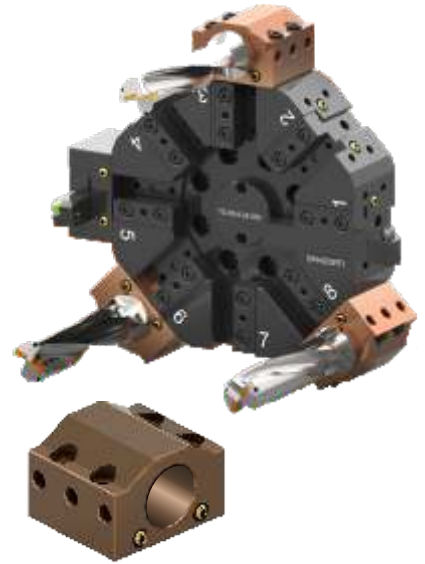


SPHOORTI

Precision Assured

TOOL DISCS & TOOL HOLDERS

FOR CNC TURNING CENTERS &
TURN MILL CENTERS



**SLOTTED TOOL DISC &
TOOL HOLDERS**



**VDI AXIAL TOOL DISC &
TOOL HOLDERS**



**VDI RADIAL TOOL DISC &
TOOL HOLDERS**



BMT TOOL DISC & TOOL HOLDERS

PRODUCTS		PAGE NO.
Slotted Tool Discs & Tool Holders		5-18 01
VDI Tool Discs & Tool Holders		19-52 02
Double Serration Through Coolant VDI Tool Holders		53-60 03
VDI Driven Tool Holders		61-96 04
BMT Tool Discs & Tool Holders		97-126 05
VTP Tool Holders		127-138 06
Reduction Sleeves		139-148 07
BMT PSC (Capto-Compatible) Tool Holders		149-159 08
VDI PSC (Capto-Compatible) Tool Holders		161-162 09
Angular Head for Machining Center		163-167 10
Slotting Head For CNC Turn Mill Center		168 11
Gear Hobbing Unit		169 12
Sliding Head Tool Holders		170 13

SPHOORTI

Precision Assured

SLOTTED TOOL DISCS & TOOL HOLDERS

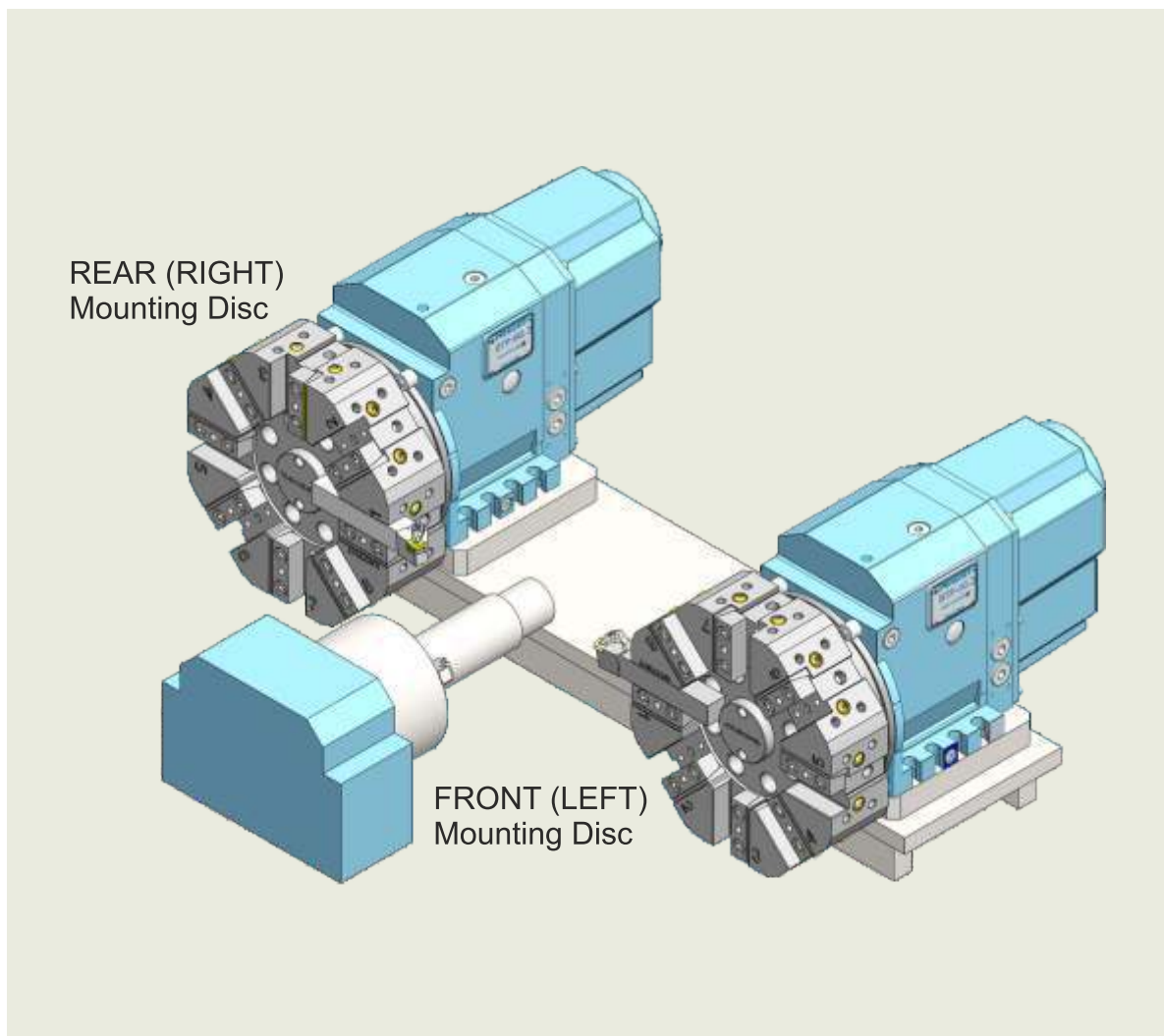
FOR CNC TURNING CENTERS



FEATURES

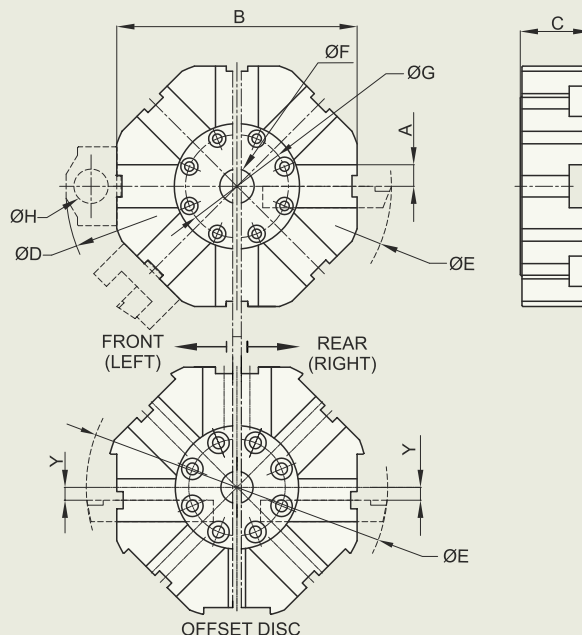
- Available in 8 & 12 station as our standard.
- Made out of Forged, Medium Carbon Steel & Toughened to 20 ± 2 HRC.
- Finish machining on precision Machining Centers to ensure accuracies.
- Suitable for fitment on both flat and slant bed CNC lathes.
- Available in Right version (Rear Mounting) & Left version (Front Mounting)
- Suitable for fitment on Pragati, Duplomatic, Sauter & Baruffaldi turrets.
- Customised design can be supplied upon request.
- Inch series disc are available upon request.

TOOL DISC MOUNTING POSITION



SLOTTED TOOL DISCS

8-STATION



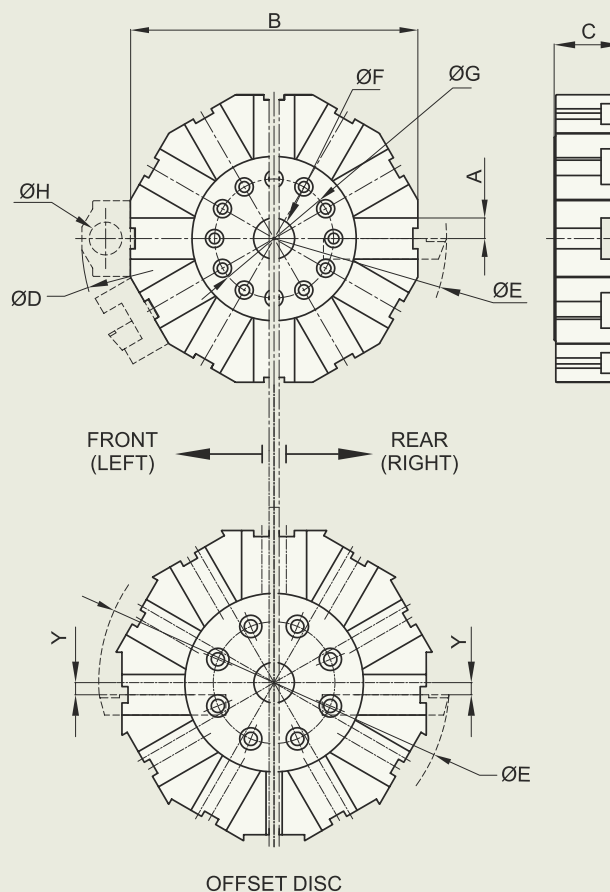
ARTICLE NO.	ITEM NAME	A (TOOL SIZE)	B	C	ØD	~ØE	ØF	ØG	ØH Max	Y	TURRET TYPE
SD7401	TD-50-8-12-150	12	150	44	213	192	25	70	20	-	PRAGATI BTP-50 Duplomatic-BSV-N-100 Baruffaldi-TOE-100 Sauter 05-480-510
SD0401	TD-50-8-16-180	16	180	52	252	238	25	70	25	-	
SD33701	CTD-50-8-20-180	20	180	55	285	248	25	70	32	-	
SD0501	TD-50-8-20-200	20	200	55	305	280	25	70	32	-	
SD0801	TD-63-8-16-200	16	200	52	270	256	30	90	25	-	PRAGATI BTP-63 Duplomatic-BSV-N-120 Baruffaldi-TOE-120 Sauter 05-480-512
SD0901	TD-63-8-20-220	20	220	61	325	294	30	90	32	-	
SD14401	TD-63-8-20-224-12	20	224	61	332	281	30	90	32	12	
SD46601	TD-63-8-20-250	20	250	61	355	320	30	90	32	-	
SD33501	CTD-63-8-25-234	25	234	62	353	304	30	90	40	-	PRAGATI BTP-80 Duplomatic-BSV-N-160 Baruffaldi-TOE-160 Sauter 05-480-516
SD1301	TD-80-8-20-250	20	250	61	355	324	40	120	32	-	
SD54364	TD-80-8-20-280	20	280	61	391	350	40	120	32	-	
SD36301	CTD-80-8-25-240	25	240	81	359	326	40	120	40	-	
SD54318	TD-80-8-25-250	25	250	81	369	336	40	120	40	-	PRAGATI BTP-100 Duplomatic-BSV-N-200 Baruffaldi-TOE-200 Sauter 05-480-520
SD1401	TD-80-8-25-280	25	280	81	399	366	40	120	40	-	
SD2201	TD-100-8-25-304	25	304	81	423	384	50	145	40	-	
SD54524	TD-100-8-25-320	25	320	81	459	400	50	145	40	-	
SD31901	TD-100-8-25-350	25	350	81	489	420	50	145	40	-	PRAGATI BTP-125 Duplomatic-BSV-N-250 Baruffaldi-TOE-250 Sauter 05-480-525
SD54319	TD-100-8-25-390	25	390	81	508	476	50	145	40	-	
SD54201	TD-100-8-32-304	32	304	96	457	393	50	145	50	-	
SD23 01	TD-100-8-32-350	32	350	96	503	440	50	145	50	-	
SD35601	TD 125-8-25-350	25	350	81	470	430	63	182	40	-	PRAGATI BTP-160 Duplomatic-BSV-N-320 Baruffaldi-TOE-320 Sauter 05-480-532
SD49301	TD 125-8-25-380	25	380	81	499	460	63	182	40	-	
SD31401	TD-125-8-32-350	32	350	96	503	430	63	182	50	-	
SD2901	TD-125-8-32-380	32	380	96	532	470	63	182	50	-	
SD32201	TD-125-8-32-436	32	436	96	588	525	63	182	50	-	PRAGATI BTP-160 Duplomatic-BSV-N-320 Baruffaldi-TOE-320 Sauter 05-480-532
SD3001	TD-125-8-40-400	40	400	96	541	500	63	182	50	-	
SD54307	TD-160-8-32-480	32	480	126	632	560	80	220	50	-	
SD54560	TD 160-8-32-565	32	565	126	728	645	80	220	50	-	
SD12601	TD-160-8-40-480	40	480	126	643	616	80	220	60	-	

* Customised design can be supplied upon request

* Inch series tool discs are available upon request

SLOTTED TOOL DISCS

12-STATION



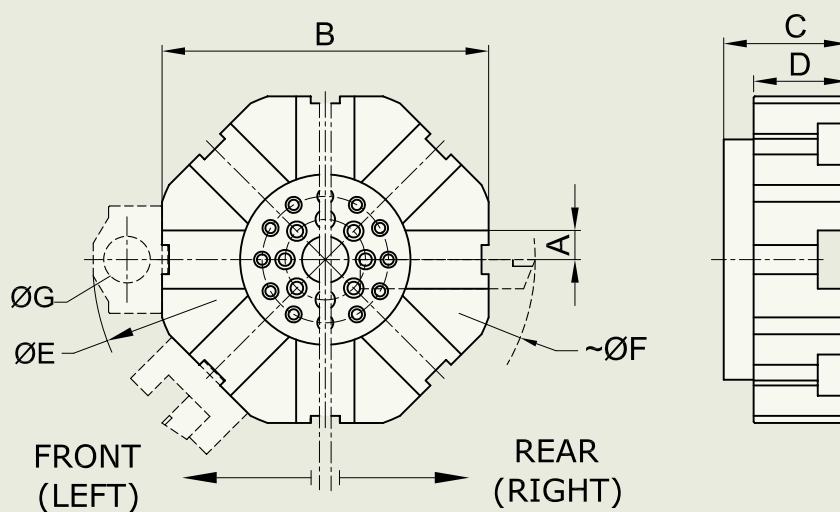
ARTICLE NO.	ITEM NAME	A (TOOL SIZE)	B	C	ØD	~ØE	ØF	ØG	ØH Max	Y	TURRET TYPE
SD1001	TD-63-12-16-236	16	236	52	307	207	30	90	25	-	PRAGATI BTP-63 Duplomatic-BSV-N-120 Baruffaldi-TOE-120 Sauter 05-480-512
SD1501	TD-80-12-20-286	20	286	61	391	348	40	120	32	-	PRAGATI BTP-80 Duplomatic-BSV-N-160 Baruffaldi-TOE-160 Sauter 05-480-516
SD26701	TD-80-12-20-295-12	20	295	61	402	346	40	120	32	12	
SD28201	TD 80-12-20-320	20	320	61	425	382	40	120	32	-	
SD54310	TD-80-12-25-310	25	310	81	425	396	40	120	32	-	
SD2401	TD-100-12-25-350	25	350	81	469	420	50	145	40	-	PRAGATI BTP-100 Duplomatic-BSV-N-200 Baruffaldi-TOE-200 Sauter 05-480-520
SD41301	TD-100-12-25-350-20	25	350	81	473	421	50	145	40	20	
SD53801	TD-100-12-25-380	25	380	81	499	460	50	145	40	-	
SD54459	TD-100-12-25-400	25	400	81	519	480	50	145	40	-	
SD54330	TD-100-12-25-410	25	410	81	529	490	50	145	40	-	
SD54345	TD-100-12-25-450	25	450	81	589	530	50	145	40	-	PRAGATI BTP-125 Duplomatic-BSV-N-250 Baruffaldi-TOE-250 Sauter 05-480-525
SD35201	TD-125-12-25-380	25	380	81	499	460	63	182	40	-	
SD48501	TD-125-12-25-436	25	436	81	555	520	63	182	40	-	
SD3101	TD-125-12-32-436	32	436	96	588	525	63	182	50		PRAGATI BTP-160 Duplomatic-BSV-N-320 Baruffaldi-TOE-320 Sauter 05-480-532
SD54308	TD-160-12-32-565	32	565	126	719	645	80	220	50	-	
SD54586	TD-160-12-40-565	40	565	126	727	645	80	220	60	-	

* Customised design can be supplied upon request

* Inch series tool discs are available upon request

HYDRAULIC TOOL DISC (HTD) - SLOTTED

8-STATION



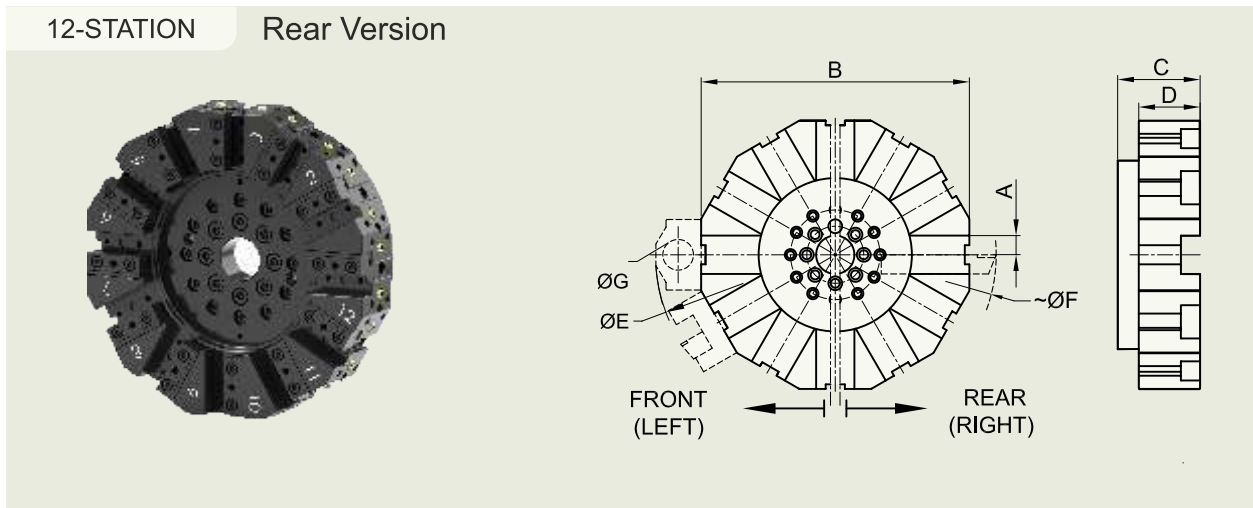
ARTICLE NO.	ITEM NAME	A (TOOL SIZE)	B	C	D	ØE	~ØF	ØG	TURRET TYPE
SB13903	HTD-63-8-20-220-T96-R	20	220	96	60	325	286	32	PRAGATI HTP-63-8
SB13503	HTD-63-8-20-228-T96-R	20	228	96	60	333	294	32	PRAGATI HTP-63-8
SB13303	HTD-63-8-25-240-T101-R	25	240	101	80	359	326	40	PRAGATI HTP-63-8
SB18103	HTD-80-8-20-280-T105-R	20	280	105	60	403	352	32	PRAGATI HTP-80-8
SB14403	HTD-80-8-25-280-T105-R	25	280	105	80	399	366	40	PRAGATI HTP-80-8
SB14203	HTD-100-8-25-304-T105-R	25	304	105	80	443	370	40	PRAGATI HTP-100-8
SB16403	HTD-100-8-25-320-T110-R	25	320	110	80	459	400	40	PRAGATI HTP-100-8
SB17603	HTD-100-8-32-320-T124-R	32	320	124	95	473	412	50	PRAGATI HTP-100-8
SB17703	HTD-125-8-25-380-T110-R	25	380	110	80	519	460	40	PRAGATI HTP-125-8
SB13003	HTD-125-8-32-380-T124-R	32	380	124	95	532	470	50	PRAGATI HTP-125-8
SH20703	HTD-125-8-32-420-T124-R	32	420	124	95	572	510	50	PRAGATI HTP-125-8

* Customised design can be supplied upon request

* Inch series tool discs are available upon request

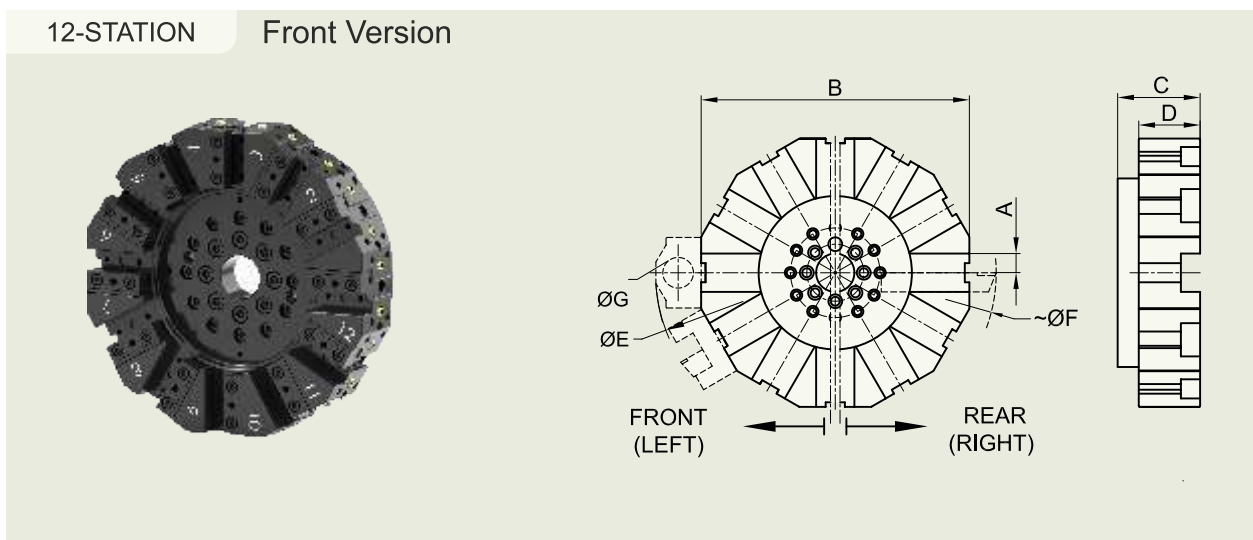
HYDRAULIC TOOL DISC (HTD) - SLOTTED

12-STATION Rear Version



ARTICLE NO.	ITEM NAME	A (TOOL SIZE)	B	C	D	ØE	~ØF	ØG	TURRET TYPE
SB13503	HTD-63-12-16-236-T87-R	16	236	87	51	307	270	25	PRAGATI HTP-63-12
SB14303	HTD-80-12-20-286-T105-R	20	286	105	60	391	325	32	PRAGATI HTP-80-12
SB16203	HTD-80-12-25-350-T105-R	25	350	105	80	469	430	40	PRAGATI HTP-80-12
SB14103	HTD-100-12-25-350-T110-R	25	350	110	80	489	420	40	PRAGATI HTP-100-12
SB13103	HTD-125-12-32-436-T124-R	32	436	124	95	588	526	50	PRAGATI HTP-125-12
SH23503	HTD-125-12-32-480-Ø210-124-R	32	480	124	95	632	570	50	PRAGATI HTP-125-12

12-STATION Front Version



ARTICLE NO.	ITEM NAME	A (TOOL SIZE)	B	C	D	ØE	~ØF	ØG	TURRET TYPE
SB16803	HTD-100-12-25-350-T110-F	25	350	110	80	489	420	40	PRAGATI HTP-100-12
SB18603	HTD-125-12-25-380-Ø210-T110-F	25	380	110	80	519	494	40	PRAGATI HTP-125-12
SB17203	HTD-125-12-25-380-T110-F	25	380	110	80	519	494	40	PRAGATI HTP-125-12
SB18203	HTD-125-12-32-436-Ø210-T110-F	32	436	124	95	588	526	50	PRAGATI HTP-125-12
SB17303	HTD-125-12-32-436-T124-F	32	436	124	95	588	526	50	PRAGATI HTP-125-12

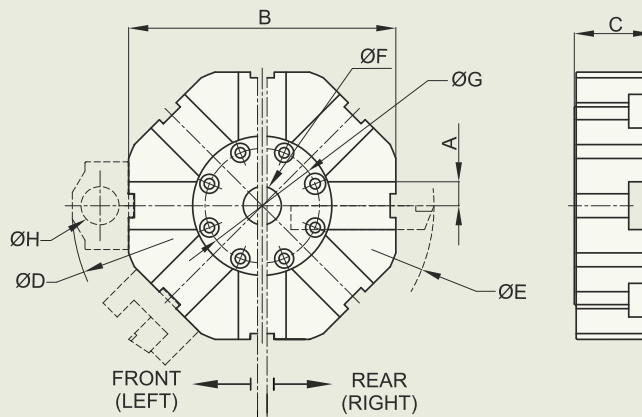
* Customised design can be supplied upon request

* Inch series tool discs are available upon request

SERVO SLOTTED TOOL DISC

8-STATION

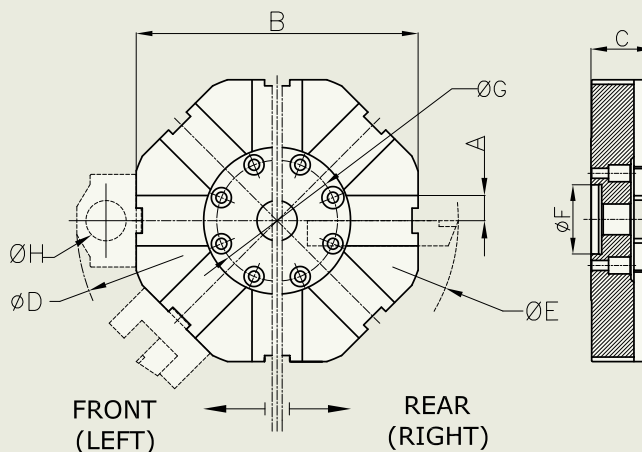
Version V2



ARTICLE NO.	ITEM NAME	A (TOOL SIZE)	B	C	D	ØE	~ØF	ØG	ØH	TURRET TYPE
SD54408	STP-80-8-25-300	25	300	81	419	386	40	120	40	PRAGATI STP-80 - V2
SD54418	STP-80-8-25-330	25	330	81	449	410	40	120	40	PRAGATI STP-80 - V2
SD54453	STP-80-8-25-350	25	350	81	469	420	40	120	40	PRAGATI STP-80 - V2
SD54308	STP-125-8-32-450	32	450	96	611	540	63	182	50	PRAGATI STP-125 - V2

8-STATION

Version V3



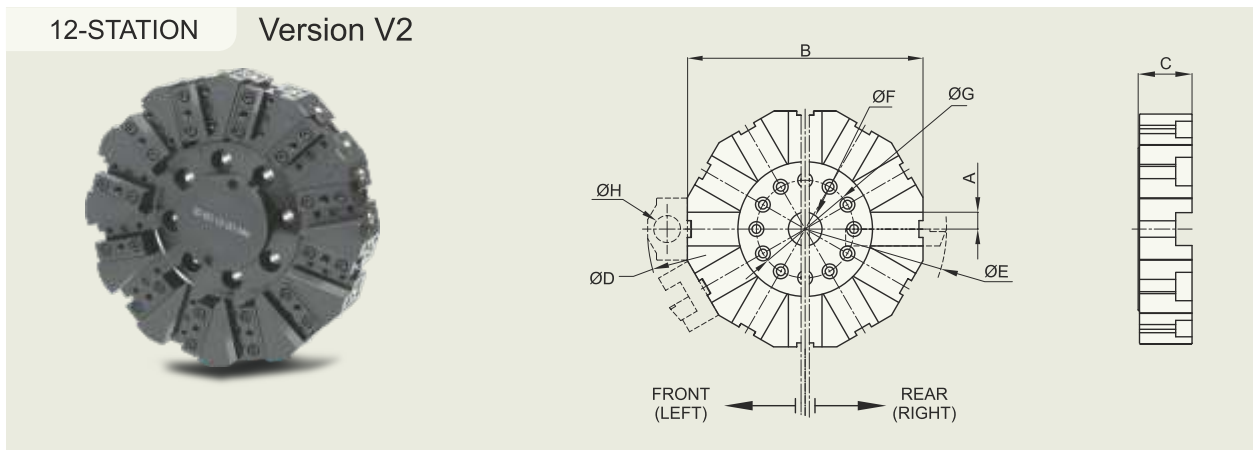
ARTICLE NO.	ITEM NAME	A (TOOL SIZE)	B	C	D	ØE	~ØF	ØG	ØH	TURRET TYPE
SD54475	STP-80-8-25-280-S90	25	280	81	399	366	90	120	40	PRAGATI STP-80 - V3
SD54476	STP-80-8-25-300-S90	25	300	81	419	386	90	120	40	PRAGATI STP-80 - V3
SD54485	STP-80-8-25-330-S90	25	330	81	449	410	90	120	40	PRAGATI STP-80 - V3
SD54478	STP-100-8-25-350-S110	25	350	81	469	420	110	145	40	PRAGATI STP-100 - V3

* Customised design can be supplied upon request

* Inch series tool discs are available upon request

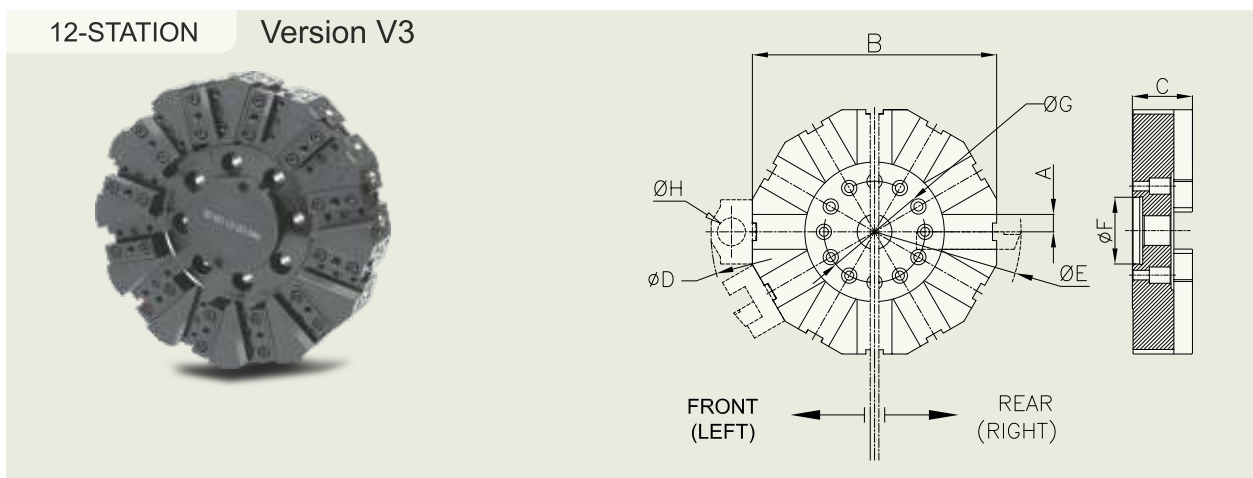
SERVO SLOTTED TOOL DISC

12-STATION Version V2



ARTICLE NO.	ITEM NAME	A (TOOL SIZE)	B	C	ØD	~ØE	~ØF	~ØG	~ØH	TURRET TYPE
SD54402	STP-63-12-20-290	20	290	61	395	360	30	90	32	PRAGATI STP-63 - V2
SD54310	STP-80-12-25-310	25	310	81	425	396	40	120	32	PRAGATI STP-80 - V2
SD54394	STP-80-12-25-320	25	320	81	436	406	40	120	32	PRAGATI STP-80 - V2
SD54302	STP-80-12-25-330	25	330	81	445	416	40	120	32	PRAGATI STP-80 - V2
SD54391	STP-80-12-25-350	25	350	81	469	420	40	120	40	PRAGATI STP-80 - V2
SD54405	STP-100-12-25-350-T96	25	350	96	469	420	50	145	40	PRAGATI STP-100 - V2
SD54416	STP-100-12-25-410-T96	25	410	96	529	490	50	145	40	PRAGATI STP-100 - V2
SD54407	STP-125-12-32-450	32	450	96	602	539	63	182	50	PRAGATI STP-125 - V2
SD54309	STP-125-12-32-480	32	480	96	641	570	63	182	50	PRAGATI STP-125 - V2

