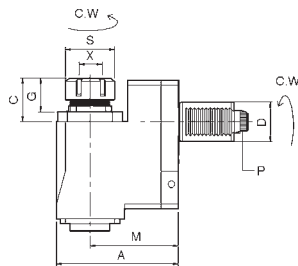
A “TOOLS FOR TURNING MACHINES

RADIAL DRILLING & MILLING HEADS-SET BACK

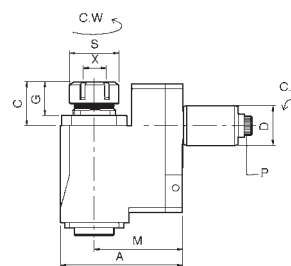
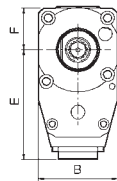
FEATURES:

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

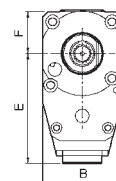
✓ DIRECTION: RADIAL / COUPLING TYPE: DIN 5480 / STYLE: BR, BL



✓ STYLE: BL
Left-Hand



✓ STYLE: BR
Right-Hand



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	E	F	G	M	P (DIN5480)
51101212	BR3054802569	30	1-16 ER25	42	5000	1:1	95	60	42	75.5	31.5	28.5	69	W16 x 0.8
51101213	BL3054802569	30	1-16 ER25	42	5000	1:1	95	60	42	75.5	31.5	28.5	69	W16 x 0.8
51101214	BR4054803290	40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	W20 x 0.8
51101215	BL4054803290	40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	W20 x 0.8

✓ RADIAL TAPPING HEADS-SET BACK

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	E	F	G	M	P (DIN5480)
51101216	TBR3054801669	30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	69	W16 x 0.8
51101217	TBL3054801669	30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	69	W16 x 0.8
51101218	TBR4054802090	40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	W20 x 0.8
51101219	TBL4054802090	40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	W20 x 0.8

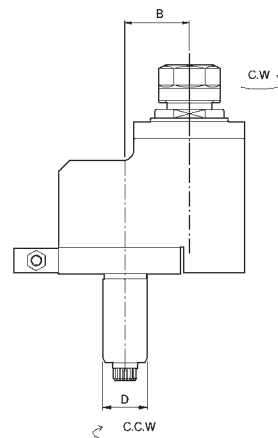
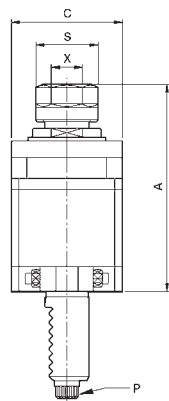


AXIAL DRILLING & MILLING HEADS-OFFSET

FEATURES:

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

✓ DIRECTION: AXIAL / COUPLING TYPE: DIN 5480 / STYLE: DA



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	P (DIN5480)
51101220	DA3054802529	30	1-16 ER25	42	4000	1:1	100	29	60	W16 x 0.8
51101221	DA3054802529/1	*30	1-16 ER25	42	8000	1:2	100	29	60	W16 x 0.8
51101222	DA4054803250	40	2-20 ER32	50	4000	1:1	113	50	80	W20 x 0.8

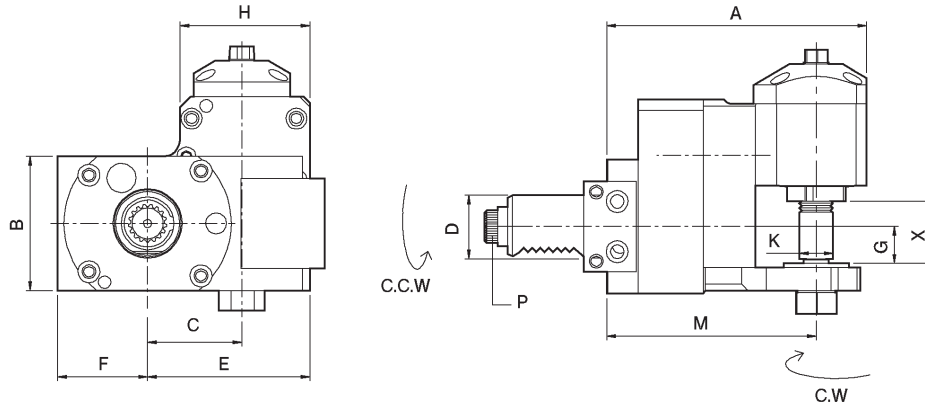


RADIAL DRILLING & MILLING HEADS-DISK CUTTER UNITS

FEATURES:

- External coolant supply.

✓ DIRECTION: RADIAL / COUPLING TYPE: DIN 5480 / STYLE: BR, BL



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	MAX. RPM	i	A	B	C	E	F	G	H	K	M	P (DIN5480)
51101223	BR30548016C/3	30	29	3000	3:1	124	64	45	77.5	34	18	62	16	100	W16 x 0.8
51101224	BL30548016C/3	30	29	3000	3:1	124	64	45	77.5	34	18	62	16	100	W16 x 0.8
51101225	BR40548016C/3	40	30.5	3000	3:1	127	70	45	77.5	34	18	62	16	103	W20 x 0.8
51101226	BL40548016C/3	40	30.5	3000	3:1	127	70	45	77.5	34	18	62	16	103	W20 x 0.8

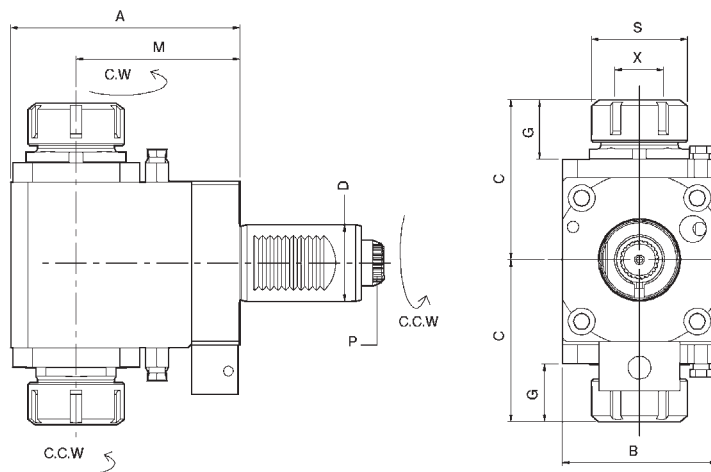


RADIAL DRILLING & MILLING HEADS-DOUBLE COLLETS

FEATURES:

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

✓ DIRECTION: RADIAL / COUPLING TYPE: DIN 5480



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	G	M	P (DIN5480)
51101228	DF3054802585D	30	1-16 ER25	42	4000	1:1	112	64	66	26.5	85	W16 x 0.8
51101229	DF30548025100D	30	1-16 ER25	42	4000	1:1	127	64	66	26.5	100	W16 x 0.8
51101230	DF4054803285D	40	2-20 ER32	50	4000	1:1	119	80	82	28	85	W20 x 0.8
51101231	DF40548032100D	40	2-20 ER32	50	4000	1:1	134	80	82	28	100	W20 x 0.8



A “TOOLS FOR TURNING MACHINES

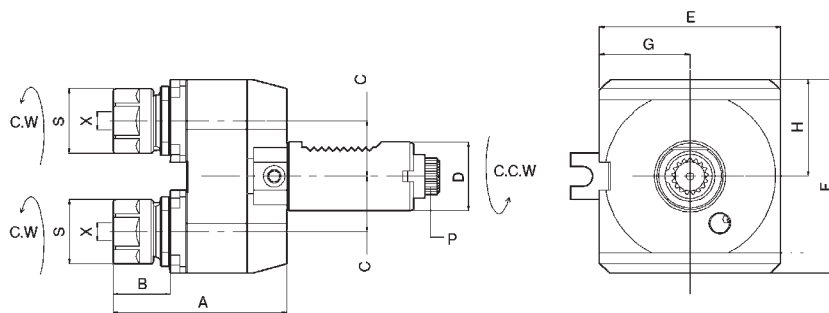


AXIAL DRILLING & MILLING HEAD-DOUBLE COLLETS, Y OFFSET

FEATURES:

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

✓ DIRECTION: AXIAL / COUPLING TYPE: DIN 5480 / STYLE: DA



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	A	B	C	E	F	G	H	P (DIN5480)
51101227	DA30548016DY	30	1-10 ER16	30	4000	83	58.5	24	80	95	40	47.5	W16 x 0.8

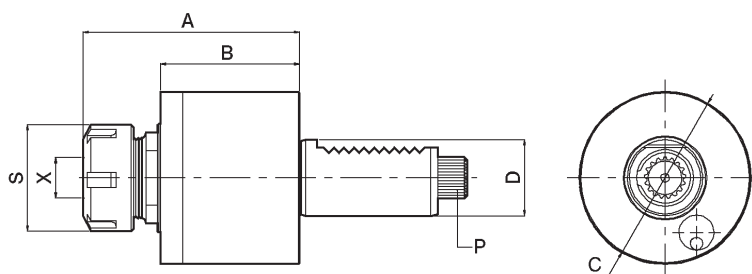


AXIAL DRILLING & MILLING HEADS

FEATURES:

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

✓ DIRECTION: AXIAL / COUPLING TYPE: DIN 5482 / STYLE: DA



Power Transmission
According to DIN 5482

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	P (DIN5482)
51101232	DA30548225	30	1-16 ER25	42	6000	1:1	101	70	68	B15 x 12
51101233	DA40548232	40	2-20 ER32	50	6000	1:1	110	74	86	B17 x 14
51101234	DA50548240	50	3-26 ER40	63	6000	1:1	121	81.5	96	B20 x 17
51101235	DA60548250	60	10-34 ER50	78	6000	1:1	140	88.5	116	B25 x 22

✓ AXIAL TAPPING HEADS

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	P (DIN5482)
51101236	TDA30548216	30	1-10 ER16	30	3000	1:1	103	70	68	B15 x 12
51101237	TDA40548220	40	1-13 ER20	35	3000	1:1	104	74	86	B17 x 14
51101238	TDA50548225	50	1-16 ER25	42	3000	1:1	121	81.5	96	B20 x 17
51101239	TDA60548232	60	2-20 ER32	50	3000	1:1	147	88.5	116	B25 x 22

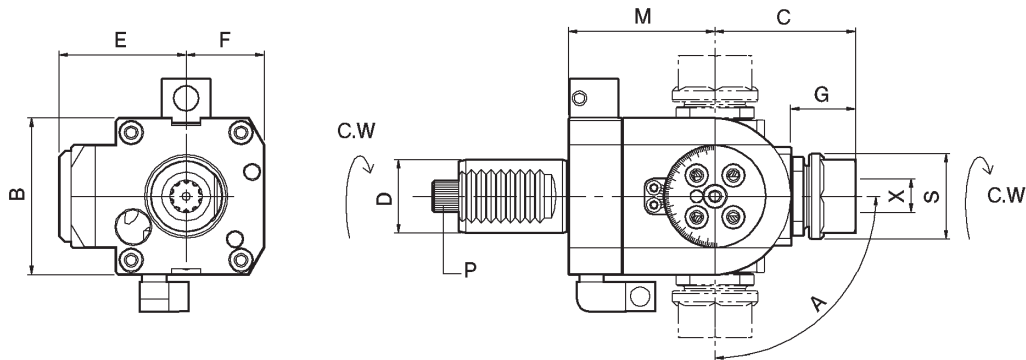


ANGULAR HEADS

FEATURES:

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

✓ COUPLING TYPE: DIN 5482 / STYLE: DA



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	A	B	C	E	F	G	M	P (DIN5482)
51101240	DA30548220B	30	1-13 ER20	35	4000	±90°	64	59	54	32	27	67	B15 x 12
51101241	DA40548225B	40	1-16 ER25	42	4000	±90°	76	65	65	38	29	70	B17 x 14

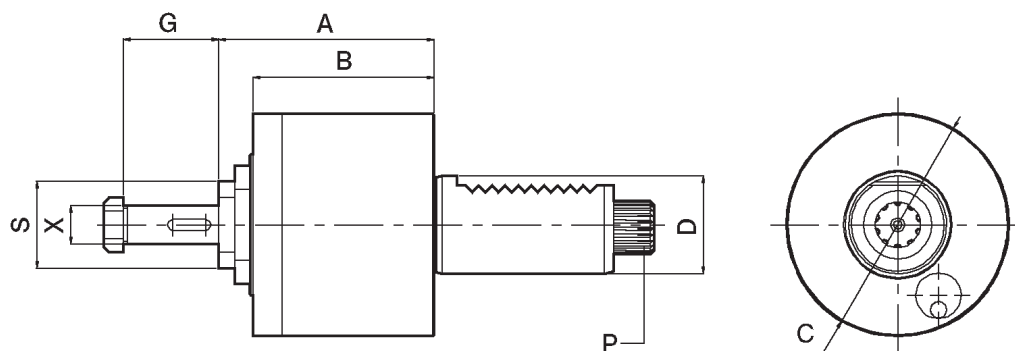


AXIAL DRILLING & MILLING HEADS

FEATURES:

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

✓ DIRECTION: AXIAL / COUPLING TYPE: DIN 5482 / STYLE: DA



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (DIN 6358)	S	MAX. RPM	A	B	C	G	P (DIN5482)
51101242	DA30548216C	30	16	32	3000	91.5	70	68	27	B15 x 12
51101243	DA40548216C	40	16	32	3000	68.5	55	86	27	B17 x 14
51101244	DA40548222C	40	22	32	3000	68.5	55	86	31	B17 x 14
51101245	DA50548222C	50	22	40	3000	117	81.5	96	31	B20 x 17
51101246	DA50548227C	50	27	40	3000	117	88.5	96	33	B20 x 17



A “TOOLS FOR TURNING MACHINES

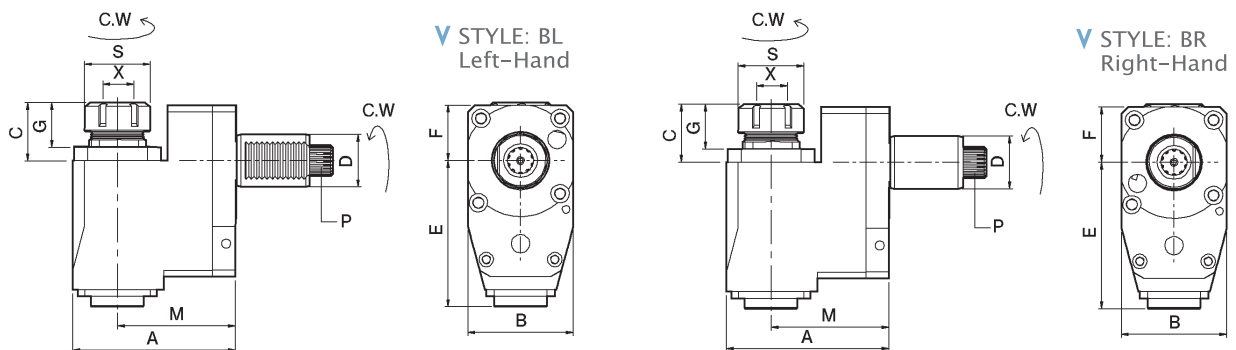


RADIAL DRILLING & MILLING HEADS-SET BACK

FEATURES:

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

▼ DIRECTION: RADIAL / COUPLING TYPE: DIN 5482 / STYLE: BR, BL



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	E	F	G	M	P (DIN5482)
51101247	BR3054822569	30	1-16 ER25	42	5000	1:1	95	60	42	75.5	31.5	28.5	69	B15 x 12
51101248	BL3054822569	30	1-16 ER25	42	5000	1:1	95	60	42	75.5	31.5	28.5	69	B15 x 12
51101249	BR4054823290	40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	B17 x 14
51101250	BL4054823290	40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	B17 x 14
51101251	BR5054824090	50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90	B20 x 17
51101252	BL5054824090	50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90	B20 x 17
51101253	BR60548250102	60	10-34 ER50	78	5000	1:1	147	104	83	118	54	42	102	B25 x 22
51101254	BL60548250102	60	10-34 ER50	78	5000	1:1	147	104	83	118	54	42	102	B25 x 22

▼ RADIAL TAPPING HEADS-SET BACK

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	E	F	G	M	P (DIN5482)
51101255	TBR3054821669	30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	69	B15 x 12
51101256	TBL3054821669	30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	69	B15 x 12
51101257	TBR4054822090	40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	B17 x 14
51101258	TBL4054822090	40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	B17 x 14
51101259	TBR5054822590	50	2-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	B20 x 17
51101260	TBL5054822590	50	2-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	B20 x 17
51101261	TBR60548232102	60	2-20 ER32	50	3000	1:1	147	104	87	118	54	40	102	B25 x 22
51101262	TBL60548232102	60	2-20 ER32	50	3000	1:1	147	104	87	118	54	40	102	B25 x 22

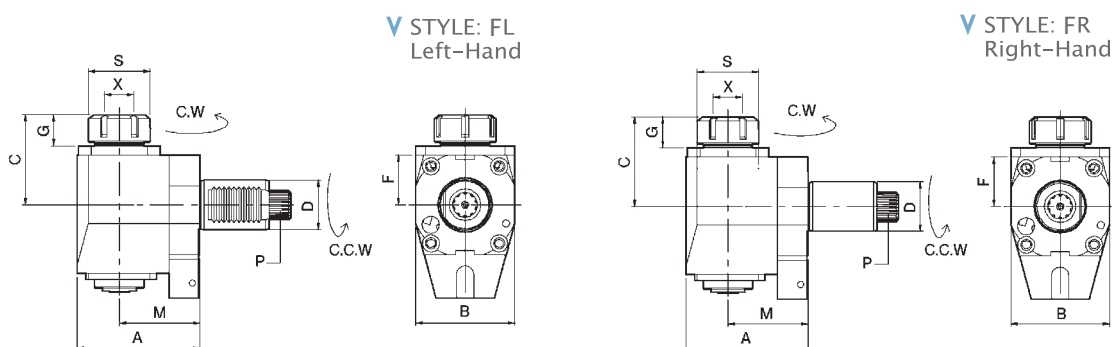


RADIAL DRILLING & MILLING HEADS

FEATURES:

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

✓ DIRECTION: RADIAL / COUPLING TYPE: DIN 5482 / STYLE: FR, FL



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	F	G	M	P (DIN5482)
51101263	FR3054822565	30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	65	B15 x 12
51101264	FL3054822565												
51101265	FR3054822585	30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85	B15 x 12
51101266	FL3054822585												
51101267	FR4054823265	40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	B17 x 14
51101268	FL4054823265												
51101269	FR4054823285	40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	B17 x 14
51101270	FL4054823285												
51101271	FR5054824075	50	3-26 ER40	63	5000	1:1	115	88	103	56	40	75	B20 x 17
51101272	FL5054824075												

✓ RADIAL TAPPING HEADS

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	F	G	M	P (DIN5482)
51101273	TFR3054821665	30	1-10 ER16	30	3000	1:1	97	64	75	41	30	65	B15 x 12
51101274	TFL3054821665												
51101275	TFR3054821685	30	1-10 ER16	30	3000	1:1	117	64	75	41	30	85	B15 x 12
51101276	TFL3054821685												
51101277	TFR4054822065	40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	B17 x 14
51101278	TFL4054822065												
51101279	TFR4054822085	40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	B17 x 14
51101280	TFL4054822085												
51101281	TFR5054822575	50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	B20 x 17
51101282	TFL5054822575												



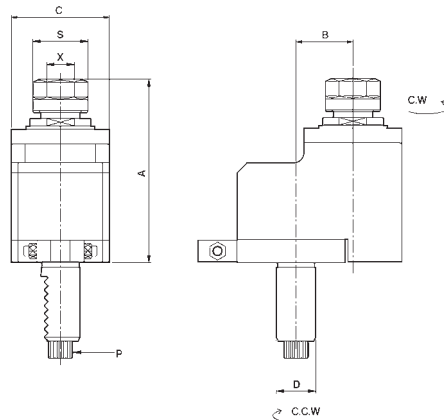
A “TOOLS FOR TURNING MACHINES



AXIAL DRILLING & MILLING HEADS-OFFSET

FEATURES:

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



▲ DIRECTION: AXIAL / COUPLING TYPE: DIN 5482 / STYLE: DA

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	P (DIN5482)
51101283	DA3054822529	30	1-16 ER25	42	4000	1:1	100	29	60	B15 x 12
51101284	DA3054822529/1	*30	1-16 ER25	42	8000	1:2	100	29	60	B15 x 12
51101285	DA4054823250	40	2-20 ER32	50	4000	1:1	113	50	80	B17 x 14
51101286	DA5054824065	50	3-26 ER40	63	3000	1:1	124	65	86	B20 x 17
51101287	DA6054825080	60	10-34 ER50	78	3000	1:1	173.5	80	104	B25 x 22
51101288	DA60548250100	60	10-34 ER50	78	3000	1:1	173.5	100	104	B25 x 22

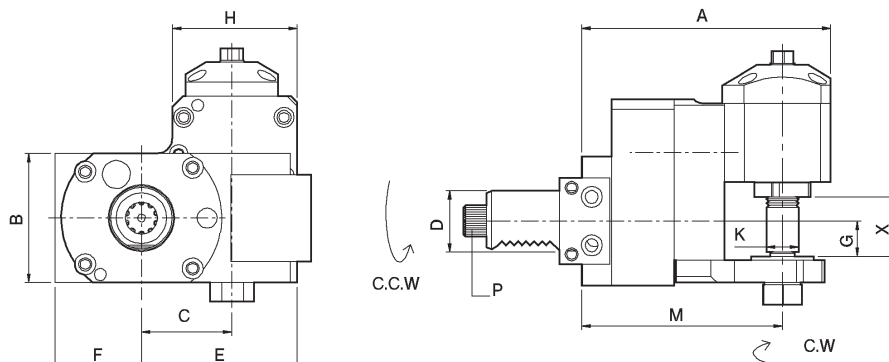


RADIAL MILLING HEADS-DISK CUTTER UNITS

FEATURES:

- External coolant supply.

▼ DIRECTION: RADIAL / COUPLING TYPE: DIN 5482 / STYLE: BR, BL



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	MAX. RPM	i	A	B	C	E	F	G	H	K	M	P (DIN5482)
51101289	BR30548216C/3	30	29	3000	3:1	124	64	45	77.5	34	18	62	16	100	B15 x 12
51101290	BL30548216C/3														
51101291	BR40548216C/3	40	30.5	3000	3:1	127	70	45	77.5	34	18	62	16	103	B17 x 14
51101292	BL40548216C/3														

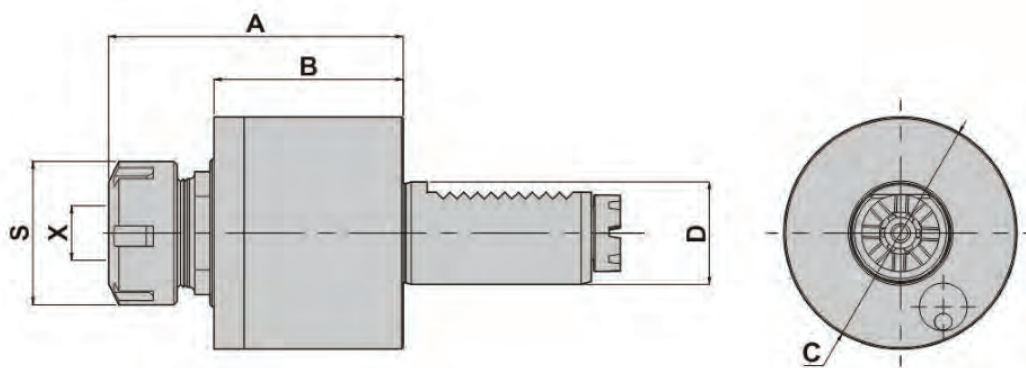


AXIAL DRILLING AND MILLING (0°)

TYPE: SPUR COUPLING-MT

FEATURES:

- To be used for collet DIN 6499
- External coolant supply.
- Collet is not included.
- Power transmission according to "BARUFFALD"
- MT : Frontal transmission coupling
- Gear is fixed version.