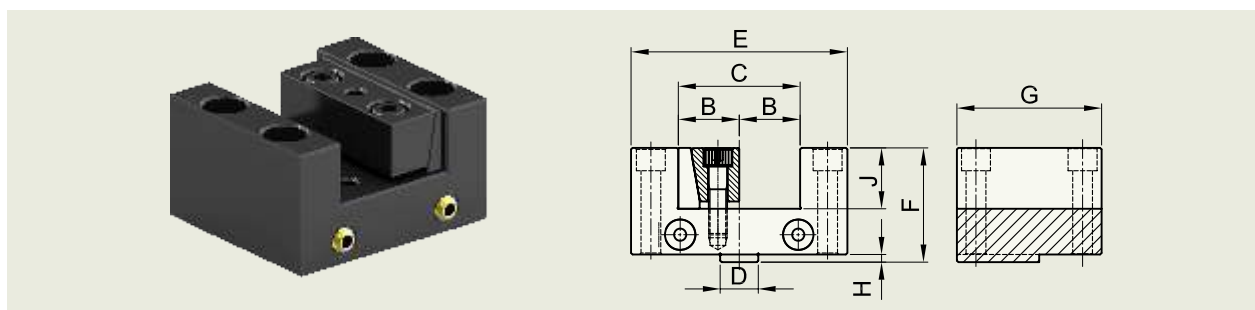
12-STATION Version V3



ARTICLE NO.	ITEM NAME	A (TOOL SIZE)	B	C	ØD	ØE	~ØF	ØG	ØH	TURRET TYPE
SD54304	STP-80-12-25-330-S90	25	330	81	445	416	90	120	32	PRAGATI STP-80 - V3
SD54465	STP-80-12-25-350-S90	25	350	81	469	420	90	120	40	PRAGATI STP-80 - V3
SD54479	STP-100-12-25-350-S110	25	350	81	469	420	110	145	40	PRAGATI STP-100 - V3
SD54480	STP-100-12-25-380-S110	25	380	81	499	460	110	145	40	PRAGATI STP-100 - V3
SD54466	STP-100-12-25-410-S110	25	410	81	529	490	110	145	40	PRAGATI STP-100 - V3

* Customised design can be supplied upon request
* Inch series tool discs are available upon request

ATH (AXIAL TOOL HOLDER)



ARTICLE NO.	ITEM NAME	A	B (TOOL SIZE)	C	D	E	F	G	H	J	TOOL DISC TYPE	
SD7403	ATH 12-12	12	12	24	12	56	31	43	4	12	TD 50-8-12	
SD0403	ATH 16-16	16	16	32	16	66	37	51	5	16	TD 50-8-16 TD 63-8-16	TD 63-12-16 HTD 63-12-16
SD0503	ATH 20-20	20	20	40	16	76	45	60	5	20	TD 50-8-20 TD 63-8-20 TD 80-8-20 HTD 63-8-20 HTD 80-8-20	TD 80-12-20 HTD 80-12-20
SD33503	ATH 25-25 L60	25	25	50	25	90	55	60	5	25	TD 63-8-25	
SD1403	ATH 25-25	25	25	50	25	92	55	80	5	25	TD 80-8-25 TD 100-8-25 HTD 80-8-25 HTD 100-8-25 HTD 125-8-25	TD 100-12-25 TD 125-12-25 HTD 100-12-25 HTD 125-12-25
SD2303	ATH 32-32	32	32	64	25	114	65	95	5	32	TD 100-8-32 TD 125-8-32 HTD 125-8-32	TD 125-12-32 HTD 125-12-32
SD3003	ATH 40-40	40	40	80	25	142	75	95	5	40	TD 125-12-40	
SD53645	ATH 160-32	32	32	64	40	142	74	124	5	32	TD 160-8-32 TD 160-12-32	
SD12602	ATH 160-40	40	40	80	40	142	74	124	5	40	TD 160-8-40 TD 160-12-40	

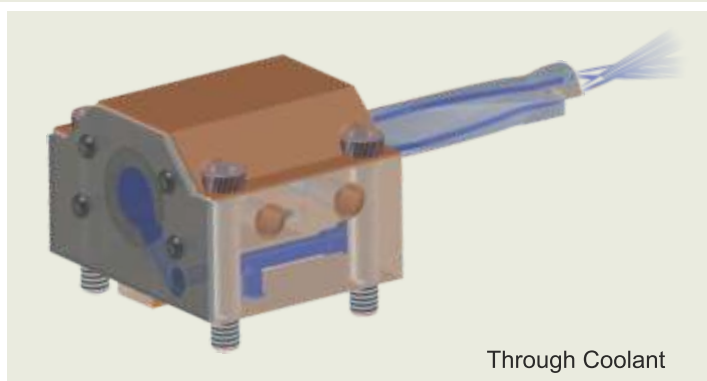
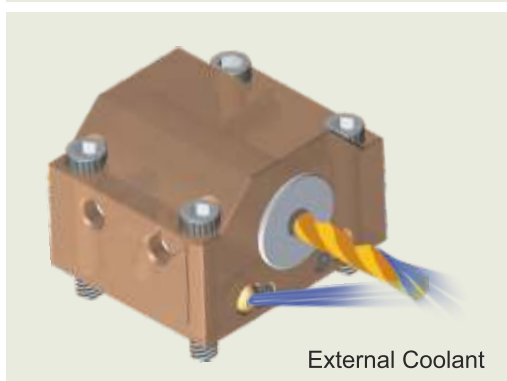
* Made out of Medium Carbon Steel, Forged & Toughened to 20±2 HRC

* Customised design can be given upon request

* Inch series Axial Tool Holders are also available upon request

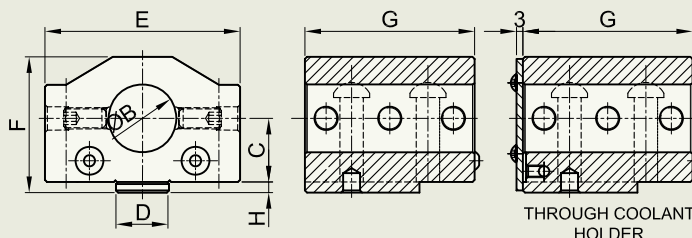
BTH (BORING TOOL HOLDER)

- Highest Tensile Strength of 40kgf/mm² and better impact properties.
- Finish machined on Hi-Precision machining centers.
- Interchangeable tool holders. No need for in-line boring on machine.
- Through Coolant Boring Tool Holders also available.
- Suitable sleeves can be used in BTH for different tool sizes.
- Inch series Boring Tool Holders are also available upon request.



BTH (BORING TOOL HOLDER)

(EXTERNAL / THROUGH COOLANT)

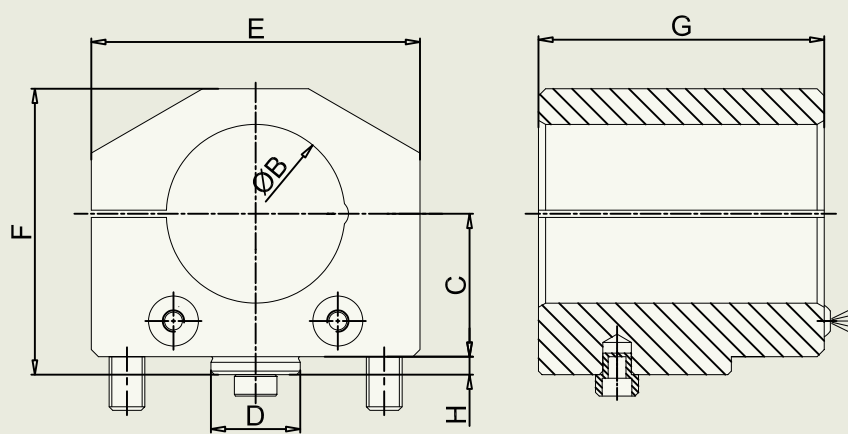


ARTICLE NO.	ITEM NAME	A (TOOL SIZE)	ØB (BORE SIZE)	C	D	E	F	G	H	TC	TOOL DISC TYPE
SD7402	BTH 12-20 CH-18	12	20	18	12	56	35	43	4	*	TD 50-8-12 TD 50-8-16 TD 63-8-16 TD 63-12-16 HTD 63-12-16
SD0402	BTH 16-20 CH-18	16	20	18	16	66	40	51	5	*	
SD0405	BTH 16-25 CH-18	16	25	18	16	66	40	51	5	*	
SD0411	BTH 16-25 CH-32	16	25	32	16	66	40	51	5	*	
SD0512	BTH 20-20 CH-18	20	20	18	16	76	42.5	60	5	*	TD 50-8-20 TD 63-8-20 TD 80-8-20 HTD 63-8-20 HTD 80-8-20 TD 80-12-20 HTD 80-12-20
SD0511	BTH 20-25 CH-18	20	25	18	16	76	42.5	60	5	*	
SD0514	BTH 20-32 CH-18	20	32	18	16	76	42.5	60	5	*	
SD0513	BTH 20-20 CH-25	20	20	25	16	76	57	60	5	*	
SD0502	BTH 20-25 CH-25	20	25	25	16	76	57	60	5	*	
SD1302	BTH 20-32 CH-25	20	32	25	16	76	57	60	5	*	
SD53985	BTH 20-32 CH-30	20	32	30	16	76	63	60	5	*	
SD49702	BTH 20-40 CH-30	20	40	30	16	76	63	60	5	*	
SD1308	BTH 20-32 CH-35	20	32	35	16	76	63	60	5	*	
SD56262	BTH 25-20 CH-30 L60	25	20	30	25	90	63	60	5	*	TD 63-8-25
SD33510	BTH 25-25 CH-30 L60	25	25	30	25	90	63	60	5	*	
SD33511	BTH 25-32 CH-30 L60	25	32	30	25	90	63	60	5	*	
SD33502	BTH 25-40 CH-30 L60	25	40	30	25	90	63	60	5	*	
SD1406	BTH 25-25 CH-30	25	25	30	25	92	64	80	5	*	TD 80-8-25 TD 100-8-25 HTD 80-8-25 HTD 100-8-25 HTD 125-8-25 TD 100-12-25 TD0125-12-25 HTD 100-12-25 HTD 125-12-25
SD1402	BTH 25-32 CH-30	25	32	30	25	92	64	80	5	*	
SD2402	BTH 25-40 CH-30	25	40	30	25	92	64	80	5	*	
SD1413	BTH 25-50 CH-30	25	50	30	25	92	73	80	5	*	
SD1409	BTH 25-32 CH-40	25	32	40	25	92	74	80	5	*	
SD1410	BTH 25-40 CH-40	25	40	40	25	92	74	80	5	*	
SD1412	BTH 25-50 CH-40	25	50	40	25	92	74	80	5	*	
SD2302	BTH 32-40 CH-40	32	60	40	25	114	85	95	5	*	TD 100-8-32 TD 125-8-32 HTD 125-8-32 TD 125-12-32 HTD 125-12-32
SD2902	BTH 32-50 CH-40	32	40	50	25	114	90	95	5	*	
SD2907	BTH 32-60 CH-40	32	50	50	25	114	80	95	5	*	
SD54138	BTH 32-40 CH-50	32	40	50	25	114	80	95	5	*	
SD53687	BTH 32-50 CH-50	32	50	50	25	114	80	95	5	*	
SD3002	BTH 40-40 CH-35	40	40	35	25	142	75	95	5	*	TD 125-8-40
SD3006	BTH 40-50 CH-35	40	50	35	25	142	75	95	5	*	
SD56589	BTH 160-50 CH 40	40	50	40	40	142	85	124	5	*	TD 160-8-32 TD 160-12-32 TD 160-8-40 TD 160-12-40
SD12603	BTH 160-60 CH 40	40	60	40	40	142	85	124	5	*	

*TC - Through Coolant. While ordering TC Holder, Add TC in the Code

EX:- 1. BTH 12-20 CH 18 (External coolant), 2. BTH 12-20 CH 18 TC (Through coolant)

SLIT TYPE BORING TOOL HOLDERS



ARTICLE NO.	ITEM NAME	A	ØB (Bore Size)	C	D	E	F	G	H	SUITABLE DISC
SD53621	BTHS 25-40 CH-40	25	40	40	25	92	80	80	5	TD-80-8-25 TD-100-8-25 TD-100-12-25 TD-125-8-25 TD-125-12-25 HTD-80-8-25 HTD-100-8-25 HTD-100-12-25 HTD-125-8-25 HTD-125-12-25 STP-80-8-25 STP-80-12-25 STP-100-8-25 STP-100-12-25 STP-125-8-25 STP-125-12-25
SD16401	BTHS 25-50 CH-40	25	50	40	25	92	80	80	5	
SD56456	BTHS 25-40 CH-40 L160	25	40	40	25	92	80	160	5	
SD54161	BTHS 25-25 CH-30 L100	25	25	30	25	92	64	100	5	
SD56454	BTHS 25-40 CH-40 L160-FB	25	40	40	25	92	80	160	5	
SD16301	BTHS 25-32 CH-30	25	32	30	25	92	64	80	5	
SD16201	BTHS 25-40 CH-30	25	40	30	25	92	64	80	5	
SD54162	BTHS 25-40 CH-30 L130	25	40	30	25	92	64	130	5	
SD15201	BTHS 32-40-CH-40	32	40	40	25	114	85	95	5	TD-100-8-32 TD-125-8-32 TD-160-8-32 TD-125-12-32 TD-160-12-32 STP-125-12-32 HTD-125-12-32
SD54160	BTHS 32-50-CH-40 L180	32	50	40	25	114	85	180	5	
SD2911	BTHS 32-50-CH-40	32	50	40	25	114	85	95	5	
SD53833	BTHS 32-50 CH-70	32	50	70	25	114	117	95	5	
SD54261	BTHS 40-60 CH-40	40	60	40	25	142	85	95	5	TD-125-8-40
SD50201	BTHS 160-40 CH-40	40	40	40	25	142	85	124	5	TD-160-8-40 TD-160-12-40
SD50202	BTHS 160-50 CH-40	40	50	40	25	142	85	124	5	

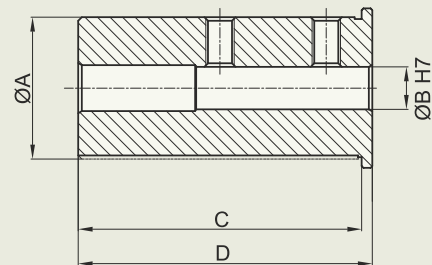
* Customised design can be supplied upon request

* Inch series Tool Holders are available upon request

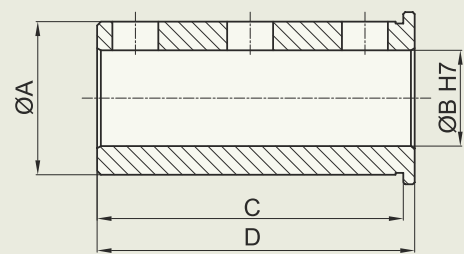
FEATURES

- Reduction sleeves are available to mount different sizes of tool shanks in BTH (Boring Tool Holders).
- Available in Type 1, 2 & 3 as our standards.
- Type 1 to clamp the tools within sleeves for smaller tool shanks.
- Type 2 to clamp the tools from BTH itself for smaller boring bars, U-drills & etc.,
- Type 3 to hold Morse Taper tool shanks.
- Type 1 & 2 made out of medium carbon steel and toughened to 20 ± 2 HRC.
- Type 3 made out of medium carbon steel and toughened to 40 ± 2 HRC.
- Customised design can be supplied upon request.

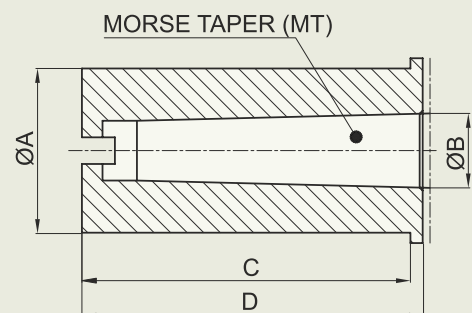
TYPE-1



TYPE-2



TYPE-3

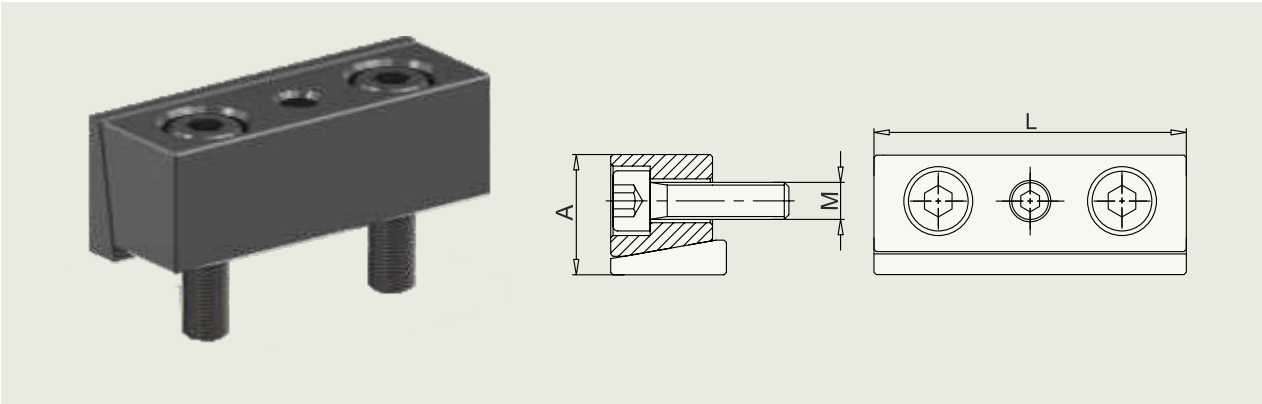


SLOTTED TOOL DISCS & TOOL HOLDERS - REDUCTION SLEEVES

ARTICLE NO.	A	B	C	D	TYPE	SUITS FOR TOOL HOLDER	SUITS FOR TOOL DISC
SM16 2508	25	8	48	51	1	BTH 16-25 CH 18 BTH 16-25 CH 32	TD 50-8-16 TD 63-8-16 TD 63-12-16 HTD 63-12-16
SM16 2510	25	10	48	51	1		
SM16 2512	25	12	48	51	1		
SM16 2516	25	16	48	51	2		
SM16 2520	25	20	48	51	2		
SM20 2508	25	8	58	61	1	BTH 20-25 CH 18 BTH 20-25 CH 25	TD 50-8-20 TD 63-8-20 TD 80-8-20 HTD 80-8-20 TD 80-12-20 HTD 80-12-20
SM20 2510	25	10	58	61	1		
SM20 2512	25	12	58	61	1		
SM20 2516	25	16	58	61	2		
SM20 2520	25	20	58	61	2		
SM20 25MT1	25	MT1	58	61	3	BTH 20-32 CH 18 BTH 20-32 CH 25 BTH 20-32 CH 30 BTH 20-32 CH 35	
SM20 3208	32	8	58	61	1		
SM20 3210	32	10	58	61	1		
SM20 3212	32	12	58	61	1		
SM20 3216	32	16	58	61	1		
SM20 3220	32	20	58	61	2		
SM20 3225	32	25	58	61	2		
SM20 32MT1	32	MT1	57	60	3		
SM20 32MT2	32	MT2	70	73	3	BTH 25-32 CH 30 BTH 25-32 CH 40	
SM25 3208	32	8	78	81	1		
SM25 3210	32	10	78	81	1		
SM25 3212	32	12	78	81	1		
SM25 3216	32	16	78	81	1		
SM25 3220	32	20	78	81	2		
SM25 3225	32	25	78	81	2		
SM25 32MT1	32	MT1	77	80	3		
SM25 32MT2	32	MT2	78	81	3		
SM25 4008	40	8	78	81	1		BTH 25-40 CH 30 BTH 25-40 CH 40
SM25 4010	40	10	78	81	1		
SM25 4012	40	12	78	81	1		
SM25 4016	40	16	78	81	1		
SM25 4020	40	20	78	81	1		
SM25 4025	40	25	78	81	1		
SM25 4032	40	32	78	81	2		
SM25 40MT1	40	MT1	78	81	3		
SM25 40MT2	40	MT2	78	81	3		
SM25 40MT3	40	MT3	79	92	3	BTH 32-40 CH 40 BTH 32-40 CH 50 BTH 40-40 CH 35	
SM32 4008	40	8	93	96	1		
SM32/40 4010	40	10	93	96	1		
SM32/40 4012	40	12	93	96	1		
SM32/40 4016	40	16	93	96	1		
SM32/40 4020	40	20	93	96	1		
SM32/40 4025	40	25	93	96	1		
SM32/40 4032	40	32	93	96	2		
SM32/40 40MT1	40	MT1	80	83	3		
SM32/40 40MT2	40	MT2	80	83	3		
SM32/40 40MT3	40	MT3	79	92	3	BTH 32-50 CH 40 BTH 32-50 CH 50 BTH 40-50 CH 35	
SM32/40 5016	50	16	93	96	1		
SM32/40 5020	50	20	93	96	1		
SM32/40 5025	50	25	93	96	1		
SM32/40 5032	50	32	93	96	1		
SM32/40 5040	50	40	93	96	2		
SM32/40 50MT2	50	MT2	89	92	3		
SM32/40 50MT3	50	MT3	89	92	3		
SM32/40 50MT4	50	MT4	92	115	3		

* Inch series sleeves are available upon request.

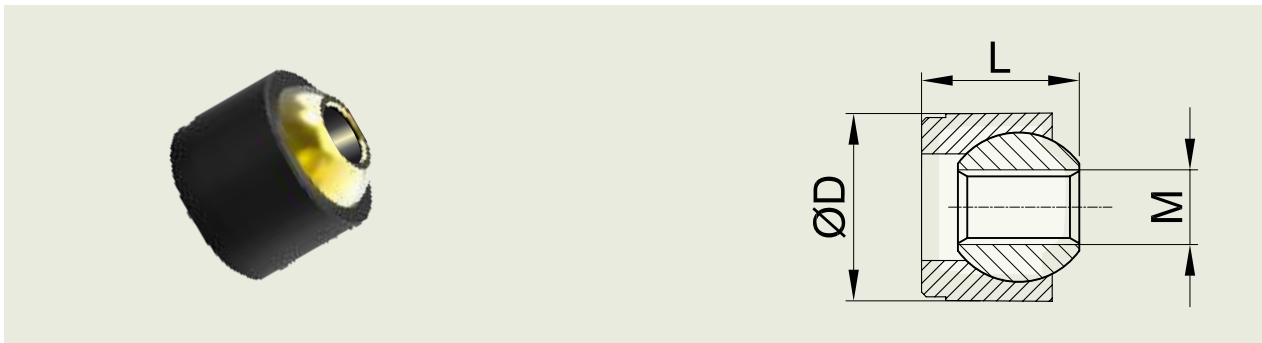
WEDGE ASSEMBLY



ARTICLE NO.	ITEM NAME	A	L	M	SUITABLE DISC
SD0404	W16X43	16	43	6	SPHOORTI DISC
SD0504	W20X48	20	48	6	SPHOORTI DISC
SD0902	W20X54	20	54	6	SPHOORTI DISC
SD33504	W25X54	25	54	8	SPHOORTI DISC
SD50502	W25X58	25	58	8	SPHOORTI DISC
SD1404	W25X68	25	68	8	SPHOORTI DISC
SD2304	W32X84	32	84	10	SPHOORTI DISC
SD3004	W40X94	40	94	12	SPHOORTI DISC
SD7004	W40X109	40	109	12	SPHOORTI DISC
SD56322	W20X70 P40	20	70	8	ACE DISC
SD52629	W25X70 P34	25	70	8	ACE DISC

* Customised design can be supplied upon request

PRESS FIT COOLANT BALL ASSEMBLY



ARTICLE NO.	ITEM NAME	ØD	L	M
MB10 X M4	Ø10 X M4	10	8.4	4
MB12 X M5	Ø12 X M5	12	10.3	5
MB12 X M6	Ø12 X M6	12	10.3	6
MB14 X M5	Ø14 X M5	14	12.5	5
MB14 X M6	Ø14 X M6	14	12.5	6
MB14 X M8	Ø14 X M8	14	12	8

SPHOORTI

Precision Assured



VDI TOOL DISCS & TOOL HOLDERS

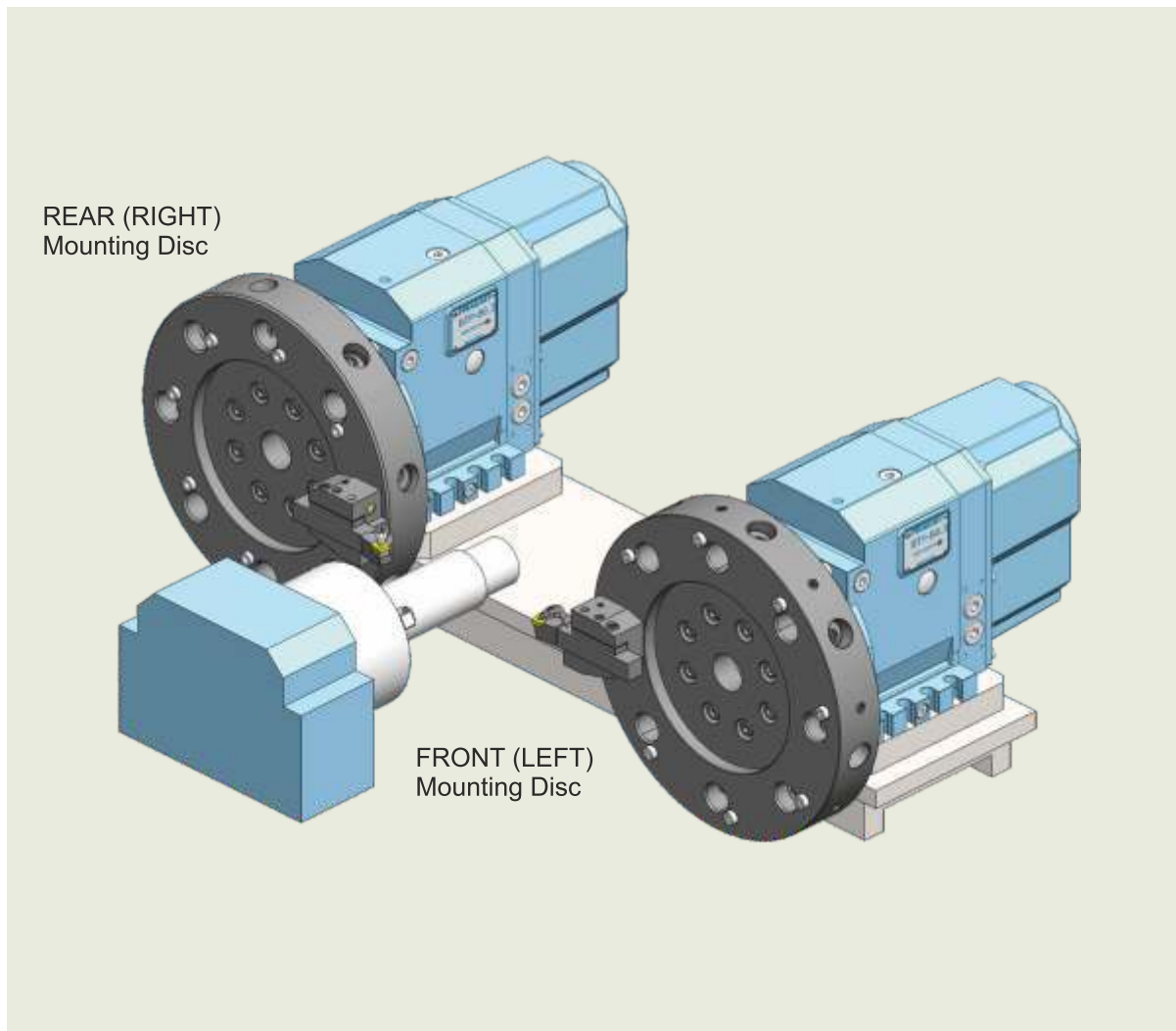
FOR CNC TURNING CENTER & TURN MILL CENTER



FEATURES

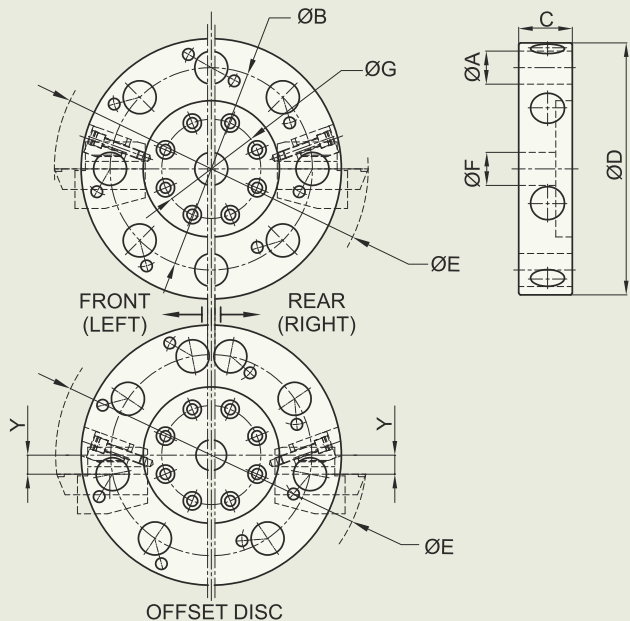
- Available in 8 & 12 Station as our standard.
- Made out of Forged, Medium Carbon Steel & Toughened to 20 ± 2 HRC.
- Finish machining on precision machining centers to ensure accuracies.
- Suitable for fitment on both flat and slant bed CNC lathes.
- Available in Right version (Rear Mounting) & Left version (Front Mounting).
- Suitable for fitment on Pragati, Duplomatic, Sauter & Baruffaldi turrets.
- Customised design can be supplied upon request.

TOOL DISC MOUNTING POSITION



VDI TOOL DISCS - AXIAL - STATIC TOOLS

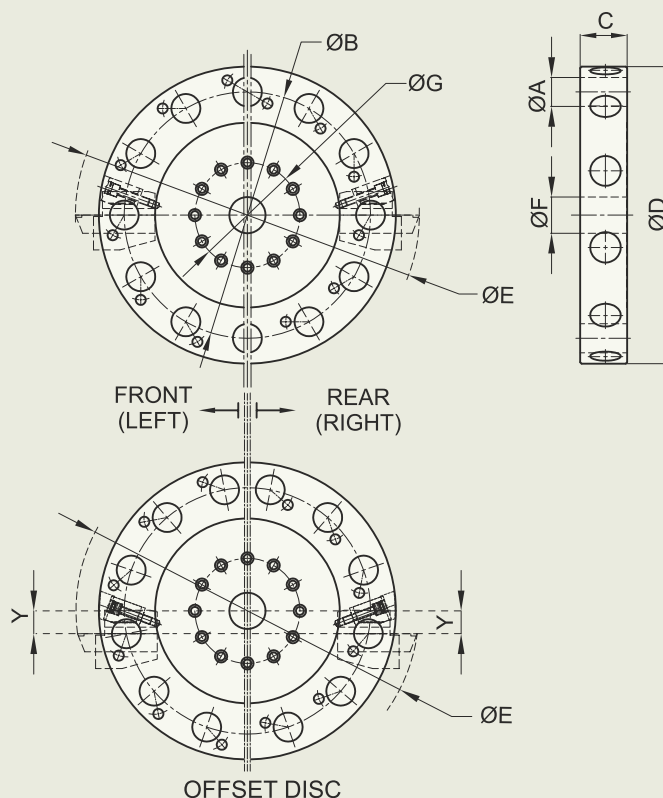
8-STATION



ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	C	ØD	~ØE	ØF	ØG	Y	TURRET TYPE
	RIGHT	LEFT									
TD-VDI-S-50-8-16-160	SD16701	SD16801	16	160	34	200	230	25	70	-	PRAGATI BTP-50, DUPLOMATIC-BSV-N-100, BARUFFALDI-TOE100, SAUTER 0.5-480-510
TD-VDI-S-50-8-20-140	SD3401	SD3501	20	140	42	185	235	25	70	-	
TD-VDI-S-63-8-20-200	SD50001	SD25501	20	200	42	245	294	30	90	-	
TD-VDI-S-63-8-20-200-17	SD50260	SD50261	20	200	42	245	292	30	90	17	
TD-VDI-S-63-8-20-209-12	SD32601	SD50262	20	209	42	264	303	30	90	12	
TD-VDI-S-63-8-20-240	SD17101	SD24101	20	240	42	295	332	30	90	-	
TD-VDI-S-63-8-20-240-17	SD50263	SD50264	20	240	42	295	331	30	90	17	
TD-VDI-S-63-8-30-190	SD3601	SD3701	30	190	57	250	300	30	90	-	
TD-VDI-S-63-8-30-200	SD50265	SD17301	30	200	57	260	310	30	90	-	
TD-VDI-S-63-8-30-200-15	SD50077	SD17501	30	200	57	260	308	30	90	15	
TD-VDI-S-63-8-30-220	SD50266	SD50239	30	220	57	270	330	30	90	-	PRAGATI BTP-63, DUPLOMATIC-BSV-N-120, BARUFFALDI-TOE120, SAUTER 0.5-480-512
TD-VDI-S-80-8-30-210	SD50100	SD48801	30	210	57	270	310	40	120	-	
TD-VDI-S-80-8-30-210-25	SD50267	SD50268	30	210	57	285	308	40	120	25	
TD-VDI-S-80-8-30-240	SD50269	SD50270	30	270	57	310	350	40	120	-	
TD-VDI-S-80-8-30-240-25	SD43201	SD50271	30	240	57	310	348	40	120	25	
TD-VDI-S-80-8-30-270	SD4301	SD14201	30	270	57	340	380	40	120	-	
TD-VDI-S-80-8-30-270-25	SD50272	SD50273	30	270	57	340	378	40	120	25	
TD-VDI-S-80-8-40-245	SD4401	SD4501	40	245	65	310	380	40	120	-	
TD-VDI-S-80-8-40-245-25	SD18601	SD13601	40	245	65	320	378	40	120	25	
TD-VDI-S-100-8-40-272	SD18801	SD18901	40	272	65	340	407	50	145	-	PRAGATI BTP-80, DUPLOMATIC-BSV-N-160, BARUFFALDI-TOE160, SAUTER 0.5-480-516
TD-VDI-S-100-8-40-272-32	SD50131	SD50143	40	272	65	340	405	50	145	32	
TD-VDI-S-100-8-40-275-25	SD50274	SD19001	40	275	65	345	408	50	145	25	
TD-VDI-S-100-8-40-290	SD40101	SD50275	40	290	65	370	425	50	145	-	
TD-VDI-S-100-8-40-290-32	SD50276	SD50277	40	290	65	370	425	50	145	32	
TD-VDI-S-100-8-40-340	SD4801	SD4901	40	340	65	410	475	50	145	-	
TD-VDI-S-100-8-40-340-32	SD50278	SD50279	40	340	65	410	473	50	145	32	PRAGATI BTP-100, DUPLOMATIC-BSV-N-200, BARUFFALDI-TOE200, SAUTER 0.5-480-520
TD-VDI-S-125-8-50-340	SD21801	SD50044	50	340	80	420	495	63	182	-	
TD-VDI-S-125-8-50-340-35	SD50280	SD38401	50	340	80	430	492	63	182	35	
TD-VDI-S-125-8-50-400	SD5401	SD5501	50	400	80	480	564	63	182	-	
TD-VDI-S-125-8-50-400-35	SD21701	SD50281	50	400	80	480	561	63	182	35	
TD-VDI-S-160-8-60-460	SD31601	SD23901	60	460	96	560	649	80	220	-	PRAGATI BTP-125, DUPLOMATIC-BSV-N-250, BARUFFALDI-TOE250, SAUTER 0.5-480-520
											PRAGATI BTP-160, DUPLOMATIC-BSV-N-320, BARUFFALDI-TOE320, SAUTER 0.5-480-532

VDI TOOL DISCS - AXIAL - STATIC TOOLS

12-STATION

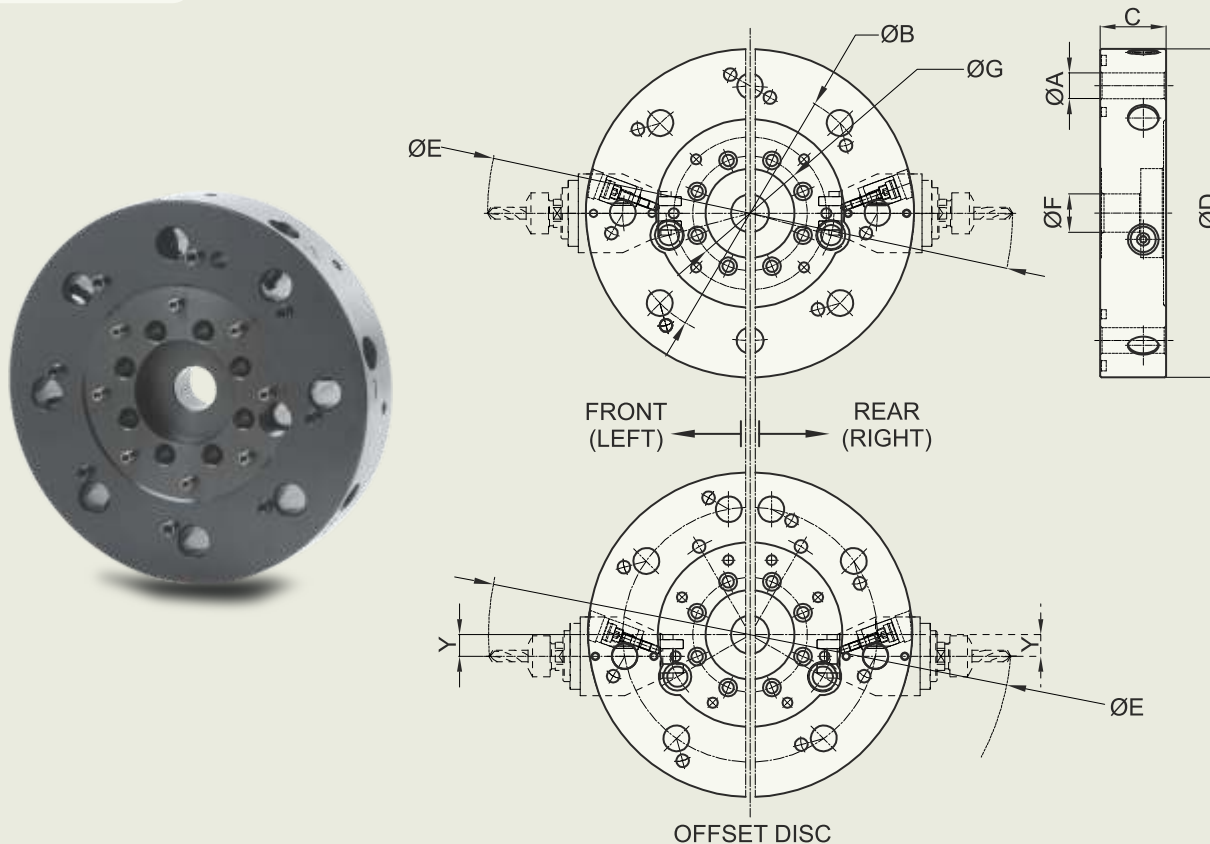


02

ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	C	ØD	~ØE	ØF	ØG	Y	TURRET TYPE
	RIGHT	LEFT									
TD-VDI-S-50-12-16-160	SD30901	SD30801	16	160	34	200	230	25	70	-	PRAGATI BTP-50, DUPLOMATIC-BSV-N-100, BARUFFALDI-TOE100, SAUTER 0.5-480-510
TD-VDI-S-63-12-20-200	SD17001	SDF17001	20	200	42	250	292	30	90	-	
TD-VDI-S-63-12-20-200-17	SD50282	SD50283	20	200	42	250	290	30	90	17	
TD-VDI-S-63-12-20-209-12	SD16901	SD50284	20	209	42	264	301	30	90	12	
TD-VDI-S-63-12-20-240	SD24503	SD24601	20	240	42	295	332	30	90	-	
TD-VDI-S-63-12-20-240-17	SD50285	SD50286	20	240	42	295	330	30	90	17	PRAGATI BTP-63, DUPLOMATIC-BSV-N-120, BARUFFALDI-TOE120, SAUTER 0.5-480-512
TD-VDI-S-80-12-20-290	SD17701	SD50287	30	290	45	345	382	40	120	-	
TD-VDI-S-80-12-30-270	SD10401	SD18301	30	270	57	340	380	40	120	-	
TD-VDI-S-80-12-30-270-25	SD25202	SD50288	30	270	57	340	378	40	120	25	
TD-VDI-S-80-12-30-315	SD45601	SD4701	30	315	57	380	425	40	120	-	
TD-VDI-S-100-12-30-340	SD38601	SD50289	30	340	57	400	450	50	145	-	PRAGATI BTP-100, DUPLOMATIC-BSV-N-200, BARUFFALDI-TOE200, SAUTER 0.5-480-520
TD-VDI-S-100-12-30-370	SD32501	SD50290	30	370	57	430	480	50	145	-	
TD-VDI-S-100-12-40-340	SD5201	SD5301	40	340	65	410	475	50	145	-	
TD-VDI-S-100-12-40-340-32	SD24501	SD50291	40	340	65	410	472	50	145	32	
TD-VDI-S-100-12-40-340-55	SD28701	SD50292	40	340	65	410	471	50	145	55	
TD-VDI-S-100-12-40-370	SD22301	SD50045	40	370	65	440	505	50	145	-	PRAGATI BTP-125, DUPLOMATIC-BSV-N-250, BARUFFALDI-TOE250, SAUTER 0.5-480-520
TD-VDI-S-125-12-50-400	SD 5801	SD 5901	50	400	80	480	564	63	182	-	
TD-VDI-S-125-12-50-400-35	SD48901	SD50293	50	400	80	480	561	63	182	35	PRAGATI BTP-160, DUPLOMATIC-BSV-N-320, BARUFFALDI-TOE320, SAUTER 0.5-480-532
TD-VDI-S-160-12-60-460	SD23701	SD50294	60	460	96	560	649	80	220	-	
TD-VDI-S-160-12-60-460-40	SD50295	SD50296	60	460	96	560	645	80	220	40	

VDI TOOL DISCS - AXIAL - DRIVEN TOOLS AS PER DIN 5480 / 5482

8-STATION



DIN 5480

ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	C	ØD	~ØE	ØF	ØG	Y	TURRET TYPE
	RIGHT	LEFT									
TD-VDI-R-63-8-20-200-D80	SD26601	SD25601	20	200	52	258	390	30	90	-	PRAGATI DTT 63-8-200-0
TD-VDI-R-63-8-20-240-D80	SD19601	SD49101	20	240	52	310	430	30	90	-	PRAGATI DTT 63-8-240-0
TD-VDI-R-80-8-30-240-D80	SD50088	SD50297	30	240	67	310	537	40	120	-	PRAGATI DTT 80-8-240-0
TD-VDI-R-80-8-30-270-D80	SD50129	SD50196	30	270	67	340	567	40	120	-	PRAGATI DTT 80-8-270-0
TD-VDI-R-80-8-40-270-D80	SD50113	SD50298	40	270	76	340	610	40	120	-	PRAGATI DTT 80-8-270-0
TD-VDI-R-100-8-40-340-D80	SD50299	SD50103	40	340	76	410	680	50	145	-	PRAGATI DTT 100-8-340-0
TD-VDI-R-100-8-40-340-32-D80	SD50300	SD50301	40	340	76	410	677	50	145	32	PRAGATI DTT 100-8-340-32

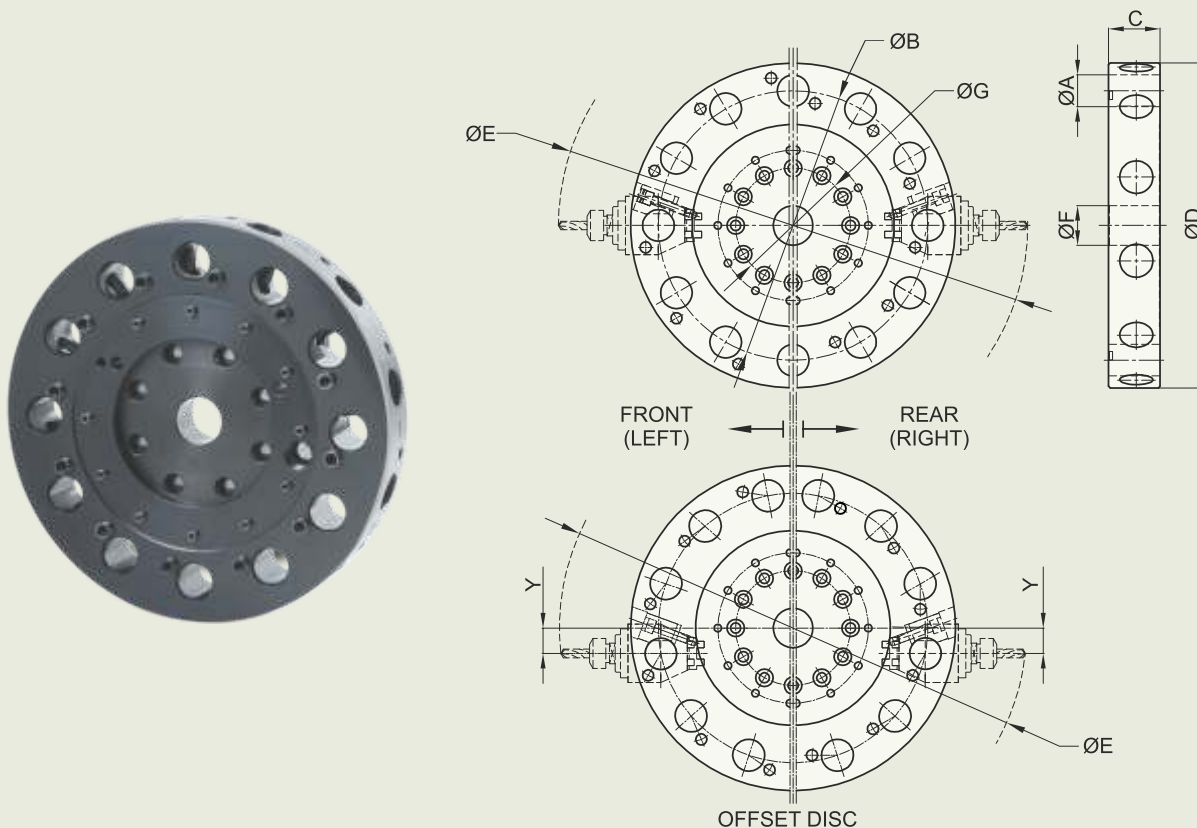
DIN 5482

ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	C	ØD	~ØE	ØF	ØG	Y	TURRET TYPE
	RIGHT	LEFT									
TD-VDI-R-80-8-30-240-D82	SD20001	SD49001	30	240	56	310	537	40	120	-	PRAGATI DTT 80-8-240-0
TD-VDI-R-80-8-30-270-D82	SD20401	SD32101	30	270	56	340	567	40	120	-	PRAGATI DTT 80-8-270-0
TD-VDI-R-80-8-40-270-D82	SD50146	SD50302	40	270	64	340	610	40	120	-	PRAGATI DTT 80-8-270-0
TD-VDI-R-100-8-40-340-D82	SD50046	SD50047	40	340	65	410	475	50	145	-	PRAGATI DTT 100-8-340-0
TD-VDI-R-100-8-40-340-32-D82	SD21101	SD50303	40	340	65	410	472	50	145	32	PRAGATI DTT 100-8-340-32

*Driven Tool Discs can be supplied as per customer drawings

VDI TOOL DISCS - AXIAL - DRIVEN TOOLS AS PER DIN 5480 / 5482

12-STATION



DIN 5480

ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	C	ØD	~ØE	ØF	ØG	Y	TURRET TYPE
	RIGHT	LEFT									
TD-VDI-R-63-12-20-240-D80	SD19801	SD27501	20	240	52	310	430	30	90	-	PRAGATI DTT 63-12-240-0
TD-VDI-R-80-12-20-270-D80	SD32801	SD50304	20	270	52	340	460	40	120	-	PRAGATI DTT 80-12-270-0
TD-VDI-R-80-12-30-270-D80	SD49401	SD50086	30	270	67	340	567	40	120	-	PRAGATI DTT 80-12-270-0
TD-VDI-R-80-12-30-270-25-D80	SD50162	SD50305	30	270	67	340	564	40	120	25	PRAGATI DTT 80-12-270-25
TD-VDI-R-80-12-30-300-D80	SD50079	SD50306	30	300	67	370	597	40	120	-	PRAGATI DTT 80-12-300-0
TD-VDI-R-100-12-40-340-D80	SD30201	SD42401	40	340	76	410	680	50	145	-	PRAGATI DTT 100-12-340-0
TD-VDI-R-100-12-40-340-32-D80	SD50083	SD50307	40	340	76	410	677	50	145	32	PRAGATI DTT 100-12-340-32
TD-VDI-R-100-12-40-370-D80	SD50234	SD50308	40	370	76	440	710	50	145	-	PRAGATI DTT 100-12-370-0

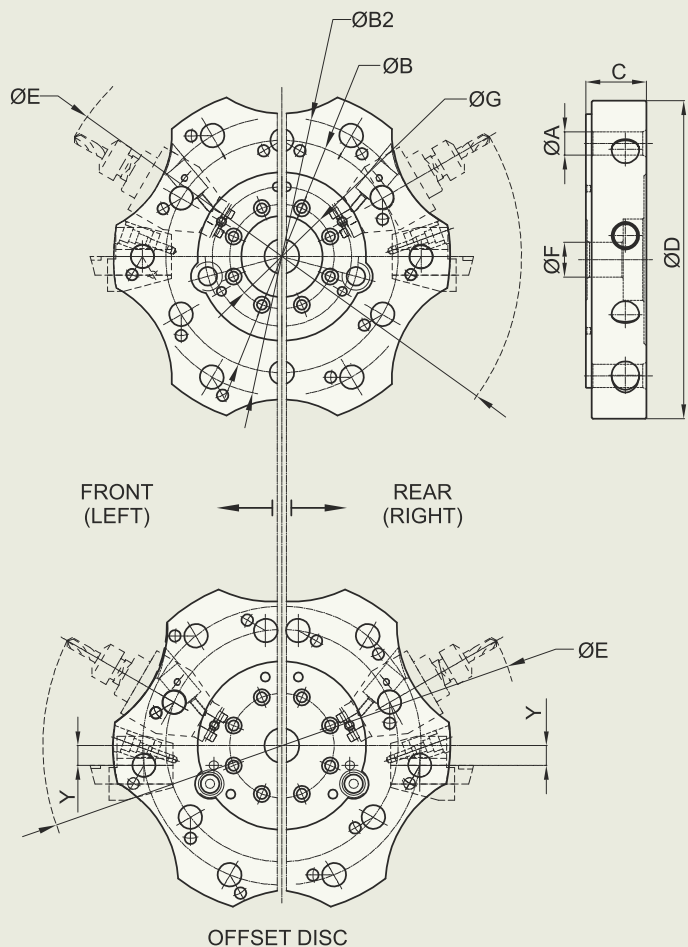
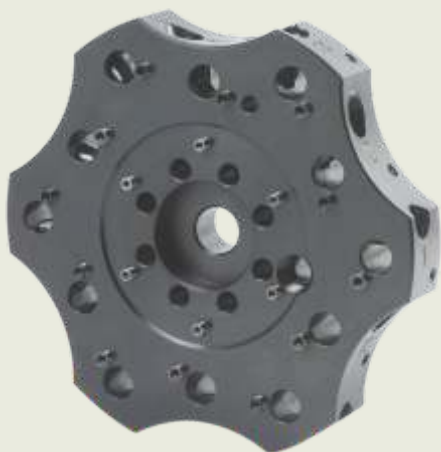
DIN 5482

ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	C	ØD	~ØE	ØF	ØG	Y	TURRET TYPE
	RIGHT	LEFT									
TD-VDI-R-80-12-30-270-D82	SD20601	SD25901	30	270	56	340	567	40	120	-	PRAGATI DTT 80-12-270-0
TD-VDI-R-80-12-30-270-25-D82	SD20701	SD50309	30	270	56	340	564	40	120	25	PRAGATI DTT 80-12-270-25
TD-VDI-R-100-12-40-340-D82	SD21001	SD22401	40	340	64	410	680	50	145	-	PRAGATI DTT 100-12-340-0
TD-VDI-R-100-12-40-340-32-D82	SD30301	SD50310	40	340	64	410	680	50	145	32	PRAGATI DTT 100-12-340-32
TD-VDI-R-100-12-40-370-D82	SD21601	SD50311	40	370	64	440	710	50	145	-	PRAGATI DTT 100-12-370-0

*Driven Tool Discs can be supplied as per customer drawings

VDI TOOL DISCS - AXIAL - DRIVEN TOOLS AS PER DIN 5480 / 5482

12 STATION-TWO PITCH DIAMETER



DIN 5480

ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	ØB2	C	ØD	~ØE	ØF	ØG	Y	TURRET TYPE
	RIGHT	LEFT										
TD-VDI-R-63-12-20-200-240-2-D80	SD50316	SD50317	20	200	240	52	290	390	30	90	-	PRAGATI DTT 63-12-200-240-0
TD-VDI-R-80-12-30-240-308-2-D80	SD50115	SD50318	30	240	308	67	368	537	40	120	-	PRAGATI DTT 80-12-240-308-0

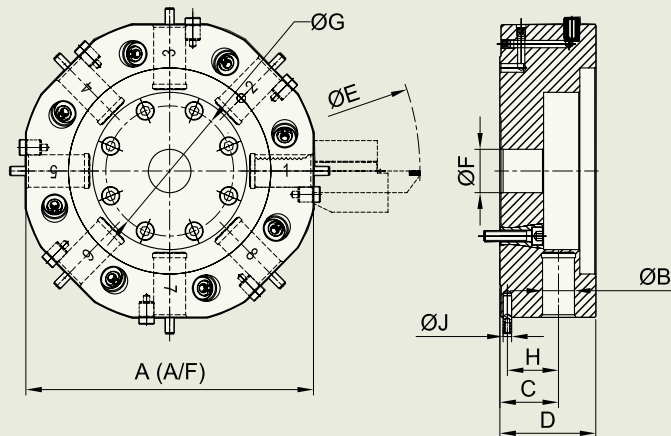
DIN 5482

ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	ØB2	C	ØD	~ØE	ØF	ØG	Y	TURRET TYPE
	RIGHT	LEFT										
TD-VDI-R-80-12-30-240-308-2-D82	SD27001	SD20201	30	240	308	59	368	537	40	120	-	PRAGATI DTT 80-12-240-308-0
TD-VDI-R-80-12-30-240-308-25-2-D82	SD20301	SD50319	30	240	308	59	368	534	40	120	25	PRAGATI DTT 80-12-240-308-25
TD-VDI-R-100-12-40-340-400-2-D82	SD21301	SD50320	40	340	400	67	470	680	50	145	-	PRAGATI DTT 100-12-340-400-0
TD-VDI-R-100-12-40-340-400-32-2-D82	SD25001	SD21401	40	340	400	67	470	677	50	145	32	PRAGATI DTT 100-12-340-400-32
TD-VDI-R-100-12-40-370-400-2-D82	SD32301	SD50321	40	370	400	67	470	668	50	145	-	PRAGATI DTT 100-12-370-400-0
TD-VDI-R-100-12-40-370-400-32-2-D82	SD50322	SD50323	40	370	400	67	470	665	50	145	32	PRAGATI DTT 100-12-370-400-32

*Inner Pitch Circle Diameter ØB for Driven Tools and Outer Pitch Circle Diameter ØB2 for Static Tools
*Driven Tool Discs can be supplied as per customer drawings

VDI TOOL DISC - RADIAL - STATIC TOOLS

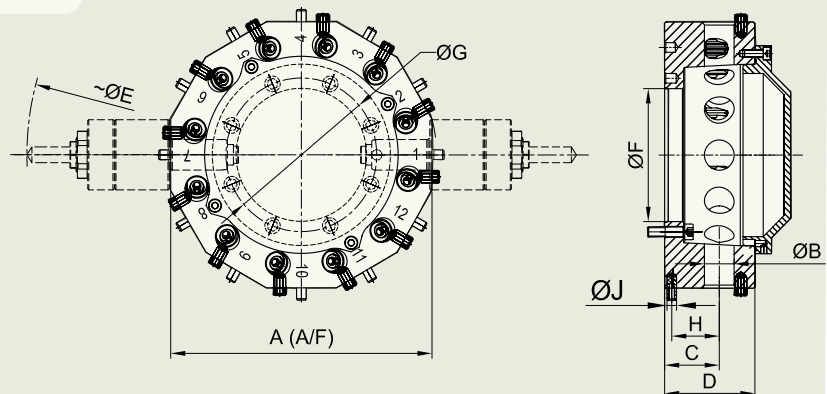
8-STATION



ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	C	ØD	~ØE	ØF	ØG	H	ØJ	TURRET TYPE
	RIGHT	LEFT										
RTD-VDI-S-80-8-30-270	SD50025	SD50133	270	30	55	90	470	40	120	48	8	PRAGATI BTP-80, DUPLOMATIC-BSV-N-160, BARUFFALDI-TOE-160, SAUTER 0.5.480.516
RTD-VDI-S-100-8-40-320	SD50076	SD50324	320	40	65	109	570	50	145	56	10	PRAGATI BTP-100, DUPLOMATIC-BSV-N-200, BARUFFALDI-TOE-200, SAUTER 0.5.480.520

SINGLE MOTOR TURRET DISC - RADIAL - DRIVEN TOOLS AS PER DIN 5480

8 STATION / 12 STATION / 16 STATION



8 STATION

ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	C	ØD	~ØE	ØF	ØG	H	ØJ	TURRET TYPE
	RIGHT	LEFT										
TD-VDI-SMT63R-8-25-220-D80	SD50325	SD50326	220	25	46	76	396	110	127	40	8	PRAGATI SMT-63R-8
TD-VDI-SMT80R-8-30-270-D80	SD50327	SD50328	270	30	55	90	595	130	150	48	8	PRAGATI SMT-80R-8
TD-VDI-SMT100R-8-40-320-D80	SD50329	SD50330	320	40	74	140	726	168	187	56	10	PRAGATI SMT-100R-8

12 STATION

ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	C	ØD	~ØE	ØF	ØG	H	ØJ	TURRET TYPE
	RIGHT	LEFT										
TD-VDI-SMT63R-12-25-220-D80	SD50067	SD50331	220	25	46	76	396	110	127	40	8	PRAGATI SMT-63R-12
TD-VDI-SMT80R-12-30-270-D80	SD49201	SD50332	270	30	55	90	595	130	150	48	8	PRAGATI SMT-80R-12
TD-VDI-SMT100R-12-40-320-D80	SD35001	SD50333	320	40	74	140	726	168	187	56	10	PRAGATI SMT-100R-12

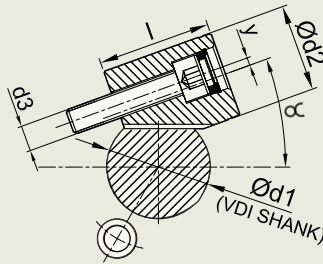
16 STATION

ITEM NAME	ARTICLE NO.		ØA (VDI)	ØB	C	ØD	~ØE	ØF	ØG	H	ØJ	TURRET TYPE
	RIGHT	LEFT										
TD-VDI-SMT80R-16-30-340-D80	SD50062	SD50334	340	30	55	90	665	130	150	48	8	PRAGATI SMT-80R-16

* RTD & SMT can be supplied as per customer drawings.

VDI ECCENTRIC CLAMPS (VEC) FOR STATIC TOOL DISCS

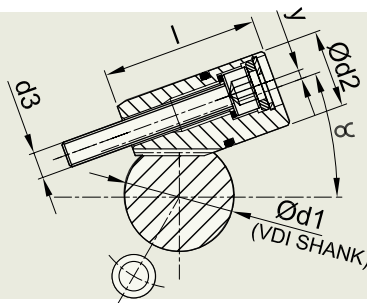
LOCKING CLAMPS



ARTICLE NO.	Ød1 (VDI SHANK)	Ød2	l	y	d3	α
VEC 20	16/20/25	20	25	2	M6	20°
VEC 22	30	22	34	2	M8	20°
VEC 26	30	26	32	3	M8	20°
VEC 28	40	28	42	3	M10	20°
VEC 30	40	30	42	3	M10	20°
VEC 34	40	34	44	3	M10	20°
VEC 44	50/60	44	50	3	M12	25°

VDI ECCENTRIC CLAMPS WITH O-RINGS (VECWO) FOR DRIVEN TOOL DISCS

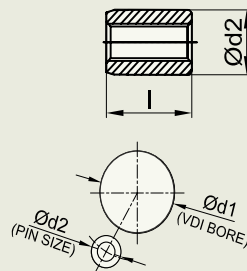
LOCKING CLAMPS



ARTICLE NO.	Ød1 (VDI SHANK)	Ød2	l	y	d3	α
VECWO 18	20/25	18	25	2	M6	20°
VECWO 22	30	22	34	2	M8	20°
VECWO 26	40	26	37	3	M8	20°
VECWO 28	40	28	40	3	M10	20°

ORIENTATION PINS (OP)

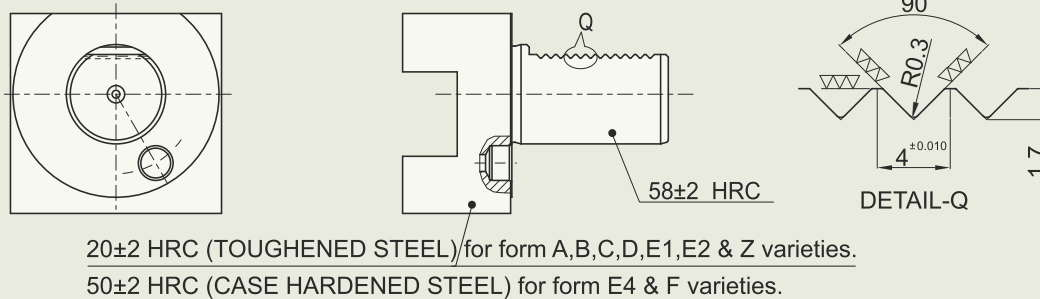
ARTICLE NO.	Ød1 (VDI BORE)	Ød2 (PIN SIZE)	l
OP 8X18	16	8	18
OP 10X22	20	9.99	22
OP 10X15	25	9.99	15
OP 14X20	30/40	13.94	20
OP 16X22	50/60	15.9	22



• Customised Locking Clamps Can be given upon request

VDI TECHNOLOGY

The VDI system is a quick change clamping systems for each tool holder within the tool disc. Tool changes can therefore be performed within seconds, rather than minutes as with the traditional block system.