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C
51101694	DA20MT16	20	1-10 ER16	30	6000	1:1	76	48	58
51101695	DA30MT25	30	1-16 ER25	42	6000	1:1	86	55	68
51101696	DA40MT32	40	2-20 ER32	50	6000	1:1	92.5	55	86
51101697	DA40MT32	40	2-20 ER32	50	6000	1:1	111	73.5	86
51101698	DA50MT40	50	3-26 ER40	63	6000	1:1	118	81.5	96
51101699	DA60MT50	60	10-34 ER50	78	6000	1:1	140	88.5	116



AXIAL TAPPING HEADS (0°)

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C
51101700	DA20MT16	30	1-10 ER16	30	3000	1:1	108	71.5	68
51101701	DA30MT20	40	1-13 ER20	35	3000	1:1	95.5	55	86
51101702	DA30MT25	50	1-16 ER25	42	3000	1:1	123	81.5	96
51101703	DA40MT32	60	2-20 ER32	50	3000	1:1	158.5	88.5	116



A “TOOLS FOR TURNING MACHINES

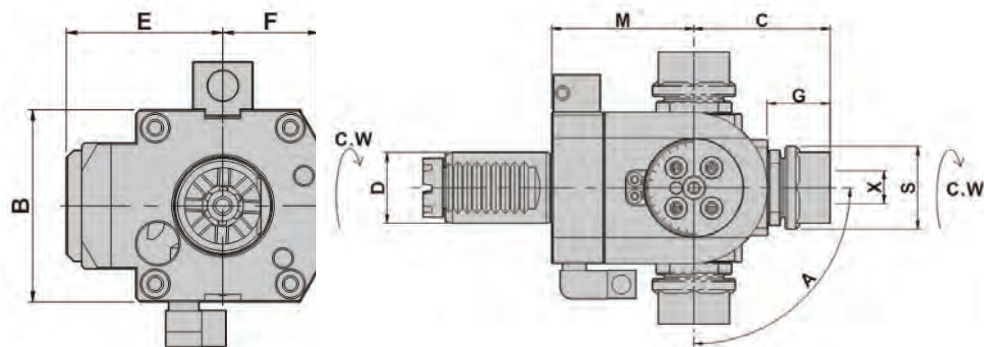


ANGULAR HEADS

TYPE: SPUR COUPLING-MT

FEATURES:

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



UNIT: mm

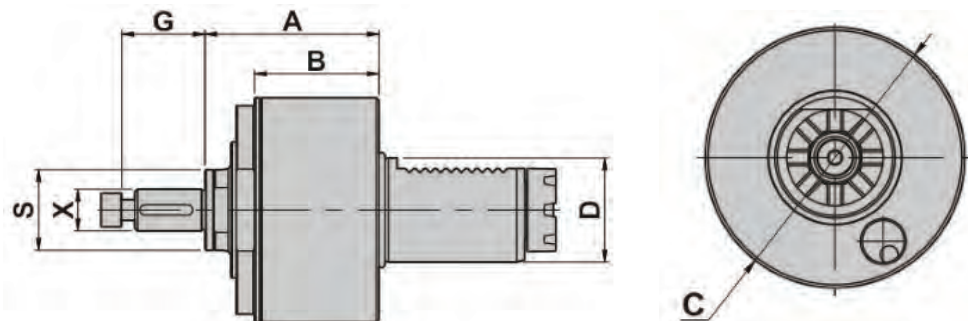
ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	A	B	C	E	F	G	M
51101704	DA30MT20B	30	1-13 ER20	35	4000	±90°	64	59	54	32	27	67
51101705	DA40MT25B	40	2-20 ER25	42	4000	±90°	76	65	65	38	29	70



AXIAL SHELL END MILLING CUTTERS (0°)

FEATURES:

- To be used for cutter arbor according to DIN6358.
- External coolant and intermediate rings supply.



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (DIN 6358)	S	MAX. RPM	A	B	C	G
51101706	DA30MT16C	30	16	32	3000	91.5	55	68	27
51101707	DA40MT16C	40	16	32	3000	68.5	55	86	27
51101708	DA40MT22C	40	22	32	3000	68.5	55	86	31
51101709	DA40MT30C	*40	30	58	3000	94	73.5	86	24
51101710	DA50MT22C	50	22	40	3000	117	81.5	96	31
51101711	DA50MT27C	50	27	40	3000	117	81.5	96	33

*SPECIAL

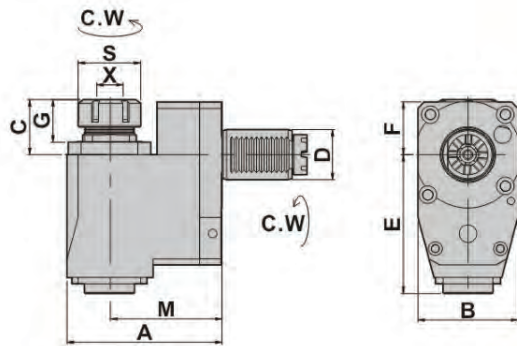


RADIAL DRILLING AND MILLING HEADS (90°)

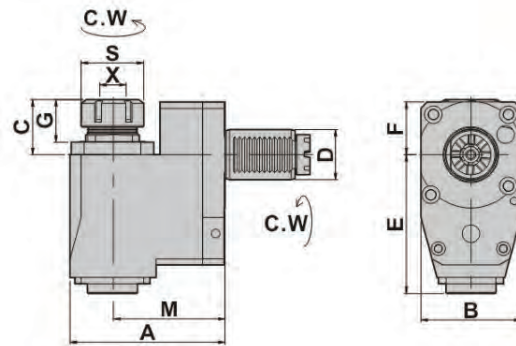
TYPE: SPUR COUPLING-MT FEATURES:

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

▼ STYLE: BL LEFT-HAND



▼ STYLE: BR RIGHT-HAND



UNIT: mm

ITEM NO.	MODEL	D DIN 69880	X (CAPACITY)	S	MAX. RPM	i	A	B	C	E	F	G	M
51101712	BR20MT1660	20	1-10 ER16	30	5000	1:1	83	50	35	70	27	27	60
51101713	BL20MT1660												
51101714	BR30MT2572	30	1-10 ER25	42	5000	1:1	95	60	42	76	32	29	72
51101715	BR30MT2572												
51101716	BL40MT3290	40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90
51101717	BR40MT3290												
51101718	BL50MT4090	50	3-26 ER30	63	5000	1:1	129	86	49	112	45	39	90
51101719	BR50MT4090												
51101720	BL60MT50106	60	10-34 ER50	78	5000	1:1	147	104	83	118	54	50	106
51101721	BR60MT50106												
51101722	BL60MT50135	60	10-34 ER50	78	5000	1:1	183	104	73.5	123	54	51	135



RADIAL TAPPING HEADS (90°)

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	E	F	G	M
51101723	TFR30MT1665	30	1-10 ER16	30	3000	1:1	95	60	44	76	32	32	72
51101724	TFL30MT1665												
51101725	TFR30MT1685	40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90
51101726	TFL30MT1685												
51101727	TFR40MT2065	50	2-16 ER25	42	3000	1:1	129	86	54	112	45	36	90
51101728	TFL40MT2065												
51101729	TFR40MT2085	60	2-20 ER20	50	3000	1:1	147	104	83	118	54	56	106
51101730	TFL40MT2085												



A “ TOOLS FOR TURNING MACHINES

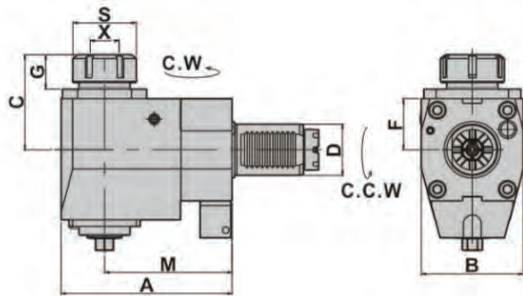


RADIAL DRILLING AND MILLING HEADS (90°)

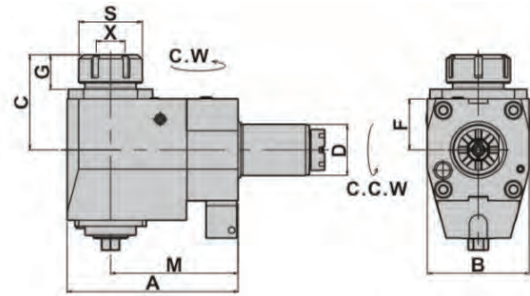
TYPE: SPUR COUPLING-MT

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

V STYLE: FL LEFT-HAND



V STYLE: FR RIGHT-HAND



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	F	G	M
51101731	FR20MT1645	20	1-10 ER16	30	5000	1:1	67	50	63	27	24.5	45
51101732	FL20MT1645											
51101733	FR20MT1670											
51101734	FL20MT1670											
51101735	FR30MT2565	30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	65
51101736	FL30MT2565											
51101737	FR30MT2585	30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85
51101738	FL30MT2585											
51101739	FR40MT3265	40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65
51101740	FL40MT3265											
51101741	FR40MT3285	40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85
51101742	FL40MT3285											
51101743	FR40MT32100	40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100
51101744	FL40MT32100											



RADIAL TAPPING HEADS (90°)

UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	X (CAPACITY)	S	MAX. RPM	i	A	B	C	F	G	M
51101745	FR30MT1665	30	1-10 ER16	30	3000	1:1	97	64	75	41	30	65
51101746	FL30MT1665											
51101747	FR30MT1685											
51101748	FL30MT1685											
51101749	FR40MT2065	40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65
51101750	FL40MT2065											
51101751	FR40MT2085											
51101752	FL40MT2085											
51101753	FR50MT2575	50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75
51101754	FL50MT2575											

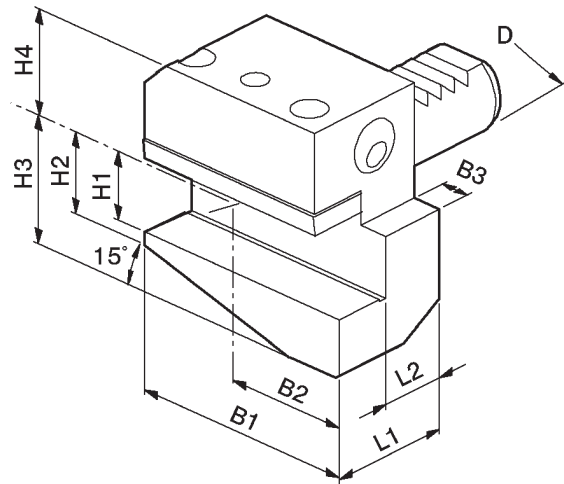


DIN 69880 RADIAL STATIC HOLDERS

V DIRECTION: RADIAL / STYLE: B1

FEATURES:

- Right hand.
- Short.
- External coolant supply.



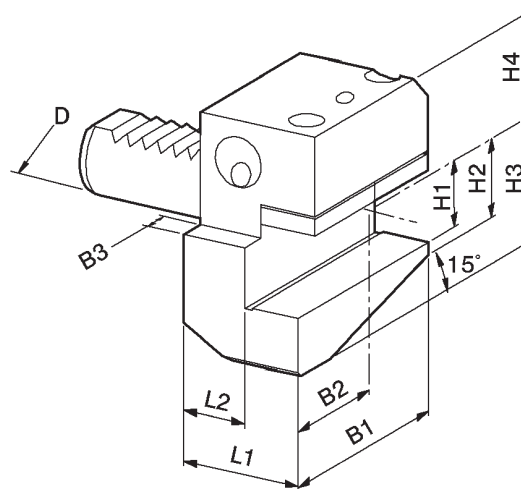
UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101293	B1-20 x 16 (5/8")	20	55	30	7	16(5/8")	19	30	25	30	16
51101294	B1-30 x 20 (3/4")	30	70	35	10	20(3/4")	26	38	28	40	22
51101295	B1-40 x 25 (1")	40	85	42.5	12.5	25(1")	35	48	32.5	44	22
51101296	B1-50 x 32 (1-1/4")	50	100	50	16	32(1-1/4")	42	60	35	55	30
51101297	B1-60 x 32 (1-1/4")	60	125	62.5	16	32(1-1/4")	46	62.5	42.5	60	30

V DIRECTION: RADIAL / STYLE: B2

FEATURES:

- Left hand.
- Short.
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101298	B2-20 x 16 (5/8")	20	55	30	7	16(5/8")	19	30	25	30	16
51101299	B2-30 x 20 (3/4")	30	70	35	10	20(3/4")	26	38	28	40	22
51101300	B2-40 x 25 (1")	40	85	42.5	12.5	25(1")	35	48	32.5	44	22
51101301	B2-50 x 32 (1-1/4")	50	100	50	16	32(1-1/4")	42	60	35	55	30
51101302	B2-60 x 32 (1-1/4")	60	125	62.5	16	32(1-1/4")	46	62.5	42.5	60	30



A5 - VDI TOOL HOLDERS

TOOLS FOR TURNING MACHINES

A “TOOLS FOR TURNING MACHINES

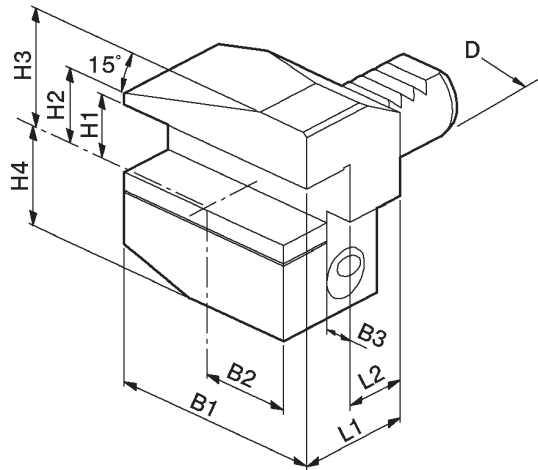


DIN 69880 RADIAL STATIC HOLDERS

V DIRECTION: RADIAL / STYLE: B3

FEATURES:

- Right hand.
- Short.
- External coolant supply.



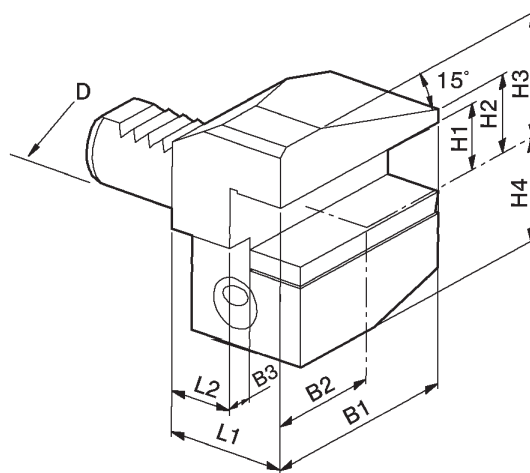
UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101303	B3-20 x 16 (5/8")	20	55	30	7	16(5/8")	22	30	25	30	16
51101304	B3-30 x 20 (3/4")	30	70	35	10	20(3/4")	22	38	35	40	22
51101305	B3-40 x 25 (1")	40	85	42.5	12.5	25(1")	30	48	42.5	44	22
51101306	B3-50 x 32 (1-1/4")	50	100	50	16	32(1-1/4")	35	60	50	55	30
51101307	B3-60 x 32 (1-1/4")	60	125	62.5	16	32(1-1/4")	42.5	62.5	42.5	60	30

V DIRECTION: RADIAL / STYLE: B4

FEATURES:

- Left hand.
- Short.
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101308	B4-20 x 16 (5/8")	20	55	30	7	16(5/8")	19	30	25	30	16
51101309	B4-30 x 20 (3/4")	30	70	35	10	20(3/4")	22	38	35	40	22
51101310	B4-40 x 25 (1")	40	85	42.5	12.5	25(1")	30	48	42.5	44	22
51101311	B4-50 x 32 (1-1/4")	50	100	50	16	32(1-1/4")	35	60	50	55	30
51101312	B4-60 x 32 (1-1/4")	60	125	62.5	16	32(1-1/4")	42.5	62.5	42.5	60	30

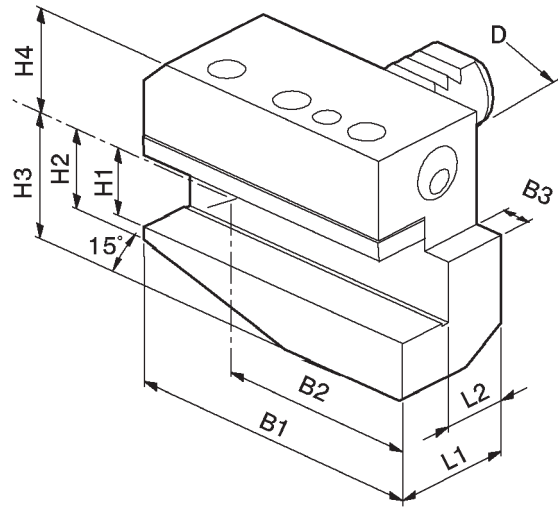


DIN 69880 RADIAL STATIC HOLDERS

V DIRECTION: RADIAL / STYLE: B5

FEATURES:

- Right hand.
- Long
- External coolant supply.



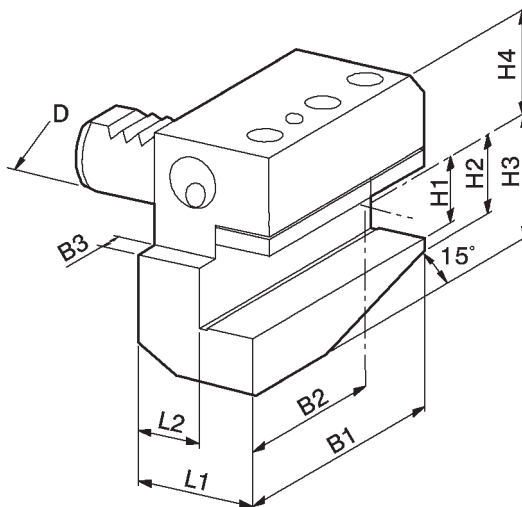
UNIT: mm

ITEM NO.	MODEL.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101313	B5-20 x 16 (5/8")	20	75	50	7	16(5/8")	19	30	25	30	16
51101314	B5-30 x 20 (3/4")	30	100	65	10	20(3/4")	26	38	28	40	22
51101315	B5-40 x 25 (1")	40	118	76	12.5	25(1")	35	48	32.5	44	22
51101316	B5-50 x 32 (1-1/4")	50	130	80	16	32(1-1/4")	42	60	35	55	30
51101317	B5-60 x 32 (1-1/4")	60	145	83	16	32(1-1/4")	46	62.5	42.5	60	30

V DIRECTION: RADIAL / STYLE: B6

FEATURES:

- Left hand.
- Long
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101318	B6-20 x 16 (5/8")	20	75	50	7	16(5/8")	19	30	25	30	16
51101319	B6-30 x 20 (3/4")	30	100	65	10	20(3/4")	26	38	28	40	22
51101320	B6-40 x 25 (1")	40	118	76	12.5	25(1")	35	48	32.5	44	22
51101321	B6-50 x 32 (1-1/4")	50	130	80	16	32(1-1/4")	42	60	35	55	30
51101322	B6-60 x 32 (1-1/4")	60	145	83	18	32(1-1/4")	46	62.5	42.5	60	30



A5 - VDI TOOL HOLDERS

TOOLS FOR TURNING MACHINES

A “TOOLS FOR TURNING MACHINES

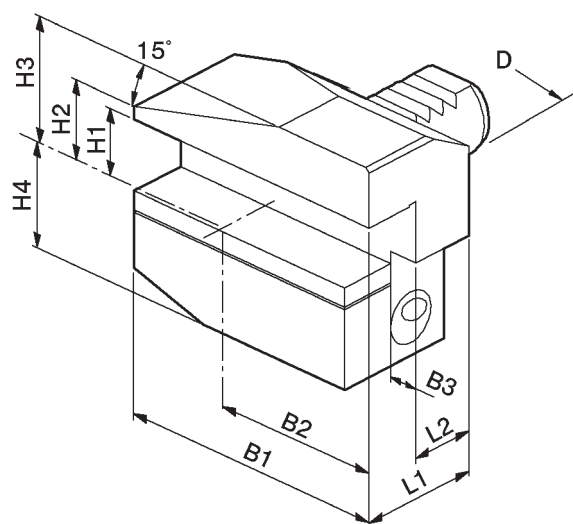


DIN 69880 RADIAL STATIC HOLDERS

V DIRECTION: RADIAL / STYLE: B7

FEATURES:

- Right hand.
- Long
- External coolant supply.



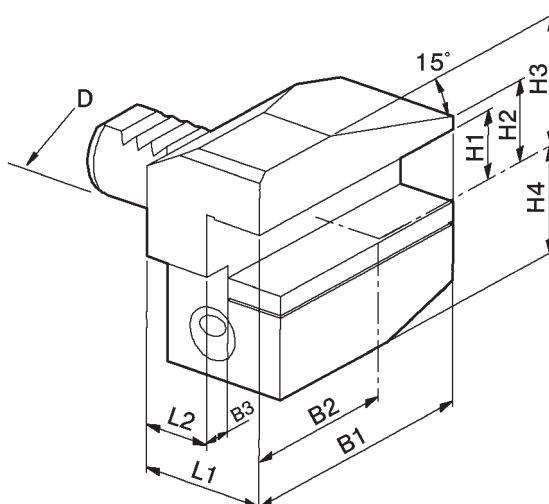
UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101323	B7-20 x 16 (5/8")	20	75	50	7	16(5/8")	19	30	25	30	16
51101324	B7-30 x 20 (3/4")	30	100	65	10	20(3/4")	22	38	35	40	22
51101325	B7-40 x 25 (1")	40	118	75.5	12.5	25(1")	30	48	42.5	44	22
51101326	B7-50 x 32 (1-1/4")	50	130	80	16	32(1-1/4")	35	60	50	55	30
51101327	B7-60 x 32 (1-1/4")	60	145	82.5	16	32(1-1/4")	42.5	62.5	42.5	60	30

V DIRECTION: RADIAL / STYLE: B8

FEATURES:

- Left hand.
- Long
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101328	B8-20 x 16 (5/8")	20	75	50	7	16(5/8")	19	30	25	30	16
51101329	B8-30 x 20 (3/4")	30	100	65	10	20(3/4")	22	38	35	40	22
51101330	B8-40 x 25 (1")	40	118	75.5	12.5	25(1")	30	48	42.5	44	22
51101331	B8-50 x 32 (1-1/4")	50	130	80	16	32(1-1/4")	35	60	50	55	30
51101332	B8-60 x 32 (1-1/4")	60	145	82.5	16	32(1-1/4")	42.5	62.5	42.5	60	30

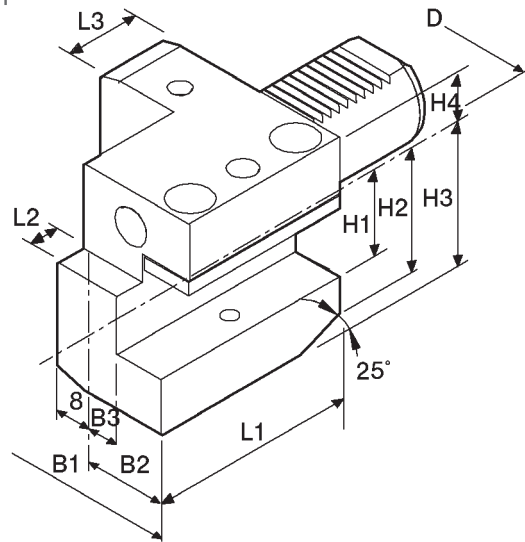


DIN 69880 AXIAL STATIC HOLDERS

▼ DIRECTION: AXIAL / STYLE: C1

FEATURES:

- Right hand.
- External coolant supply.