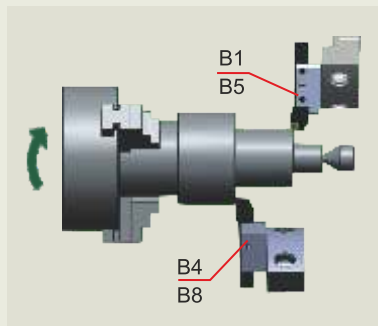


FEATURES

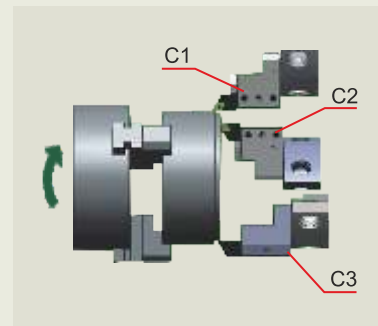
- VDI tool holders are made as per DIN 69880.
- Tool holders are made by toughened steel C-45 as well as case hardened steel 20MnCr5.
- Our standard supply will be in toughened steel C-45 for form A, B, C, D, E1, E2 & Z varieties.
- Case hardened steel 20MnCr5 for form E4 & F varieties.
- Our standard tool holders are fully blackened.
- Shank white, teeth white, tool holder seating surface white will be given on request.
- The tool holder shank portion are heat treated to 58±2 HRC, and the teeth are ground.

SELECTION OF VDI TOOL HOLDERS

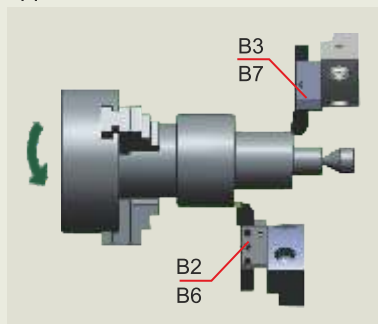
Spindle Rotation clockwise
application of OD Turn and Face



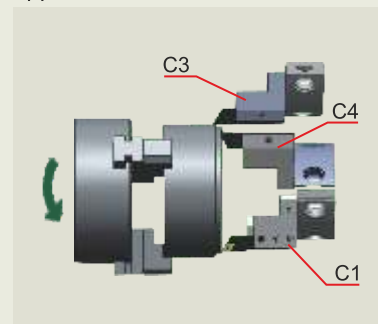
Spindle Rotation clockwise
application of Face and ID Bore



Spindle Rotation Anticlockwise
application of OD Turn and Face

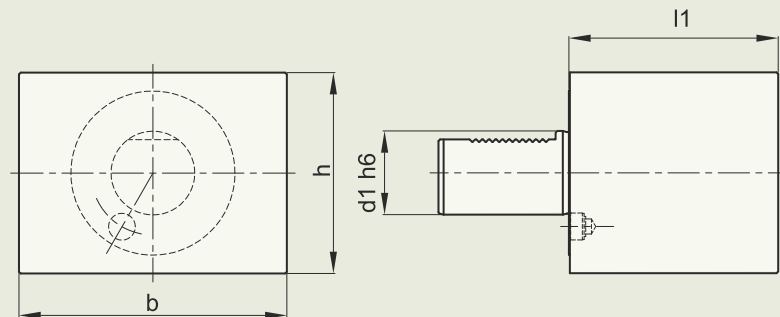


Spindle Rotation Anticlockwise
application of Face and ID Bore



PRE MACHINED BLANKS

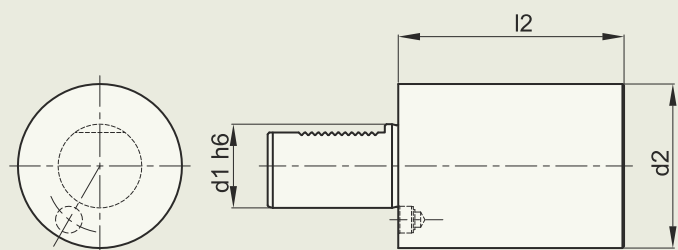
FORM A1



ARTICLE NO.	ITEM NAME	d1	l1	b	h
SD3808	A1 16x44	16	44	78	44
SD3408	A1 20x65	20	65	100	60
SD2501	A1 25x75	25	75	100	60
SD3608	A1 30x85	30	85	130	76
SD4408	A1 40x100	40	100	151	96
SD5008	A1 50x125	50	125	160	120
SD6011	A1 60x160	60	160	165	125

PRE MACHINED BLANKS

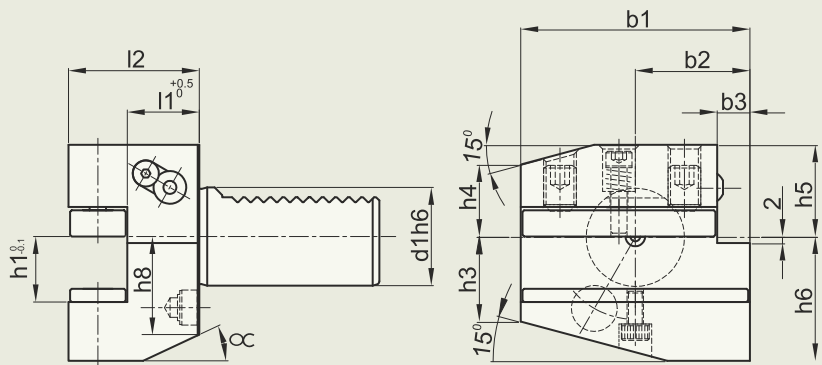
FORM A2



ARTICLE NO.	ITEM NAME	d1	d2	l2
SD3850	A2 16x60	16	40	60
SD3409	A2 20x70	20	50	70
SD2559	A2 25x80	25	58	80
SD3609	A2 30x100	30	68	100
SD4409	A2 40x120	40	83	120
SD5009	A2 50x135	50	98	135
SD6012	A2 60x150	60	123	150

RIGHT HAND SHORT-RADIAL

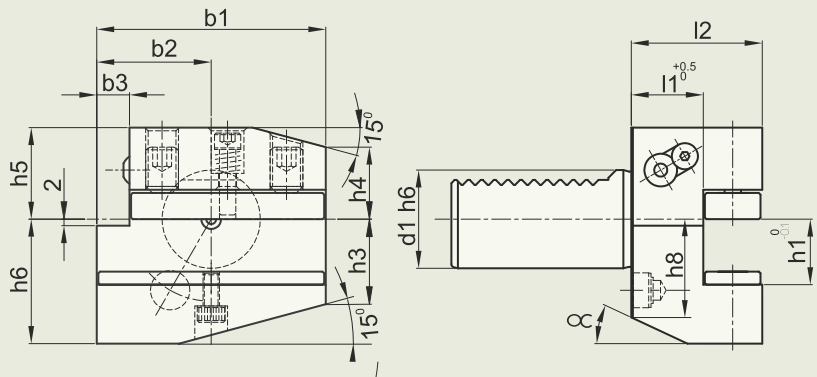
FORM B1



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	α
SD3802	B1 16 12 24	16	42	23	5	12	15	15	20	22	19	13	24	30°
SD3402	B1 20 16 30	20	55	30	7	16/12	19	19	25	30	23	16	30	30°
SD2503	B1 25 16 30	25	55	30	7	16/12	22.5	22.5	25	30	25	16	30	30°
SD3602	B1 30 20 40	30	70	35	10	20/16	26	22	28	38	30	22	40	25°
SD4402	B1 40 25 44	40	85	42.5	12.5	25/20	35	30	32.5	48	-	22	44	-
SD5002	B1 50 32 55	50	100	50	16	32/25	42	35	35	60	-	30	55	-
SD6013	B1 60 32 60	60	125	62.5	16	32/25	46	42.5	42.5	62.5	-	30	60	-

LEFT HAND SHORT-RADIAL

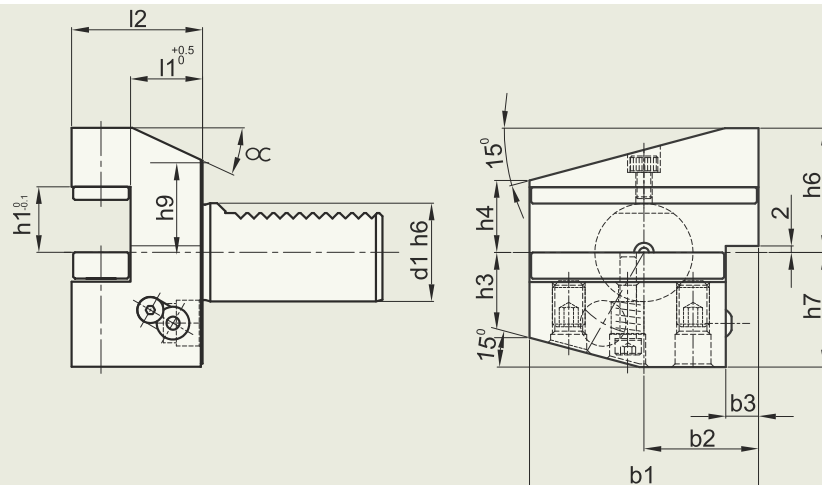
FORM B2



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	α
SD3902	B2 16 12 24	16	42	23	5	12	15	15	20	22	19	13	24	30°
SD3502	B2 20 16 30	20	55	30	7	16/12	19	19	25	30	23	16	30	30°
SD2504	B2 25 16 30	25	55	30	7	16/12	22.5	22.5	25	30	25	16	30	30°
SD3702	B2 30 20 40	30	70	35	10	20/16	26	22	28	38	30	22	40	25°
SD4502	B2 40 25 44	40	85	42.5	12.5	25/20	35	30	32.5	48	-	22	44	-
SD5102	B2 50 32 55	50	100	50	16	32/25	42	35	35	60	-	30	55	-
SD6014	B2 60 32 60	60	125	62.5	16	32/25	46	42.5	42.5	62.5	-	30	60	-

RIGHT HAND SHORT OVER HEAD-RADIAL

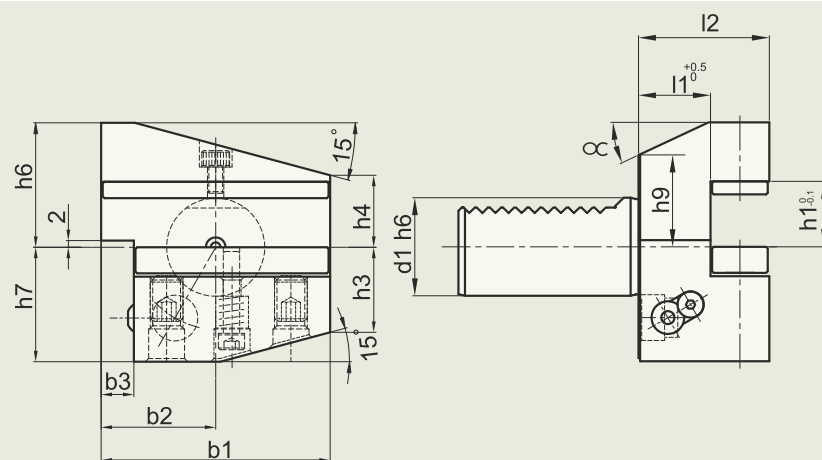
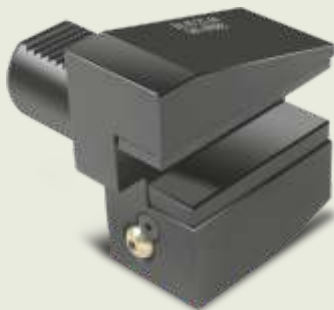
FORM B3



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h6	h7	h9	l1	l2	α
SD3803	B3 16 12 24	16	42	23	5	12	15	15	22	20	19	13	24	30°
SD3403	B3 20 16 30	20	55	30	7	16/12	19	19	30	25	23	16	30	30°
SD2592	B3 25 16 30	25	55	30	7	16/12	22.5	22.5	30	25	25	16	30	30°
SD3603	B3 30 20 40	30	70	35	10	20/16	26	22	38	35	28	22	40	25°
SD4403	B3 40 25 44	40	85	42.5	12.5	25/20	35	30	48	42.5	-	22	44	-
SD5003	B3 50 32 55	50	100	50	16	32/25	42	35	60	50	-	30	55	-
SD6015	B3 60 32 60	60	125	62.5	16	32/25	46	42.5	62.5	62.5	-	30	60	-

LEFT HAND SHORT OVER HEAD-RADIAL

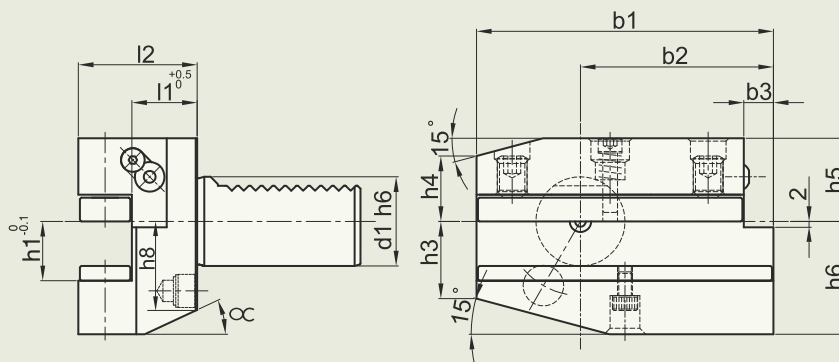
FORM B4



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h6	h7	h9	l1	l2	α
SD3903	B4 16 12 24	16	42	23	5	12	15	15	22	20	19	13	24	30°
SD3503	B4 20 16 30	20	55	30	7	16/12	19	19	30	25	23	16	30	30°
SD2506	B4 25 16 30	25	55	30	7	16/12	22.5	22.5	30	25	25	16	30	30°
SD3703	B4 30 20 40	30	70	35	10	20/16	26	22	38	35	28	22	40	25°
SD4503	B4 40 25 44	40	85	42.5	12.5	25/20	35	30	48	42.5	-	22	44	-
SD5103	B4 50 32 55	50	100	50	16	32/25	42	35	60	50	-	30	55	-
SD6016	B4 60 32 60	60	125	62.5	16	32/25	46	42.5	62.5	62.5	-	30	60	-

RIGHT HAND LONG-RADIAL

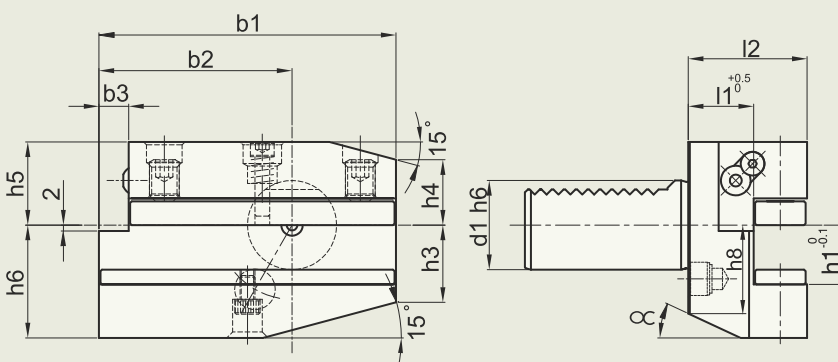
FORM B5



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	α
SD3804	B5 16 12 24	16	58	39	5	12	15	15	20	22	19	13	24	30°
SD3404	B5 20 16 30	20	75	50	7	16/12	19	19	25	30	23	16	30	30°
SD2507	B5 25 16 30	25	75	50	7	16/12	22.5	22.5	25	30	25	16	30	30°
SD3604	B5 30 20 40	30	100	65	10	20/16	26	22	28	38	30	22	40	25°
SD4404	B5 40 25 44	40	118	75.5	12.5	25/20	35	30	32.5	48	-	22	44	-
SD5004	B5 50 32 55	50	130	80	16	32/25	42	35	35	60	-	30	55	-
SD6017	B5 60 32 60	60	145	82.5	16	32/25	46	42.5	42.5	62.5	-	30	60	-

LEFT HAND LONG-RADIAL

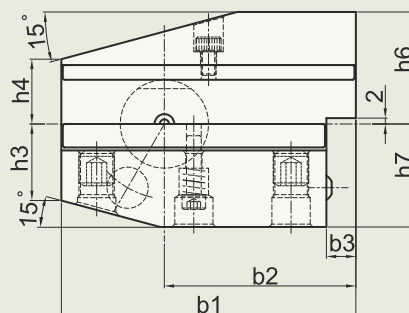
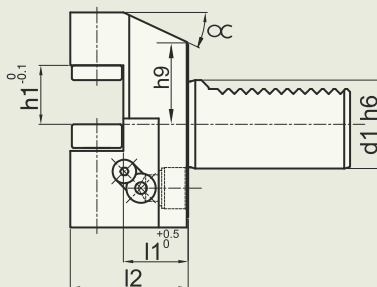
FORM B6



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	α
SD3904	B6 16 12 24	16	58	39	5	12	15	15	20	22	19	13	24	30°
SD3504	B6 20 16 30	20	75	50	7	16/12	19	19	25	30	23	16	30	30°
SD2508	B6 25 16 30	25	75	50	7	16/12	22.5	22.5	25	30	25	16	30	30°
SD3708	B6 30 20 40	30	100	65	10	20/16	26	22	28	38	30	22	40	25°
SD4504	B6 40 25 44	40	118	75.5	12.5	25/20	35	30	32.5	48	-	22	44	-
SD5104	B6 50 32 55	50	130	80	16	32/25	42	35	35	60	-	30	55	-
SD6018	B6 60 32 60	60	145	82.5	16	32/25	46	42.5	42.5	62.5	-	30	60	-

RIGHT HAND LONG OVER HEAD-RADIAL

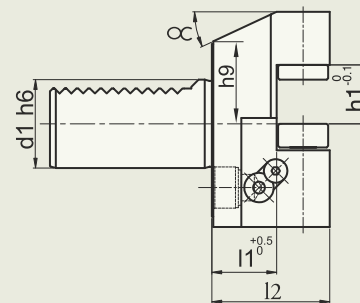
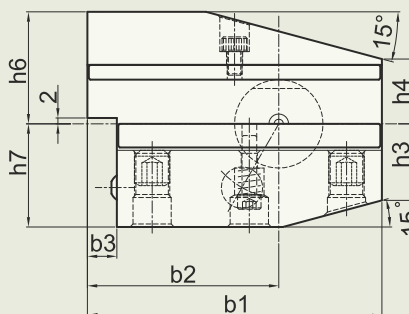
FORM B7



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h6	h7	h9	l1	l2	α
SD3805	B7 16 12 24	16	58	39	5	12	15	15	22	20	19	13	24	30°
SD3405	B7 20 16 30	20	75	50	7	16/12	19	19	30	25	23	16	30	30°
SD2509	B7 25 16 30	25	75	50	7	16/12	22.5	22.5	30	25	25	16	30	30°
SD3605	B7 30 20 40	30	100	65	10	20/16	26	22	38	35	28	22	40	25°
SD4405	B7 40 25 44	40	118	75.5	12.5	25/20	35	30	48	42.5	-	22	44	-
SD5005	B7 50 32 55	50	130	80	16	32/25	42	35	60	50	-	30	55	-
SD6019	B7 60 32 60	60	145	82.5	16	32/25	46	42.5	62.5	62.5	-	30	60	-

LEFT HAND LONG OVER HEAD-RADIAL

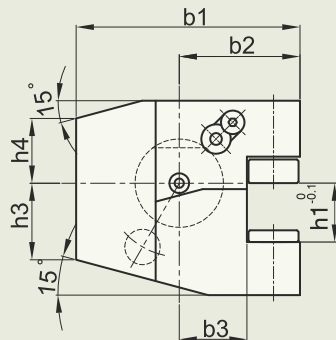
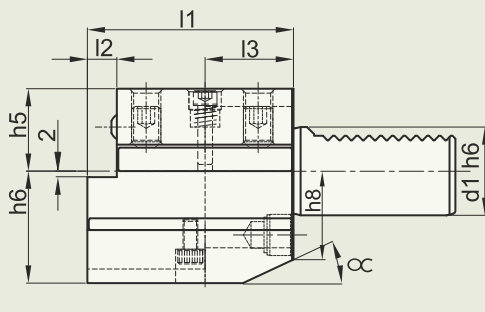
FORM B8



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h6	h7	h9	l1	l2	α
SD3905	B8 16 12 24	16	58	39	5	12	15	15	22	20	19	13	24	30°
SD3505	B8 20 16 30	20	75	50	7	16/12	19	19	30	25	23	16	30	30°
SD2593	B8 25 16 30	25	75	50	7	16/12	22.5	22.5	30	25	25	16	30	30°
SD3704	B8 30 20 40	30	100	65	10	20/16	26	22	38	35	28	22	40	25°
SD4505	B8 40 25 44	40	118	75.5	12.5	25/20	35	30	48	42.5	-	22	44	-
SD5105	B8 50 32 55	50	130	80	16	32/25	42	35	60	50	-	30	55	-
SD6020	B8 60 32 60	60	145	82.5	16	32/25	46	42.5	62.5	62.5	-	30	60	-

RIGHT HAND -AXIAL

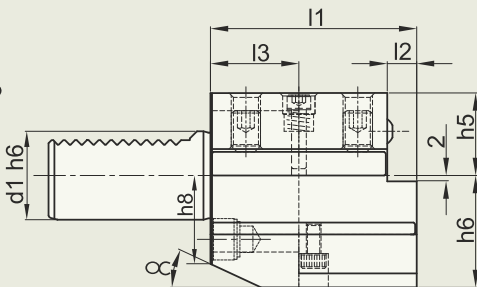
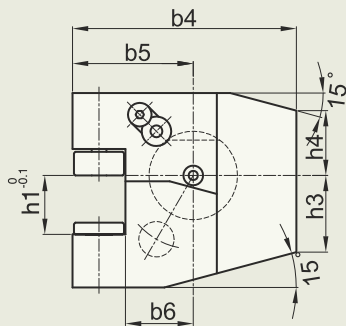
FORM C1



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	l3	α
SD3806	C1 16 12 44	16	43	24	13	12	15	15	20	22	19	44	5	20	30°
SD3406	C1 20 16 55	20	52	27	13	16/12	19	19	25	30	23	55	7	30	30°
SD2511	C1 25 16 55	25	58	33	19	16/12	22.5	22.5	25	30	25	55	7	20	30°
SD3606	C1 30 20 70	30	70	35	17	20/16	26	22	28	38	30	70	10	30	25°
SD4406	C1 40 25 85	40	85	42.5	21	25/20	35	30	32.5	48	40	85	12.5	30	15°
SD5006	C1 50 32 100	50	100	50	26	32/25	42	35	35	60	-	100	16	40	-
SD6021	C1 60 32 125	60	125	62.5	33	32/25	46	42.5	42.5	62.5	-	125	16	40	-

LEFT HAND -AXIAL

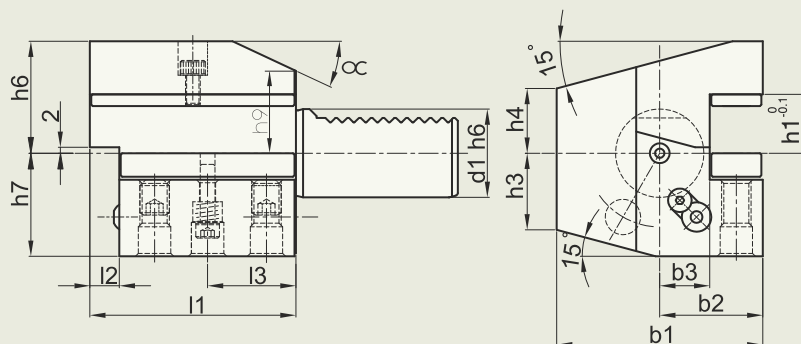
FORM C2



ARTICLE NO.	ITEM NAME	d1	b4	b5	b6	h1	h3	h4	h5	h6	h8	l1	l2	l3	α
SD3906	C2 16 12 44	16	43	24	13	12	15	15	20	22	19	44	5	20	30°
SD3506	C2 20 16 55	20	57	32	18	16/12	19	19	25	30	23	55	7	30	30°
SD2512	C2 25 16 55	25	58	33	19	16/12	22.5	22.5	25	30	25	55	7	20	30°
SD3705	C2 30 20 70	30	76	41	23	20/16	26	22	28	38	30	70	10	30	25°
SD4506	C2 40 25 85	40	90	47.5	25.5	25/20	35	30	32.5	48	40	85	12.5	30	15°
SD5106	C2 50 32 100	50	105	55	30.5	32/25	42	35	35	60	-	100	16	40	-
SD6022	C2 60 32 125	60	125	62.5	33	32/25	46	42.5	42.5	62.5	-	125	16	40	-

RIGHT HAND OVER HEAD-AXIAL

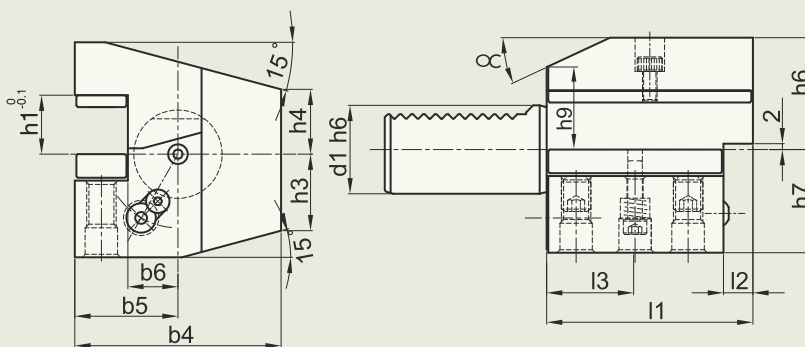
FORM C3



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h6	h7	h9	l1	l2	l3	α
SD3807	C3 16 12 44	16	43	24	13	12	15	15	22	20	19	44	5	20	30°
SD3407	C3 20 16 55	20	52	27	13	16/12	19	19	30	25	23	55	7	30	30°
SD2513	C3 25 16 55	25	58	33	19	16/12	22.5	22.5	30	25	25	55	7	20	30°
SD3607	C3 30 20 70	30	70	35	17	20/16	26	22	38	35	28	70	10	30	25°
SD4407	C3 40 25 85	40	85	42.5	21	25/20	35	30	48	42.5	40	85	12.5	30	15°
SD5007	C3 50 32 100	50	100	50	26	32/25	42	35	60	50	-	100	16	40	-
SD6023	C3 60 32 125	60	125	62.5	33	32/25	46	42.5	62.5	62.5	-	125	16	40	-

LEFT HAND OVER HEAD -AXIAL

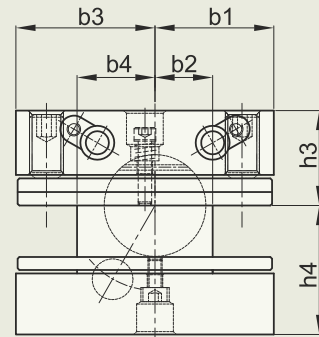
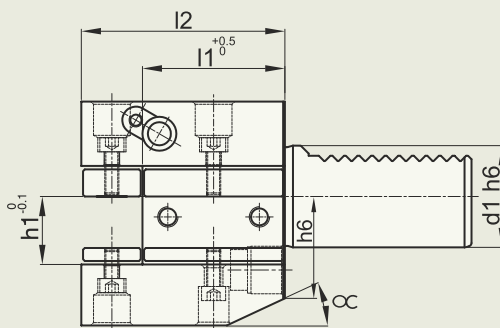
FORM C4



ARTICLE NO.	ITEM NAME	d1	b4	b5	b6	h1	h3	h4	h6	h7	h9	l1	l2	l3	α
SD3907	C4 16 12 44	16	43	24	13	12	15	15	22	20	19	44	5	20	30°
SD3507	C4 20 16 55	20	57	32	18	16/12	19	19	30	25	23	55	7	30	30°
SD2514	C4 25 16 55	25	58	33	19	16/12	22.5	22.5	30	25	25	55	7	20	30°
SD3706	C4 30 20 70	30	76	41	23	20/16	26	22	38	35	28	70	10	30	25°
SD4507	C4 40 25 85	40	90	47.5	25.5	25/20	35	30	48	42.5	40	85	12.5	30	15°
SD5107	C4 50 32 100	50	105	55	30.5	32/25	42	35	60	50	-	100	16	40	-
SD6024	C4 60 32 125	60	125	62.5	33	32/25	46	42.5	62.5	62.5	-	125	16	40	-

MULTIPLE SQUARE SEATS HOLDER

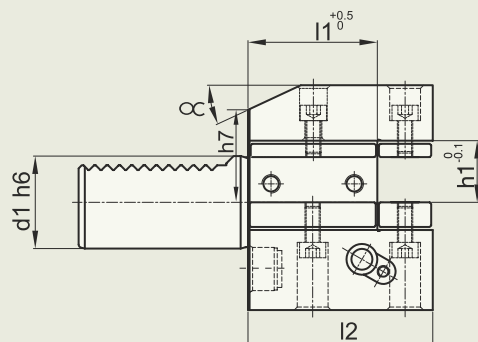
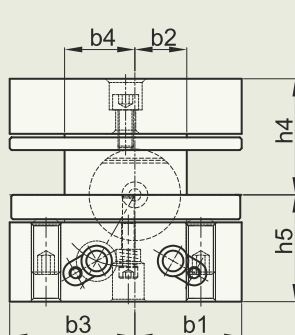
FORM D1



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	b4	h1	h3	h4	h6	l1	l2	α
SD2515	D1 25 16 48	25	33	19	33	19	16/12	25	30	25	34	48	30°
SD6510	D1 30 20 60	30	35	17	41	23	20/16	28	38	30	42	60	25°
SD6512	D1 40 25 72	40	42.5	21	47.5	25.5	25/20	32.5	48	40	50	72	15°
SD6514	D1 50 32 85	50	50	26	55	30.5	32/25	35	60	-	60	85	-
SD6516	D1 60 32 110	60	57.5	33	57.5	33	32/25	42.5	62.5	-	85	110	-

MULTIPLE SQUARE SEATS OVERHEAD

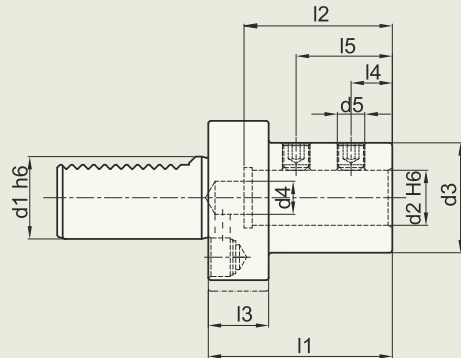
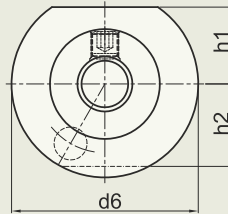
FORM D2



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	b4	h1	h4	h5	h7	l1	l2	α
SD2516	D2 25 16 48	25	33	19	33	19	16/12	30	25	25	34	48	30°
SD6511	D2 30 20 60	30	35	17	41	23	20/16	38	35	28	42	60	25°
SD6513	D2 40 25 72	40	42.5	21	47.5	25.5	25/20	48	42.5	40	50	72	15°
SD6515	D2 50 32 85	50	50	26	55	30.5	32/25	60	50	-	60	85	-
SD6517	D2 60 32 110	60	57.5	33	57.5	33	32/25	62.5	62.5	-	85	110	-

THROUGH COOLANT BORING BAR HOLDERS

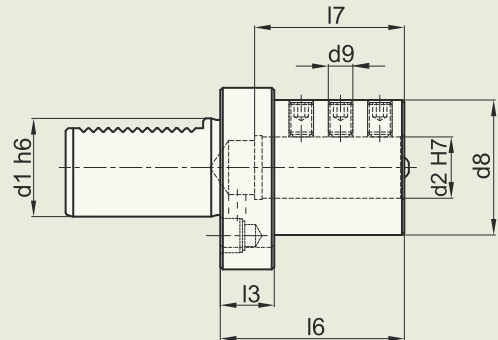
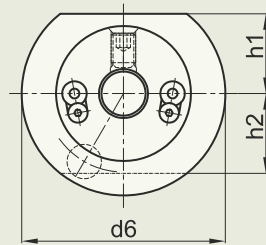
FORM E1



ARTICLE NO.	ITEM NAME	d1	d2	d3	d4	d5	d6	h1	h2	l1	l2	l3	l4	l5
SD3421	E1 20x16	20	16	36	12	M10x1	50	-	23	64	51	18	15	35
SD3422	E1 20x20	20	20	40	12	M10x1	50	-	23	67	54	18	15	35
SD3423	E1 20x25	20	25	45	17	M12x1	50	-	23	71	59	18	17	40
SD2522	E1 25x16	25	16	36	12	M10x1	58	25	25	64	51	18	15	35
SD2523	E1 25x20	25	20	40	12	M10x1	58	25	25	67	54	18	15	35
SD2524	E1 25x25	25	25	45	17	M12x1	58	25	25	71	59	18	17	40
SD3622	E1 30x16	30	16	36	12	M10x1	68	28	30	64	51	22	15	35
SD3623	E1 30x20	30	20	40	12	M10x1	68	28	30	67	54	22	15	35
SD3624	E1 30x25	30	25	45	17	M12x1	68	28	30	71	59	22	17	40
SD3625	E1 30x32	30	32	52	24	M12x1	68	28	30	75	63	22	17	44
SD3626	E1 30x40	30	40	65	32	M16x1	68	28	30	90	73	22	22	50
SD4426	E1 40x16	40	16	36	12	M10x1	83	32.5	-	64	51	22	15	35
SD4427	E1 40x20	40	20	40	12	M10x1	83	32.5	-	67	54	22	15	35
SD4428	E1 40x25	40	25	45	17	M12x1	83	32.5	-	75	59	22	17	40
SD4429	E1 40x32	40	32	52	24	M12x1	83	32.5	-	75	63	22	17	44
SD4430	E1 40x40	40	40	65	32	M16x1	83	32.5	-	90	73	22	22	50
SD4425	E1 40x50	40	50	75	25	M16x1	83	35	-	100	83	22	24	60
SD5021	E1 50x20	50	20	40	12	M10x1	98	35	-	67	54	30	15	35
SD5022	E1 50x25	50	25	45	17	M12x1	98	35	-	80	59	30	17	40
SD5023	E1 50x32	50	32	52	24	M12x1	98	35	-	80	63	30	17	44
SD5024	E1 50x40	50	40	65	32	M16x1	98	35	-	90	73	30	22	50
SD5025	E1 50x50	50	50	75	42	M16x1	98	35	-	100	83	30	24	60
SD6027	E1 60x20	60	20	40	12	M10x1	123	42.5	-	80	54	30	15	35
SD6028	E1 60x25	60	25	45	17	M12x1	123	42.5	-	80	59	30	17	40
SD6029	E1 60x32	60	32	52	24	M12x1	123	42.5	-	80	63	30	17	44
SD6030	E1 60x40	60	40	65	32	M16x1	123	42.5	-	90	73	30	22	50
SD6031	E1 60x50	60	50	75	42	M16x1	123	42.5	-	100	83	30	24	60

BORING BAR HOLDERS

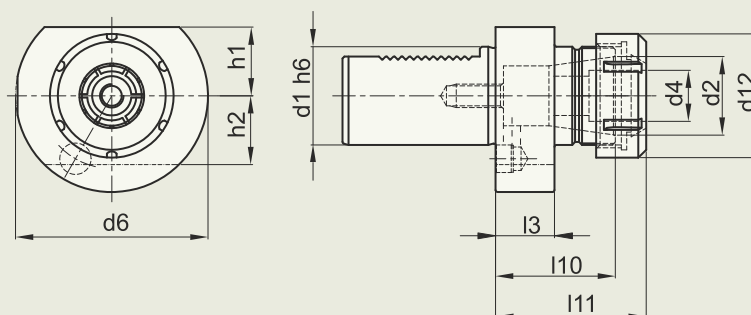
FORM E2



ARTICLE NO.	ITEM NAME	d1	d2	d6	d8	d9	h1	h2	l3	l6	l7
SD3810	E2 16x6	16	6	40	32	M6	18	18	13	44	34
SD3811	E2 16x8	16	8	40	32	M6	18	18	13	44	34
SD3812	E2 16x10	16	10	40	32	M6	18	18	13	44	34
SD3813	E2 16x12	16	12	40	40	M8	18	18	-	44	34
SD3814	E2 16x16	16	16	40	40	M8	18	18	-	44	34
SD3415	E2 20x8	20	8	50	40	M6	-	23	18	50	41
SD3416	E2 20x10	20	10	50	40	M6	-	23	18	50	41
SD3417	E2 20x12	20	12	50	40	M8	-	23	18	50	41
SD3418	E2 20x16	20	16	50	40	M8	-	23	18	50	41
SD3419	E2 20x20	20	20	50	50	M8	-	23	-	50	41
SD3420	E2 20x25	20	25	50	50	M8	-	23	-	60	51
SD2526	E2 25x8	25	8	58	40	M6	25	25	18	50	41
SD2527	E2 25x10	25	10	58	40	M6	25	25	18	50	41
SD2528	E2 25x12	25	12	58	40	M8	25	25	18	50	41
SD2529	E2 25x16	25	16	58	40	M8	25	25	18	50	41
SD2530	E2 25x20	25	20	58	58	M8	25	25	18	50	41
SD2531	E2 25x25	25	25	58	58	M8	25	25	18	60	51
SD3616	E2 30x8	30	8	68	55	M6	28	30	22	60	51
SD3617	E2 30x10	30	10	68	55	M6	28	30	22	60	51
SD3618	E2 30x12	30	12	68	55	M8	28	30	22	60	51
SD3619	E2 30x16	30	16	68	55	M8	28	30	22	60	51
SD3620	E2 30x20	30	20	68	55	M8	28	30	22	60	51
SD3621	E2 30x25	30	25	68	55	M8	28	30	22	60	51
SD3630	E2 30x32	30	32	68	68	M8	28	30	-	75	61
SD3628	E2 30X40	30	40	68	68	M10	28	30	-	90	76
SD4417	E2 40x8	40	8	83	55	M6	32.5	-	22	75	51
SD4418	E2 40x10	40	10	83	55	M8	32.5	-	22	75	51
SD4419	E2 40x12	40	12	83	55	M8	32.5	-	22	75	61
SD4420	E2 40x16	40	16	83	55	M10	32.5	-	22	75	61
SD4421	E2 40x20	40	20	83	55	M10	32.5	-	22	75	61
SD4422	E2 40x25	40	25	83	55	M10	32.5	-	22	75	61
SD4423	E2 40x32	40	32	83	83	M10	32.5	-	-	75	61
SD4424	E2 40x40	40	40	83	83	M10	32.5	-	-	90	76
SD4432	E2 40x50	40	50	83	83	M10	35	-	-	100	86
SD5028	E2 50X12	50	12	98	68	M10	35	-	30	90	76
SD5015	E2 50x16	50	16	98	68	M10	35	-	30	90	76
SD5016	E2 50x20	50	20	98	68	M12	35	-	30	90	76
SD5017	E2 50x25	50	25	98	68	M12	35	-	30	90	76
SD5018	E2 50x32	50	32	98	68	M12	35	-	30	90	76
SD5019	E2 50x40	50	40	98	98	M12	35	-	-	90	76
SD5020	E2 50x50	50	50	98	98	M12	35	-	-	100	86
SD6032	E2 60x16	60	16	123	68	M10	42.5	-	30	90	76
SD6033	E2 60x20	60	20	123	68	M12	42.5	-	30	90	76
SD6034	E2 60x25	60	25	123	68	M12	42.5	-	30	90	76
SD6035	E2 60x32	60	32	123	68	M12	42.5	-	30	90	76
SD6036	E2 60x40	60	40	123	98	M12	42.5	-	30	90	76
SD6037	E2 60x50	60	50	123	98	M12	42.5	-	30	100	86

COLLET CHUCKS AS PER DIN 6499

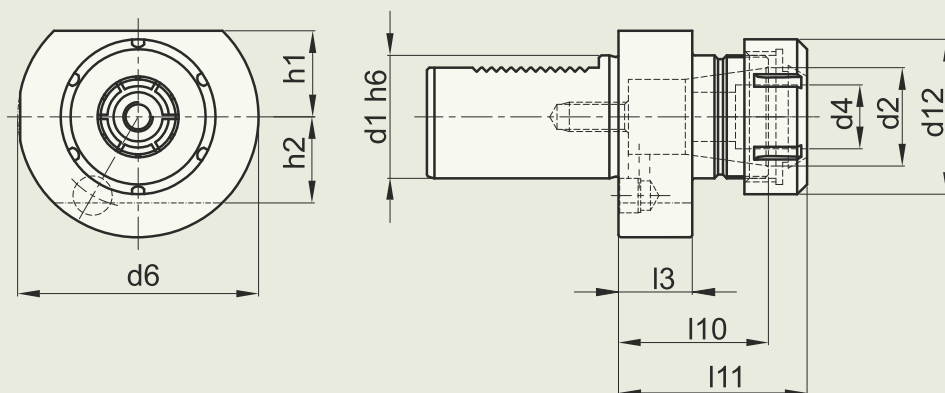
FORM E3



ARTICLE NO.	ITEM NAME	d1	d2	d4	d6	d12	h1	h2	l3	l10	l11
SD3819	E3 16x12	16	12	1-12	40	35	18	18	13	36	45.5
SD3426	E3 20x16	20	16	2-16	50	43	-	23	18	42	57
SD34122	E3 20x20	20	20	2-20	50	50	-	25	18	46	62
SD2533	E3 25x16	25	16	2-16	58	43	25	25	18	42	57
SD2534	E3 25x20	25	20	2-20	58	50	25	30	18	46	62
SD3710	E3 30x16	30	16	2-16	68	43	28	30	22	42	57
SD3632	E3 30x25	30	25	2-25	68	60	28	-	22	59	75
SD4433	E3 40x25	40	25	2-25	83	60	32.5	-	22	59	75
SD4434	E3 40x32	40	32	4-32	83	72	32.5	-	22	73	90
SD5034	E3 50x25	50	25	2-25	98	60	35	-	30	59	75
SD5035	E3 50x32	50	32	4-32	98	72	35	-	30	73	90
SD60441	E3 60x25	60	25	2-25	123	60	42.5	-	30	59	75
SD6045	E3 60x32	60	32	4-32	123	72	42.5	-	30	73	90
SD6058	E3 60x40	60	40	6-29.5	123	85	42.5	-	30	82	100

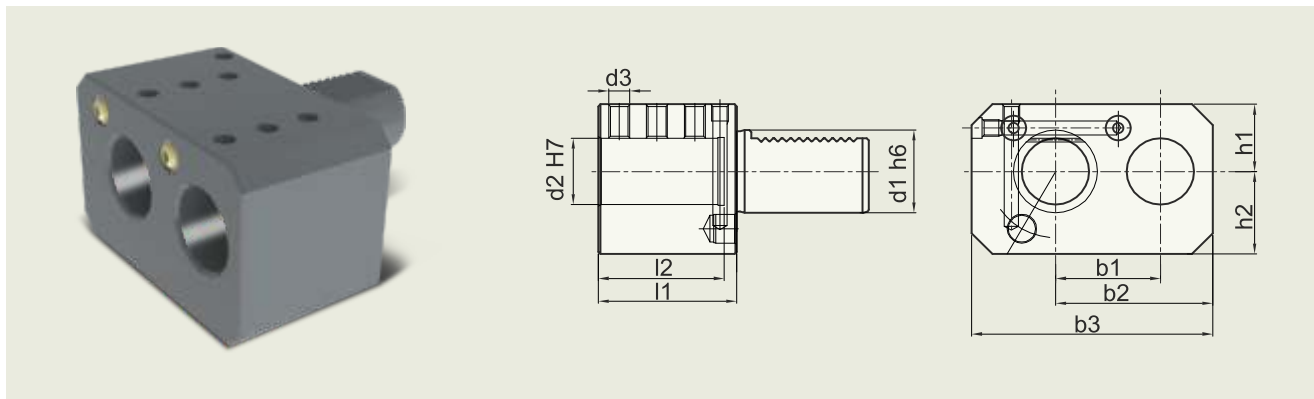
COLLET CHUCKS AS PER DIN 6499

FORM E4



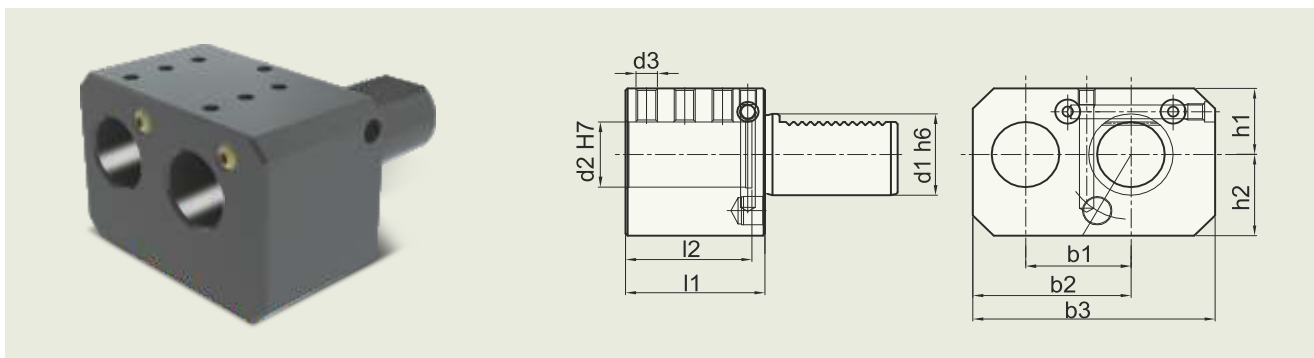
ARTICLE NO.	ITEM NAME	d1	d2	d4	d6	d12	h1	h2	l3	l10	l11
SD3815	E4 16x16	16	16	0.5-10	40	28	18	-	13	27.5	34.5
SD3816	E4 16x20	16	20	1-13	40	34	18	18	13	32.5	44
SD3412	E4 20x16	20	16	0.5-10	50	28	-	23	18	32.5	44
SD3413	E4 20x20	20	20	1-13	50	34	-	23	18	32.5	44
SD3414	E4 20x25	20	25	1-16	50	42	-	23	18	38	50
SD2537	E4 25x20	25	25	1-13	58	34	25	25	18	32.5	44
SD3514	E4 25x25	25	25	1-16	58	42	25	25	18	45	57
SD3515	E4 25x32	32	25	2-20	58	50	25	25	18	49.5	62
SD3613	E4 30x25	30	25	1-16	68	42	28	30	22	45	57
SD3614	E4 30x32	30	32	2-20	68	50	28	30	22	49.5	62.5
SD3615	E4 30x40	30	40	3-26	68	63	28	30	22	56	70
SD4413	E4 40x25	40	25	1-16	83	42	32.5	-	22	49.5	62
SD4414	E4 40x32	40	32	2-20	83	50	32.5	-	22	49.5	62
SD4415	E4 40x40	40	40	3-26	83	63	32.5	-	22	61	75
SD5037	E4 50x25	50	25	1-16	98	42	35	-	22	45	57
SD5030	E4 50x32	50	32	2-20	98	50	35	-	30	61	75
SD5014	E4 50x40	50	40	3-26	98	63	35	-	30	61	75
SD6093	E4 60x32	60	32	2-20	123	50	42.5	-	30	61	75
SD6038	E4 60x40	60	40	3-26	123	63	42.5	-	30	61	75

FORM E7 (DOUBLE BORING BAR HOLDER - RIGHT)



ARTICLE NO.	ITEM NAME	d1	d2	h1	h2	l1	l2	b1	b2	b3	d3
SD3692	E7 20 16	20	16	25	25	45	42	32	51	76	M8
SD3685	E7 20 20	20	20	25	25	45	42	32	51	76	M8
SD3683	E7 30 25	30	25	28	32	56	52	45	65	95	M8
SD3785	E7 30 32	30	32	28	32	66	60	50	75	110	M8
SD4449	E7 40 32	40	32	32.5	40	66	60	50	75	115	M10
SD4448	E7 40 40	40	40	32.5	40	90	80	50	75	115	M10
SD5056	E7 50 32	50	32	32.5	47.5	66	60	50	75	115	M12
SD3985	E7 50 40	50	40	32.5	47.5	90	80	50	75	115	M12
SD5057	E7 50 50	50	50	35	49	115	100	68	103	152	M12
SD6070	E7 60 60	60	60	49	58	137	120	85	125	174	M16

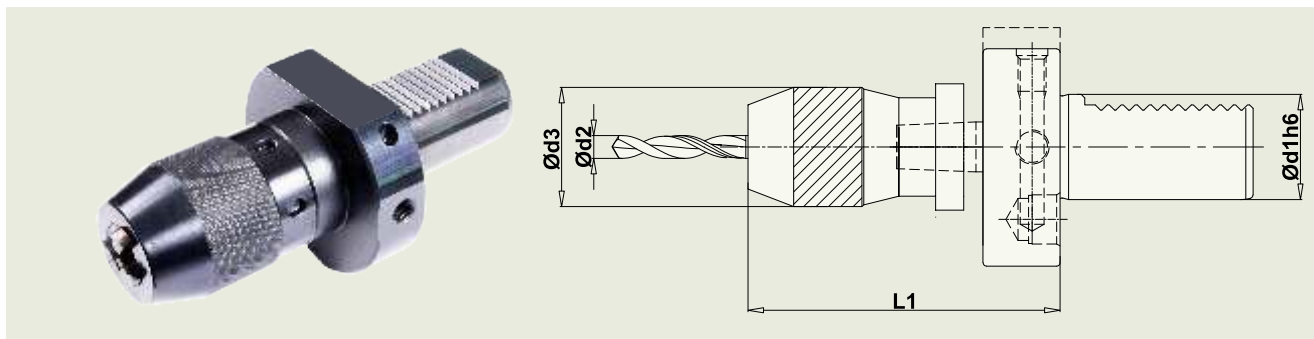
FORM E8 (DOUBLE BORING BAR HOLDER - LEFT)



ARTICLE NO.	ITEM NAME	d1	d2	h1	h2	l1	l2	b1	b2	b3	d3
SD3474	E8 20 16	20	16	25	25	45	42	32	51	76	M8
SD3686	E8 20 20	20	20	25	25	45	42	32	51	76	M8
SD3684	E8 30 25	30	25	28	32	56	52	45	65	95	M8
SD36180	E8 30 32	30	32	28	32	66	60	50	75	110	M8
SD4495	E8 40 32	40	32	32.5	40	66	60	50	75	115	M10
SD44132	E8 40 40	40	40	32.5	40	90	80	50	75	115	M10
SD5054	E8 50 32	50	32	32.5	47.5	66	60	50	75	115	M12
SD50205	E8 50 40	50	40	32.5	47.5	90	80	50	75	115	M12
SD5055	E8 50 50	50	50	35	49	115	100	68	103	152	M12
SD60125	E8 60 60	60	60	49	58	137	120	85	125	174	M16

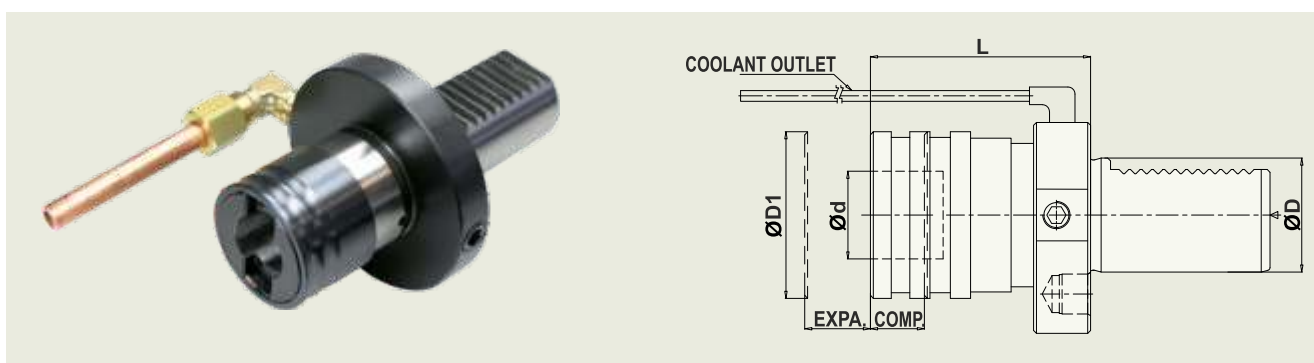
* Customised design can be supplied upon request

VDI DRILL CHUCK



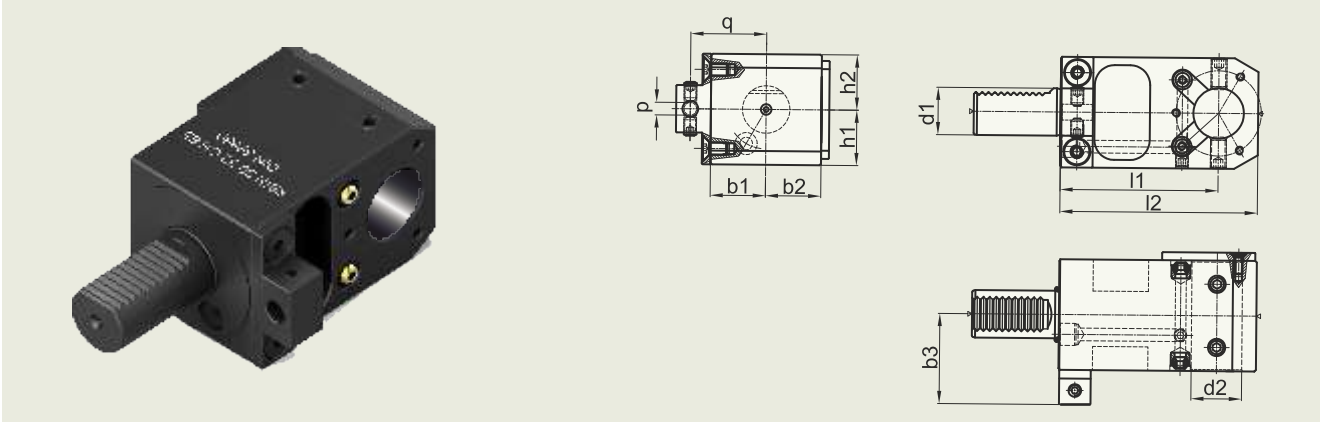
ARTICLE NO.	ITEM NAME	d1	d2	d3	L1
SD38123	D16 Shank Drill Chuck Holder	16	(0-6.5)	34	78
SD3431	D20 Shank Drill Chuck Holder	20	(0-6.5)	34	80
SD3531	D30 Shank Drill Chuck Holder	30	(0-6.5)	34	89
SD3530	D30 Shank Drill Chuck Holder	30	(1-13)	50	117
SD3532	D40 Shank Drill Chuck Holder	40	(0-6.5)	34	90
SD3533	D40 Shank Drill Chuck Holder	40	(1-13)	50	119
SD3537	D40 Shank Drill Chuck Holder	40	(3-16)	56.4	126
SD50260	D50 Shank Drill Chuck Holder	50	(1-13)	50	126
SD6047	D60 Shank Drill Chuck Holder	60	(3-16)	56.4	126.5

VDI TAPPING CHUCK



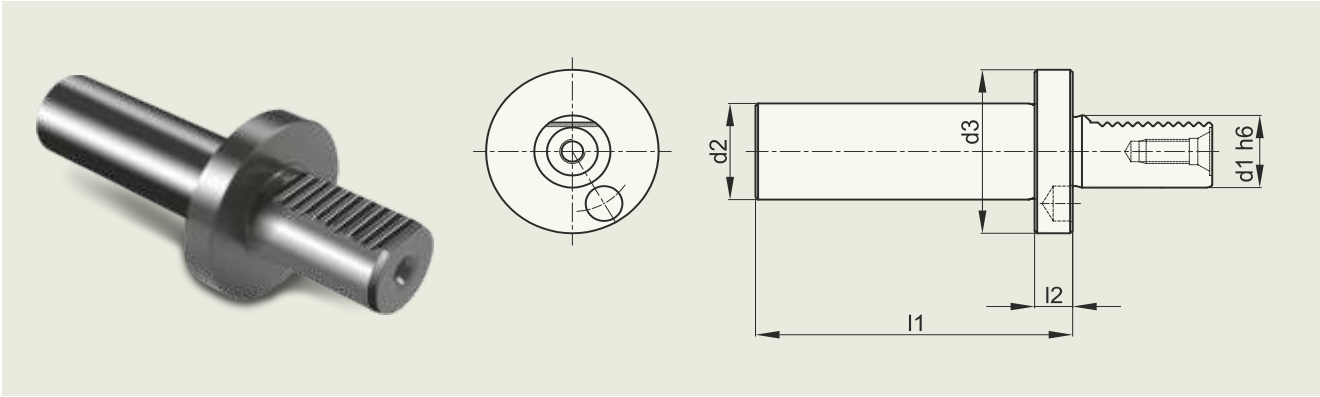
ARTICLE NO.	ITEM NAME	D	d	D1	L	Tap Size	Compression	Expansion
SD36450	VDI30 TAPPING CHUCK (M3-M12)	VDI30	19	36	61.5	M3-M12	7.5	7.5
SD36451	VDI30 TAPPING CHUCK (M5-M20)	VDI30	31	53	84	M5-M20	7.5	7.5
SD44562	VDI40 TAPPING CHUCK (M3-M12)	VDI40	19	36	61.5	M3-M12	7.5	7.5
SD44657	VDI40 TAPPING CHUCK (M5-M20)	VDI40	31	53	84	M5-M20	7.5	7.5
SD50489	VDI50 TAPPING CHUCK (M3-M12)	VDI50	19	36	61.5	M3-M12	7.5	7.5
SD50463	VDI50 TAPPING CHUCK (M5-M20)	VDI50	31	53	80	M5-M20	7.5	7.5

RBTH (RADIAL BORING TOOL HOLDER FOR RADIAL TOOL DISC



ARTICLE NO.	ITEM NAME	d1	d2	h1	h2	b1	b2	b3	l1	l2	p	q
SD4170	RBTH 25 25 CH-75	25	25	32	32	35	35	57	75	100	8	40
SD4496	RBTH 25 32 CH-75	25	32	32	32	35	35	57	75	100	8	40
SD3645	RBTH 30 25 CH-85	30	25	35	35	35	35	57	85	110	8	48
SD3644	RBTH 30 32 CH-85	30	32	35	35	35	35	57	85	110	8	48
SD3646	RBTH 30 40 CH-85	30	40	35	35	35	35	57	85	110	8	48
SD36559	RBTH 30 25 CH-100	30	25	35	35	35	35	57	100	125	8	48
SD3634	RBTH 30 32 CH-100	30	32	35	35	35	35	57	100	125	8	48
SD3687	RBTH 30 40 CH-100	30	40	35	35	35	35	57	100	125	8	48
SD44159	RBTH 40 25 CH-100	40	25	38	38	45	45	65	100	130	10	56
SD44160	RBTH 40 32 CH-100	40	32	38	38	45	45	65	100	130	10	56
SD4435	RBTH 40 40 CH-100	40	40	38	38	45	45	65	100	130	10	56
SD5071	RBTH 50 50 CH-120	50	50	48	48	50	50	73.5	120	155	10	63

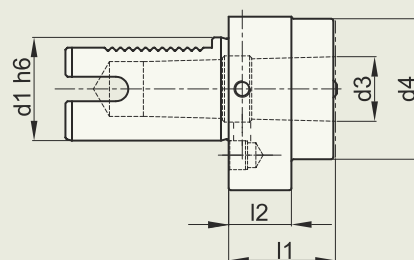
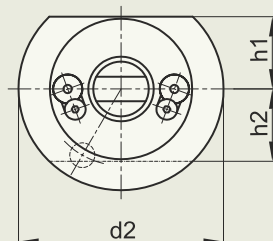
TEST MANDREL



ARTICLE NO.	ITEM NAME	d1	d2	d3	l1	l2
SD3823	Y 16	16	30	40	125	15
SD3429	Y 20	20	40	50	125	15
SD5205	Y 25	25	40	58	125	15
SD3633	Y 30	30	40	68	125	15
SD44351	Y 40	40	40	83	125	15
Sd50371	Y 50	50	40	98	125	15
SD60041	Y 60	60	40	123	125	15

MORSE TAPER HOLDERS

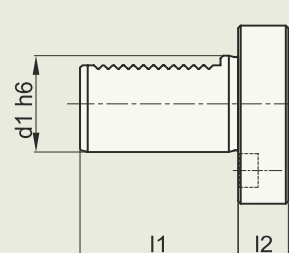
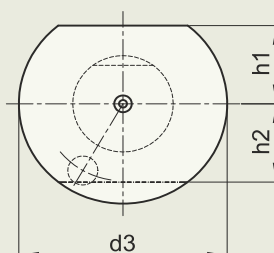
FORM F



ARTICLE NO.	ITEM NAME	d1	d2	MT	d3	d4	h1	h2	l1	l2
SD3818	F 16 MT 1	16	40	1	12.065	-	18	18	50	-
SD3826	F 16 MT 2	16	40	2	17.780	-	18	18	87	-
SD3411	F 20 MT 1	20	50	1	12.065	-	-	23	23	-
SD3425	F 20 MT 2	20	50	2	17.780	-	-	23	61	-
SD2547	F 25 MT 1	25	58	1	12.065	-	25	25	23	-
SD2548	F 25 MT 2	25	58	2	17.780	-	25	25	27	-
SD3629	F 30 MT 1	30	68	1	12.065	-	28	30	27	-
SD3611	F 30 MT 2	30	68	2	17.780	-	28	30	27	-
SD3612	F 30 MT 3	30	68	3	23.825	-	28	30	73	-
SD4431	F 40 MT 1	40	83	1	12.065	55	32.5	-	36	22
SD4416	F 40 MT 2	40	83	2	17.780	55	32.5	-	36	22
SD4411	F 40 MT 3	40	83	3	23.825	58	32.5	-	36	22
SD4412	F 40 MT 4	40	83	4	31.267	68	32.5	-	80	22
SD5064	F 50 MT 1	50	98	1	12.065	55	35	-	36	30
SD5011	F 50 MT 2	50	98	2	17.780	55	35	-	36	30
SD5012	F 50 MT 3	50	98	3	23.825	58	35	-	36	30
SD5013	F 50 MT 4	50	98	4	31.267	68	35	-	50	30
SD5029	F 50 MT 5	50	98	5	44.399	98	35	-	169	-
SD6043	F 60 MT 2	60	123	2	17.780	55	42.5	-	36	30
SD6039	F 60 MT 3	60	123	3	23.825	58	42.5	-	36	30
SD6040	F 60 MT 4	60	123	4	31.267	68	42.5	-	50	30
SD6041	F 60 MT 5	60	123	5	44.399	98	42.5	-	63	30

PLUG

FORM Z2

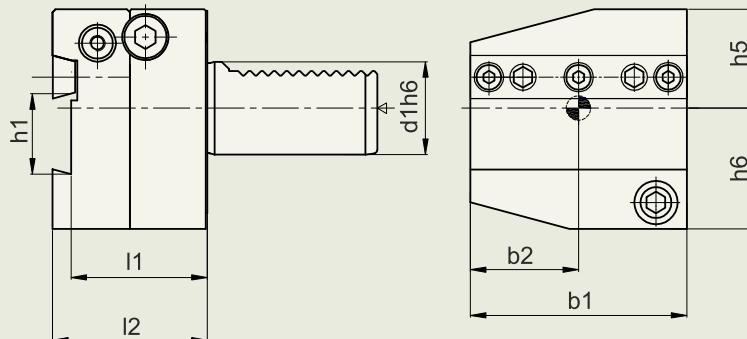


ARTICLE NO.	ITEM NAME		d1	d3	h1	h2	l1	l2
SD3817	Z2 16S	-	16	40	18	18	32	13
SD3410	Z2 20S	-	20	50	23	23	40	16
SD3910	Z2 25S	-	25	58	25	25	48	16
SD3610	Z2 30S	Z2 30P	30	68	28	30	55	16
SD4410	Z2 40S	Z2 40P	40	83	32.5	-	63	20
SD5010	Z2 50S	-	50	98	35	-	78	20
SD6042	Z2 60S	-	60	123	42.5	-	94	20