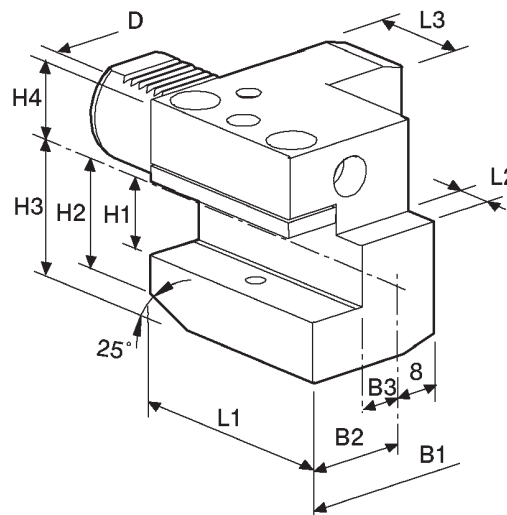
UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3
51101333	C1-20 x 16 (5/8")	20	65	40	26	16(5/8")	23	30	25	50	7	30
51101334	C1-30 x 20 (3/4")	30	70	35	17	20(3/4")	28	38	28	70	10	30
51101335	C1-40 x 25 (1")	40	85	42.5	21	25(1")	-	48	32.5	85	12.5	30
51101336	C1-50 x 32 (1-1/4")	50	100	50	26	32(1-1/4")	-	60	35	100	16	40
51101337	C1-60 x 32 (1-1/4")	60	125	62.5	33	32(1-1/4")	-	62.5	42.5	125	16	40

▼ DIRECTION: AXIAL / STYLE: C2

FEATURES:

- Left hand.
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3
51101338	C2-20 x 16 (5/8")	20	65	40	26	16(5/8")	23	30	25	50	7	30
51101339	C2-30 x 20 (3/4")	30	76	41	23	20(3/4")	28	38	28	70	10	30
51101340	C2-40 x 25 (1")	40	90	47.5	25.5	25(1")	-	48	32.5	85	12.5	30
51101341	C2-50 x 32 (1-1/4")	50	105	55	30.5	32(1-1/4")	-	60	35	100	16	40
51101342	C2-60 x 32 (1-1/4")	60	125	62.5	33	32(1-1/4")	-	62.5	42.5	125	16	40



A “TOOLS FOR TURNING MACHINES

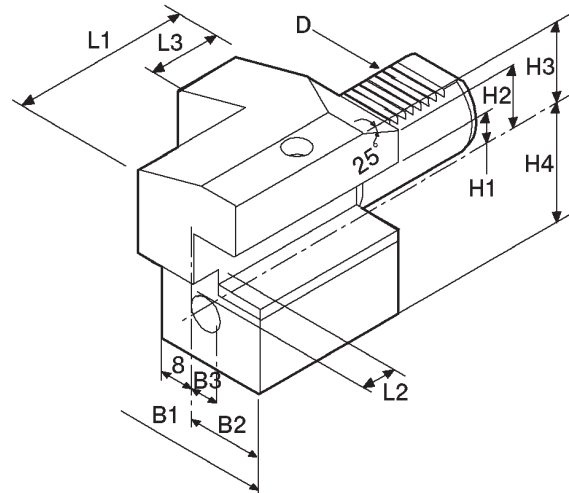


DIN 69880 AXIAL STATIC HOLDERS

▼ DIRECTION: AXIAL / STYLE: C3

FEATURES:

- Right hand.
- External coolant supply.



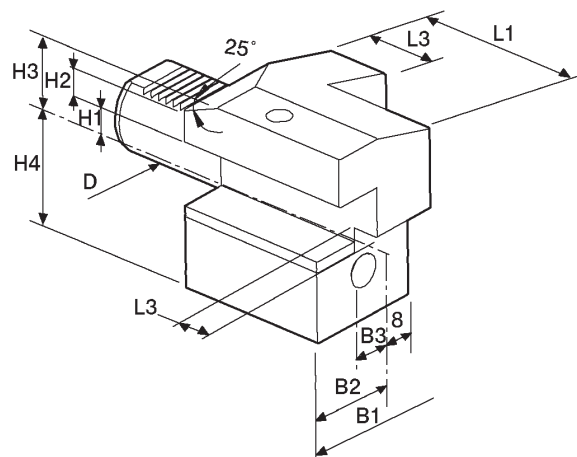
UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3
51101343	C3-20 x 16 (5/8")	20	65	40	26	16(5/8")	23	30	25	50	7	30
51101344	C3-30 x 20 (3/4")	30	70	35	17	20(3/4")	28	38	35	70	10	30
51101345	C3-40 x 25 (1")	40	85	42.5	21	25(1")	-	48	42.5	85	12.5	30
51101346	C3-50 x 32 (1-1/4")	50	100	50	26	32(1-1/4")	-	60	50	100	16	40
51101347	C3-60 x 32 (1-1/4")	60	125	62.5	33	32(1-1/4")	-	62.5	62.5	125	16	40

▼ DIRECTION: AXIAL / STYLE: C4

FEATURES:

- Left hand.
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3
51101348	C4-20 x 16 (5/8")	20	65	40	26	16(5/8")	23	30	25	50	7	30
51101349	C4-30 x 20 (3/4")	30	76	41	23	20(3/4")	28	38	35	70	10	30
51101350	C4-40 x 25 (1")	40	90	47.5	25.5	25(1")	-	48	42.5	85	12.5	30
51101351	C4-50 x 32 (1-1/4")	50	105	55	30.5	32(1-1/4")	-	60	50	100	16	40
51101352	C4-60 x 32 (1-1/4")	60	125	62.5	33	32(1-1/4")	-	62.5	62.5	125	16	40

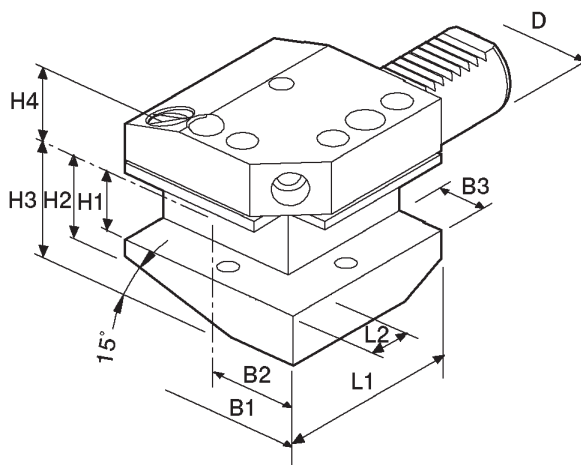


DIN 69880 COMBINED STATIC HOLDERS

✓ DIRECTION: RADIAL, AXIAL / STYLE: CB1

FEATURES:

- Right hand.
- External coolant supply.



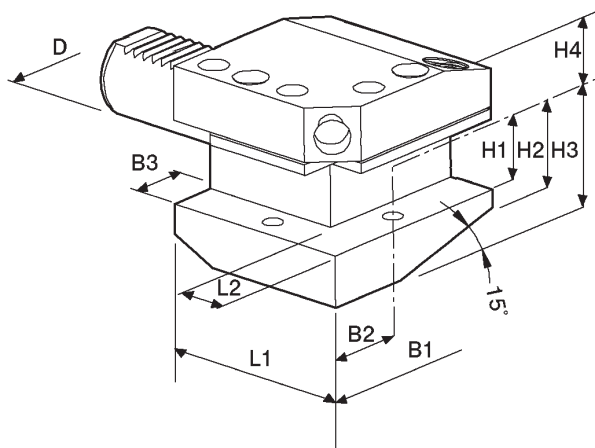
UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101353	CB1-20 x 16 (5/8")	20	65	40	14	16(5/8")	19	30	25	50	14
51101354	CB1-30 x 20 (3/4")	30	74	40	18	20(3/4")	26	38	28	70	18
51101355	CB1-40 x 25 (1")	40	85	45	22	25(1")	35	48	32.5	100	22
51101356	CB1-50 x 32 (1-1/4")	50	105	55	25	32(1-1/4")	42	60	35	120	25
51101357	CB1-60 x 32 (1-1/4")	60	125	62.5	30	32(1-1/4")	46	62.5	42.5	135	30

✓ DIRECTION: RADIAL, AXIAL / STYLE: CB2

FEATURES:

- Left hand.
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101358	CB2-20 x 16 (5/8")	20	65	40	14	16(5/8")	19	30	25	50	14
51101359	CB2-30 x 20 (3/4")	30	74	40	18	20(3/4")	26	38	28	70	18
51101360	CB2-40 x 25 (1")	40	85	47	22	25(1")	35	48	32.5	100	22
51101361	CB2-50 x 32 (1-1/4")	50	105	55	25	32(1-1/4")	42	60	35	120	25
51101362	CB2-60 x 32 (1-1/4")	60	125	62.5	30	32(1-1/4")	46	62.5	42.5	135	30



A “TOOLS FOR TURNING MACHINES

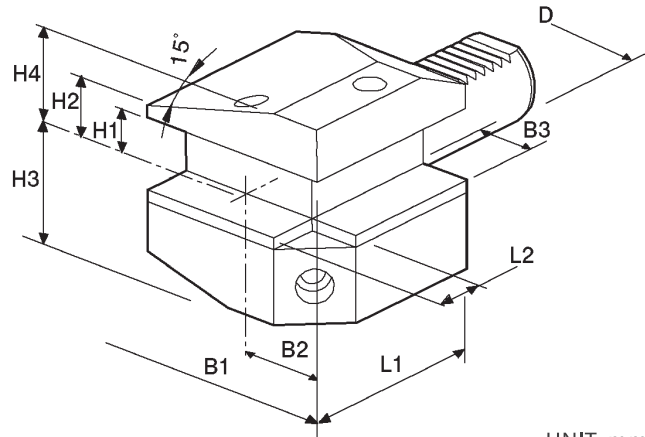


DIN 69880 COMBINED STATIC HOLDERS

✓ DIRECTION: RADIAL, AXIAL / STYLE: CB3

FEATURES:

- Right hand.
- External coolant supply.



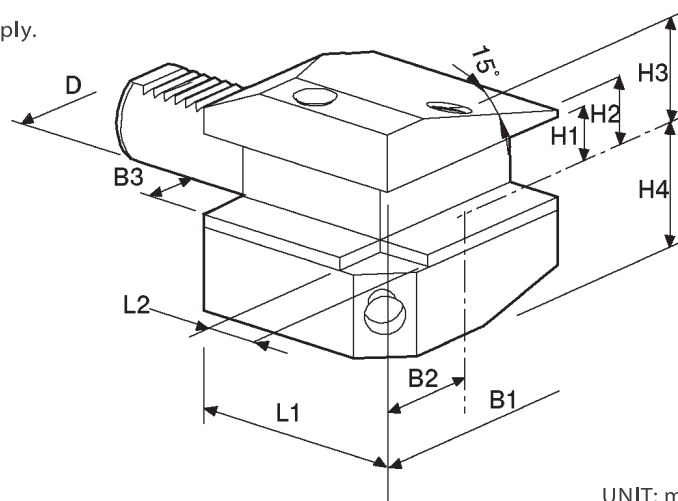
UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101363	CB3-20 x 16 (5/8")	20	65	40	14	16(5/8")	19	30	25	50	14
51101364	CB3-30 x 20 (3/4")	30	74	40	18	20(3/4")	22	38	28	70	18
51101365	CB3-40 x 25 (1")	40	85	45	22	25(1")	30	48	32.5	100	22
51101366	CB3-50 x 32 (1-1/4")	50	105	55	25	32(1-1/4")	35	60	35	120	25
51101367	CB3-60 x 32 (1-1/4")	60	125	62.5	30	32(1-1/4")	42.5	62.5	42.5	135	30

✓ DIRECTION: RADIAL, AXIAL / STYLE: CB4

FEATURES:

- Left hand.
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	H1	H2	H3	H4	L1	L2
51101368	CB4-20 x 16 (5/8")	20	65	40	14	16(5/8")	19	30	25	50	14
51101369	CB4-30 x 20 (3/4")	30	74	40	18	20(3/4")	22	38	28	70	18
51101370	CB4-40 x 25 (1")	40	85	47	22	25(1")	30	48	32.5	100	22
51101371	CB4-50 x 32 (1-1/4")	50	105	55	25	32(1-1/4")	35	60	35	120	25
51101372	CB4-60 x 32 (1-1/4")	60	125	62.5	30	32(1-1/4")	42.5	62.5	42.5	135	30

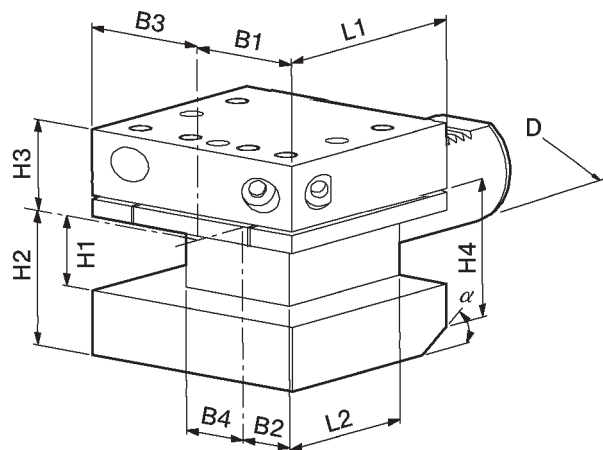


DIN 69880 COMBINED STATIC HOLDERS

✓ DIRECTION: RADIAL, AXIAL / STYLE: D1

FEATURES:

- Right hand.
- External coolant supply.



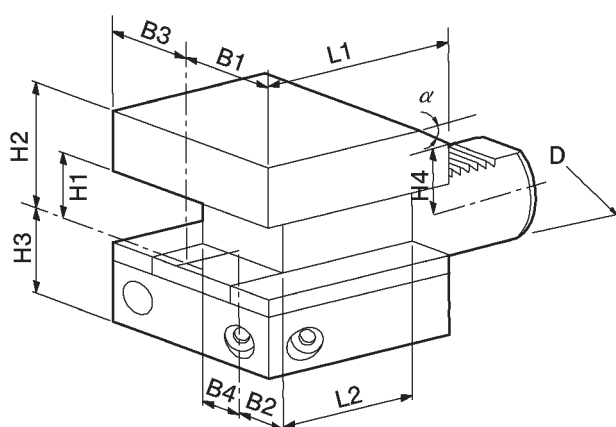
UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	α
51101373	D1-30 x 20 (3/4")	30	35	17	41	23	20(3/4")	38	35	30	60	42	25°
51101374	D1-40 x 25 (1")	40	42.5	21	47.5	25.5	25(1")	48	42.5	40	72	50	25°
51101375	D1-50 x 32 (1-1/4")	50	50	26	55	30.5	32(1-1/4")	60	50	-	85	60	-
51101376	D1-60 x 32 (1-1/4")	60	57.5	33	57.5	33	32(1-1/4")	62.5	62.5	-	110	85	-

✓ DIRECTION: RADIAL, AXIAL / STYLE: D2

FEATURES:

- Left hand.
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	α
51101377	D2-30 x 20 (3/4")	30	35	17	41	23	20(3/4")	38	35	30	60	42	25°
51101378	D2-40 x 25 (1")	40	42.5	21	47.5	25.5	25(1")	48	42.5	40	72	50	25°
51101379	D2-50 x 32 (1-1/4")	50	50	26	55	30.5	32(1-1/4")	60	50	-	85	60	-
51101380	D2-60 x 32 (1-1/4")	60	57.5	33	57.5	33	32(1-1/4")	62.5	62.5	-	110	85	-



A “TOOLS FOR TURNING MACHINES

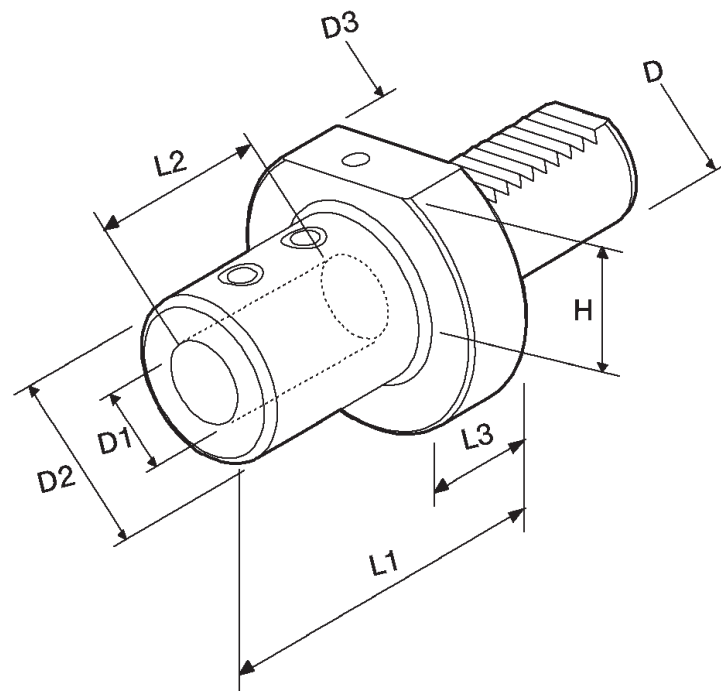


DIN 69880 STATIC HOLDERS

FEATURES:

- U drills.
- Internal coolant supply.

▼ STYLE: E1



UNIT: mm

ITEM NO.	MODEL	D	D1	D2	D3	H	L1	L2	L3
51101381	E1-20 x 20 (3/4")	20	20 (3/4")	40	50	-	67	57	18
51101382	E1-20 x 25 (1")	20	25 (1")	45	50	-	71	59	18
51101383	E1-30 x 20 (3/4")	30	20 (3/4")	40	68	28	67	54	22
51101384	E1-30 x 25 (1")	30	25 (1")	45	68	28	71	59	22
51101385	E1-30 x 32 (1-1/4")	30	32 (1-1/4")	52	68	28	75	63	22
51101386	E1-40 x 20 (3/4")	40	20 (3/4")	40	83	32.5	67	54	22
51101387	E1-40 x 25 (1")	40	25 (1")	45	83	32.5	75	59	22
51101388	E1-40 x 32 (1-1/4")	40	32 (1-1/4")	52	83	32.5	75	63	22
51101389	E1-40 x 40 (1-1/2")	40	40 (1-1/2")	60	83	32.5	90	73	22
51101390	E1-50 x 20 (3/4")	50	20 (3/4")	40	98	35	67	54	30
51101391	E1-50 x 25 (1")	50	25 (1")	45	98	35	80	59	30
51101392	E1-50 x 32 (1-1/4")	50	32 (1-1/4")	52	98	35	80	63	30
51101393	E1-50 x 40 (1-1/2")	50	40 (1-1/2")	60	98	35	90	73	30
51101394	E1-50 x 50 (2")	50	50 (2")	70	98	35	100	83	30

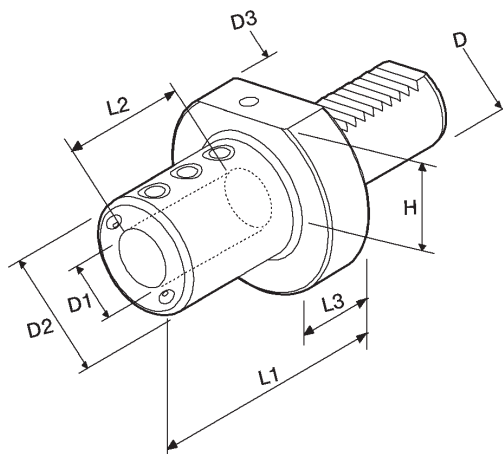


DIN 69880 STATIC HOLDERS

> STYLE: E2

FEATURES:

- Boring bar holder
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	D1	D2	D3	H	L1	L2	L3
51101395	E2-20 x 8 (5/16")	20	8 (5/16")	40	50	-	50	41	18
51101396	E2-20 x 10 (3/8")	20	10 (3/8")	40	50	-	50	41	18
51101397	E2-20 x 12 (1/2")	20	12 (1/2")	40	50	-	50	41	18
51101398	E2-20 x 16 (5/8")	20	16 (5/8")	40	50	-	50	41	18
51101399	E2-20 x 20 (3/4")	20	20 (3/4")	50	50	-	50	41	-
51101400	E2-20 x 25 (1")	20	25 (1")	50	50	-	60	41	-
51101401	E2-30 x 8 (5/16")	30	8 (5/16")	50	68	28	60	51	22
51101402	E2-30 x 10 (3/8")	30	10 (3/8")	50	68	28	60	51	22
51101403	E2-30 x 12 (1/2")	30	12 (1/2")	50	68	28	60	51	22
51101404	E2-30 x 16 (5/8")	30	16 (5/8")	55	68	28	60	51	22
51101405	E2-30 x 20 (3/4")	30	20 (3/4")	58	68	28	60	51	22
51101406	E2-30 x 25 (1")	30	25 (1")	62	68	28	60	51	22
51101407	E2-30 x 32 (1-1/4")	30	32 (1-1/4")	68	68	28	75	61	-
51101409	E2-40 x 10 (3/8")	40	10 (3/8")	50	83	32.5	75	61	22
51101410	E2-40 x 12 (1/2")	40	12 (1/2")	50	83	32.5	75	61	22
51101411	E2-40 x 16 (5/8")	40	16 (5/8")	56	83	32.5	75	61	22
51101412	E2-40 x 20 (3/4")	40	20 (3/4")	56	83	32.5	75	61	22
51101413	E2-40 x 25 (1")	40	25 (1")	62	83	32.5	75	61	22
51101414	E2-40 x 32 (1-1/4")	40	32 (1-1/4")	72	83	32.5	75	61	22
51101415	E2-40 x 40 (1-1/2")	40	40 (1-1/2")	83	83	32.5	85	76	-
51101416	E2-50 x 10 (3/8")	50	10 (3/8")	50	98	35	90	76	30
51101417	E2-50 x 12 (1/2")	50	12 (1/2")	56	98	35	90	76	30
51101418	E2-50 x 16 (5/8")	50	16 (5/8")	56	98	35	90	76	30
51101419	E2-50 x 20 (3/4")	50	20 (3/4")	62	98	35	90	76	30
51101420	E2-50 x 25 (1")	50	25 (1")	72	98	35	90	76	30
51101421	E2-50 x 32 (1-1/4")	50	32 (1-1/4")	72	98	35	90	76	30
51101422	E2-50 x 40 (1-1/2")	50	40 (1-1/2")	80	98	35	90	76	30
51101423	E2-50 x 50 (2")	50	50 (2")	90	98	35	95	86	30
51101424	E2-60 x 10 (3/8")	60	10 (3/8")	68	123	42.5	90	76	35
51101425	E2-60 x 12 (1/2")	60	12 (1/2")	68	123	42.5	90	76	35
51101426	E2-60 x 16 (5/8")	60	16 (5/8")	68	123	42.5	90	76	35
51101427	E2-60 x 20 (3/4")	60	20 (3/4")	68	123	42.5	90	76	35
51101428	E2-60 x 25 (1")	60	25 (1")	68	123	42.5	90	76	35
51101429	E2-60 x 32 (1-1/4")	60	32 (1-1/4")	68	123	42.5	90	76	35
51101230	E2-60 x 40 (1-1/2")	60	40 (1-1/2")	98	123	42.5	90	76	35
51101431	E2-60 x 50 (2")	60	50 (2")	98	123	42.5	95	86	35



A “TOOLS FOR TURNING MACHINES

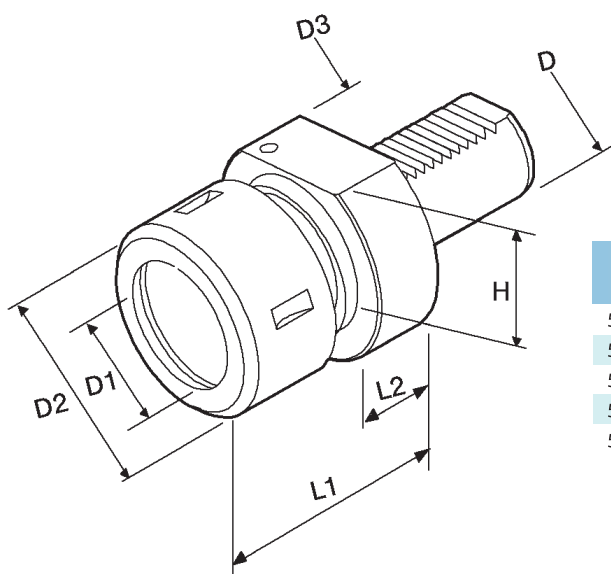


DIN 69880 STATIC HOLDERS

✓ STYLE: E3

FEATURES:

- For collet DIN 6388
- External coolant supply.