* 'S' Stands for Steel Plug
'P' Stands for Plastic Plug

CUTOFF TOOL HOLDER

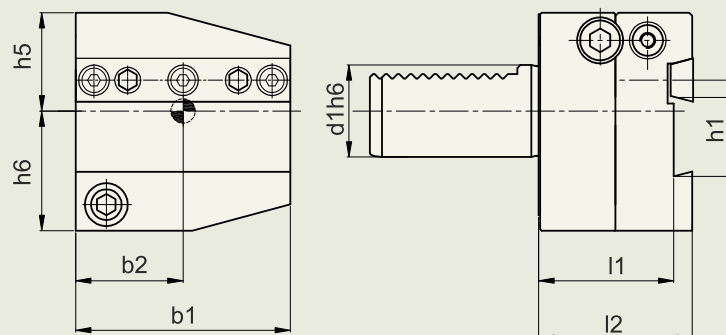
AR



ARTICLE NO.	ITEM NAME	d1	b1	b2	h1	h5	h6	l1	l2
SD3435	AR20 26	20	60	30	26	28	36	44	50
SD2550	AR25 26	25	60	30	26	28	36	44	50
SD3652	AR30 26	30	70	35	26	32	39	44	50
SD3653	AR30 32	30	70	35	32	32	39	44	50
SD4456	AR40 26	40	85	42.5	26	43	41.5	44	50
SD4457	AR40 32	40	85	42.5	32	43	41.5	44	50
SD5050	AR50 26	50	100	50	26	43	45	44	50
SD5051	AR50 32	50	100	50	32	43	45	44	50
SD60174	AR60 26	60	125	62.5	26	48	55	44	50
SD6055	AR60 32	60	125	62.5	32	48	55	44	50

CUTOFF TOOL HOLDER

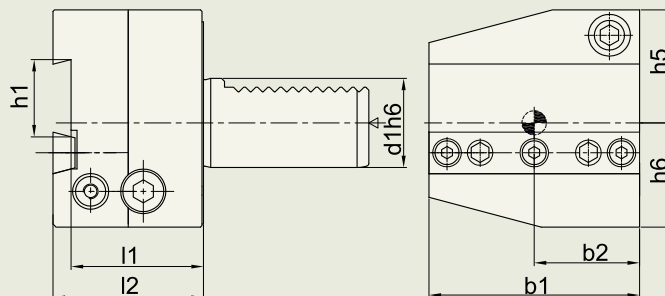
AL



ARTICLE NO.	ITEM NAME	d1	b1	b2	h1	h5	h6	l1	l2
SD3436	AL20 26	20	60	30	26	28	36	44	50
SD2549	AL25 26	25	60	30	26	28	36	44	50
SD3650	AL30 26	30	70	35	26	32	39	44	50
SD3651	AL30 32	30	70	35	32	32	39	44	50
SD4454	AL40 26	40	85	42.5	26	43	41.5	44	50
SD4455	AL40 32	40	85	42.5	32	43	41.5	44	50
SD5048	AL50 26	50	100	50	26	43	45	44	50
SD5049	AL50 32	50	100	50	32	43	45	44	50
SD60175	AL60 26	60	125	62.5	26	48	55	44	50
SD60176	AL60 32	60	125	62.5	32	48	55	44	50

CUTOFF TOOL HOLDER

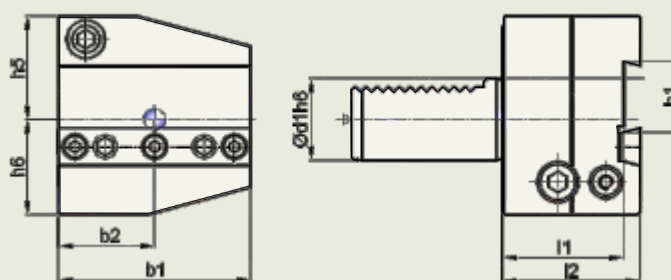
ARU



ARTICLE NO.	ITEM NAME	d1	b1	b2	h1	h5	h6	l1	l2
SD2551	ARU25 26	25	60	30	26	36	28	44	50
SD3654	ARU30 26	30	70	35	26	38	35	44	50
SD3655	ARU30 32	30	70	35	32	38	35	44	50
SD4458	ARU40 26	40	85	42.5	26	43	41.5	44	50
SD4450	ARU40 32	40	85	42.5	32	43	41.5	44	50
SD5052	ARU50 26	50	100	50	26	43	45	44	50
SD5053	ARU50 32	50	100	50	32	43	45	44	50
SD60177	ARU60 26	60	125	62.5	26	48	55	44	50
SD60178	ARU60 32	60	125	62.5	32	48	55	44	50

CUTOFF TOOL HOLDER

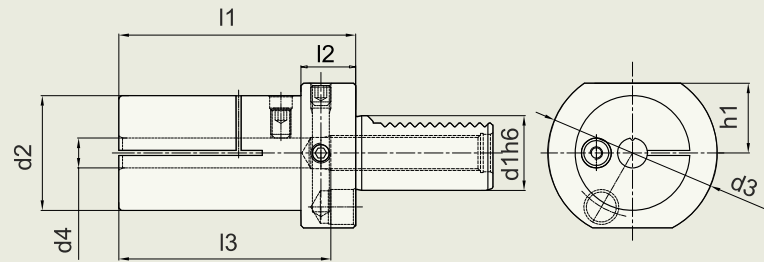
ALU



ARTICLE NO.	ITEM NAME	d1	b1	b2	h1	h5	h6	l1	l2
SD2557	ALU25 26	25	60	30	26	36	28	44	50
SD36314	ALU30 26	30	70	35	26	38	35	44	50
SD36350	ALU30 32	30	70	35	32	38	35	44	50
SD44404	ALU40 26	40	85	42.5	26	43	41.5	44	50
SD44425	ALU40 32	40	85	42.5	32	43	41.5	44	50
SD50376	ALU50 26	50	100	50	26	43	45	44	50
SD50256	ALU50 32	50	100	50	32	43	45	44	50
SD60179	ALU60 26	60	125	62.5	26	48	55	44	50
SD60180	ALU60 32	60	125	62.5	32	48	55	44	50

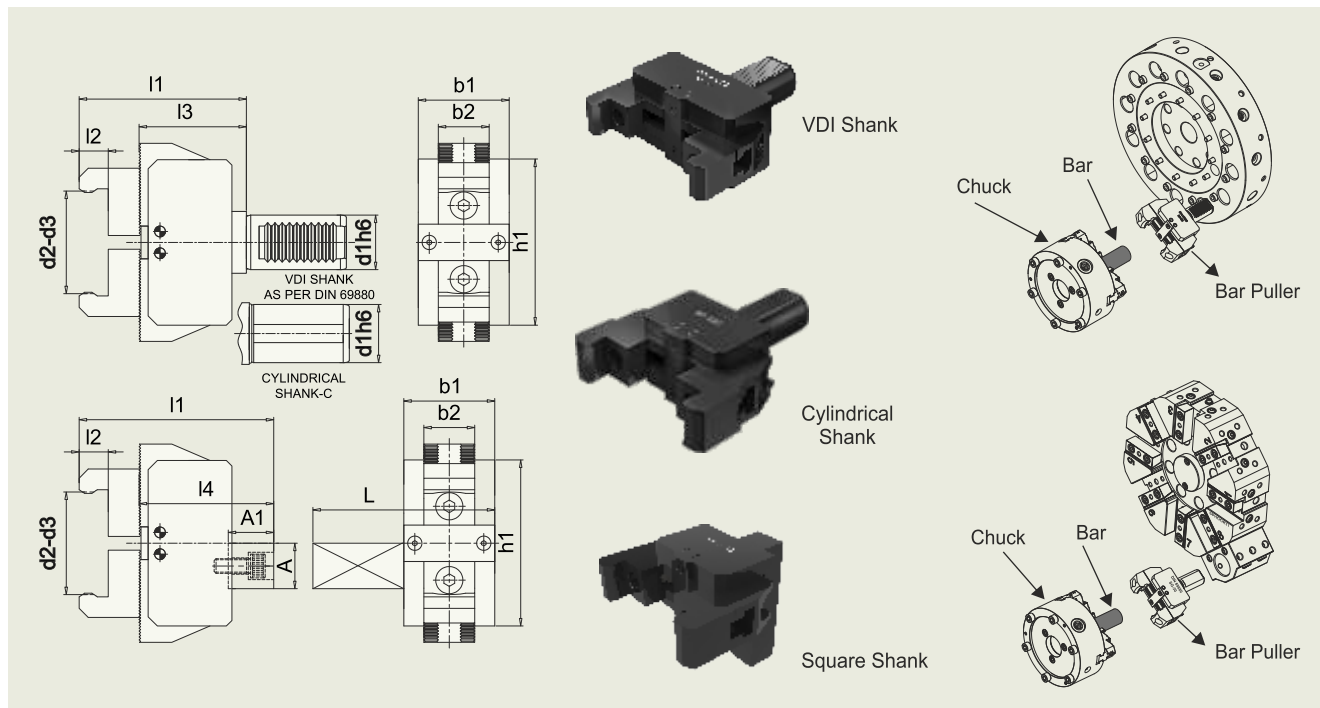
DAMPED TOOL HOLDER

E2-S



ARTICLE NO.	ITEM NAME	d1	d2	d3	d4	h1	l1	l2	l3
SD25194	E2-S-25X06	25	40	58	06	25	81	18	59
SD25195	E2-S-25X08	25	40	58	08	25	81	18	63
SD25196	E2-S-25X10	25	40	58	10	25	84	18	65
SD25197	E2-S-25X12	25	40	58	12	25	84	18	70
SD25198	E2-S-25X16	25	50	58	16	25	88	18	70
SD25199	E2-S-25X20	25	54	58	20	25	96	18	80
SD25200	E2-S-25X25	25	59	58	25	25	96	18	80
SD25201	E2-S-25X32	25	65	58	32	25	96	18	80
SD36141	E2-S-30x06	30	46	68	06	28	88	22	53
SD36142	E2-S-30x08	30	46	68	08	28	88	22	53
SD3662	E2-S-30x10	30	46	68	10	28	88	22	65
SD3657	E2-S-30x12	30	46	68	12	28	88	22	70
SD3658	E2-S-30x16	30	50	68	16	28	88	22	70
SD3659	E2-S-30x20	30	54	68	20	28	96	22	80
SD3660	E2-S-30x25	30	58	68	25	28	112	22	100
SD3661	E2-S-30x32	30	63	68	32	28	142	22	128
SD3663	E2-S-30x40	30	73	68	40	28	174	22	150
SD36143	E2-S-40x06	40	46	83	06	32.5	88	22	53
SD44144	E2-S-40x08	40	46	83	08	32.5	88	22	53
SD4471	E2-S-40x10	40	46	83	10	32.5	88	22	65
SD44 65	E2-S-40x12	40	46	83	12	32.5	95	22	85
SD4466	E2-S-40x16	40	50	83	16	32.5	88	22	70
SD4467	E2-S-40x20	40	54	83	20	32.5	96	22	80
SD44 68	E2-S-40x25	40	58	83	25	32.5	112	22	100
SD4469	E2-S-40x32	40	63	83	32	32.5	142	22	128
SD4470	E2-S-40x40	40	73	83	40	32.5	174	22	150
SD50460	E2-S-50x16	50	50	98	16	35	103	30	85
SD50461	E2-S-50x20	50	54	98	20	35	103	30	89
SD5058	E2-S-50x25	50	59	98	25	35	120	30	106
SD5059	E2-S-50x32	50	65	98	32	35	150	30	128
SD5060	E2-S-50x40	50	73	98	40	35	182	30	160
SD5061	E2-S-50x50	50	83	98	50	35	182	30	160
SD6049	E2-S-60x25	60	59	123	25	42.5	120	30	106
SD6050	E2-S-60x32	60	65	123	32	42.5	150	30	128
SD6051	E2-S-60x40	60	73	123	40	42.5	182	30	160
SD6052	E2-S-60x50	60	83	123	50	42.5	202	30	180
SD6054	E2-S-60x60	60	102	123	60	42.5	202	30	180

BAR PULLER FOR ALL MACHINES AND TURRETS STATIC / BOT / VDI / BMT



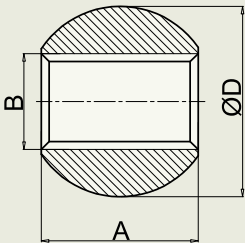
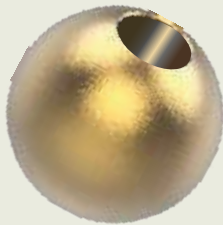
Ensure maximum bar length to be within or spindle length

02

ARTICLE NO.	ITEM NAME	d1/A Shank Size	A1	RANGE (BAR SIZE)		b1	b2	h1	I1	I2	I3	I4	L
				d2 - d3 *SHORT JAWS	d2 - d3 *LONG JAWS								
SD38120	BP 16	16	-	6-60	-	50	28	72	84	16	51	-	-
SD38121	BP 16C	16	-	6-60	-	50	28	72	84	16	51	-	-
SD38122	BP 16SQ	16	20	6-60	-	50	28	72	87	16	-	61	80
SD3473	BP 20	20	-	6-60	54-110	50	28	72	84	16	51	-	-
SD3488	BP 20C	20	-	6-60	54-110	50	28	72	84	16	51	-	-
SD34178	BP 20SQ	20	25	6-60	54-110	50	28	72	113	16	-	80	100
SD3594	BP 25	25	-	6-60	54-110	50	28	72	84	16	51	-	-
SD35101	BP 25C	25	-	6-60	54-110	50	28	72	84	16	51	-	-
SD25243	BP 25SQ	25	30	6-60	54-110	50	28	72	118	16	-	85	100
SD3597	BP 30	30	-	6-60	54-110	50	28	72	84	16	59	-	-
SD35100	BP 32C	32	-	6-60	54-110	50	28	72	84	16	59	-	-
SD36554	BP 32SQ	32	37	6-60	54-110	50	28	72	123	16	-	90	126
SD3599	BP 40	40	-	6-66	54-110	60	28	110	94	16	61	-	-
SD44116	BP 40C	40	-	6-66	54-110	60	28	110	94	16	61	-	-
SD50110	BP 50	50	-	6-75	60-125	65	28	130	114	16	81	-	-
SD50111	BP 50C	50	-	6-75	60-125	65	28	130	114	16	81	-	-
SD60239	BP 60	60	-	6-75	60-125	75	28	130	114	16	81	-	-
SD60240	BP 60C	60	-	6-75	60-125	75	28	130	114	16	81	-	-

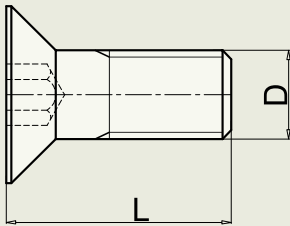
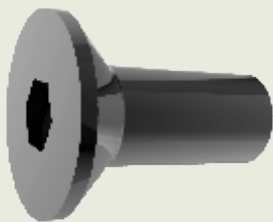
CSK COOLANT BALL SPARE PARTS

COOLANT BALL



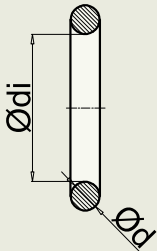
ARTICLE NO.	ITEM NAME	ØD	A	B
CD040107	Ø8XM5	8	7	M5
CD040104	Ø10XM6	10	8	M6
CD126 0102	Ø12XM6	12	10	M6
CD09 0102	Ø14XM6	14	13	M6

CSK SCREW



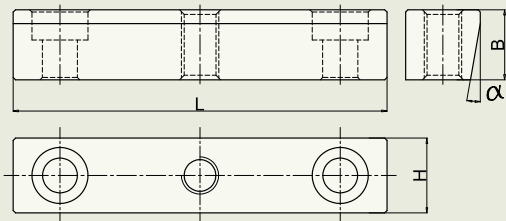
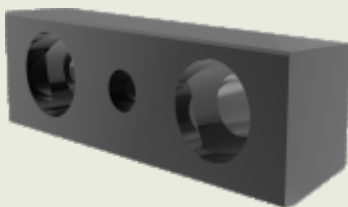
ARTICLE NO.	ITEM NAME	L	D
ZFSC 3X10-UB	M3X10	10	M3
ZFSC 4X12-UB	M4X12	12	M4
ZFSC 5X12-UB	M5X12	12	M5
ZFSC 6X12-UB	M6X12	10	M6

O-RING



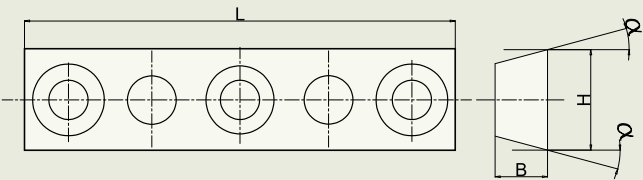
ARTICLE NO.	ITEM NAME	di	d
ZFSC Ø5XØ1.5	O-Ring Ø5XØ1.5	Ø5	Ø1.5
ZFSC Ø7XØ1.5	O-Ring Ø7XØ1.5	Ø7	Ø1.5
ZFSC Ø7XØ2.5	O-Ring Ø7XØ2.5	Ø7	Ø2.5
ZFSC Ø10XØ2	O-Ring Ø10XØ2	Ø10	Ø2

WEDGE CLAMP



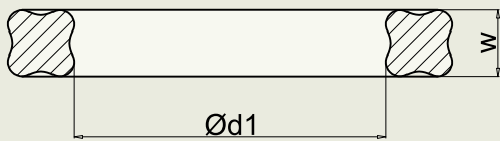
ARTICLE NO.	ITEM NAME	L	B	H	α
WC-20 80X16X15	Wedge Clamp-20	80	15	16	10°
WC-25 90X21X19	Wedge Clamp-25	90	21	19	10°
WC-32 100X26.5x26.5	Wedge Clamp-32	100	26.5	26.5	10°

DOVETAIL CLAMP



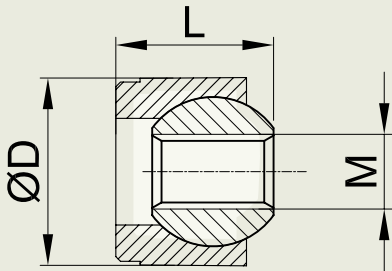
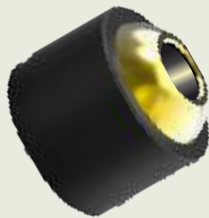
ARTICLE NO.	ITEM NAME	L	B	H	α
CD 34 36 03	Dovetail Clamp-20&25	60	7.3	14	15°
CD 36 50 03	Dovetail Clamp-30	70	7.3	14	15°
CD 40 50 03	Dovetail Clamp-40	85	7.3	14	15°
CD 50 48 03	Dovetail Clamp-50&60	100	7.3	14	15°

QUAD RING



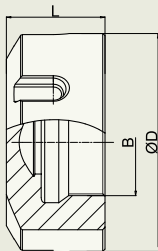
ARTICLE NO.	ITEM NAME	Ø d1	w
QRAR04027	Quad Ring	33.05	1.78

PRESS FIT COOLANT BALL ASSEMBLY



ARTICLE NO.	ITEM NAME	ØD	L	M
MB10 X M4	Ø10 X M4	10	8.4	4
MB12 X M5	Ø12 X M5	12	10.3	5
MB12 X M6	Ø12 X M6	12	10.3	6
MB14 X M5	Ø14 X M5	14	12.5	5
MB14 X M6	Ø14 X M6	14	12.5	6
MB14 X M8	Ø14 X M8	14	12	8

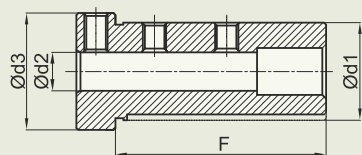
EXTERNAL NUT



ARTICLE NO.	ITEM NAME	ØD	L	B
CDER1602	ER16	28	18	M22x1.5
CDER2001	ER20	35	19	M25x1.5
CDER2501	ER25	42	21	M32x1.5
CDER3201	ER32	50	23	M40x1.5
CDER4001	ER40	63	26	M50x1.5
CDER5001	ER50	78	35	M64x2

TYPE - A

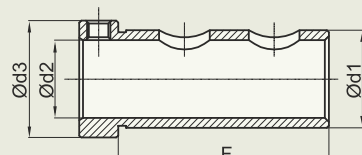
(FOR E1 & E2 VARIETIES OF SMALLER TOOLS)



ARTICLE NO.	Ød1	Ød2	F	SUITS FOR
SM E 20 08	20	08	39	E1 20x20 E1 30x20 E1 40x20 E1 50x20
SM E 20 10		10		E2 20x20 E2 30x20 E2 40x20 E2 50x20
SM E 25 08	25	08	50	E1 20x25 E1 30x25 E1 40x25
SM E 25 10		10		E1 50x25 E2 30x25 E2 40x25
SM E 25 12		12		E2 50x25
SM E 32 08	32	08	59	E1 30x32 E1 40x32 E1 50x32 E2 30x32 E2 40x32 E2 50x32
SM E 32 10		10		
SM E 32 12		12		
SM E 32 16		16		
SM E 40 08	40	08	69	E1 30x40 E1 40x40 E1 50x40 E2 40x40 E2 50x40
SM E 40 10		10		
SM E 40 12		12		
SM E 40 16		16		
SM E 40 20		20		
SM E 50 08	50	08	80	E1 40x50 E1 50x50 E1 60x50 E2 40x50 E2 50x50
SM E 50 10		10		
SM E 50 12		12		
SM E 50 16		16		
SM E 50 20		20		

TYPE - B

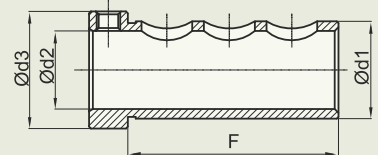
(FOR E1 VARIETIES OF BIGGER TOOLS)



ARTICLE NO.	Ød1	Ød2	F	SUITS FOR
SM E1 20 12	20	12	52	E1 20x20 E1 30x20 E1 40x20 E1 50x20
SM E1 20 16		16		
SM E1 25 16	25	16	50	E1 20x25 E1 30x25 E1 40x25 E1 50x25
SM E1 25 20		20		
SM E1 32 20	32	20	59	E1 30x32 E1 40x32 E1 50x32
SM E1 32 25		25		
SM E1 40 25	40	25	69	E1 30x40 E1 40x40 E1 50x40
SM E1 40 32		32		
SM E1 50 25	50	25	80	E1 40x50 E1 50x50 E1 60x50
SM E1 50 32		32		
SM E1 50 40		40		

TYPE - C

(FOR E2 VARIETIES OF BIGGER TOOLS)



ARTICLE NO.	Ød1	Ød2	F	SUITS FOR
SM E2 20 12 L39	20	12	39	E2 20x20 E2 30x20
SM E2 20 12 L52			52	E2 40x20 E2 50x20
SM E2 20 16 L39	20	16	39	E2 20x20 E2 30x20
SM E2 20 16 L52			52	E2 40x20 E2 50x20
SM E2 25 16	25	16	50	E2 20x25 E2 30x25 E2 40x25 E2 50x25
SM E2 25 20		20		
SM E2 32 20	32	20	59	E2 30x32 E2 40x32 E2 50x32
SM E2 32 25		25		
SM E2 40 25	40	25	69	E2 40x40 E2 50x40
SM E2 40 32		32		
SM E2 50 25	50	25	80	E2 40x50 E2 50x50 E2 60x50
SM E2 50 32		32		
SM E2 50 40		40		

* Made out of medium carbon steel and toughened to 20± 2 HRC.

SPHOORTI

Precision Assured

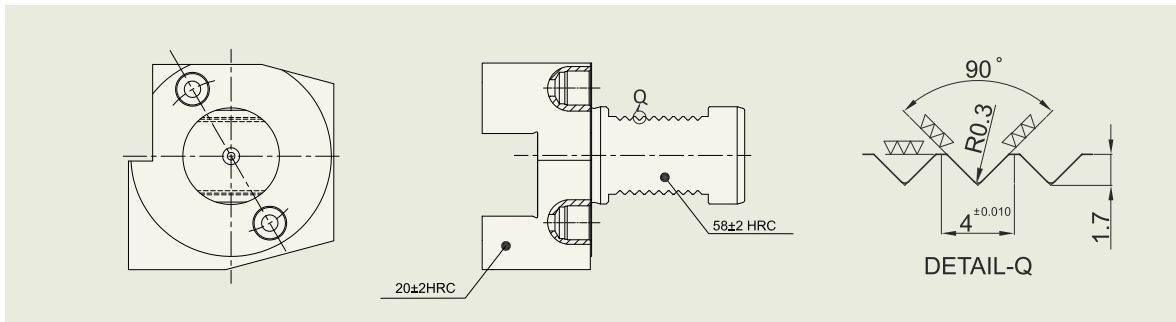
DOUBLE SERRATION THROUGH COOLANT VDI TOOL HOLDERS

FOR CNC TURNING CENTERS & TURN MILL CENTERS



VDI TECHNOLOGY

The VDI system is a quick change clamping systems for each tool holder within the tool disc. Tool changes can therefore be performed within seconds, rather than minutes as with the traditional block system.

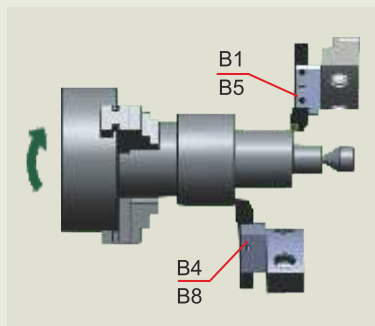


FEATURES

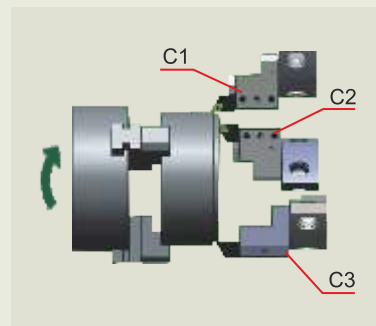
- VDI shank is manufactured as per DIN 69880.
- Tool holders are made by toughened steel C-45.
- VDI shank is double serrated.
- Available with external and internal through coolant system.
- Usable for both Right and Left version tool discs.
- Shank portion is heat treated to 58±2 HRC, and the teeth are ground.
- Tool holders are fully blackened.

SELECTION OF VDI TOOL HOLDERS

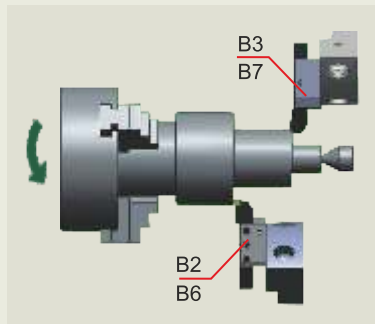
Spindle Rotation clockwise
application of OD Turn and Face



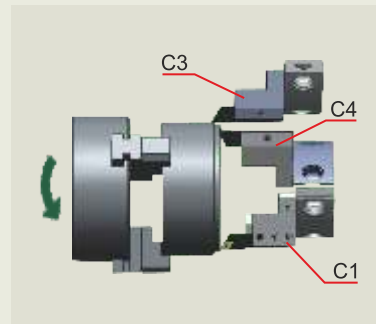
Spindle Rotation clockwise
application of Face and ID Bore



Spindle Rotation Anticlockwise
application of OD Turn and Face



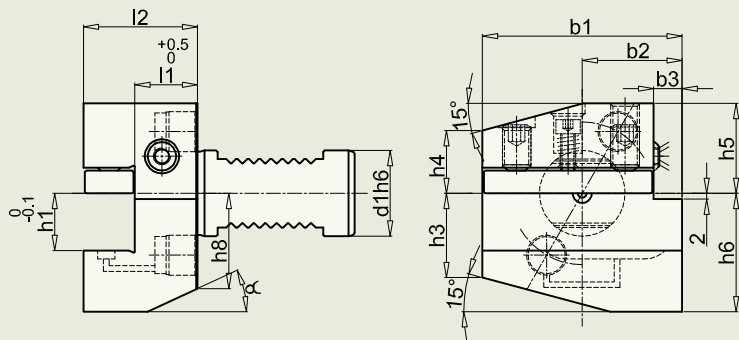
Spindle Rotation Anticlockwise
application of Face and ID Bore



RIGHT & LEFT HAND SHORT - RADIAL

TC-THROUGH COOLANT

FORM B1B4TC

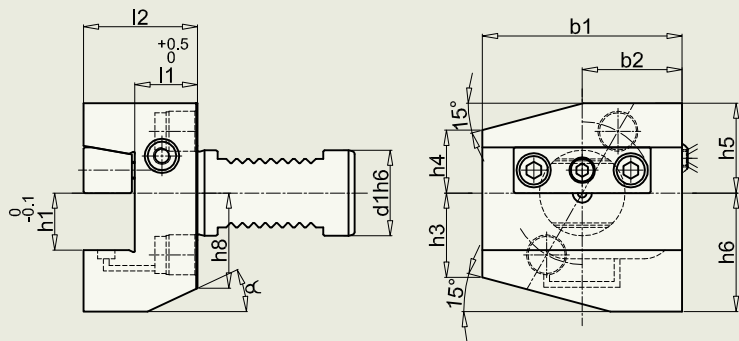


ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	α
SD930018	B1B4TC-302040	30	70	35	10	20/16	29.5	22	31.5	41.5	30	22	40	25°
SD940081	B1B4TC-402544	40	85	42.5	12.5	25/20	35	30	38	48	—	22	44	—
SD950029	B1B4TC-502544	50	85	42.5	12.5	25/20	43	30	43	48	—	22	44	—

RIGHT & LEFT HAND SHORT - RADIAL

WTC-WEDGE TYPE THROUGH COOLANT

FORM B1B4WTC

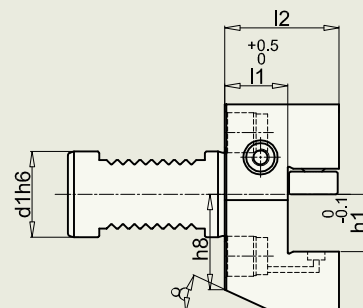
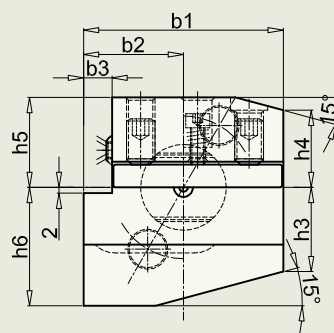


ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	α
SD930058	B1B4WTC-302040	30	70	35	—	20/16	29.5	22	31.5	41.5	30	22	40	25°
SD44112	B1B4WTC-402544	40	85	42.5	—	25/20	35	30	38	48	—	22	44	—
SD950062	B1B4WTC-502544	50	85	42.5	—	25/20	43	30	43	48	—	22	44	—

LEFT & RIGHT HAND SHORT - RADIAL

TC-THROUGH COOLANT

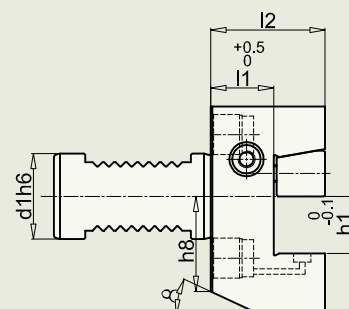
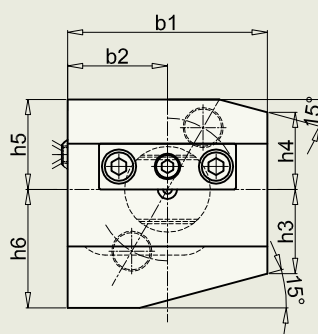
FORM B2B3TC



ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	α
SD930019	B2B3TC-302040	30	70	35	10	20/16	29.5	27	31.5	41.5	30	22	40	25°
SD940082	B2B3TC-402544	40	85	42.5	12.5	25/20	35	30	38	48	—	22	44	—
SD950030	B2B3TC-502544	50	85	42.5	12.5	25/20	43	38	43	48	—	22	44	—

LEFT & RIGHT HAND SHORT - RADIAL WTC-WEDGE TYPE THROUGH COOLANT

FORM B2B3WTC

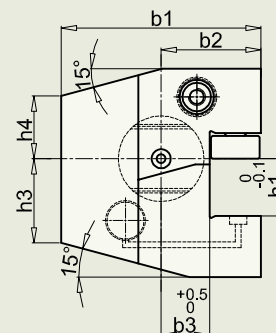
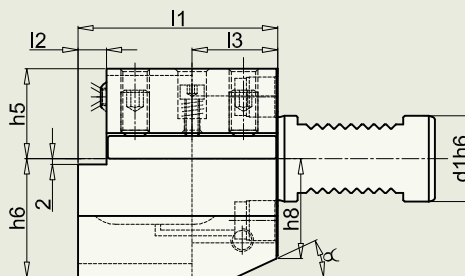


ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	α
SD930061	B2B3WTC-302040	30	70	35	—	20/16	29.5	27	31.5	41.5	30	22	40	25°
SD940157	B2B3WTC-402544	40	85	42.5	—	25/20	35	30	38	48	—	22	44	—
SD950065	B2B3WTC-502544	50	85	42.5	—	25/20	35	38	43	48	—	22	44	—

RIGHT & LEFT HAND - AXIAL

TC-THROUGH COOLANT

FORM C1C4TC



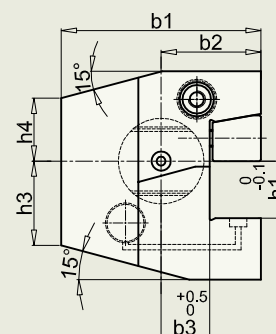
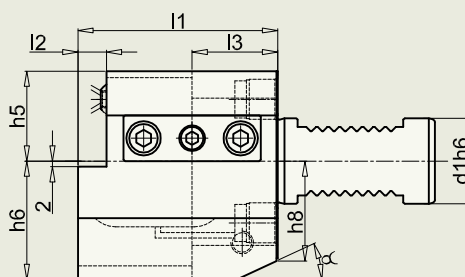
ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	l3	α
SD916005	C1C4TC-161244	16	43	24	13	12	15	15	20	22	19	44	05	20	30°
SD920001	C1C4TC-201655	20	52	27	13	16/12	19	19	25	30	23	55	07	30	30°
SD925005	C1C4TC-252055	25	58	33	15	20/16	—	—	28	38	28	55	07	20	15°
SD930020	C1C4TC-302070	30	70	35	17	25/16	26	22	32	38	30	70	10	30	25°
SD940063	C1C4TC-402585	40	85	42.5	21	25/20	35	30	38	48	40	85	12.5	30	15°
SD950031	C1C4TC-502585	50	90.5	48	26	25/20	42	35	44	48	—	85	12.5	30	—

03

RIGHT & LEFT HAND - AXIAL

WTC-WEDGE TYPE THROUGH COOLANT

FORM C1C4WTC

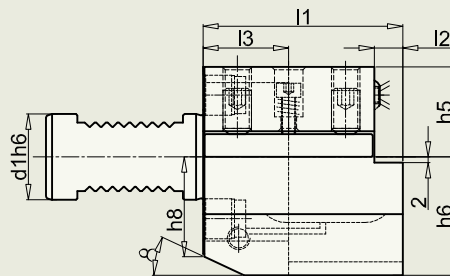
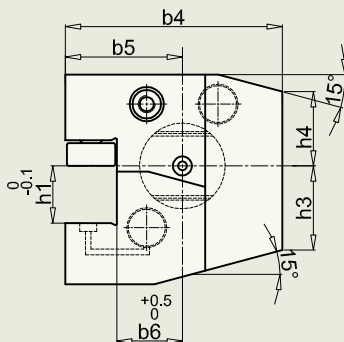


ARTICLE NO.	ITEM NAME	d1	b1	b2	b3	h1	h3	h4	h5	h6	h8	l1	l2	l3	α
SD930059	C1C4WTC-302070	30	70	35	17	20/16	26	22	32	38	30	70	10	30	25°
SD940155	C1C4WTC-402585	40	85	42.5	21	25/20	35	30	38	48	40	85	12.5	30	15°
SD950063	C1C4WTC-502585	50	90.5	48	26	25/20	42	35	44	48	—	85	12.5	30	—

LEFT & RIGHT HAND - AXIAL

TC-THROUGH COOLANT

FORM C2C3TC

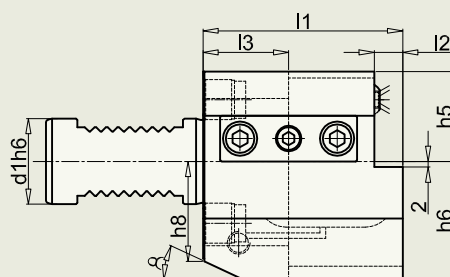
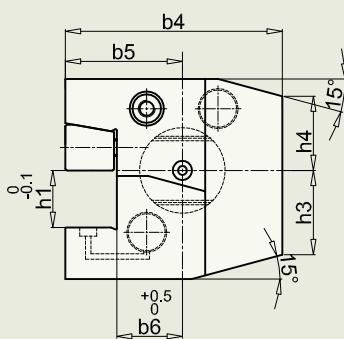


ARTICLE NO.	ITEM NAME	d1	b4	b5	b6	h1	h3	h4	h5	h6	h8	l1	l2	l3	α
SD916006	C2C3TC-161244	16	43	24	13	12	15	15	20	22	19	44	05	20	30°
SD920006	C2C3TC-201655	20	58	33	19	16/12	19	19	25	30	23	55	07	30	30°
SD925006	C2C3TC-252055	25	62	37	19	20/16	—	—	28	38	28	55	07	20	15°
SD930021	C2C3TC-302070	30	76	41	23	20/16	26	26	32	38	30	70	10	30	25°
SD940083	C2C3TC-402585	40	90	47.5	25.5	25/20	35	30	38	48	40	85	12.5	30	15°
SD950032	C2C3TC-502585	50	95	52.5	30.5	25/20	42	37	44	48	—	85	12.5	30	—

LEFT & RIGHT HAND - AXIAL

WTC-WEDGE TYPE THROUGH COOLANT

FORM C2C3WTC

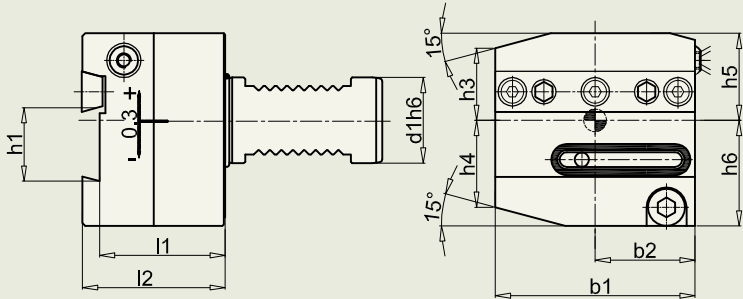


ARTICLE NO.	ITEM NAME	d1	b4	b5	b6	h1	h3	h4	h5	h6	h8	l1	l2	l3	α
SD930060	C2C3WTC-302070	30	76	41	23	20/16	26	26	32	38	30	70	10	30	25°
SD940156	C2C3WTC-402585	40	90	47.5	25.5	25/20	35	30	38	48	40	85	12.5	30	15°
SD950064	C2C3WTC-502585	50	95	52.5	30.5	25/20	42	37	44	48	—	85	12.5	30	—

CUTOFF TOOL HOLDER

TC-THROUGH COOLANT

FORM ARALUTC

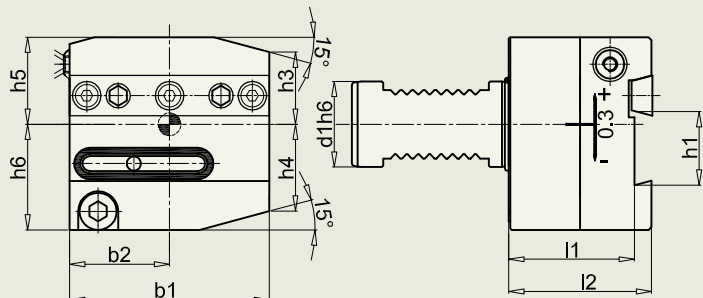



ARTICLE NO.	ITEM NAME	d1	b1	b2	h1	h3	h4	h5	h6	l1	l2
SD95007	ARALUTC-2526	25	60	30	26	22.5	28.5	28	36	44	50
SD930022	ARALUTC-3026	30	70	35	26	25	30	32	37	44	50
SD930023	ARALUTC-3032	30	85	42.5	32	25	30	32	40	44	50
SD940084	ARALUTC-4026	40	85	42.5	26	31	31	43	40	44	50
SD940085	ARALUTC-4032	40	85	42.5	32	31	31	43	40	44	50
SD950033	ARALUTC-5032	50	100	50	32	35	37	43	45	44	50

CUTOFF TOOL HOLDER

TC-THROUGH COOLANT

FORM ALARUTC

ARTICLE NO.	ITEM NAME	d1	b1	b2	h1	h3	h4	h5	h6	l1	l2
SD925008	ALARUTC-2526	25	60	30	26	22.5	28.5	28	36	44	50
SD930024	ALARUTC-3026	30	70	35	26	25	30	32	37	44	50
SD930025	ALARUTC-3032	30	85	42.5	32	25	30	32	40	44	50
SD940086	ALARUTC-4026	40	85	42.5	26	31	31	43	40	44	50
SD940087	ALARUTC-4032	40	85	42.5	32	31	31	43	40	44	50
SD950034	ALARUTC-5032	50	100	50	32	35	37	43	45	44	50

CAPTO TOOL HOLDER



03

VDI Static CAPTO Tool Holders.

VDI Driven CAPTO Tool Holders.

BMT Static CAPTO Tool Holders.

BMT Driven CAPTO Tool Holders.

SPHOORTI

Precision Assured



VDI DRIVEN TOOL HOLDERS

FOR CNC TURN MILL CENTERS

TYPES OF DRIVE END

BARUFFALDI TOEM



DIN1809



DIN5480



DIN5482



EMAG



EWS



HAAS



INDEX



MAZAK



OKUMA



DOOSAN



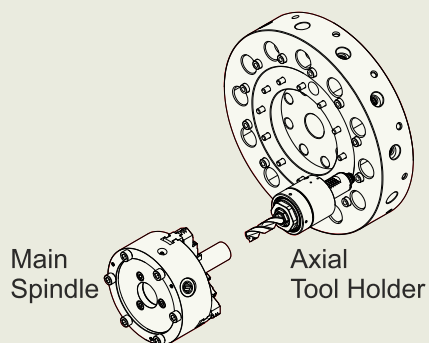


Axial Disc and Tool Holders

Axial and Radial Tool Holder application in Axial Disc

Axial Operation

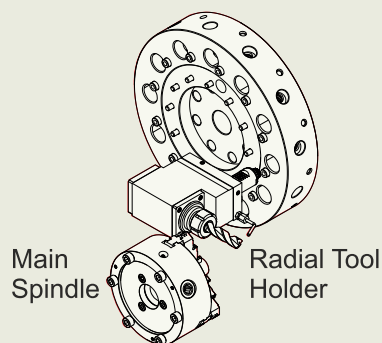
Axial Tool Holders
Straight Version - 0° (For Face Application)



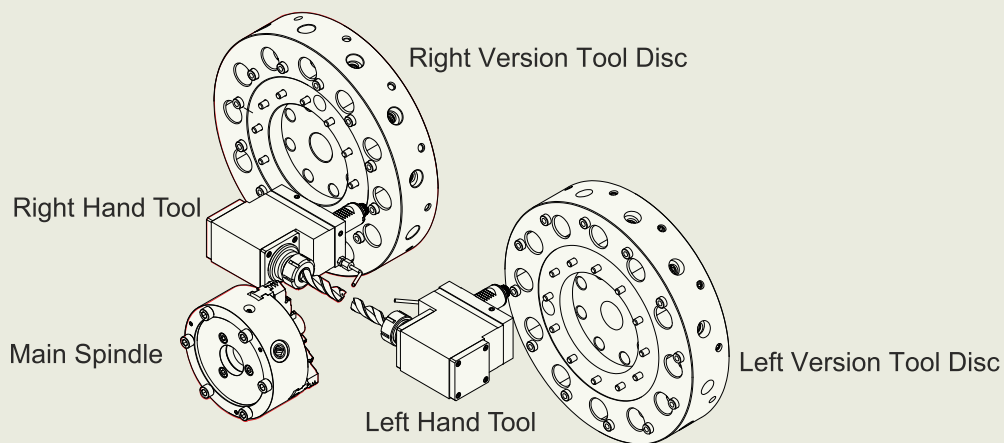
Radial Operation

Radial Tool Holders
Perpendicular Version - 90° (For OD Application)

Note : Check maximum swing diameter



Right and Left Hand Driven Radial Tool Holder Mounting Configuration



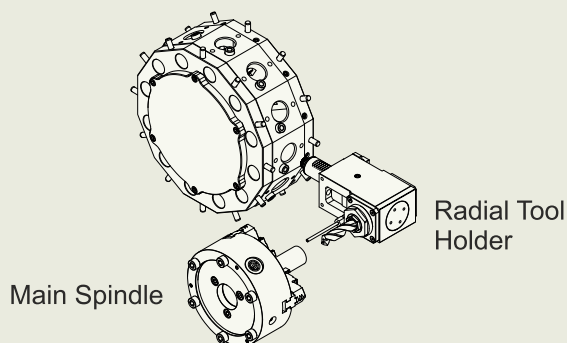


Radial Disc and Tool Holders

Axial and Radial Tool Holder application in Radial Disc

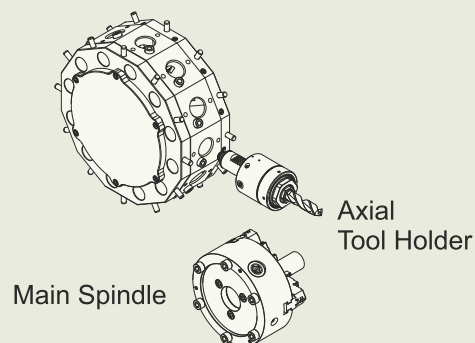
Axial Operation

Radial Tool Holders
Perpendicular Version - 90° (For Face Application)



Radial Operation

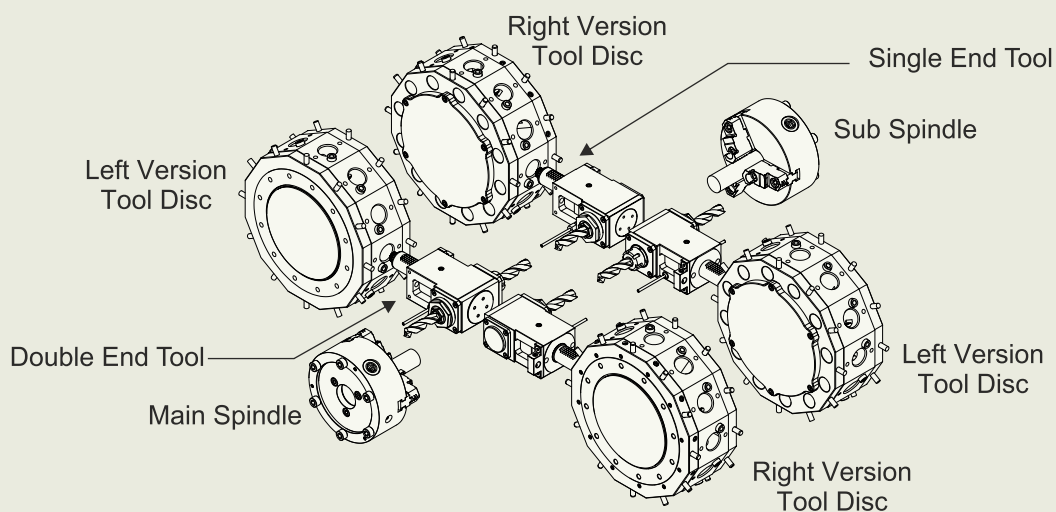
Axial Tool Holders
Straight Version - 0° (For OD Application)



Note : Check maximum swing diameter

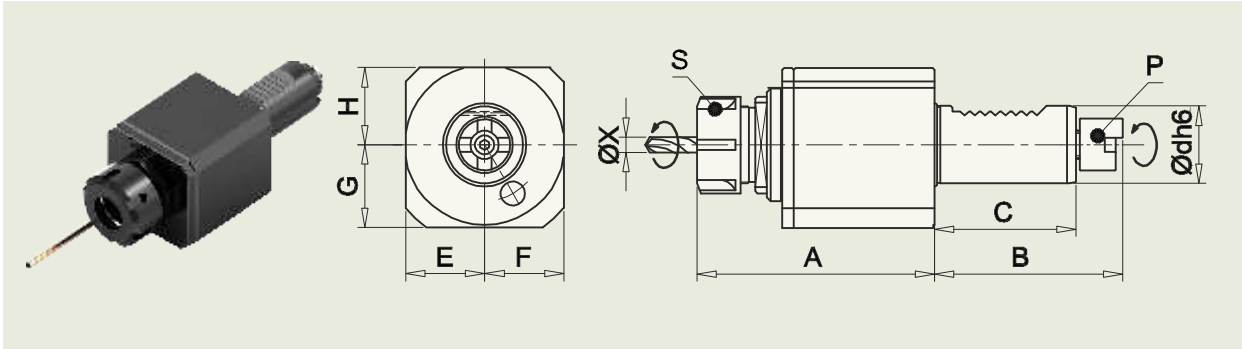
04

Right and Left Hand Driven Radial Tool Holder Mounting Configuration



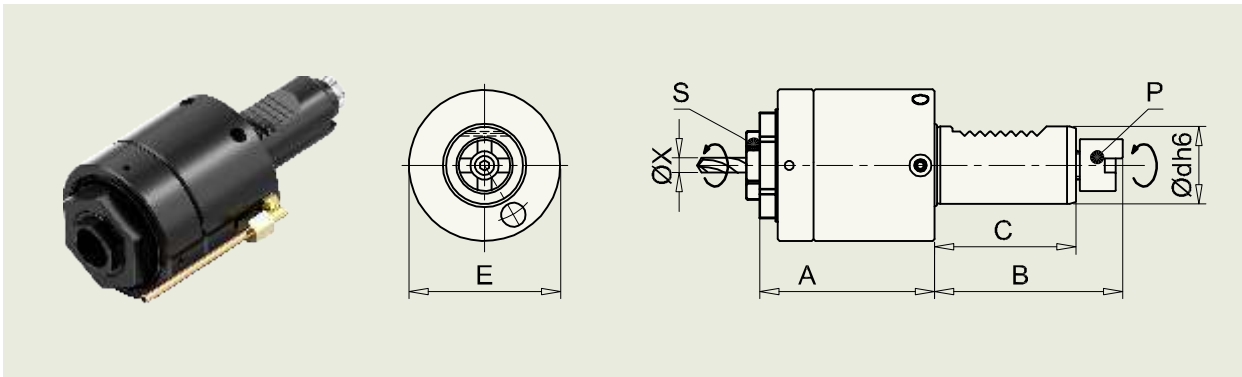
Note : Single End Tool Holder for Main Spindle operation.
Single End Double Serration Tool Holder for Main or Sub Spindle operation.
Double End Tool Holder for Main and Sub Spindle operation.

AXIAL TOOL HEAD, SQUARE



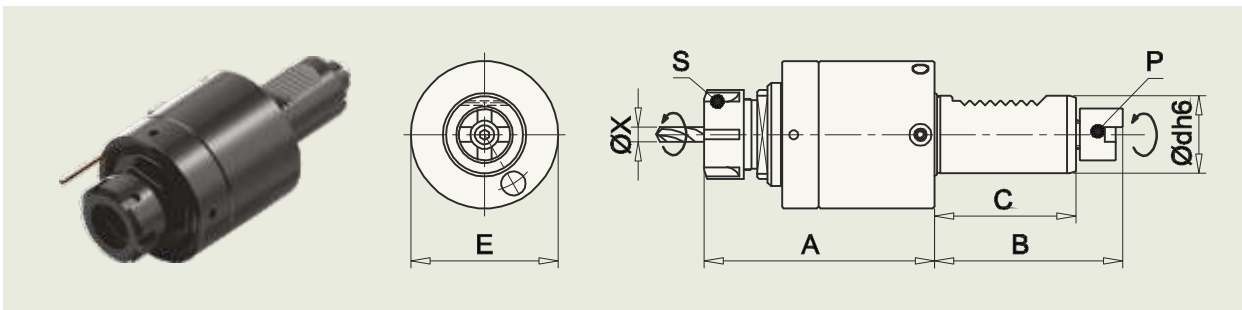
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD5903	16	65	48	35	21	25	21	21	1-7	ER11	1:1	6000	6.3	Ø14.5X4X4

AXIAL TOOL HEAD, ROUND, INT NUT



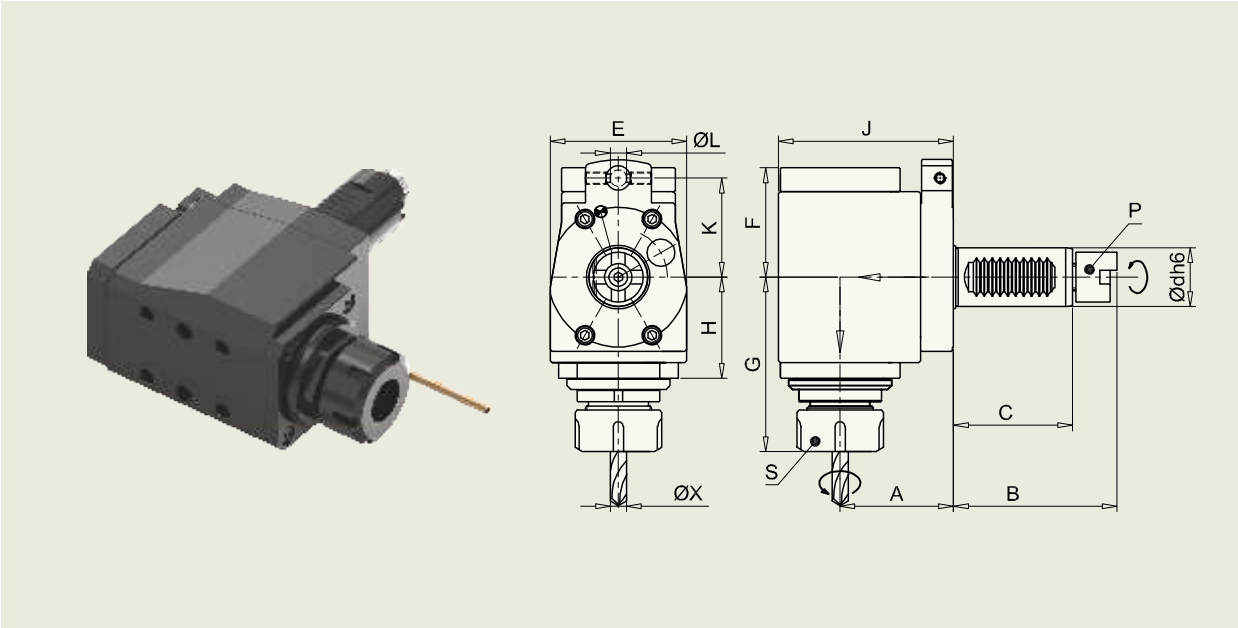
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6162	30	80	59	45	68	1-16	ER25	1:1	6000	40	Ø24X6X3.2
SD6258	40	95	68	53	83	2-20	ER32	1:1	5000	70	Ø32X8X4.5

AXIAL TOOL HEAD, ROUND, EXT NUT



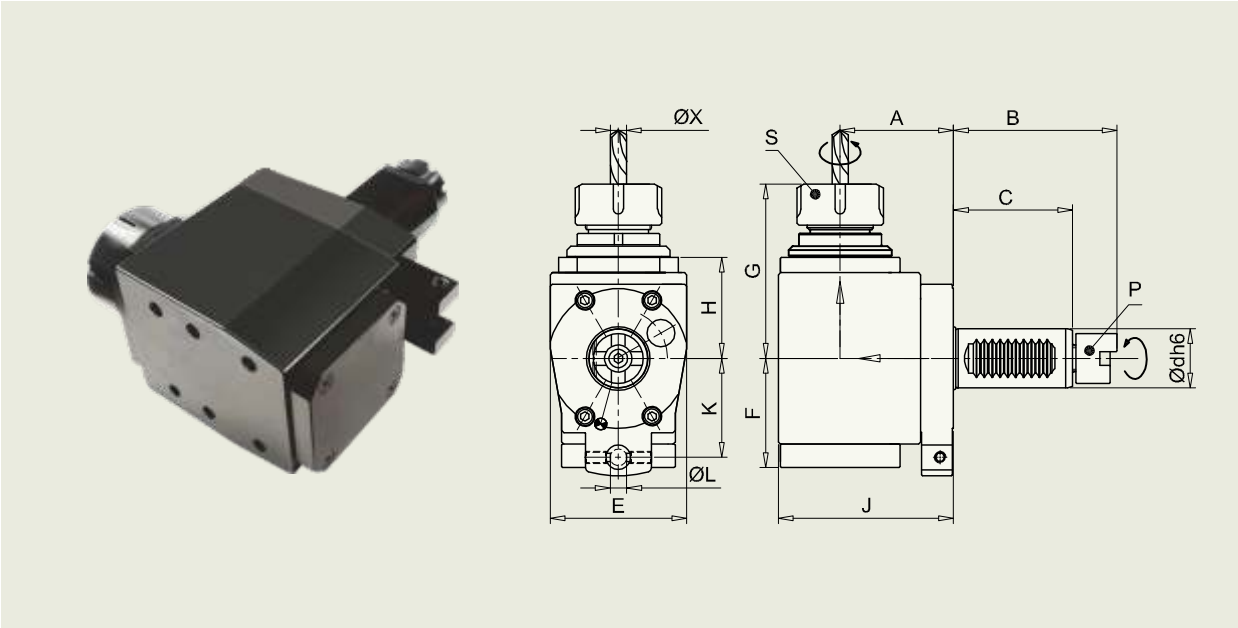
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6282	40	122	68	53	83	2-20	ER32	1:1	5000	70	Ø32X8X4.5
SD6304	50	125	84	68	98	3-26	ER40	1:1	4000	100	Ø40X8X4
SD6507	60	137.5	100	83	118	10-34	ER50	1:1	3800	160	Ø43X8X4

RADIAL TOOL HEAD, DIRECT DRIVE, RIGHT VERSION



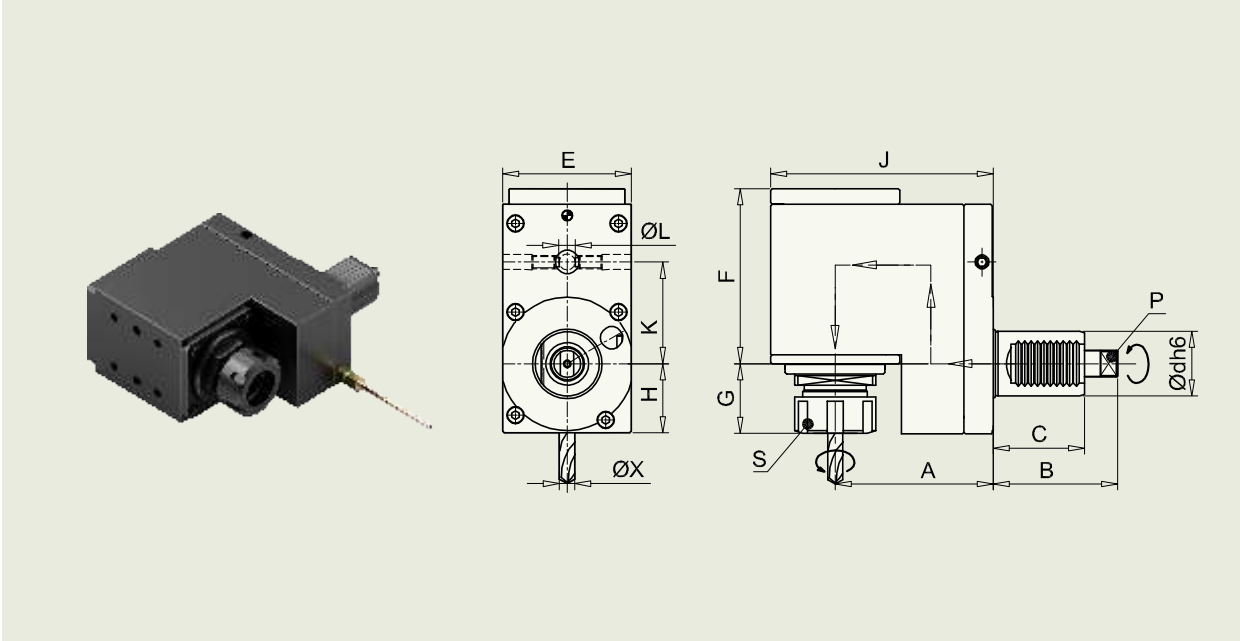
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD5904	16	34	48	35	42	61	46	25	50	54	8	1-7	ER11	1:1	6000	6.3	Ø14.5X4X4
SD6172	30	55	59	45	66	53	84.5	41.5	85	40	8	1-16	ER25	1:1	6000	40	Ø24X6X3.2
SD6271	40	64	68	53	76	69	90	43	98	63	10	2-20	ER32	1:1	5000	70	Ø32X8X4.5
SD6305	50	75	84	68	88	78	103	50.5	115	70	12	3-26	ER40	1:1	4000	100	Ø40X8X4

RADIAL TOOL HEAD, DIRECT DRIVE, LEFT VERSION



ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD5907	16	34	48	35	42	61	46	25	50	54	8	1-7	ER11	1:1	6000	6.3	Ø14.5X4X4
SD6186	30	55	59	45	66	53	84.5	41.5	85	40	8	1-16	ER25	1:1	6000	40	Ø24X6X3.2
SD6297	40	64	68	53	76	69	90	43	98	63	10	2-20	ER32	1:1	5000	70	Ø32X8X4.5
SD6310	50	75	84	68	88	78	103	50.5	115	70	12	3-26	ER40	1:1	4000	100	Ø40X8X4

RADIAL TOOL HEAD, INDIRECT DRIVE, RIGHT VERSION

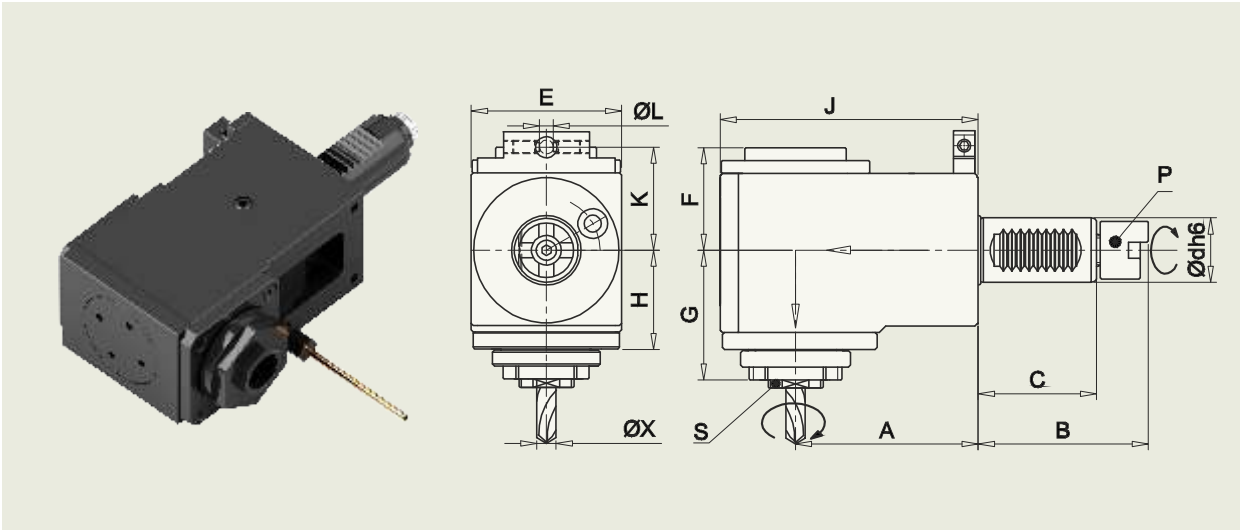


ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6320	50	91	84	68	84	109	50.3	43.5	131	70	12	3-26	ER40	1:1	5000	70	Ø40X20X8