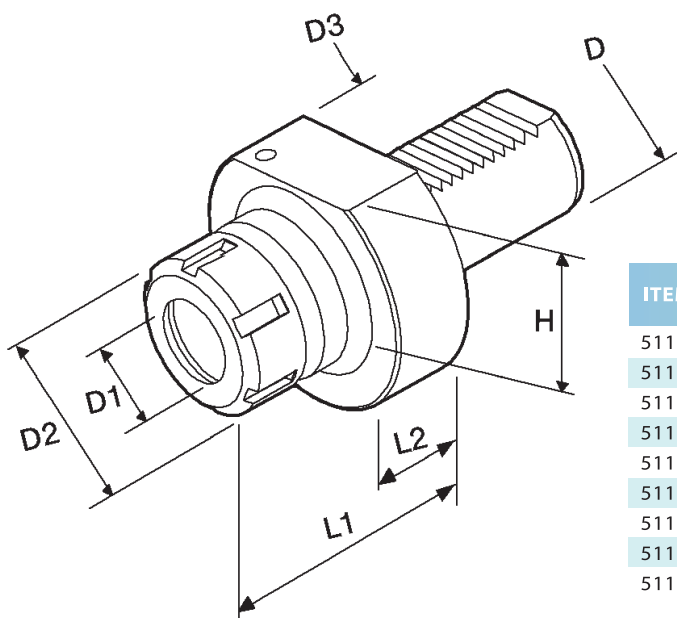
UNIT: mm

ITEM NO.	MODEL	D	D1	D2	D3	H	L1	L2
51101437	E3-30 x OZ25	30	2-25	60	68	28	75	22
51101438	E3-40 x OZ25	40	2-25	60	83	32.5	75	22
51101439	E3-40 x OZ32	40	4-32	78	83	32.5	90	22
51101440	E3-50 x OZ25	50	2-25	60	98	35	75	30
51101441	E3-50 x OZ32	50	4-32	78	98	35	90	30

✓ STYLE: E4

FEATURES:

- For collet DIN 6499
- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	D1	D2	D3	H	L1	L2
51101442	E4-20 x ER25	20	1-16	42	50	-	50	18
51101443	E4-30 x ER25	30	1-16	42	68	28	53	22
51101444	E4-30 x ER32	30	2-20	50	68	28	57	22
51101445	E4-40 x ER25	40	1-16	42	83	32.5	62	28
51101446	E4-40 x ER32	40	2-20	50	83	32.5	62	28
51101447	E4-40 x ER40	40	3-26	63	83	32.5	75	28
51101448	E4-50 x ER40	50	3-26	63	98	35	75	30
51101449	E4-60 x ER40	60	3-26	63	123	42.5	75	30
51101450	E4-60 x ER50	60	10-34	78	123	42.5	75	30

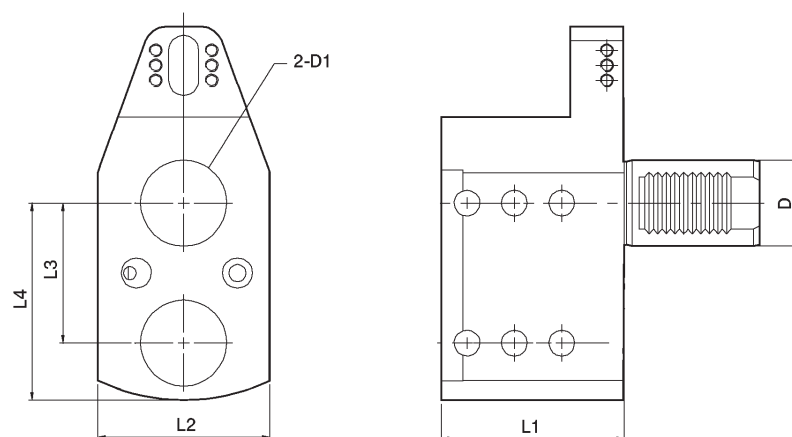


DIN 69880 STATIC HOLDERS

▼ STYLE: E2-X2

FEATURES:

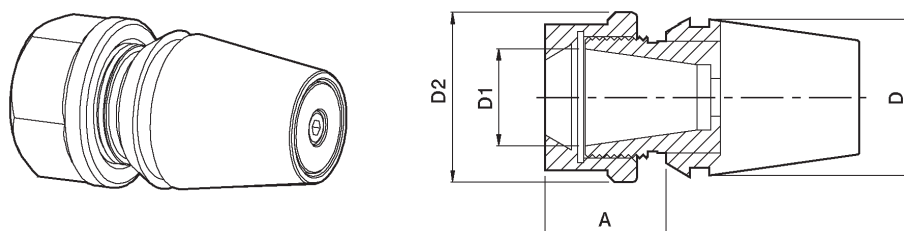
- External, internal coolant supply.



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	D1	L1	L2	L3	L4
51101432	E2-30-2 x 25 (1")-35	30	25 (1")	65	60	35	56.5
51101433	E2-40-2 x 40 (1-1/2")-65	40	40 (1-1/2")	85	80	65	91.5

▼ STYLE: TAPP-ER



UNIT: mm

ITEM NO.	MODEL	D	D1	D2	A
51101434	TAPP-ER16	ER25	ER16	32	25
51101435	TAPP-ER20	ER32	ER20	35	27
51101436	TAPP-ER25	ER40	ER25	42	30



A5 - VDI TOOL HOLDERS

TOOLS FOR TURNING MACHINES

A “TOOLS FOR TURNING MACHINES

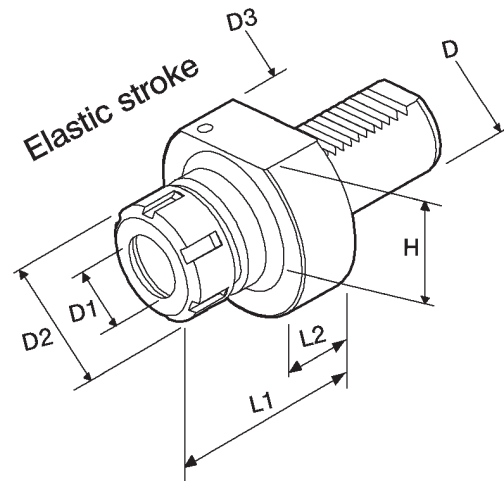


DIN 69880 STATIC HOLDERS

▼ STYLE: TAPPER

FEATURES:

- For collet DIN 6499
- External coolant supply.



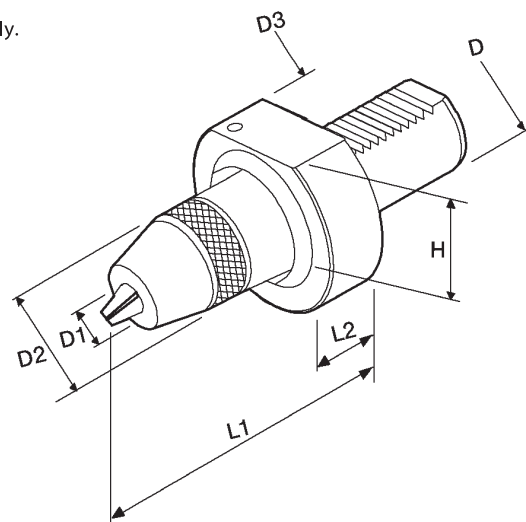
UNIT: mm

ITEM NO.	MODEL	D	D1	D2	D3	H	L1	L2
51101451	TAP-20-ER20	20	1-13	34	50	-	60	18
51101452	TAP-30-ER25	30	1-16	42	68	28	68	22
51101453	TAP-40-ER25	40	1-16	42	83	32.5	73	22
51101454	TAP-50-ER25	50	2-20	50	98	35	83	30
51101455	TAP-60-ER32	60	2-20	50	123	42.5	85	30

▼ STYLE: KETLESS DRILL CHUCK

FEATURES:

- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	D1	D2	D3	H	L1	L2
51101456	CHUCK-30-13	30	1-13	51	68	28	85	22
51101457	CHUCK-40-13	40	1-13	51	83	32.5	85	22
51101458	CHUCK-40-16	40	3-16	58	83	32.5	90	22
51101459	CHUCK-50-13	50	1-13	51	98	35	85	30
51101460	CHUCK-50-16	50	3-16	58	98	35	90	30



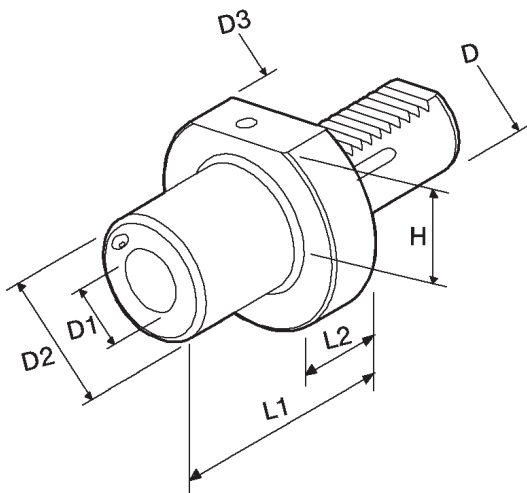
DIN 69880 STATIC HOLDERS



FEATURES:

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

▼ STYLE: F



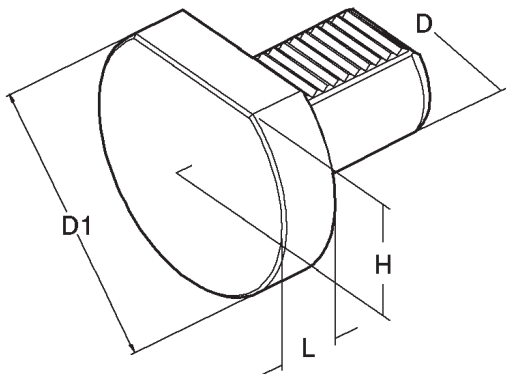
UNIT: mm

ITEM NO.	MODEL	D	D1	D2	D3	H	L1	L2
51101461	F20-MT1	20	MT1	-	50	-	23	-
51101462	F30-MT1	30	MT1	52	68	28	27	22
51101463	F30-MT2	30	MT2	58	68	28	43	22
51101464	F30-MT3	30	MT3	64	68	28	66	22
51101465	F40-MT1	40	MT1	55	83	32.5	36	22
51101466	F40-MT2	40	MT2	66	83	32.5	43	22
51101467	F40-MT3	40	MT3	72	83	32.5	58	22
51101468	F40-MT4	40	MT4	72	83	32.5	78	22
51101469	F50-MT1	50	MT1	55	98	35	36	30
51101470	F50-MT2	50	MT2	55	98	35	36	30
51101471	F50-MT3	50	MT3	60	98	35	44	30
51101472	F50-MT4	50	MT4	70	98	35	71	30
51101473	F60-MT3	60	MT3	58	123	42.5	36	30
51101474	F60-MT4	60	MT4	68	123	42.5	50	30

FEATURES:

- Made from plastic
- DIN 69880.

▼ PLUG



UNIT: mm

ITEM NO.	MODEL	D	D1	H	L
51101475	Z20	20	50	-	16
51101476	Z30	30	68	26.5	16
51101477	Z40	40	82	32	20
51101478	Z50	50	98	35	20
51101479	Z60	60	116	-	20

A “TOOLS FOR TURNING MACHINES

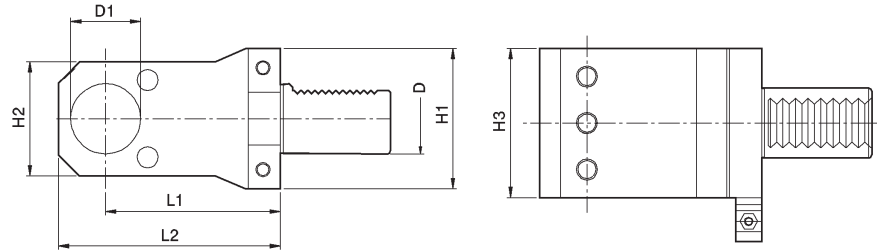


DIN 69880 AXIAL STATIC HOLDERS

FEATURES:

- External, internal coolant supply.

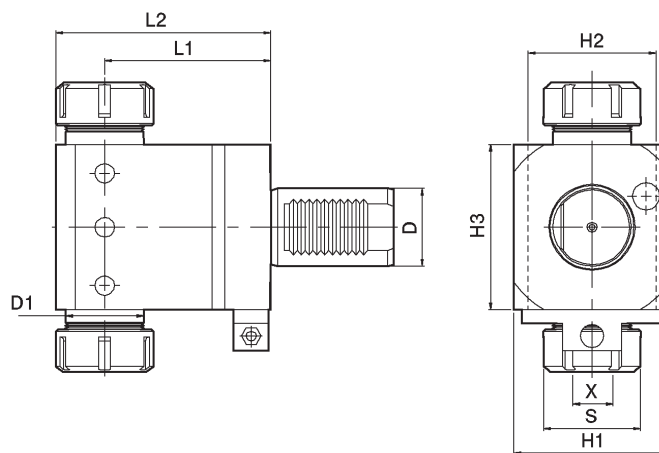
STYLE: T1



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	D1	H1	H2	H3	L1	L2
51101480	T1-30-32(1-1/4")-65	30	32(1-1/4")	65	52	62	65	90
51101481	T1-30-32(1-1/4")-85	30	32(1-1/4")	65	52	62	85	108
51101482	T1-30-32(1-1/4")-100	30	32(1-1/4")	65	52	62	100	123
51101483	T1-30-32(1-1/4")-120	30	32(1-1/4")	65	52	62	120	143
51101484	T1-40-32(1-1/4")-85	40	32(1-1/4")	80	65	85	85	112
51101485	T1-40-40(1-1/2")-85	40	40(1-1/2")	80	65	85	85	112
51101486	T1-40-40(1-1/2")-100	40	40(1-1/2")	80	65	85	100	127
51101487	T1-50-40(1-1/2")-100	50	40(1-1/2")	90	80	96	100	137
51101488	T1-50-50(2")-100	50	50(2")	90	80	96	100	137
51101489	T1-60-50(2")-100	60	50(2")	104	90	120	100	142
51101490	T1-60-60(2-3/8")-100	60	60(2-3/8")	104	90	120	100	142

STYLE: T1-SL



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	D1	X (CAPACITY)	S	H1	H2	H3	L1	L2
51101491	T1-30-32(1-1/4")-65-25 x 2	30	32(1-1/4")	ER25 1-16	42	65	52	62	65	90
51101492	T1-30-32(1-1/4")-85-25 x 2	30	32(1-1/4")	ER25 1-16	42	65	52	62	85	108
51101493	T1-30-32(1-1/4")-100-25 x 2	30	32(1-1/4")	ER25 1-16	42	65	52	62	100	123
51101494	T1-30-32(1-1/4")-120-25 x 2	30	32(1-1/4")	ER25 1-16	50	65	52	62	120	143
51101495	T1-40-32(1-1/4")-85-25 x 2	40	32(1-1/4")	ER25 1-16	50	80	65	85	85	112
51101496	T1-40-40(1-1/2")-85-32 x 2	40	40(1-1/2")	ER32 2-20	50	80	65	85	85	112
51101497	T1-40-40(1-1/2")-100-32 x 2	40	40(1-1/2")	ER32 2-20	50	80	65	85	100	127

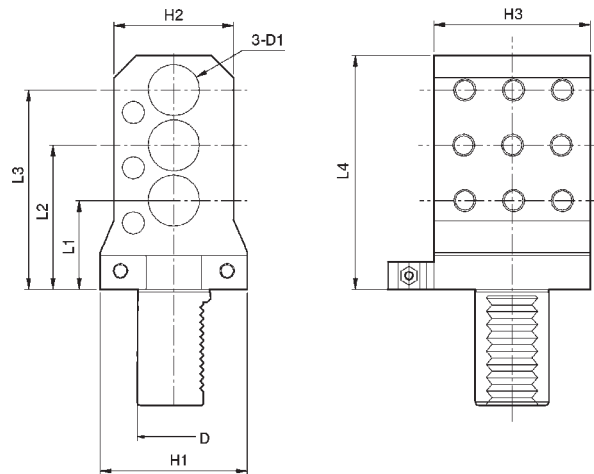


DIN 69880 AXIAL STATIC HOLDERS

✓ STYLE: T1-X3

FEATURES:

- External coolant supply.



UNIT: mm

ITEM NO.	MODEL	D	D1	H1	H2	H3	L1	L2	L3	L4
51101498	T1-30-3 x 25 (1")	30	25 (1")	65	65	62	42	85	128	148
51101499	T1-40-3 x 32(1-1/4")	40	32 (1-1/4")	80	65	85	50	85	120	148

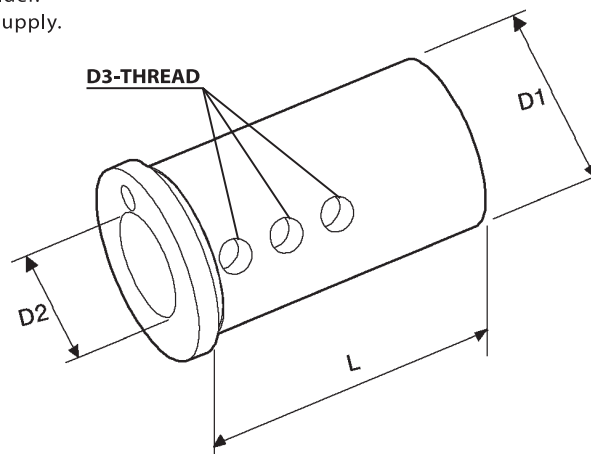


REDUCING SLEEVES

✓ STYLE: RS-W

FEATURES:

- For boring bar holder.
- External coolant supply.
- D3: Thread



UNIT: mm

ITEM NO.	D1	L	D2
51101504	20	45	E20-6(1/4")
51101505	20	45	E20-8(5/16")
51101506	20	45	E20-10(3/8")
51101507	25	55	E25-6(1/4")
51101508	25	55	E25-8(5/16")
51101509	25	55	E25-10(3/8")
51101510	25	55	E25-12(1/2")

UNIT: mm

ITEM NO.	D1	L	D2
51101511	32	60	E32-6(1/4")
51101512	32	60	E32-8(5/16")
51101513	32	60	E32-10(3/8")
51101514	32	60	E32-12(1/2")
51101515	40	75	E40-6(1/4")
51101516	40	75	E40-8(5/16")
51101517	40	75	E40-10(3/8")

UNIT: mm

ITEM NO.	D1	L	D2
51101518	40	75	E40-12(1/2")
51101519	50	85	E50-8(5/16")
51101520	50	85	E50-10(3/8")
51101522	50	85	E50-12(1/2")
51101523	50	85	E50-16(5/8")
51101524	50	85	E50-20(3/4")
51101525	50	85	E50-25(1")



A “ TOOLS FOR TURNING MACHINES

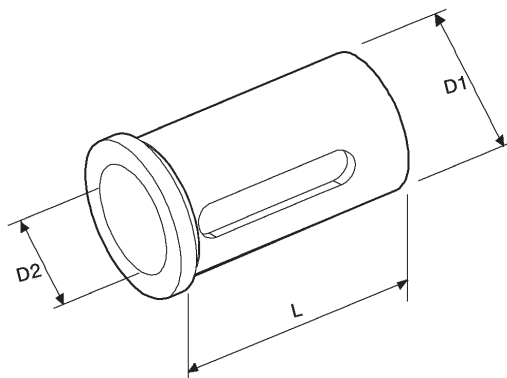


REDUCING SLEEVES

V STYLE: RS

FEATURES:

- For boring bar holder



UNIT: mm

ITEM NO.	D1	L	D2
51101526	20	50	E20-12(1/2")
51101527	20	50	E20-16(5/8")
51101528	25	50	E25-16(5/8")
51101529	25	50	E25-20(3/4")
51101530	32	60	E32-16(5/8")
51101531	32	60	E32-20(3/4")
51101532	32	60	E32-25(1")

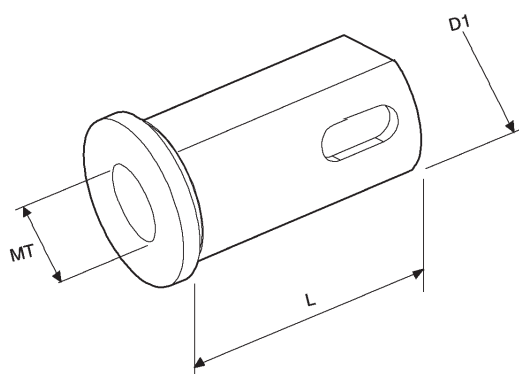
UNIT: mm

ITEM NO.	D1	L	D2
51101533	40	75	E40-16(5/8")
51101534	40	75	E40-20(3/4")
51101535	40	75	E40-25(1")
51101536	40	75	E40-32(1-1/4")
51101537	50	85	E50-32(1-1/4")
51101538	50	85	E50-40(1-1/2")

V STYLE: RS-MT

FEATURES:

- Tool holders with morse taper according to DIN 228.



UNIT: mm

ITEM NO.	D1	L	MT
51101539	25	50	E25-MT1
51101540	25	50	E25-MT2
51101541	32	60	E32-MT1
51101542	32	60	E32-MT2
51101543	32	60	E32-MT3
51101544	40	75	E40-MT1
51101545	40	75	E40-MT2

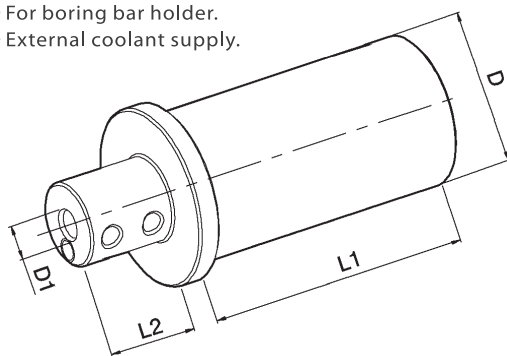
UNIT: mm

ITEM NO.	D1	L	MT
51101546	40	75	E40-MT3
51101547	40	75	E40-MT4
51101548	50	85	E50-MT1
51101549	50	85	E50-MT2
51101550	50	85	E50-MT3
51101551	50	85	E50-MT4

V STYLE: RS-WE

FEATURES:

- For boring bar holder.
- External coolant supply.



UNIT: mm

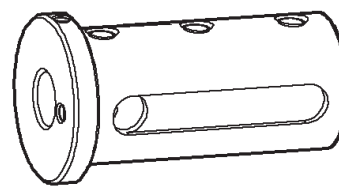
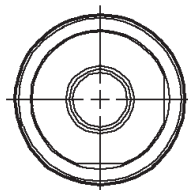
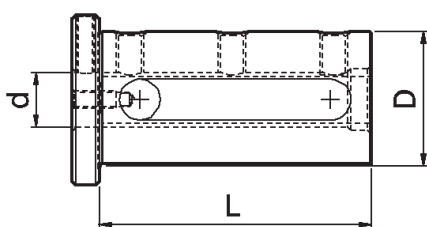
ITEM NO.	D	D1	L1	L2
51101564	32	WE32-6 (1/4")	60	20
51101565	40	WE25-6 (1/4")	70	20
51101566	32	WE32-8 (5/16")	60	35
51101567	40	WE25-8 (5/16")	70	35
51101568	32	WE32-10 (3/8")	60	35
51101569	40	WE25-10 (3/8")	70	35
51101570	32	WE32-12 (1/2")	60	35
51101571	40	WE25-12 (1/2")	70	35



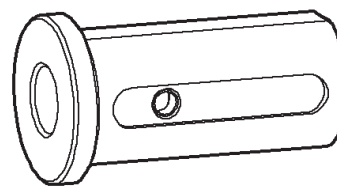
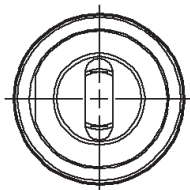
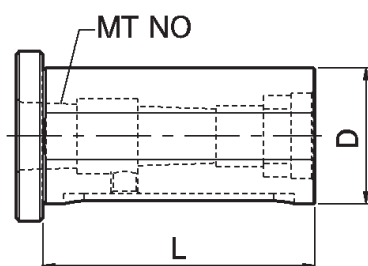
REDUCING SLEEVES



➤ STYLE: V1



➤ STYLE: V2



UNIT: mm

ITEM NO.	MODEL	D	d	L	V	MT.ON .
51101592	V32-8 (5/16")	32	8 (5/16")	80	V1	-
51101593	V32-10 (3/8")	32	10 (3/8")	80	V1	-
51101594	V32-12 (1/2")	32	12 (1/2")	80	V1	-
51101595	V32-16 (5/8")	32	16 (5/8")	80	V1	-
51101596	V32-20 (3/4")	32	20 (3/4")	80	V1	-
51101597	V32-25 (1")	32	25 (1")	80	V1	-
51101598	V32-MTA1	32	-	80	V2	1
51101599	V32-MTA2	32	-	80	V2	2
51101600	V32-MTA3	32	-	80	V2	3
51101601	V40-8 (5/16")	40	8 (5/16")	80	V1	-
51101602	V40-10 (3/8")	40	10 (3/8")	80	V1	-
51101603	V40-12 (1/2")	40	12 (1/2")	80	V1	-
51101604	V40-16 (5/8")	40	16 (5/8")	80	V1	-
51101605	V40-20 (3/4")	40	20 (3/4")	80	V1	-
51101606	V40-25 (1")	40	25 (1")	80	V1	-
51101607	V40-32 (1-1/4")	40	32 (1-1/4")	80	V1	-

UNIT: mm

ITEM NO.	MODEL	D	d	L	V	MT.ON .
51101608	V40-MTA1	40	-	80	V2	1
51101609	V40-MTA2	40	-	80	V2	2
51101610	V40-MTA3	40	-	80	V2	3
51101611	V40-MTA4	40	-	80	V2	4
51101612	V50-8 (5/16")	50	8 (5/16")	80	V1	-
51101613	V50-10 (3/8")	50	10 (3/8")	80	V1	-
51101614	V50-12 (1/2")	50	12 (1/2")	80	V1	-
51101615	V50-16 (5/8")	50	16 (5/8")	80	V1	-
51101616	V50-20 (3/4")	50	20 (3/4")	80	V1	-
51101617	V50-25 (1")	50	25 (1")	80	V1	-
51101618	V50-32 (1-1/4")	50	32 (1-1/4")	80	V1	-
51101619	V50-40 (1-1/2")	50	40 (1-1/2")	80	V1	-
51101620	V50-MTA1	50	-	80	V2	1
51101621	V50-MTA2	50	-	80	V2	2
52201622	V50-MTA3	50	-	80	V2	3
51101623	V50 MTA4	50	-	80	V2	4

A5 - VDI TOOL HOLDERS

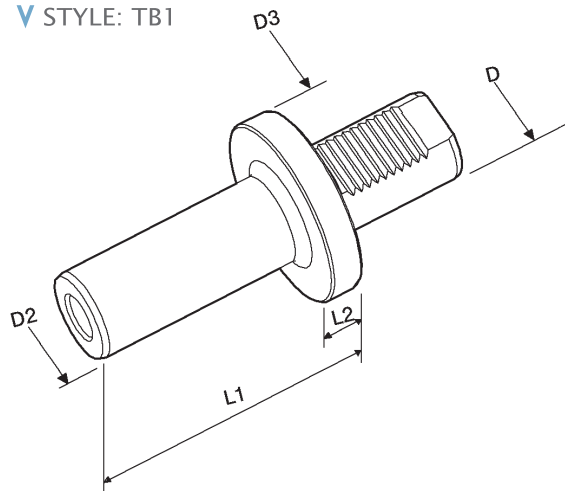
TOOLS FOR TURNING MACHINES

A “TOOLS FOR TURNING MACHINES



DIN 69880 TEST MANDRELS

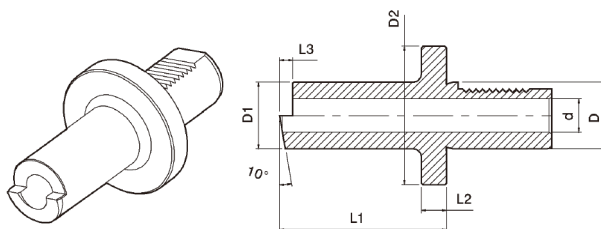
▼ STYLE: TB1



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	D2	D3	L1	L2
51101556	TB1-30	30	30	68	115	15
51101557	TB1-40	40	40	83	115	15
51101558	TB1-50	50	50	98	115	15

▼ STYLE: TB2



UNIT: mm

ITEM NO.	MODEL	D (DIN 69880)	d	D1	D2	L1	L2	L3
51101559	TB2-20	20	20	40	50	100	15	8
51101560	TB2-30	30	20	40	68	100	15	8
51101561	TB2-40	40	20	40	83	100	15	8
51101562	TB2-50	50	20	40	98	100	15	8
51101563	TB2-60	60	20	40	123	100	15	8



TESTING BARS



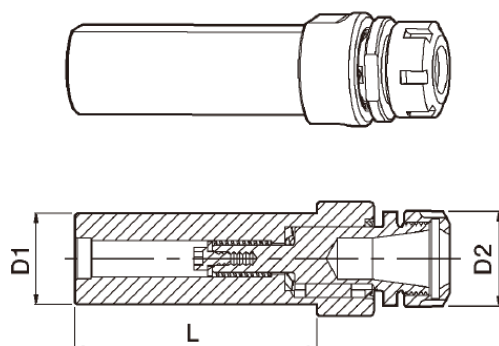
UNIT: mm

ITEM NO.	D	D1	L
51101572	ER16	10	60
51101573	ER20	13	60
51101574	ER25	15	65
51101575	ER32	18	80
51101576	ER40	18	80
51101577	ER50	25	100



WER TAPPING CHUCKS

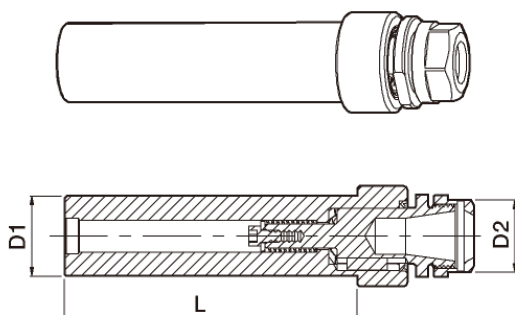
▼ STYLE: WER-SL



UNIT: mm

ITEM NO.	MODEL	X (CAPACITY)	D1	L	D2
51101578	SL20-WER16-80	ER16	20	80	30
51101579	SL20-WER20-80	ER20	20	80	34
51101580	SL25-WER16-80	ER16	25	80	30
51101581	SL25-WER20-80	ER20	25	80	34
51101582	SL25-WER25-80	ER25	25	80	42
51101583	SL25-WER25-80	ER25	20	80	42
51101584	SL32-WER32-80	ER32	20	80	50

▼ STYLE: WER-BC



UNIT: mm

ITEM NO.	MODEL	X (CAPACITY)	D1	L	D2
51101585	BC20-WER16-130	ER16	20	130	30
51101586	BC20-WER20-130	ER20	20	130	34
51101587	BC25-WER16-130	ER16	25	130	30
51101588	BC25-WER20-130	ER20	25	130	34
51101589	BC25-WER25-130	ER25	25	130	42
51101590	BC25-WER25-130	ER25	20	130	42
51101591	BC32-WER32-130	ER32	20	130	50

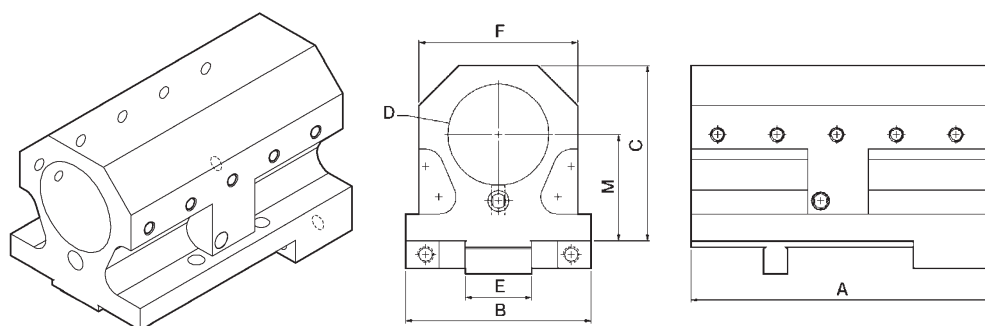


BORING BAR HOLDER

▼ STYLE: LTC

FEATURES:

- External, internal coolant supply.



UNIT: mm

ITEM NO.	MODEL	TYPE	D	A	B	C	E	F
51101628	LTC50-76.2-80-L	CLT-200I	76.2	229	140	100	50	120

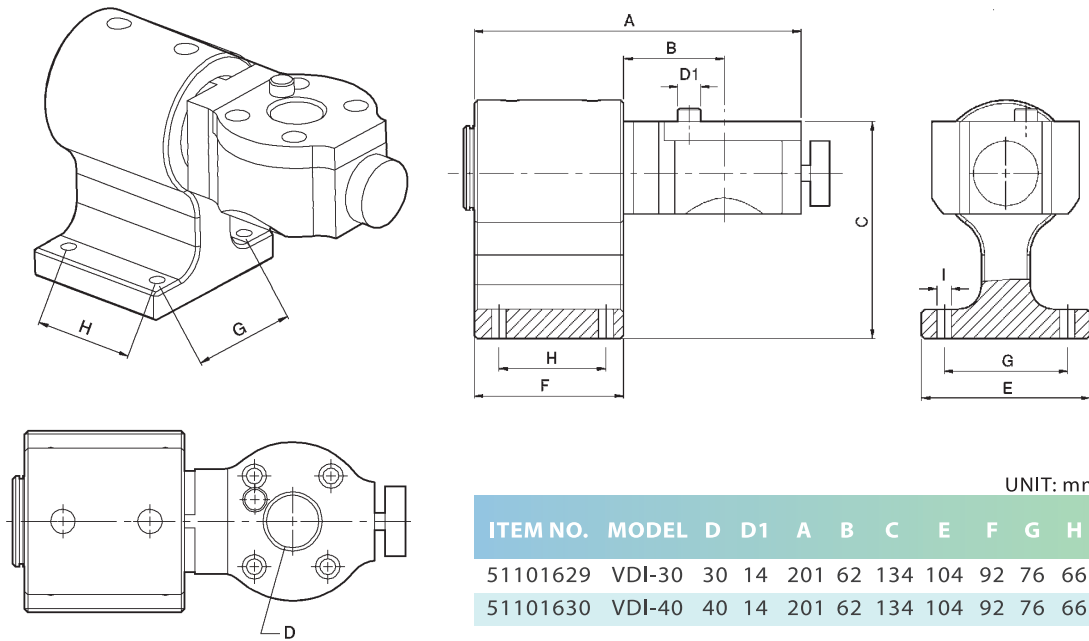


A “TOOLS FOR TURNING MACHINES



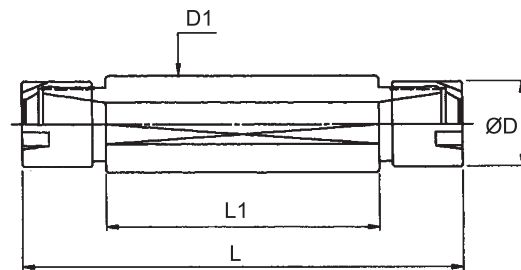
TOOL LOCKING FIXTURES

✓ STYLE: DIN



ST / ER STRAIGHT SHANK COLLET CHUCK SYSTEM

WITH DOUBLE HEADS M TYPE
FOR CNC LATHE ONLY

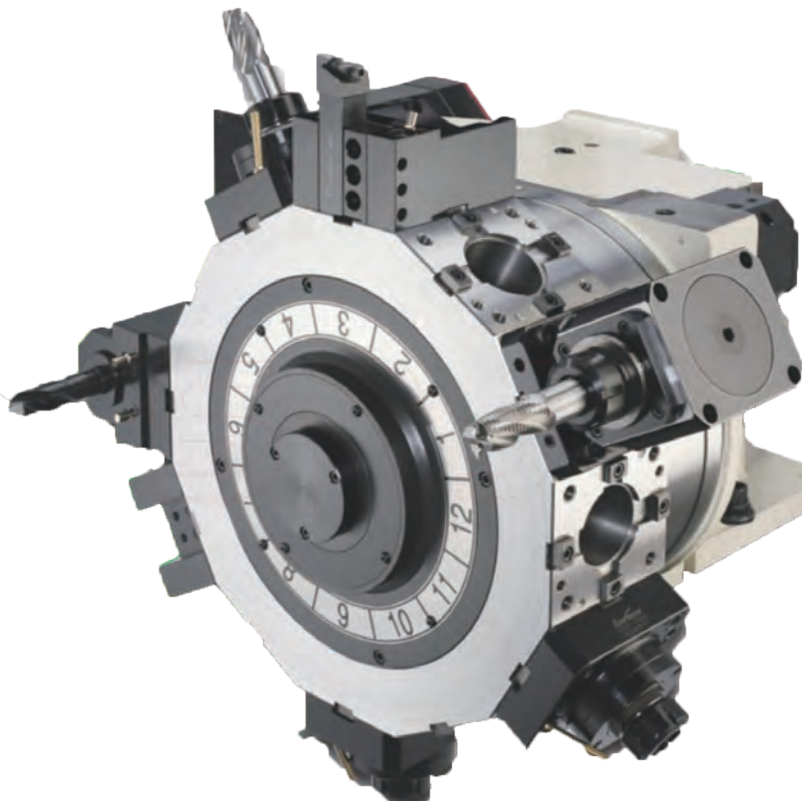


UNIT: mm

ITEM NO.	TYPE (ØD1-ER-L1)	L	L1	ØD	COLLET	WEIGHT(kgs)
52101340	ST20-ER11M2-40	70	40	16	ER11	0.2
52101341	ST20-ER11M2-78	108	78	16	ER11	0.3
52101342	ST20-ER16M2-40	82	40	22	ER16	0.2
52101343	ST20-ER16M2-70	112	70	22	ER16	0.32
52101344	ST25-ER16M2-50	92	50	22	ER16	0.25
52101345	ST25-ER16M2-80	122	80	22	ER16	0.35
52101346	ST25-ER20M2-50	92	50	28	ER20	0.3
52101347	ST25-ER20M2-80	122	80	28	ER20	0.35



ROTARY & STATIC TOOL HOLDERS (JAPAN SERIES+KOREA SERIES--BMT)



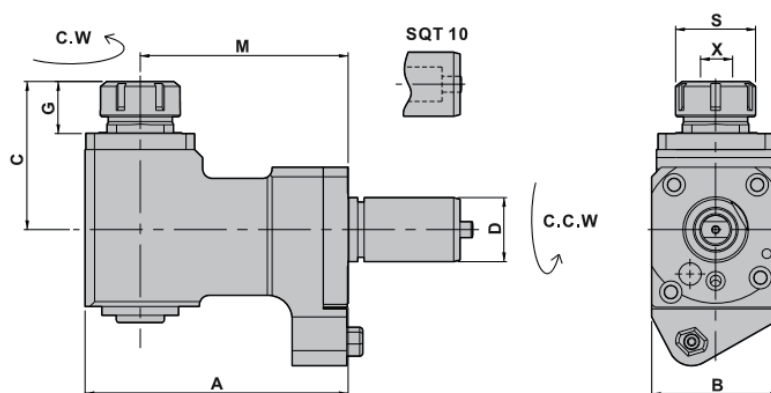
A5 - VDI TOOL HOLDERS



H TYPE MILLING AND DRILLING HEAD FOR MAIN SPINDLE (90°)

TYPE : MAZAK SUPER QUICK TURN

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



UNIT: mm

ITEM NO.	MACHINE TYPE	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101755	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	QTN100M/150M SQT10M	40	1-16 ER25	42	5000	137	75	90	29	100	5352100
51101756	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	QTN200M/250M	40	1-16 ER25	42	5000	167	80	90	29	130	5352100
51101757		SQT15/18M	40	2-20 ER32	50	5000	167	80	92	32.5	130	5362132
51101758		SQT15/18M	40	2-20 ER32	50	(1:2) 8000	169	80	102	32.5	130	5362132-1
51101759		SQT28/30M	50	2-20 ER32	50	5000	203	96	125	40	160	5382002
51101760	QTNX300M/350M	SQT28/30M	50	2-26 ER40	63	5000	203	96	130	45	160	5382002-ER40

TOOLS FOR TURNING MACHINES

A “TOOLS FOR TURNING MACHINES



H TYPE TAPPING HEAD (90°)

UNIT: mm

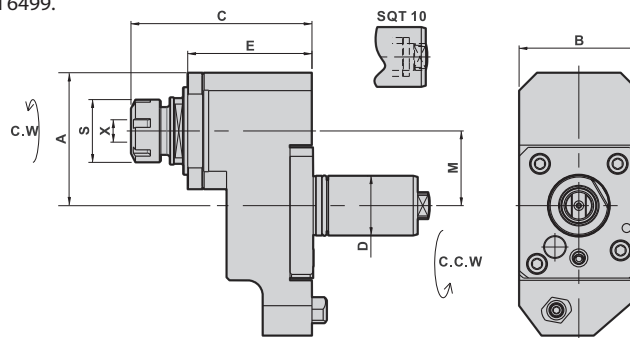
ITEM NO.	MACHINE TYPE		STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101761	SQT10M-12D SQT200M-16D	15M-16D 250M-16D	QTN100M/150M SQT10M	40	1-10 ER16	30	3000	137	75	106	46	100	5352300
51101762	SQT15M-12D SQT200M-12D	18M-12D 250M-12D	QTN200M/250M SQT15M/18M	40	1-13 ER20	35	3000	167	80	108	48	130	5362300



V TYPE MILLING AND DRILLING HEAD OFFSET (0°)

TYPE : MAZAK SUPER QUICK TURN

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



UNIT: mm

ITEM NO.	MACHINE TYPE		STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101763	SQT10M-12D	15M-16D	QTN100M/150M	40	1-16 ER25	42	5000	88	75	103	90	50	50352700-25A
51101764	SQT200M-16D	250M-16D	SQT10M					88	75	103	79	50	5352700
51101765							5000	89	80	116	81.5	50	5362200
51101766	SQT15M-12D SQT200M-12D	18M-12D 250M-12D	QTN200M/250M SQT15M/18M	40	1-16 ER25	42	(1:2) 8000	89	75	116	84	50	*5362201
51101767					2-20 ER32	50	5000	89	80	122	81.5	50	5362232
51101768				50	2-20ER32	50	5000	108	96	122	86.5	70	5382100
51101769	QTNX300M/350M		SQT128M/30M	50	3-26 ER40	63	5000	108	96	137	86.5	70	5382100-ER40

*2X SPEED



V TYPE TAPPING HEAD OFFSET (0°)

UNIT: mm

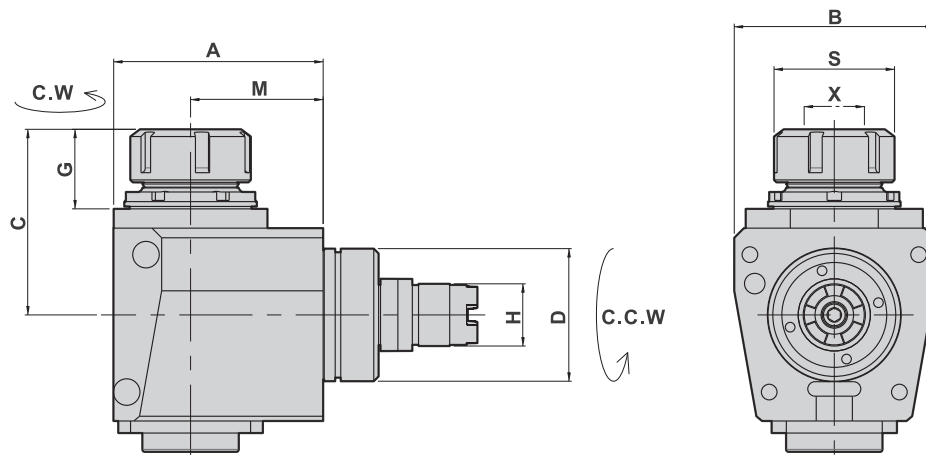
ITEM NO.	MACHINE TYPE		STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101770	SQT10M-12D	15M-16D	QTN100M/150M	40	1-10 ER16	30	4000	88	75	118	79	50	5352800
51101771	SQT200M-16D	250M-16D	SQT10M		1-13 ER20	35	4000	88	75	118	79	50	5352800-TER20
51101772	SQT15M-12D SQT200M-12D	18M-12D 250M-12D	QTN200M/250M SQT15M/18M	40	1-13 ER20	35	4000	89	80	120	82	50	5362400



RADIAL MILLING AND DRILLING HEAD (90°)

TYPE : WASINO A12

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



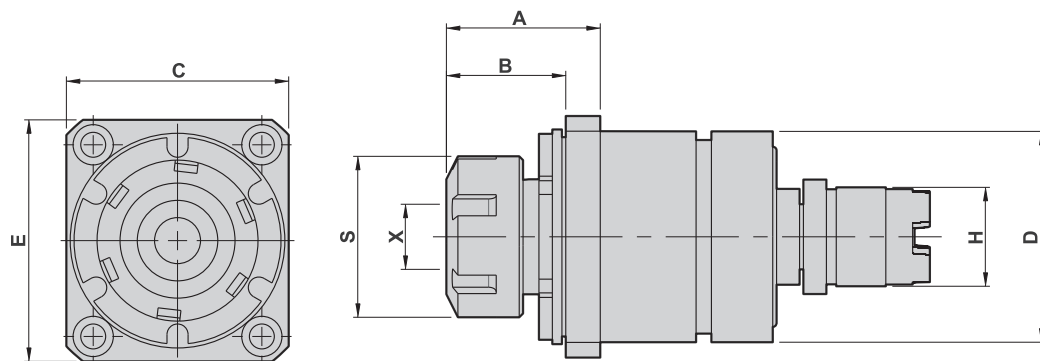
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	H	MODEL
51101773	A-12	55	1-13 ER20	35	5000	87	83	73	29	55	25.8	DF55WA-20-55
51101774		55	2-20 ER32	50	5000	87	83	77	33	55	25.8	DF55WA-32-55



AXIAL MILLING AND DRILLING HEAD (0°)

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



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101775	A-12	55	1-13 ER20	35	6000	63	25	58	63	25.8	DA55WA-ER20
51101776		55	2-20 ER32	50	6000	67	29	58	63	25.8	DA55WA-ER32



A5 - VDI TOOL HOLDERS

TOOLS FOR TURNING MACHINES

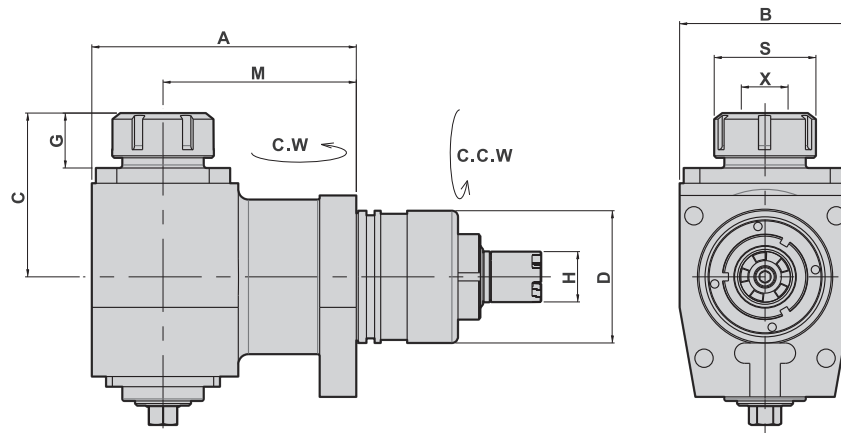
A “TOOLS FOR TURNING MACHINES



RADIAL MILLING AND DRILLING HEAD (90°)

TYPE : WASINO A18

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



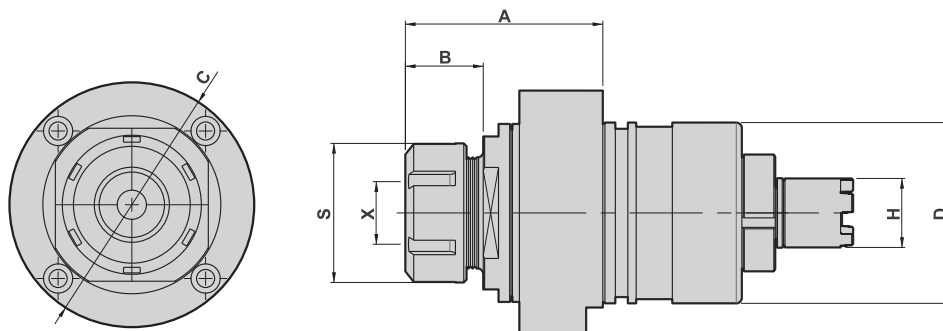
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	H	MODEL
51101777	A-18	65	2-20 ER32	50	5000	130	84	78	25	98	24.8	DF65WA-32-95



AXIAL MILLING AND DRILLING HEAD (0°)

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



UNIT: mm

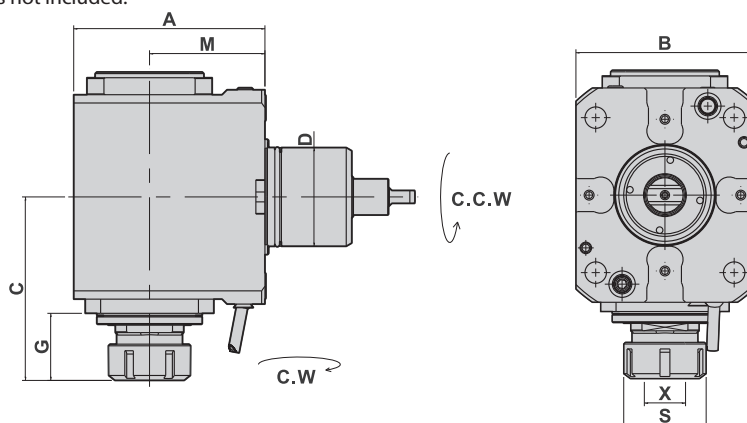
ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	H	MODEL
51101778	A-18	65	1-16 ER25	40	6000	110	70	88	24.8	DA65WA-70L-ER25
51101779		65	1-16 ER25	40	6000	140	100	88	24.8	DA65WA-100L-ER25
51101780		65	2-20 ER32	50	6000	80	41	88	24.8	DA65WA-41L-ER32
51101781		65	2-20 ER32	50	6000	120	80	88	24.8	DA65WA-80L-ER32



RADIAL MILLING AND DRILLING HEAD (90°)

TYPE : MORI SEIKI

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



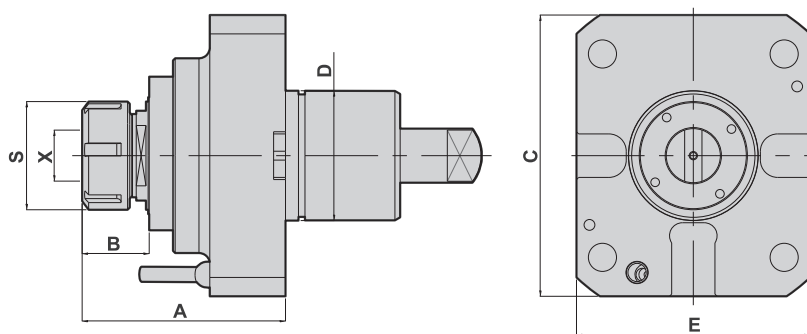
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101782	NL1500/2000 NL2500/3000	60	1-13 ER32	50	5000	130	108	93	31	90	E1500-T32207
51101783	NL1500/2000 NL2500/3000	60	2-20 ER32	50	5000	116	108	111	40	70	E1500-DF60-32-70S



AXIAL MILLING AND DRILLING HEAD (0°)

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



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	MODEL
51101784	NL1500/2000 NL2500/3000	60	1-13 ER32	50	6000	96	31	130	108	E1500-T32207
51101785	NL1500/2000 NL2500/3000	60	2-20 ER32	50	6000	73	31	130	108	E1500-DF60-32-70S
51101786	NL1500/2000 NL2500/3000	60	3-26 ER40	63	6000	109	46	130	108	E1500-DA60-ER40



A5 - VDI TOOL HOLDERS

TOOLS FOR TURNING MACHINES

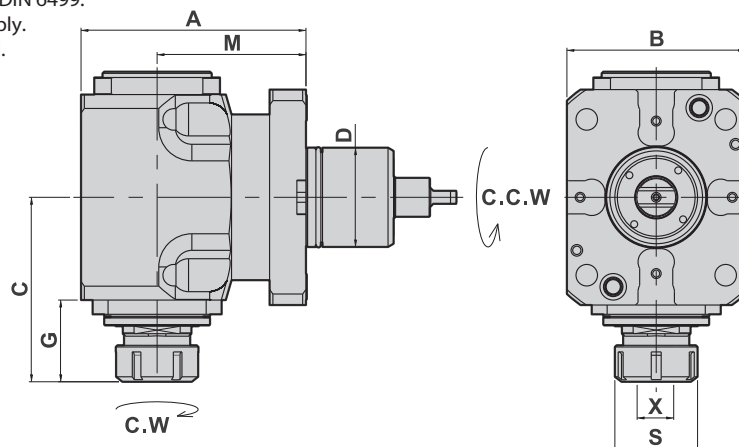
A “TOOLS FOR TURNING MACHINES



RADIAL MILLING AND DRILLING HEAD HEAVY CUTTING (90°)

TYPE : MORI SEIKI

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



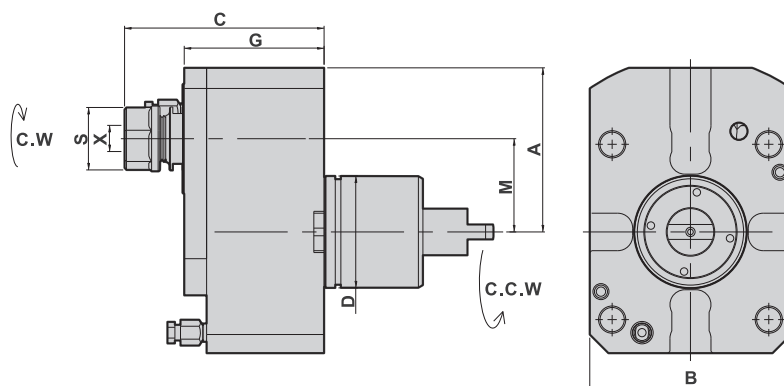
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101787	NL1500/2000 NL2500/3000	60	2-20 ER32	50	4000	136	108	110	37	90	E1500-TA32207
51101788	NL1500/2000 NL2500/3000	60	3-26 ER32	63	4000	136	108	116	54	90	E1500-TA32217



AXIAL MILLING AND DRILLING HEAD OFFSET (0°)

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



UNIT: mm

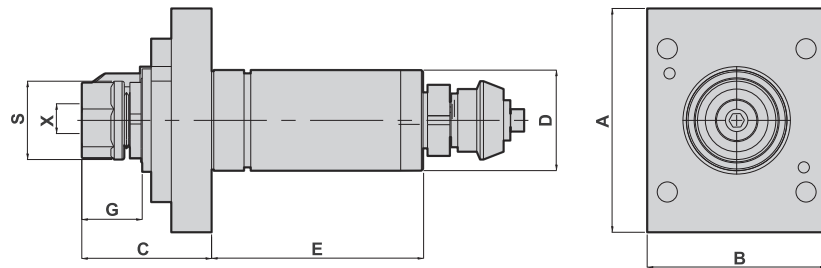
ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101789	NL1500/2000	60	1-13 ER20	35	5000	88	108	106	75	50	E1500-DA60-20-50
51101790	NL2500/3000		1-16 ER25	42	5000	88	108	108	75	50	E1500-DA60-25-50



AXIAL MILLING AND DRILLING HEAD (0°)

TYPE : MIYANO

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

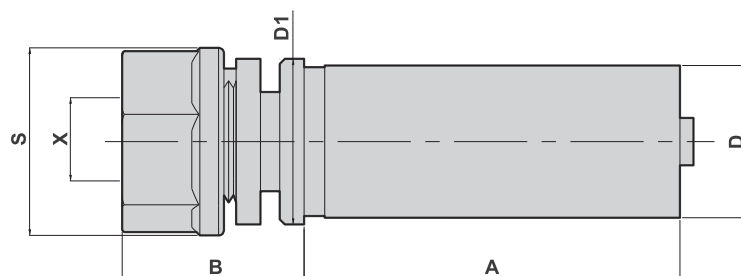


UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	G	MODEL
51101791	BNE-34S3 BNE-51S	45	1-13 ER20	35	6000	70	74	60	57	28	BNE-DA38-ER20
51101792	BNE	45	1-13 ER20	35	6000	92	72	52	81	25	BNE-DA45-ER20
51101793	BNE	45	1-16 ER25	42	6000	92	72	53	81	31	BNE-DA45-ER25
51101794	BND-51	45	1-13 ER20	35	6000	86	80	55	44.5	28	BND-DA45-ER20-S
51101795	BNJ-34S -42S	45	1-13 ER20	35	6000	92	72	50	116	28	BNJ-DA45-ER20



AUTO TAPPER TYPE HOLDER (0°)



UNIT: mm

ITEM NO.	D	X (CAPACITY)	S	A	B	D1	MODEL
51101796	25	1-10 ER16	30	70.5	30	30	TE-ø25-ER16
51101797	32	1-13 ER20	35	65	40	37	TE-ø32-ER20
51101798	40	1-16 ER25	42	75	43	45	TE-ø40-ER25
51101799	50	2-20 ER32	50	85	48	55	TE-ø50-ER32



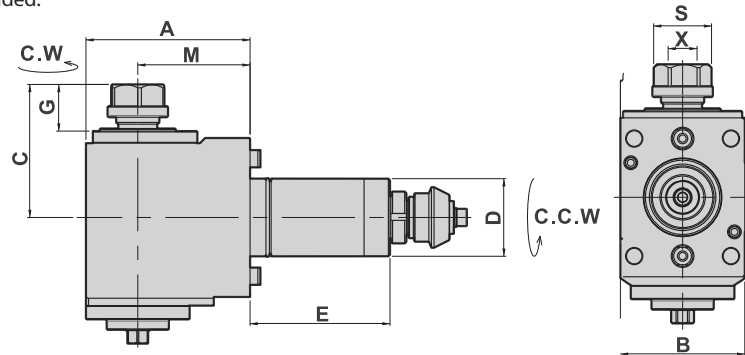
A “TOOLS FOR TURNING MACHINES



RADIAL MILLING AND DRILLING HEAD (90°)

TYPE : MIYANO

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



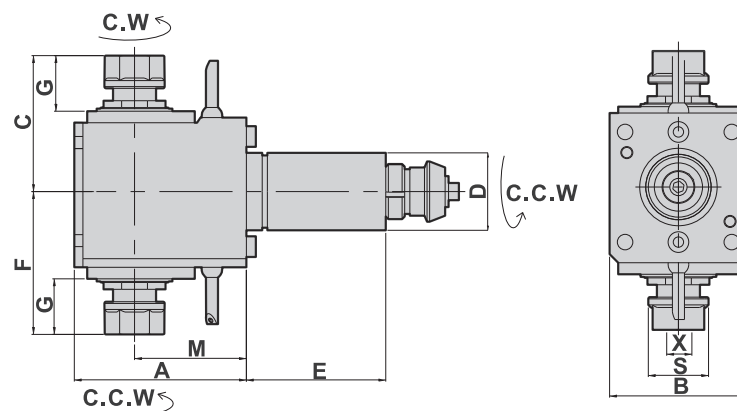
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	G	M	MODEL
51101800	BNE-3453-51S	45	1-13 ER20	35	5000	95	72	74	81	24.5	65	BNE-DF45-20-65
51101801	BNE-3453-51S	45	1-16 ER25	42	5000	95	72	79	81	25.5	65	BNE-DF45-20-65
51101802	BND-51	45	1-13 ER20	35	5000	95	80	72	44.5	25	70	BNE-DF45-20-65
51101803	BNJ-34S-42S	45	1-13 ER20	35	5000	95	72	74	116	24.5	65	BNE-DF45-20-65
51101804	BNJ-34S-42S	45	1-16 ER25	42	5000	95	72	74	116	24.5	65	BNE-DF45-20-65



RADIAL MILLING AND DRILLING HEAD DOUBLE HEADS (90°)

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



UNIT: mm

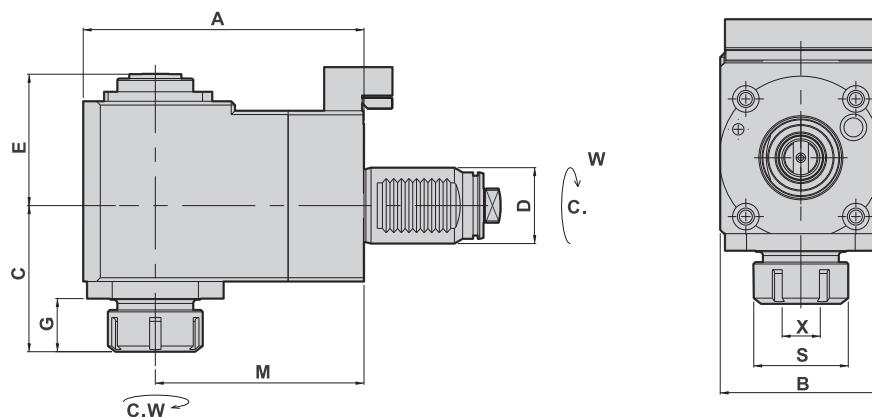
ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	F	E	G	M	MODEL
51101805	BNE-3453/51S	45	1-16 ER25	42	4000	98	72	92	92	81	33	65	BNE-DF45-25-65D



RADIAL MILLING AND DRILLING HEAD (90°)

TYPE : MURATEC

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



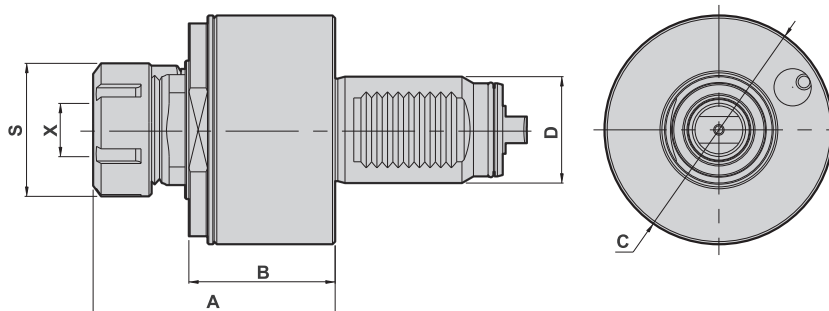
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101806	MT20	40	2~20 ER20	50	5000	148	85	77	28	110	FR40-M-1809-32-110



AXIAL MILLING AND DRILLING HEAD (0°)

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



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	MODEL
51101807	MT20	40	2~20 ER32	50	6000	91	55	86	DA40-M-1809-ER32
51101808	MT25		ER32						

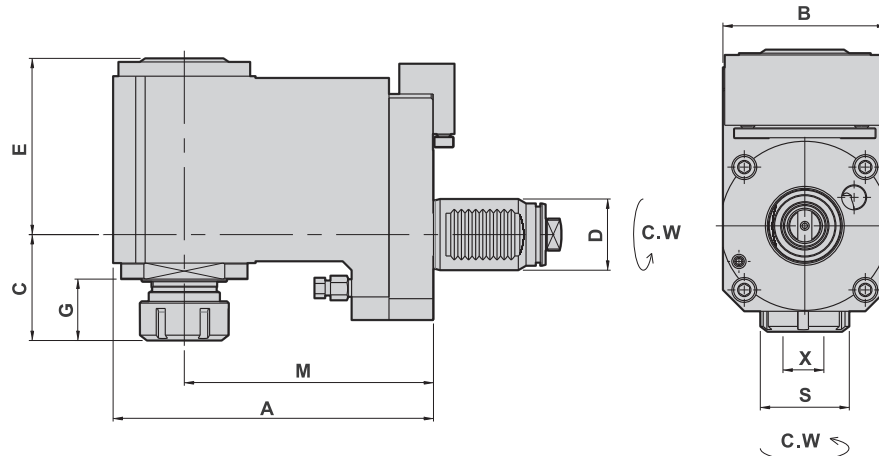


A “ TOOLS FOR TURNING MACHINES

RADIAL DRILLING AND MILLING HEAD OFFSET (90°)

TYPE : MURATEC

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



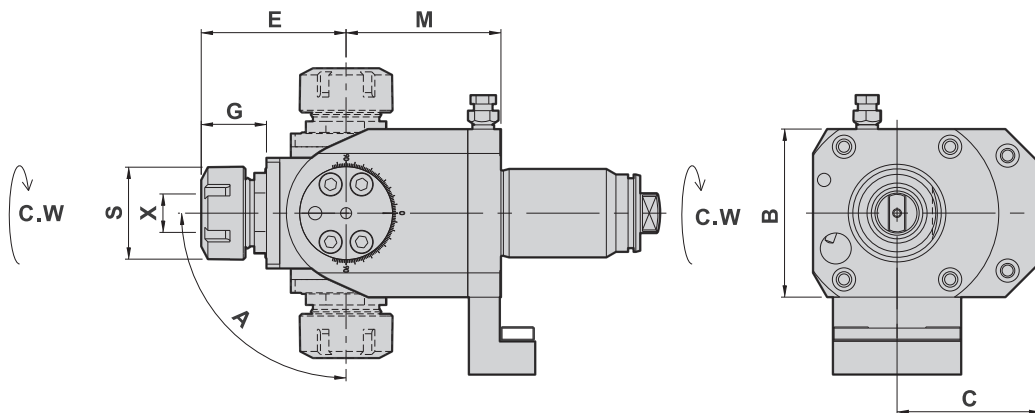
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	E	M	MODEL
51101809	MT25	40	2~20 ER32	50	5000	180	92	58	33.5	99	140	MT25-BR40-M-1809-32-140



ANGULAR HEAD

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



UNIT: mm

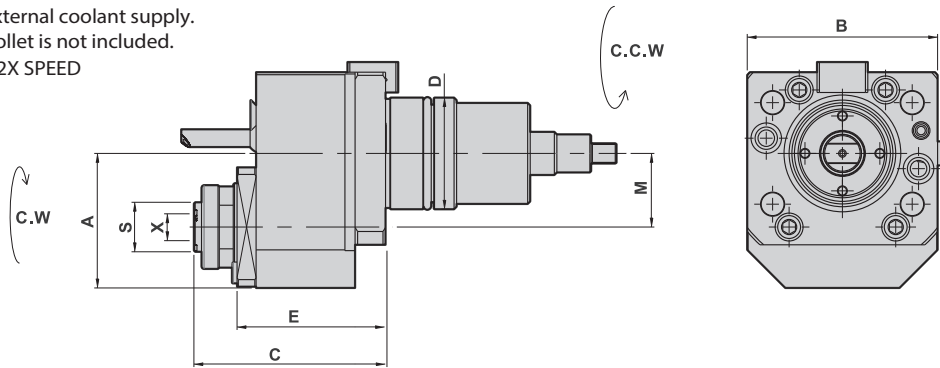
ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	E	M	MODEL
51101810	MT25 MT20	40	1-16 ER25	42	4000	±90°	76	65	29	65	70	DA40-M-1809-25B



AXIAL DRILLING AND MILLING HEAD OFFSET (0°)

TYPE : NAKAMURA

- To be used for collet DIN 6499.
 - External coolant supply.
 - Collet is not included.
- ※ 2X SPEED



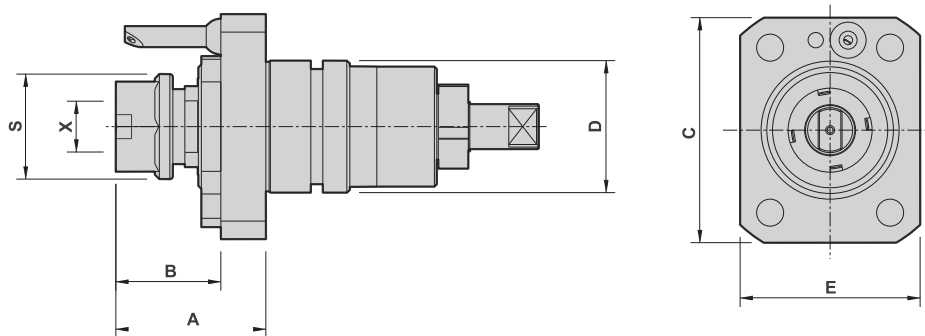
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	i	A	B	C	E	M	MODEL
51101811	WT-100	40	1~10 ER16	19.5	8000	1:2	53	75	75.5	58.5	29	DA44NA-16A-29/I
51101812	WT-150	40	1~13 ER20	23	8000	1:2	77	84	93	76	45	DA55NA-20A-45/I



AXIAL DRILLING AND MILLING HEAD (0°)

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



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	MODEL
51101813	WT-100	44	1-13 ER20	35	6000	50	35	75	60	DA44NA-ER20
51101814	WE-150	55	1-16 ER25	42	6000	50	35	84	79	DA55NA-ER25
51101815	WE-300	65	2-20 ER32	50	6000	56.5	34	100	96	DA65NA-ER32



A5 - VDI TOOL HOLDERS

TOOLS FOR TURNING MACHINES

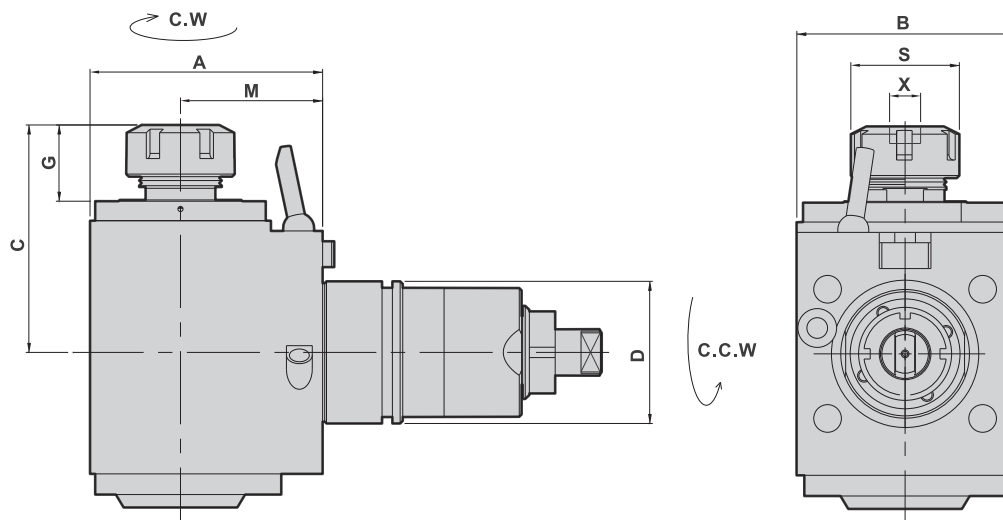
A “TOOLS FOR TURNING MACHINES



RADIAL MILLING AND DRILLING HEAD (90°)

TYPE : NAKAMURA

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



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	i	A	B	C	G	M	MODEL
51101816	WT-100	44	1-13 ER20	35	5000	1:1	86	75	78.5	25	60	DF44NA-20A-60
51101817	WT-150	55	1-16 ER25	42	5000	1:1	90	84	88	30	55	DF55NA-20A-55
51101818	WT-150	55	1-16 ER25	42	8000	1:2	90	84	88	30	55	DF55NA-20A-55/I
51101819	WT-300	65	2-20 ER32	50	5000	1:1	108	96	96	33	65	DF65NA-32A-65

* 2X SPEED



RADIAL TAPPING HEAD (90°)

UNIT: mm

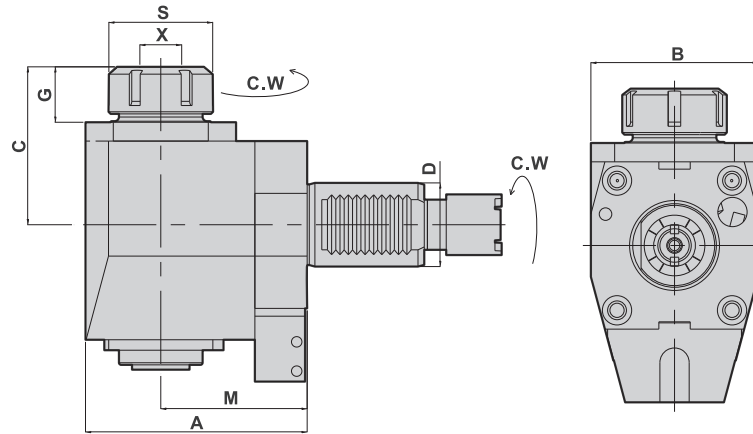
ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	F	G	M	MODEL
51101820	WT-100	44	1-10 ER16	30	3000	92	75	90.5	48.5	37	60	TDF44NA-16-60



RADIAL MILLING AND DRILLING HEAD (90°)

TYPE : OKUNA

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



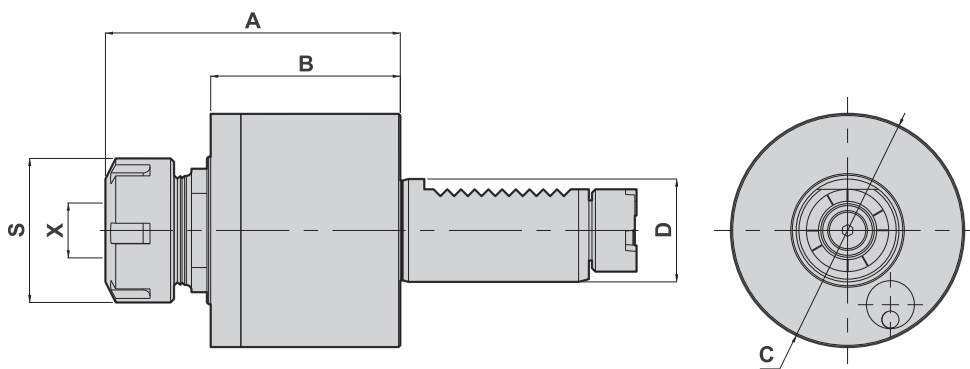
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101821	L300M	40	2-20 ER32	50	5000	106	80	75	26	70	OK-FL40-32-70



AXIAL MILLING AND DRILLING HEAD (0°)

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



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	MODEL
51101822	L200M	30	1-13 ER20	35	6000	84.5	57	68	OK-DA30-ER20
51101823	L200M	30	1-16 ER25	42	6000	86	55	68	OK-DA30-ER25
51101824	L300M	40	2-20 ER32	50	6000	106	74	86	OK-DA40-ER32



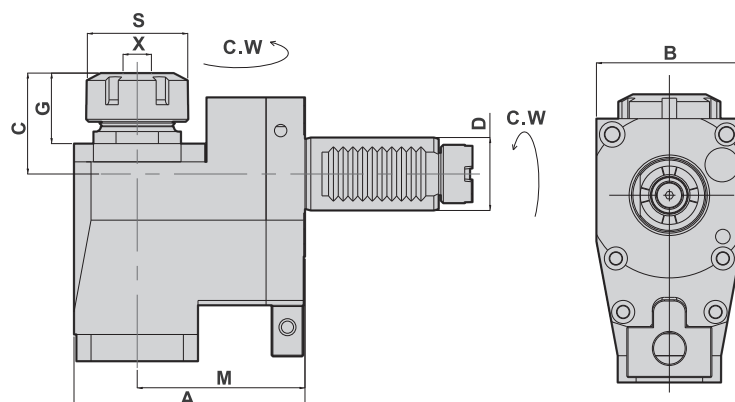
A “ TOOLS FOR TURNING MACHINES



RADIAL MILLING AND DRILLING HEAD OFFSET(90°)

TYPE : OKUMA

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



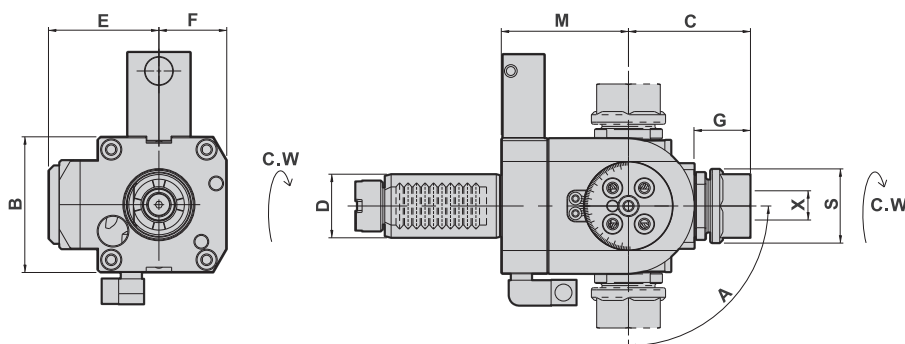
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101825	L200M	30	1~13 ER20	35	5000	95	64	43	30	69	OK-BL30-20-69-N
51101826	L200M	30	1~16 ER25	42	5000	95	64	42.5	30	69	OK-BL30-25-69-N
51101827	L300M	40	2~20 ER32	50	5000	124	80	42.5	29	90	OK-BL40-32-90



ANGULAR HEADS

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



UNIT: mm

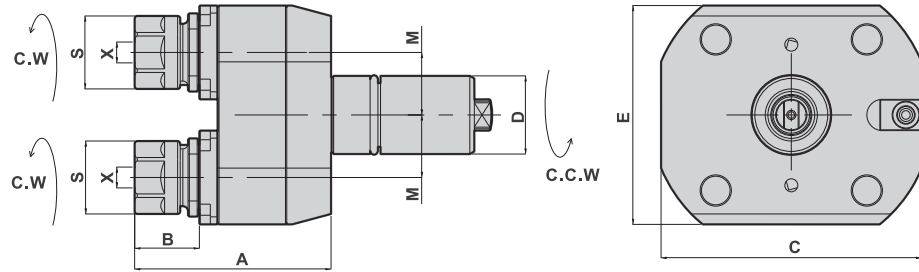
ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	F	G	M	MODEL
51101828	L200M	30	1~13 ER20	35	4000	±90°	64	59	54	32	27	67	OK-DA30-20B
51101829	L300M	40	1~16 ER25	42	4000	±90°	76	65	65	38	29	70	OK-DA40-25B



AXIAL MILLING AND DRILLING HEAD DOUBLE COLLETS, Y OFFSET (0°)

TYPE : TAKAMAZ

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



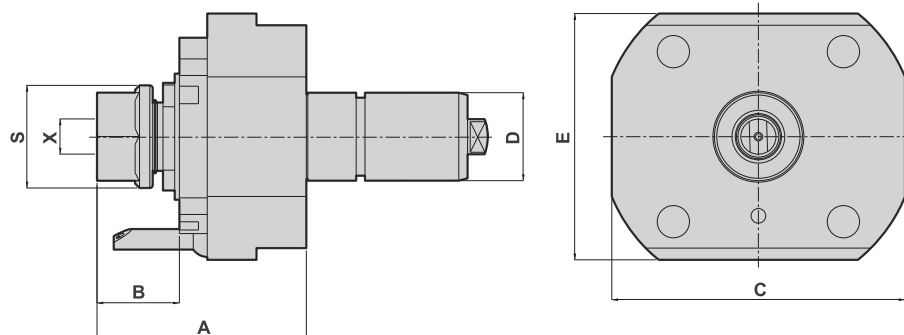
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	M	MODEL
51101830	XY-120	30	1-10 ER16	30	5000	77.5	27	100	84	24	TA-DA30-16DY



AXIAL MILLING AND DRILLING HEAD (0°)

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



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	MODEL
51101831	XY-120	30	1-13 ER20	35	6000	71.5	28	100	84	TA-DA30-ER20
51101832	XY-120	30	1-16 ER25	42	6000	74.5	31	100	84	TA-DA30-ER25



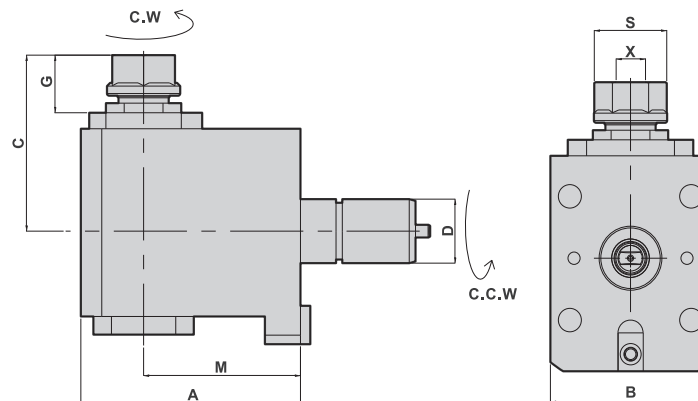
A “TOOLS FOR TURNING MACHINES



RADIAL MILLING AND DRILLING HEAD (90°)

TYPE : TAKAMAZ

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



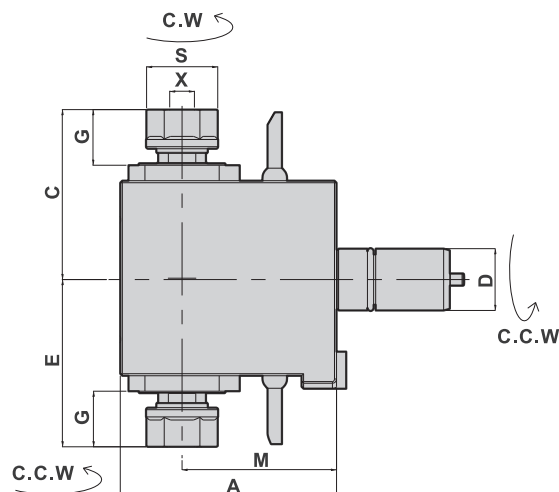
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101833	XY-120	30	1-13 ER20	35	5000	105	77	82.5	27	75	TA-DF30-20-75



RADIAL MILLING AND DRILLING HEAD DOUBLE HEAD (90°)

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



UNIT: mm

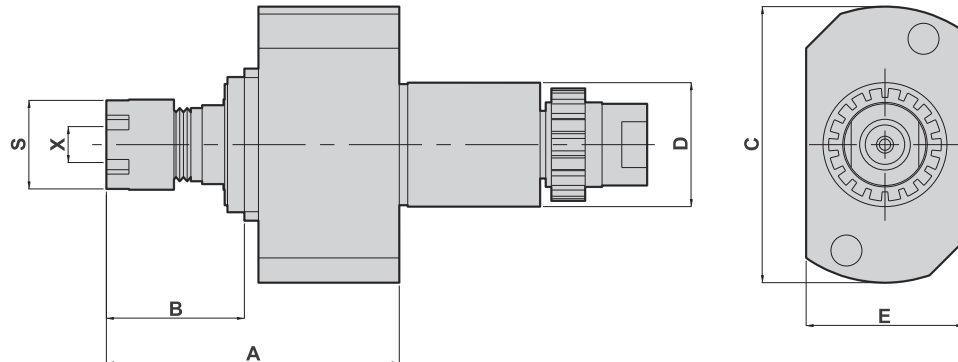
ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	G	M	MODEL
51101834	XY-120	30	1-13 ER20	35	4000	105	77	82.5	81	27	75	TA-DF30-20-75D



AXIAL MILLING AND DRILLING HEAD (0°)

TYPE : STAR

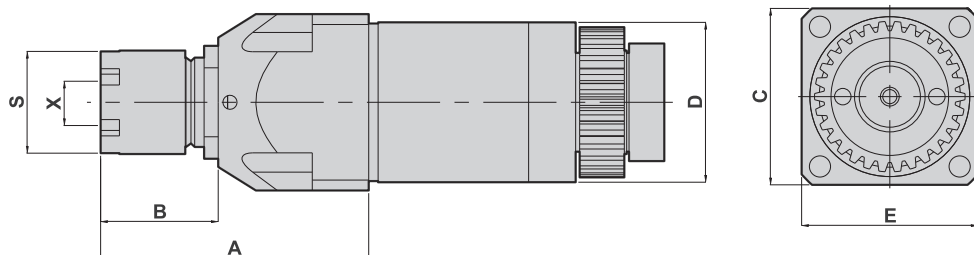
- To be used for collet DIN 6499.
- External coolant supply.
- Collet is not included.



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	MODEL
51101835	ECAS 12/16/20	22	1-7 ER11M	17	6000	52	24.5	49	28	ST-DA22-ER11M
51101836	SR 16R/20R	22	1-10 ER16M	22	6000	59	31.5	49	28	ST-DA22-ER16M

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



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	MODEL
51101837	SR 16R/20R SR 32R	34	1-7 ER11M	17	6000	41	18	37.5	37.5	ST-DA34-S7163-ER11M
51101838	SV 12 SV 20	34	1-10 ER16M	22	6000	57	25	37.5	37.5	ST-DA34-S7155-ER16M
51101839	SV 32 SV 32 JII	34	1-10 ER16M	22	6000	36.5	24.5	37.5	37.5	ST-DA34-S7150-ER16M



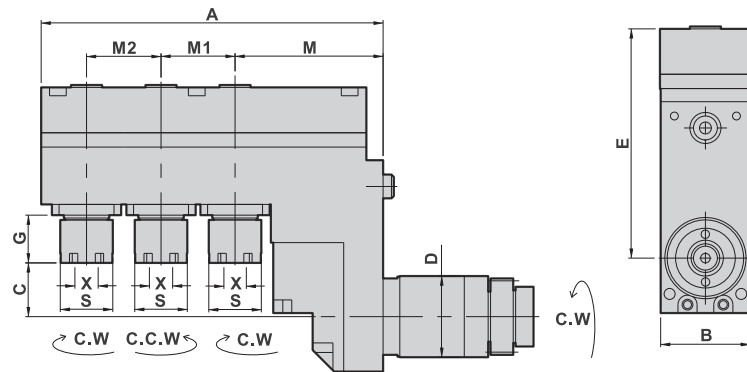
A “TOOLS FOR TURNING MACHINES



RADIAL MILLING AND DRILLING HEAD OFFSET (90°)

TYPE : STAR

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



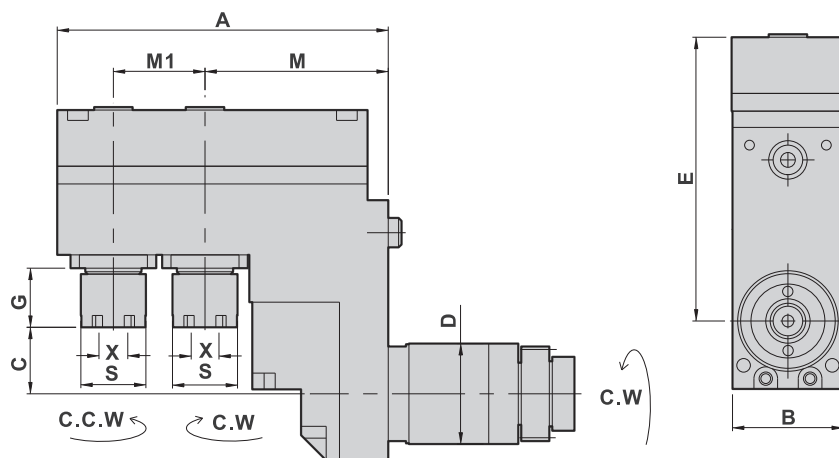
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	G	M	M1	M2	MODEL
51101840	SR-20R	34	1-10 ER16M	22	4000	145	37.5	20.5	96	22	32	34	31	STAR-BR34-16M
51101841	SR-32J	34	1-10 ER16M	22	4000	154	37.5	15	96	28	65	34	34	STAR-BR34-16M-3C-32J



RADIAL DRILLING AND MILLING HEAD DOUBLE HEAD OFFSET (90°)

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



UNIT: mm

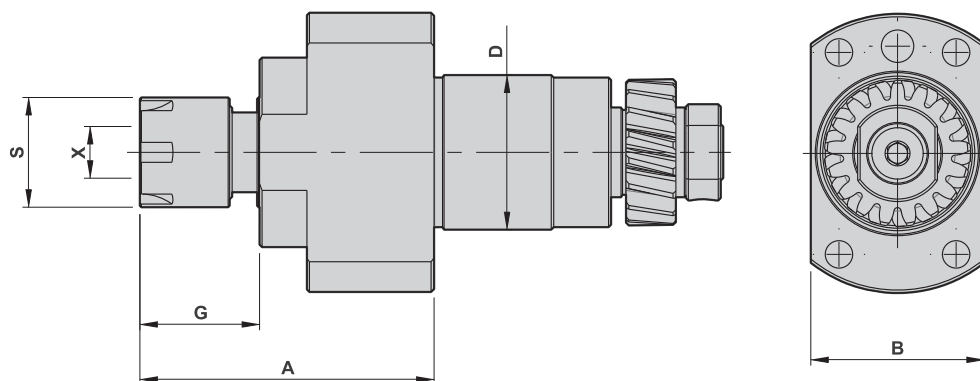
ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	G	M	M1	MODEL
51101842	SR-20R	34	1-10 ER16M	22	4000	112	38	20.5	96	22	62	31	STAR-BR34-16M-2C



AXIAL MILLING AND DRILLING HEAD (0°)

TYPE : CITIZEN

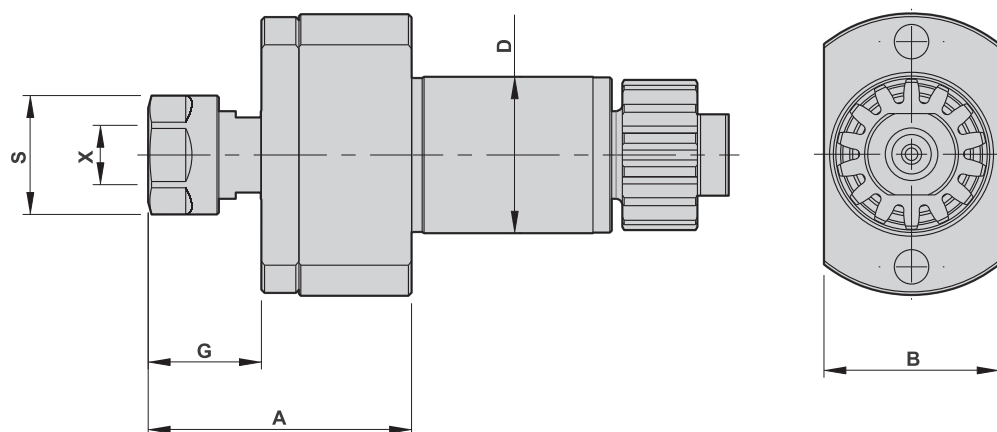
- To be used for collet DIN 6499.
- External coolant supply.
- Collet is not included.



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	G	MODEL
51101843	L20E/7M9	3	1-10 ER16M	22	6000	59	35	24	GSC-1210-DA31-ER16M

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



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	G	MODEL
51101844	L20E	25	1-7 ER11M	19	6000	42	28	18	GSE-3307-DA25-ER11



A5 - VDI TOOL HOLDERS

TOOLS FOR TURNING MACHINES

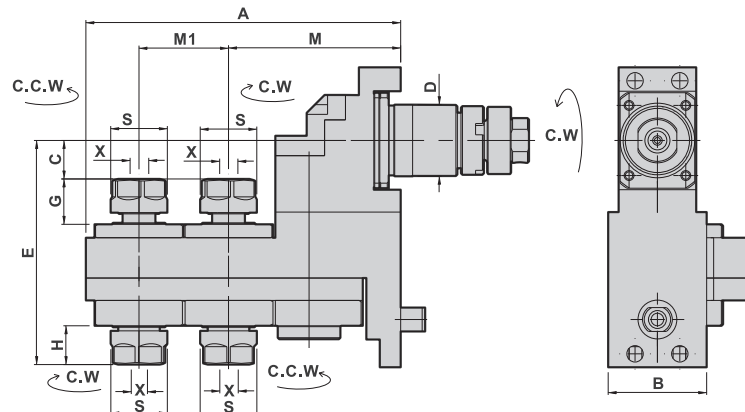
A “ TOOLS FOR TURNING MACHINES



RADIAL MILLING AND DRILLING HEAD MULTI HEAD -OFFSET (90°)

TYPE : CITIZEN

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



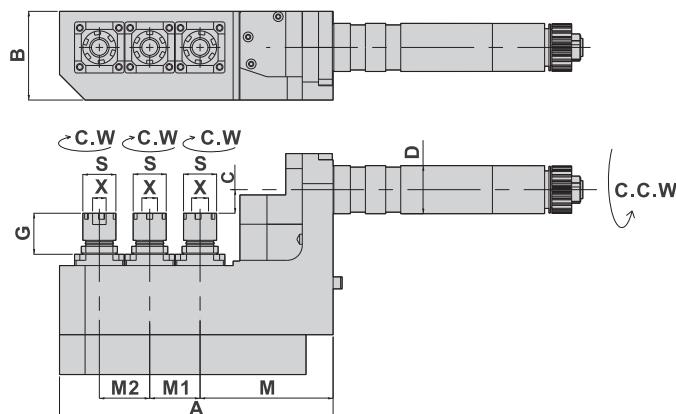
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	G	H	M	M1	MODEL
51101845	K12/16E	24	1-7 ER11M	19	4000	106	33	13	94	15	13	27.7	30	GSE-2007-DB24-11-4



RADIAL MILLING AND DRILLING HEAD TRIPLE HEADS-OFFSET (90°)

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



UNIT: mm

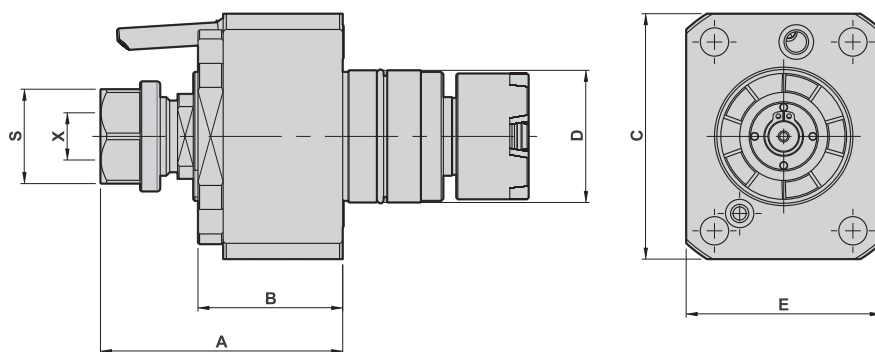
ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	M1	M2	MODEL
51101846	L520 GSE910	32	1-10 ER16M	22	4000	180	51	19	24	88.5	33.5	33.5	BR32-3C-910
51101847	L520 GSE910	32	1-10 ER16M	22	4000	182	59	19	24	88.5	33.5	33.5	BR32-3C-1110



AXIAL MILLING AND DRILLING HEAD (0°)

TYPE : TAKAHASHI

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



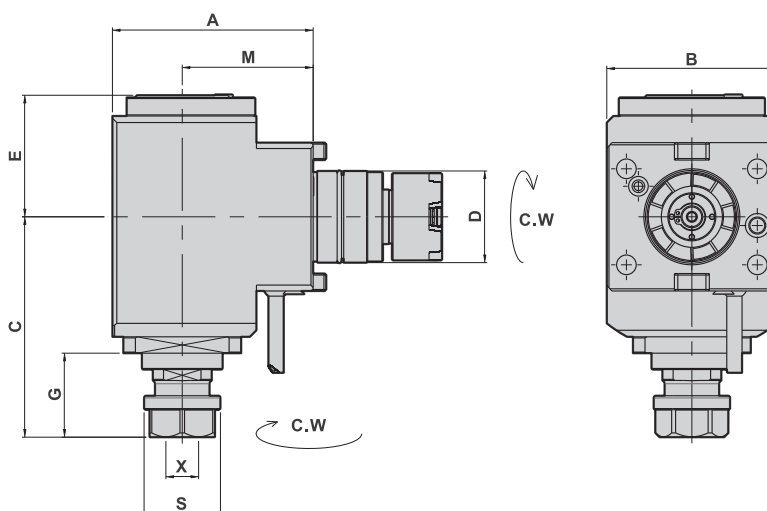
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	MODEL
51101848	LD1	24	1-13 ER20	35	6000	77	46	78	62	DA42-HH-ER20



RADIAL MILLING AND DRILLING HEAD (90°)

- To be used for collet DIN 6499.
- External coolant supply.
- Collet is not included.
- ※ 2X SPEED.



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	i	A	B	C	E	G	M	MODEL
51101849	LD1	42	1-13 ER20	35	10000	1:2	92	78	101	56	38.5	60	DF42-HH-20-60I



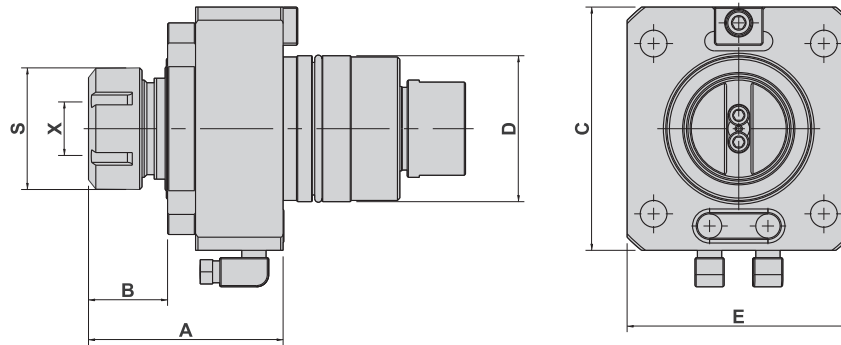
A “TOOLS FOR TURNING MACHINES



AXIAL MILLING AND DRILLING HEAD (0°)

TYPE : TAKISAWA

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



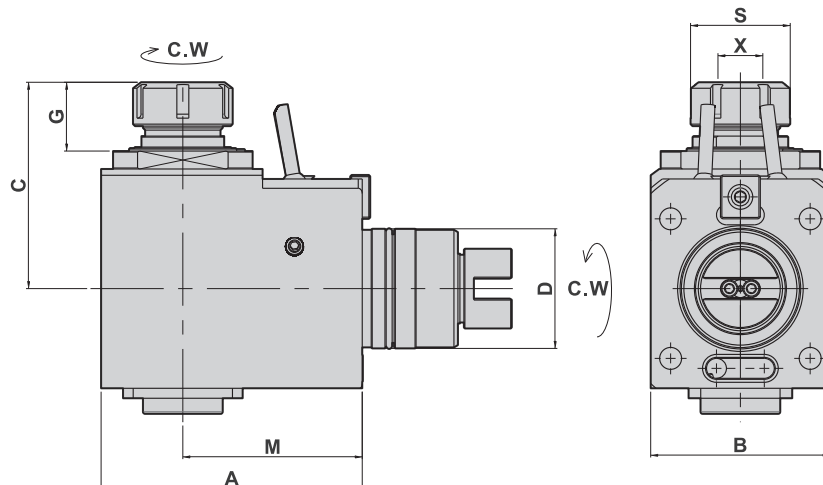
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	MODEL
51101850	EX308	60	2-20 ER32	50	6000	80.5	35	92	106	EX308-DA60-K-ER32



RADIAL MILLING AND DRILLING HEAD (90°)

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



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M	MODEL
51101851	EX308	60	2-20 ER32	50	5000	131	90	103.5	34.5	90	EX308-DA60-K-32-90

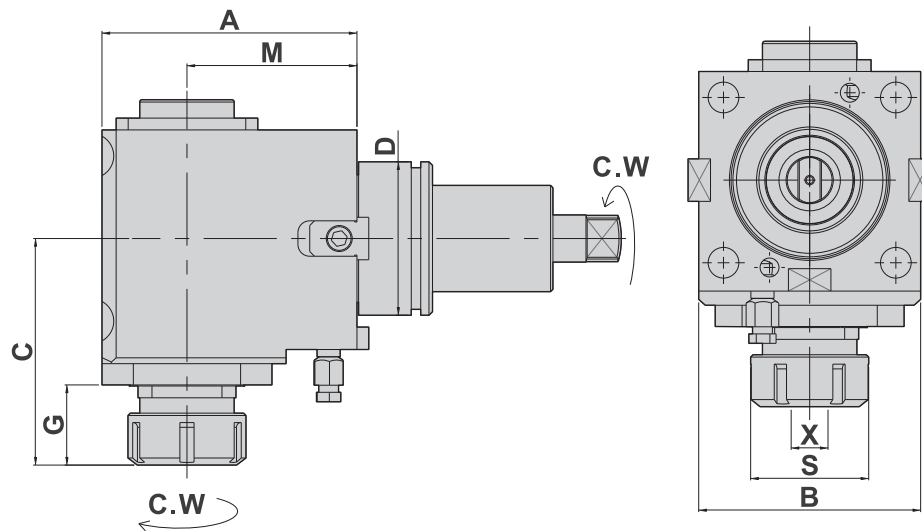


RADIAL MILLING AND DRILLING HEAD (90°)



TYPE : DAEWOO / HWACHEON / SMEC / HYUNDAI - WIA

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



UNIT: mm

ITEM NO.	MODEL	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	M
51101852	DW220-DF45-20-65	BMT45	45	1-13 ER20	35	5000	95	75	77.5	30	65
51101853	DW230-DF55-25-60	BMT55	55	1-16 ER25	42	5000	86	85	81	31	60
51101854	DW300-DF65-32-72	BMT65	65	2-20 ER32	50	5000	108	94	96	34	72
51101855	DW300-DF65-32-85	BMT65	65	2-20 ER32	50	5000	121	94	96.5	34.5	85
51101856	DW300-DF65-32-100	BMT65	65	2-20 ER32	50	5000	137	94	96.5	34.5	100
51101857	DW350-DF75-40-60	BMT75	75	3-26 ER40	63	5000	105	112	110.5	44	60
51101858	DW350-DF75-40-70	BMT75	75	3-26 ER40	63	5000	115	112	106.5	39	70
51101859	DW350-DF75-40-90	BMT75	75	3-26 ER40	63	5000	135	112	106.5	39	90
51101860	DW350-DF75-40-125	BMT75	75	3-26 ER40	63	5000	170	112	110.5	44	125
51101861	DW700-DF85-50-110	BMT85	85	10-34 ER50	78	5000	136	125	141.5	50.5	110

A5 - VDI TOOL HOLDERS

TOOLS FOR TURNING MACHINES

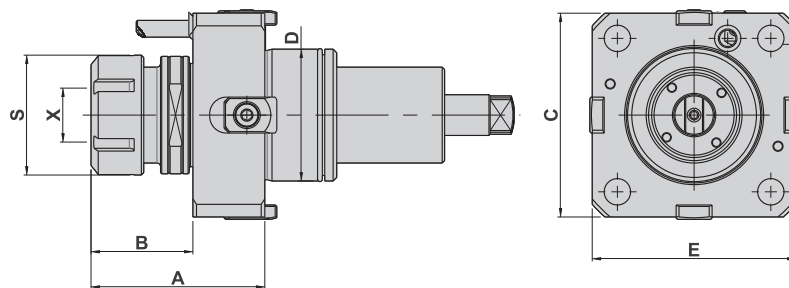
A “TOOLS FOR TURNING MACHINES



AXIAL MILLING AND DRILLING HEAD (0°)

TYPE : DAEWOO / HWACHEON / SMEC / HYUNDAI - WIA

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



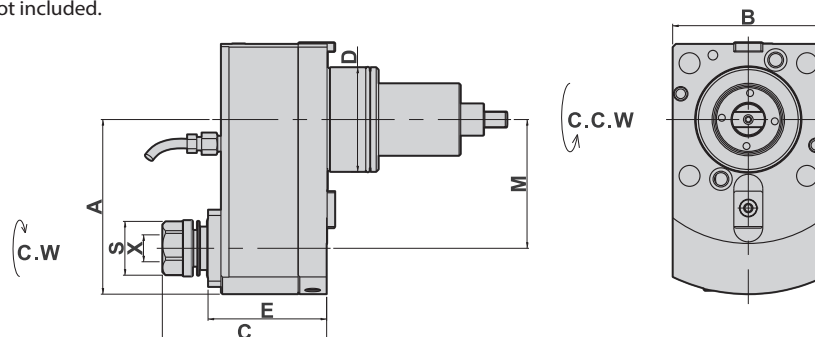
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	G	MODEL
51101862	BMT45	45	1-13 ER20	35	6000	60	32.5	75	75	DW220-DA45-20
51101863	BMT55	55	1-16 ER25	42	6000	62	33	85	85	DW230-DA55-25
51101864	BMT65	65	2-20 ER32	50	6000	68.5	38.5	94	94	DW300-DA65-32
51101865	BMT65	65	2-20 ER32	50	6000	58	36	94	94	DW300-DA65-32-S
51101866	BMT75	75	3-26 ER40	63	6000	78	43	115	115	DW350-DA75-40
51101867	BMT85	85	10-34 ER50	78	6000	94	54	125	125	DW700-DA85-50



AXIAL DRILLING AND MILLING HEAD OFFSET (0°)

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



UNIT: mm

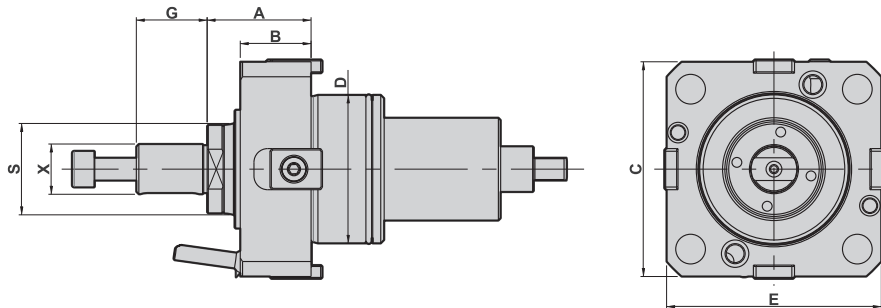
ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	M	MODEL
51101868	BMT65	65	1-13 ER20	35	5000	109	94	102	74	80	DW300-DA65-20-80



AXIAL MILLING AND DRILLING HEAD (0°)

TYPE : DAEWOO / HWACHEON / SMEC / HYUNDAI - WIA

- To be used for collet DIN 6358
- External coolant and intermediate rings supply



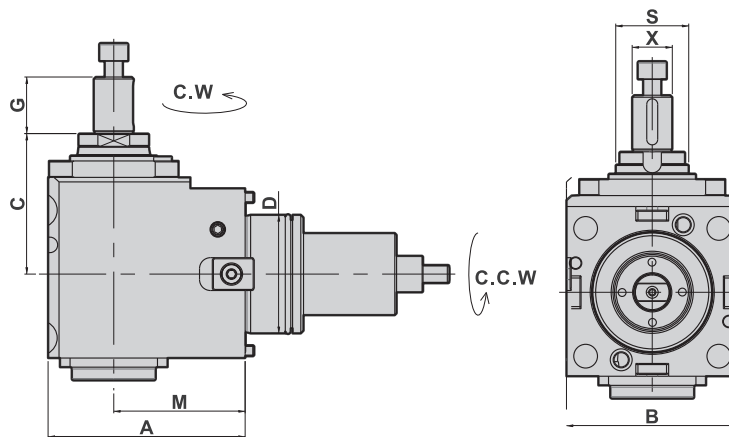
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	G	MODEL
51101869	BMT65	65	22	40	3000	45.5	31	94	94	31	DW300-DA65-22C
51101870	BMT65	65	27	59	3000	39	22	94	94	26	DW300-DA65-27C
51101871	BMT75	75	27	50	3000	55	37.5	115	115	33	DW350-DA75-27C
51101872	BMT85	85	32	58	3000	63	44	125	125	36	DW700-DA85-32C
51101873	BMT85	85	31.75	58	3000	63	44	125	125	36	DW700-DA85-31.75C



RADIAL DRILLING AND MILLING HEAD (90°)

- To be used for collet DIN 6358
- External coolant and intermediate rings supply



UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	G	MODEL
51101874	BMT65	65	22	40	3000	108	94	77	31	72	DW300-DF65-22C-72
51101875	BMT65	65	22	40	3000	121	94	77	31	85	DW300-DF65-22C-85
51101876	BMT65	65	22	40	3000	137	94	77	31	100	DW300-DF75-22C-100
51101877	BMT75	75	27	50	3000	115	112	88	33	70	DW350-DF75-27C-70
51101878	BMT75	75	27	50	3000	135	112	88	33	90	DW350-DF75-27C-90
51101879	BMT75	75	27	50	3000	170	112	88	33	125	DW350-DF75-27C-125

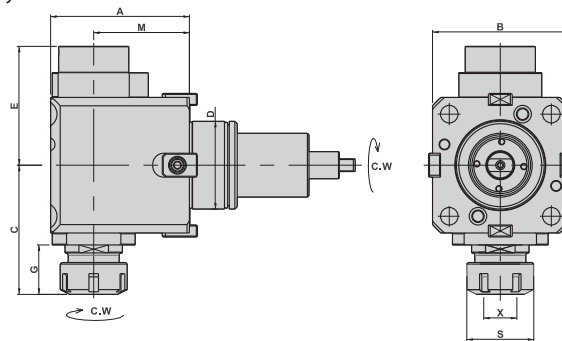


A “TOOLS FOR TURNING MACHINES

RADIAL MILLING AND DRILLING HEAD (90°)

TYPE : DAEWOO / HWACHEON / SMEC / HYUNDAI - WIA

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



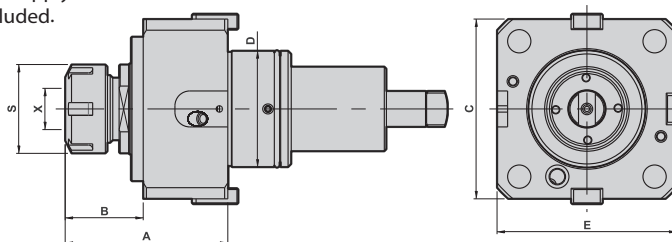
UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	G	M	MODEL
51101880	BMT55	55	1-16 ER25	42	5000	92	85	81	74.5	31	60	DW230-CW-DF-55-25-60
51101881	BMT65	65	2-20 ER32	50	5000	108	94	96	80	34	72	DW300-CW-DF-65-32-72
51101882	BMT75	75	2-26 ER40	63	5000	115	112	106.5	104.5	39	70	DW350-CW-DF-55-40-70
51101883	BMT75	75	2-26 ER40	63	5000	135	112	106.5	104.5	39	90	DW350-CW-DF-75-40-90
51101884	BMT75	75	3-26 ER40	63	5000	170	112	111	104.5	44	125	DW350-CW-DF-75-40-125
51101885	BMT85	85	10-34 ER50	78	5000	136	125	141.5	97	50.5	110	DW700-CW-DF-85-50-110

AXIAL MILLING AND DRILLING HEAD (0°)

TYPE : DAEWOO / HWACHEON / SMEC / HYUNDAI - WIA

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

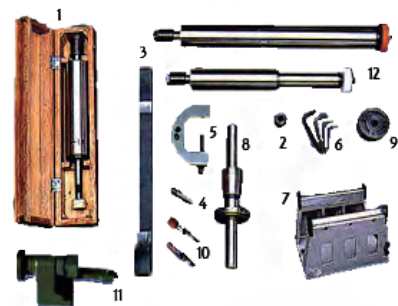
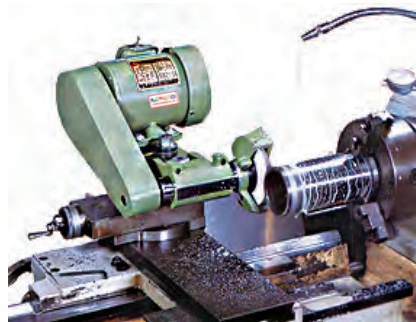


UNIT: mm

ITEM NO.	STYLE	D	X (CAPACITY)	S	MAX. RPM	A	B	C	E	MODEL
51101886	BMT55	55	1-16 ER25	42	6000	67	33	85	85	DW230-CW-DA-55-25
51101887	BMT65	65	2-20 ER32	50	6000	74	38.5	94	94	DW300-CW-DA-65-32
51101888	BMT75	75	3-26 ER40	63	6000	84	44	110	115	DW350-CW-DA-75-40
51101889	BMT85	85	10-34 ER50	78	6000	104	56	125	125	DW700-CW-DA-85-50



TOOL POST GRINDER FOR LATHE

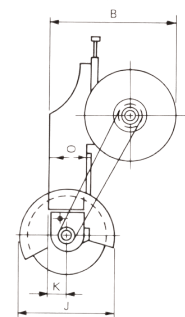
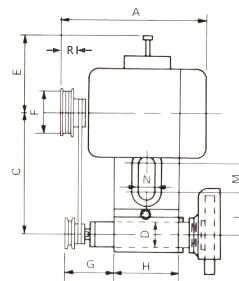


STANDARD ACCESSORIES:

- 1 INTERNAL SPINDLE 1 PC
- 2 PULLEY FOR INTERNAL GRINDING..... 2 PCS
- 3 FLAT BELT..... 1 PC
- 4 DIAMOND TOOL 1 PC
- 5 HOLDER FOR DIAMOND TOOL..... 1 PC
- 6 KEY FOLDS (8,6,5,3mm)..... 4 PCS

SPECIAL ACCESSORIES (OPT.):

- 7 BALANCING STAND
- 8 MANDREL
- 9 FLANGE AND BALANCING WEIGHT
- 10 3ø, 6ø mm, COLLET
- 11 SPINDLE FOR LONGER INTERNAL GRINDING



UNIT: mm

MAIN DIMENSION																			NET WEIGHT (kgs)	PACKING SIZE
ITEM NO.	TYPE	A	B	C	D	E	F	G	H	J	K	L	N	M	Q	R				
51101895	185	330	345	301~346	80	135	72	90	145	340	54~77	130	33	105	175	118	56	700 x 500 x 520		
51101894	175	310	345	301~346	70	135	72	82	140	282	54~77	130	33	105	150	118	50	650 x 460 x 460		
51101893	165	290	365	235~275	48	125	113	72	125	235	45~70	100	30	40	125	75	30	520 x 430 x 350		
51101892	150	270	265	235~275	48	125	113	72	125	152	45~70	110	25	85	125	75	28	520 x 430 x 350		
51101891	125	236	240	227~280	48	73	113	67	122	152	38~59	90	23	75	125	115	22	520 x 430 x 350		
51101890	100	245	215	170~200	40	67	113	67	90	127	30	43	20	52	125	75	11	450 x 320 x 340		

UNIT: mm

EXTERNAL SPINDLE				INTERNAL SPINDLE				GRINDING DEPTH	GRINDER ON LATHE (LENGTH OF BED OF LATHE) (ft)
ITEM NO.	TYPE	HP	SIZE OF WHEEL DIAxWIDTHxHOLE	NON-LOAD SPEED (RPM)	DIAMETER TO BE GROUND	SIZE OF WHEEL DIAxWIDTHxHOLE	NON-LOAD SPEED (RPM)		
51101895	3	330	12" x 1" x 1"	60 cycle 1930 50 cycle 1600	-	-	60 cycle 1930 50 cycle 1600	-	OVER 12
51101894	2	310	10" x 1" x 1"	2300 1930	-	-	2300 1930	-	10-12
51101893	1	290	8" x 3/4" x 3/4"	3000 3700 2490 3070	25-50	1" x 3/8" x 1/4"	3000 3700 2490 3070	70	8-10
51101892	1	270	5" x 5/8" x 5/8"	3000 3700 3750 5000	19-40	1" x 3/8" x 1/4"	3000 3700 3750 5000	70	6-8
51101891	1/2	236	5" x 5/8" x 5/8"	3000 3700 3750 5000	19-40	1" x 3/8" x 1/4"	3000 3700 3750 5000	70	4-6
51101890	1/4	245	5" x 5/8" x 5/8"	3000 3700 3750 5000	19-40	1" x 3/8" x 1/4"	3000 3700 3750 5000	50	UNDER 4