04

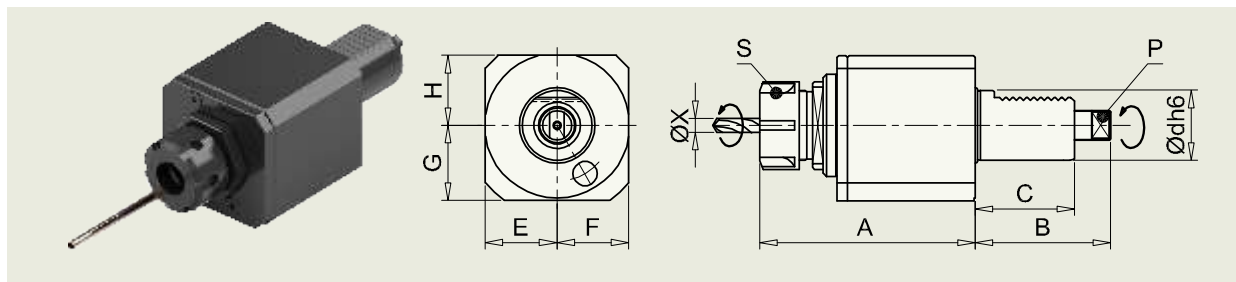
RADIAL TOOL HEAD, FOR RADIAL DISC

SINGLE END



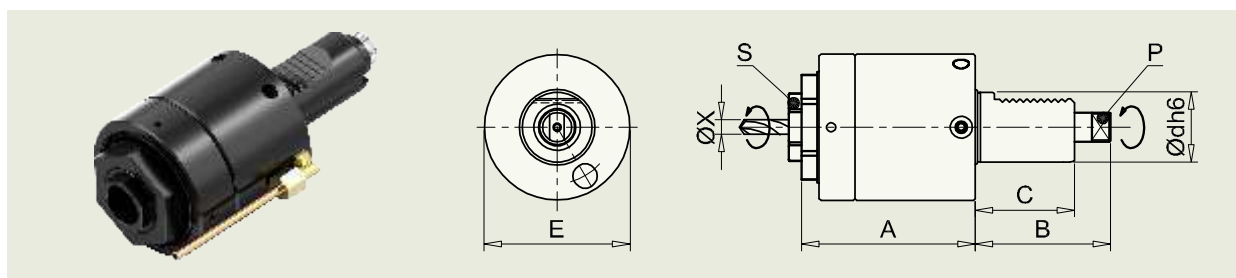
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6163	30	85	59	45	62	49.5	64.5	45.5	117	35	1-16	ER25	1:1	6000	40	Ø24X6X3.2
SD6259	40	100	68	53	76	54	74.5	47	141	45	2-20	ER32	1:1	5000	70	Ø32X8X4.5

AXIAL TOOL HEAD, SQUARE



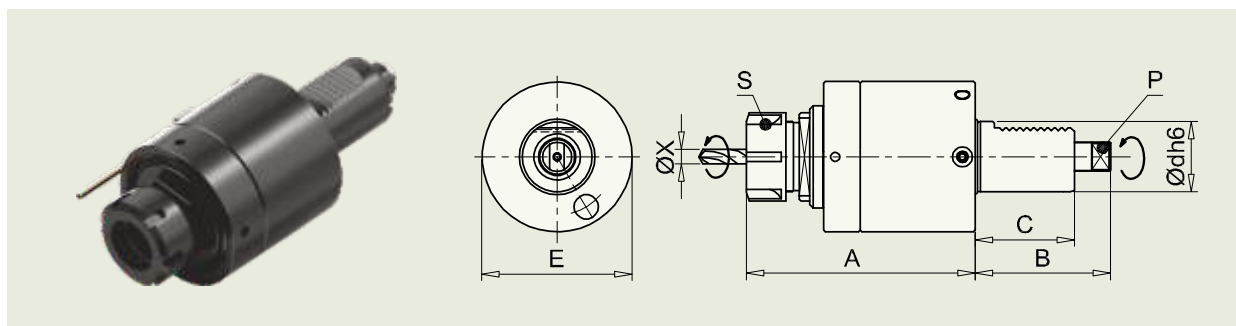
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6013	20	92	48	40	30	30	30	28	1-10	ER16	1:1	6000	40	Ø10X5X6.5
SD6012	20	92	48	40	30	30	30	28	1-13	ER20	1:1	6000	40	Ø10X5X6.5
SD6415	25	99	72	49.5	30	30	30	28	1-16	ER25	1:1	6000	20	Ø12X8X8
SD6144	30	94	62	50.5	30	30	30	28	1-13	ER20	1:1	6000	40	Ø12X6X7
SD6124	30	98.5	62	50.5	30	30	30	28	1-16	ER25	1:1	6000	40	Ø12X6X7
SD6236	40	123	72	56	41	41	43	40	2-20	ER32	1:1	5000	70	Ø14X8X8

AXIAL TOOL HEAD, ROUND, INT NUT



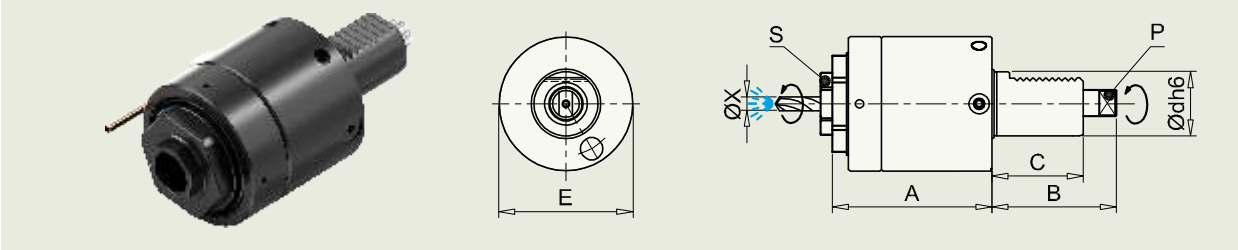
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6157	30	80	62	50.5	68	1-16	ER25	1:1	6000	40	Ø12X6X7
SD6254	40	102	72	53	83	2-20	ER32	1:1	5000	70	Ø16.5X8X8

AXIAL TOOL HEAD, ROUND, EXT NUT



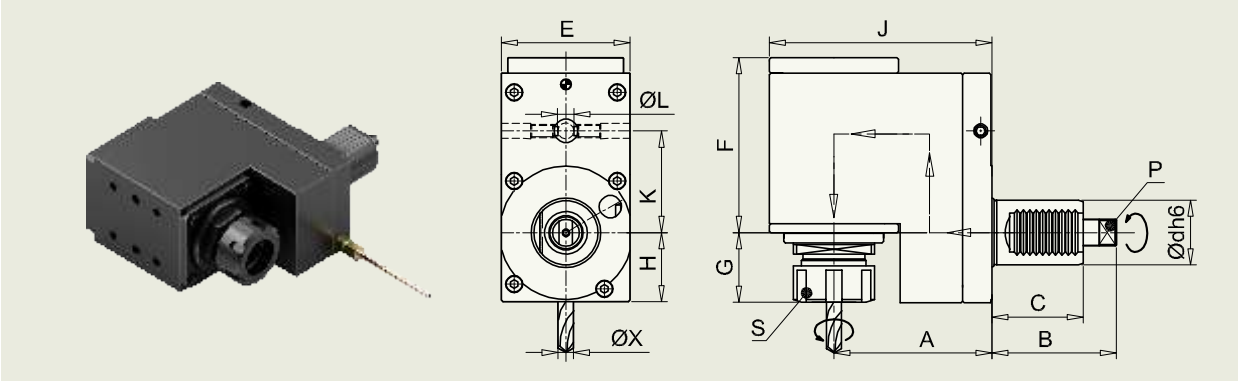
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6306	50	125	92	78	98	3-26	ER40	1:1	4000	100	Ø22X13X13
SD6508	60	137.8	109.5	93.5	118	10-34	ER50	1:1	3800	100	Ø29X15X14

AXIAL TOOL HEAD, ROUND, INT NUT, **THROUGH COOLANT**



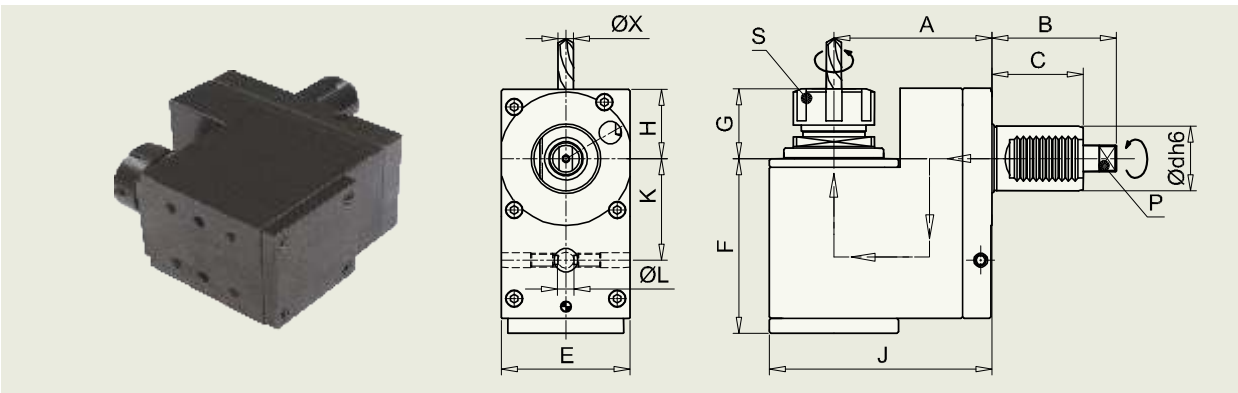
ARTICLE NO.	$\varnothing dh6$	A	B	C	E	$\varnothing X$	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6177	30	80	62	50.5	68	1-16	ER25	1:1	6000	40	$\varnothing 12 \times 6 \times 7$
SD6283	40	95	72	56	83	2-20	ER32	1:1	5000	70	$\varnothing 14 \times 8 \times 8$

RADIAL TOOL HEAD, INDIRECT DRIVE, RIGHT VERSION



ARTICLE NO.	$\varnothing dh6$	A	B	C	E	F	G	H	J	K	$\varnothing L$	$\varnothing X$	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6108	30	84	62	50.5	63	105.6	49	33	119	40	8	1-16	ER-25	1:1	6000	40	$\varnothing 12 \times 6 \times 7$
SD6188	30	90	62	50.5	63	96.5	49	33	122	40	8	1-16	ER25	1:1	6000	40	$\varnothing 12 \times 6 \times 7$
SD6606	40	98	72	56	80	106.5	43	43	135	63	10	2-20	ER32	1:1	5000	70	$\varnothing 14 \times 8 \times 8$

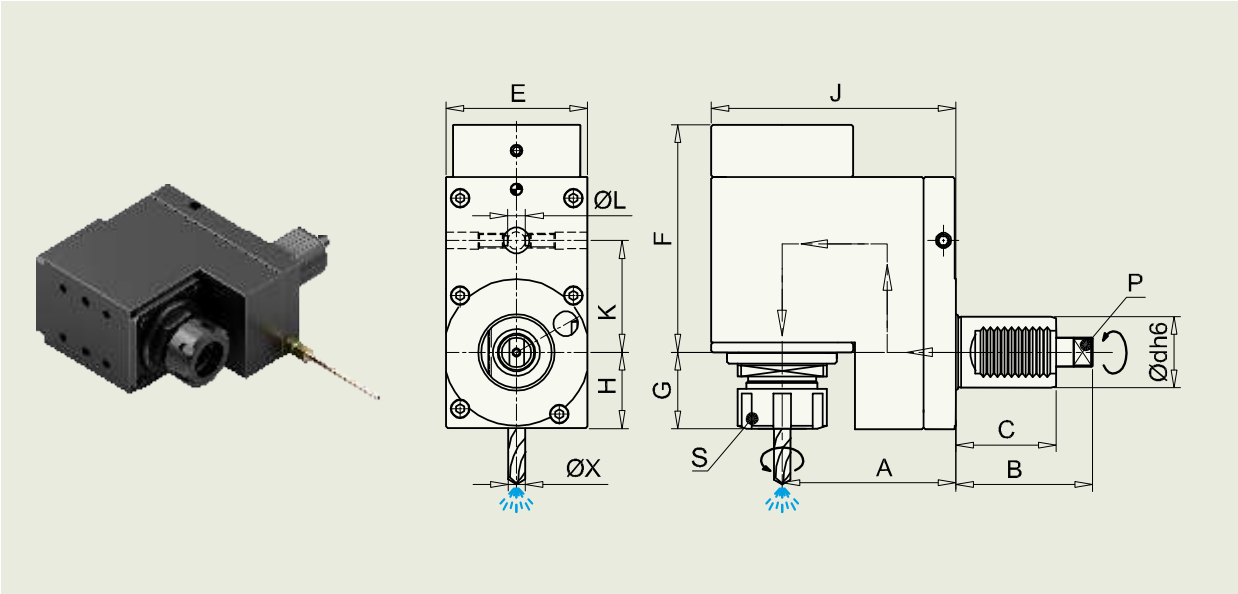
RADIAL TOOL HEAD, INDIRECT DRIVE, LEFT VERSION



ARTICLE NO.	$\varnothing dh6$	A	B	C	E	F	G	H	J	K	$\varnothing L$	$\varnothing X$	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6189	30	90	62	50.5	63	96.5	49	33	122	40	8	1-16	ER25	1:1	6000	40	$\varnothing 12 \times 6 \times 7$
SD6607	40	98	72	56	80	106.5	43	43	135	63	10	2-20	ER32	1:1	5000	70	$\varnothing 14 \times 8 \times 8$

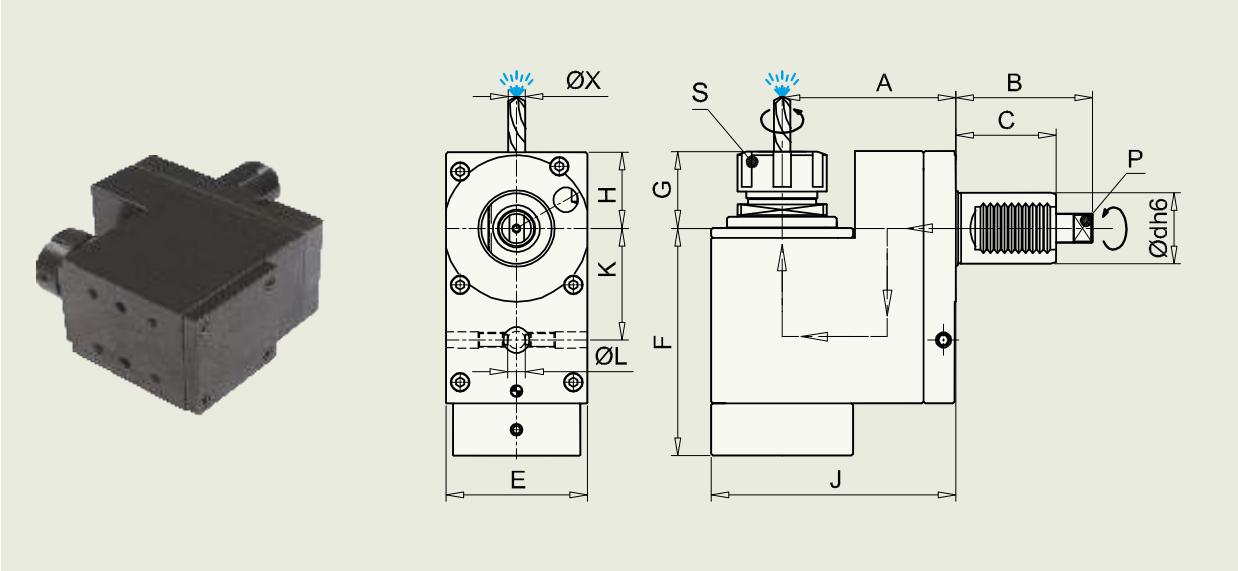
04

RADIAL TOOL HEAD, INDIRECT DRIVE,
RIGHT VERSION, **THROUGH COOLANT**



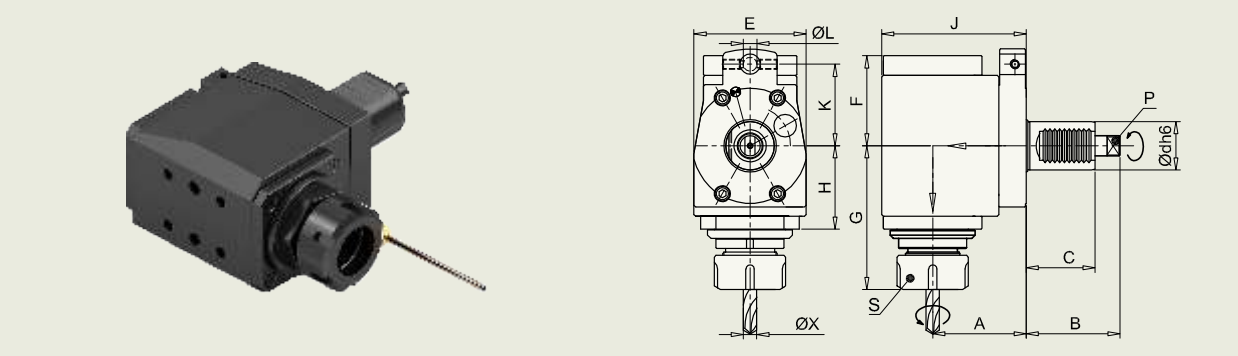
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6180	30	90	62	50.5	63	104.5	49	33	122	40	8	1-16	ER25	1:1	6000	40	Ø12X6X7
SD6603	40	98	72	56	77	115.5	43	43	135	63	10	2-20	ER32	1:1	5000	70	Ø14X8X8

RADIAL TOOL HEAD, INDIRECT DRIVE,
LEFT VERSION, **THROUGH COOLANT**



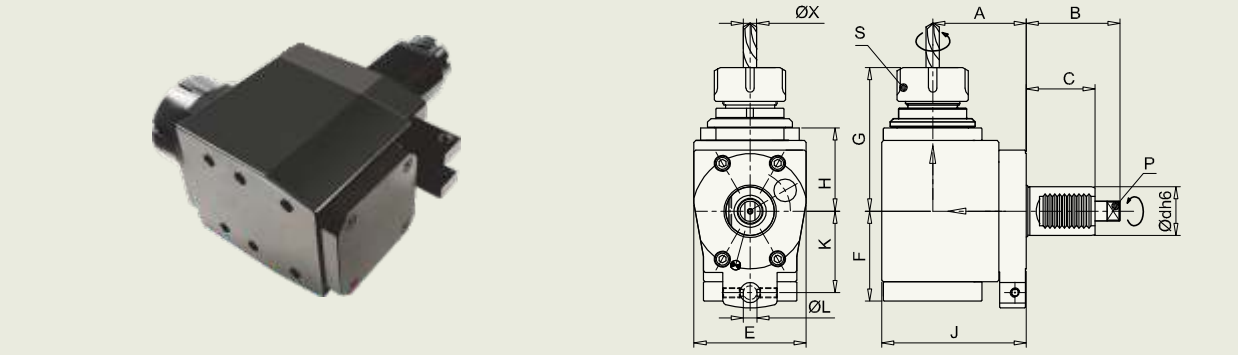
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6187	30	90	62	50.5	63	104.5	49	33	122	40	8	1-16	ER25	1:1	6000	40	Ø12X6X7
SD6604	40	98	72	56	80	115.5	43	43	135	63	10	2-20	ER32	1:1	5000	70	Ø14X8X8

RADIAL TOOL HEAD, DIRECT DRIVE, RIGHT VERSION



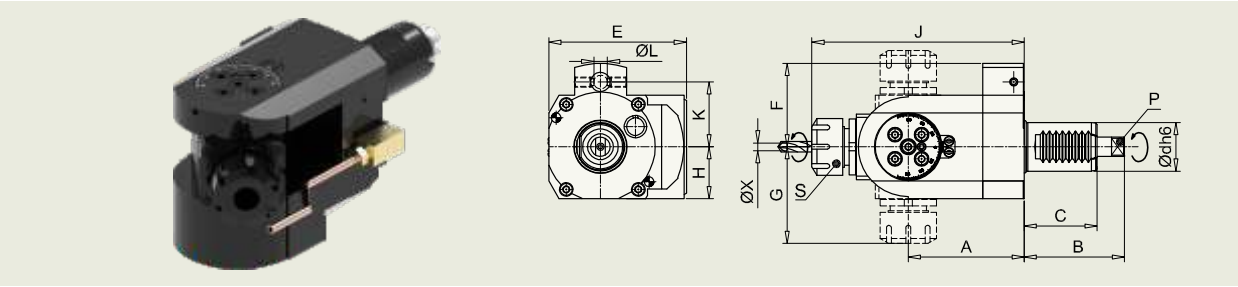
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6015	20	45	48	40	58	48	65.6	39.5	71	40	8	1-10	ER16	1:1	6000	10	Ø10X5X6.5
SD6017	20	45	48	40	58	35.5	73	39.5	71	40	8	1-13	ER20	1:1	6000	25	Ø10X5X11
SD6142	30	55	62	50.5	66	53	84.5	41.5	85	40	8	1-16	ER25	1:1	6000	40	Ø12X6X7
SD6241	40	64	72	56	76	69	90	43	98	63	10	2-20	ER32	1:1	5000	70	Ø14X8X8
SD6308	50	75	92	78	88	78	103	59	115	70	12	3-26	ER40	1:1	4000	100	Ø22X13X13

RADIAL TOOL HEAD, DIRECT DRIVE, LEFT VERSION



ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6016	20	45	48	40	58	48	65.6	39.5	71	40	8	1-10	ER16	1:1	6000	10	Ø10X5X6.5
SD6185	30	55	62	50.5	66	53	84.5	41.5	85	40	8	1-16	ER25	1:1	6000	40	Ø12X6X7
SD6296	40	64	72	56	76	69	90	43	98	63	10	2-20	ER32	1:1	5000	70	Ø14X8X8
SD6316	50	75	92	78	88	78	103	59	115	70	12	3-26	ER40	1:1	4000	100	Ø22X13X13

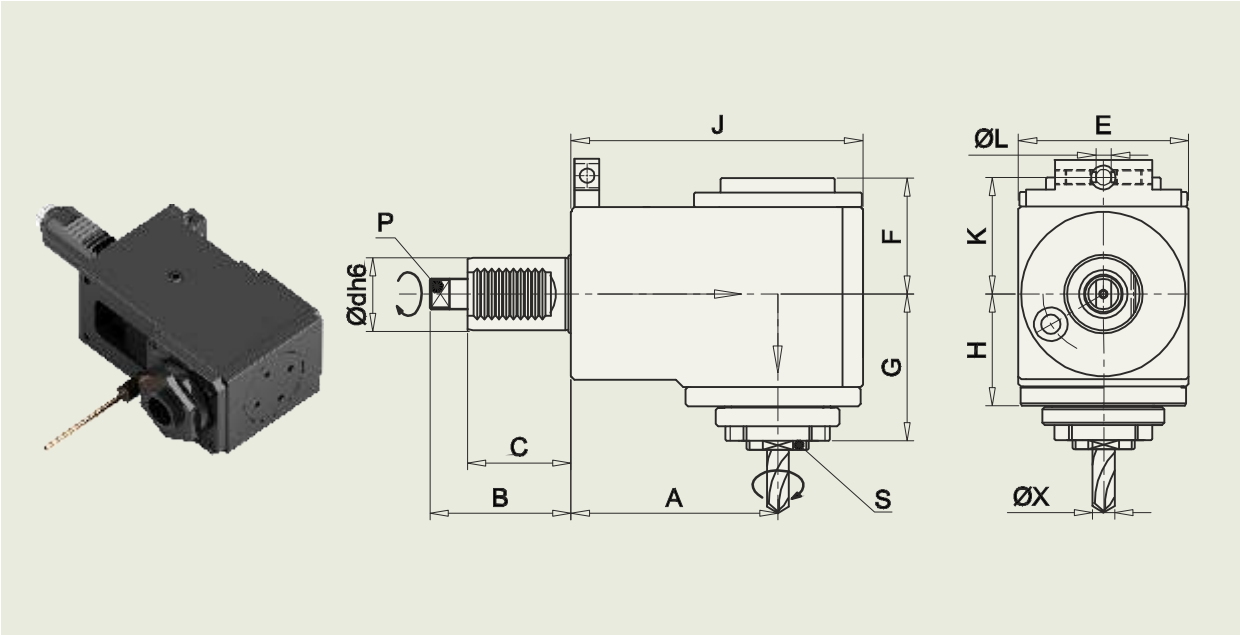
RADIAL TOOL HEAD, ANGULAR HEAD, RIGHT VERSION



ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6145	30	71.5	62	45	85	51.5	59.5	32	131	40	8	2-13	ER20	1:1	4000	25	Ø12X6X7
SD6278	40	71.5	72	56	103	71	70	38	141.5	63	10	1-16	ER25	1:1	8000	20	Ø14X8X8

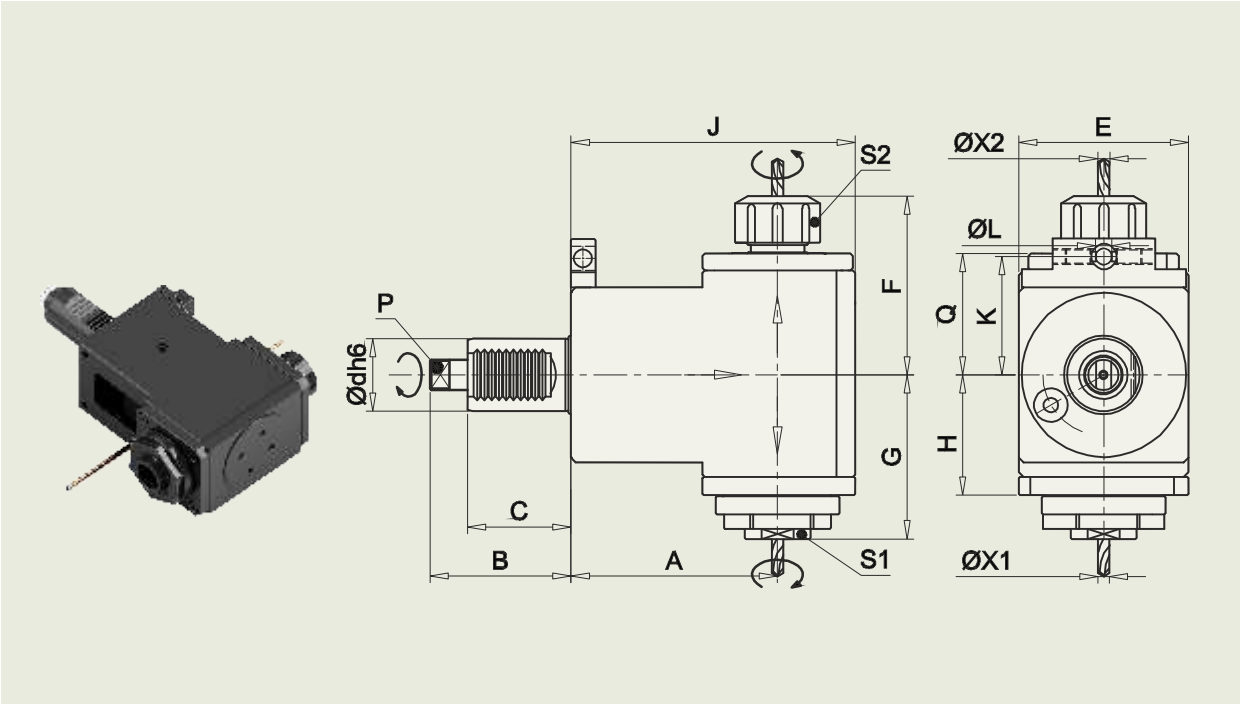
RADIAL TOOL HEAD, FOR RADIAL DISC

SINGLE END



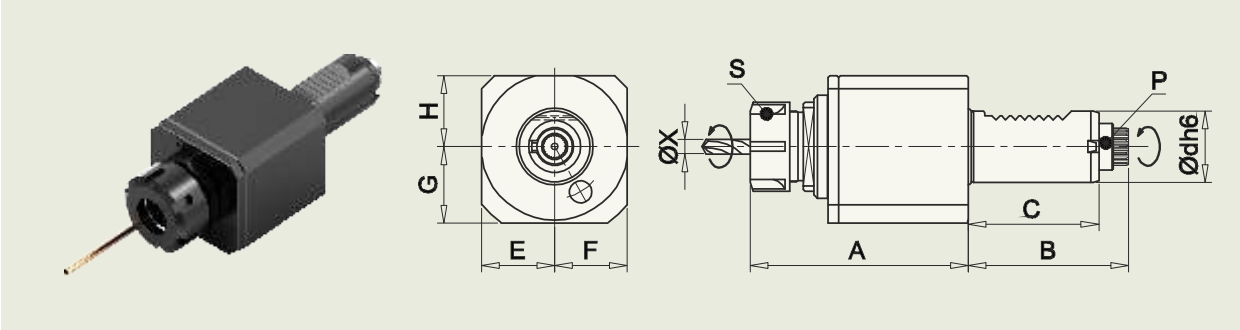
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6179	30	100	62	50.5	62	49.5	64.5	46	132	40	8	1-16	ER25	1:1	6000	40	Ø12X6X7

DOUBLE END



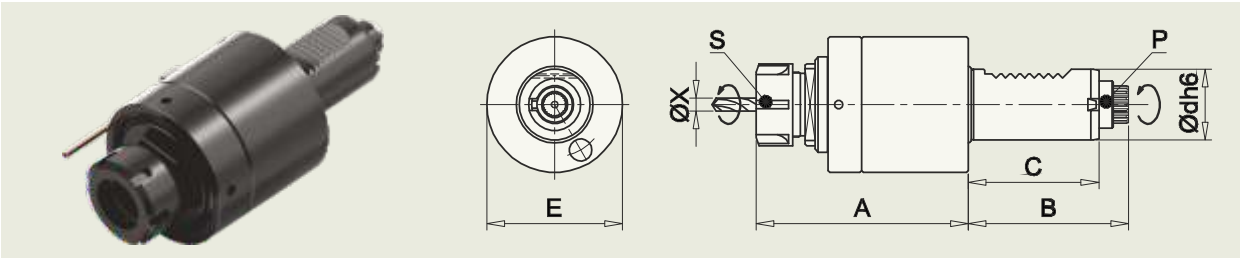
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	Q	ØL	ØX1	ØX2	S1 (DIN 6499)	S2 (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6164	30	75	62	50.5	62	75.5	69	50	107	40	50	8	1-16	1-13	ER25	ER20	1:1	6000	40	Ø12X6X7

AXIAL TOOL HEAD, SQUARE



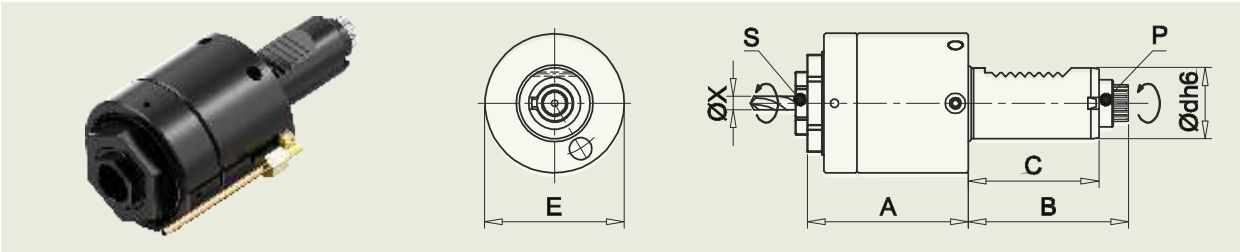
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD5901	16	65	42	32	21	25	21	21	1-7	ER11	1:1	6000	6.3	W8X0.8X30°X8-9b
SD6002	20	94	51	40	30	30	27	28	1-13	ER20	1:1	6000	10	W10X0.8X30°X11-9b
SD6106	30	94	67	55	30	30	30	28	1-13	ER20	1:1	6000	40	W16X0.8X30°X18-9b
SD6111	30	98.5	67	55	30	30	30	28	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6207	40	123	75	63	41	41	43	40	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b

AXIAL TOOL HEAD, ROUND, EXT NUT



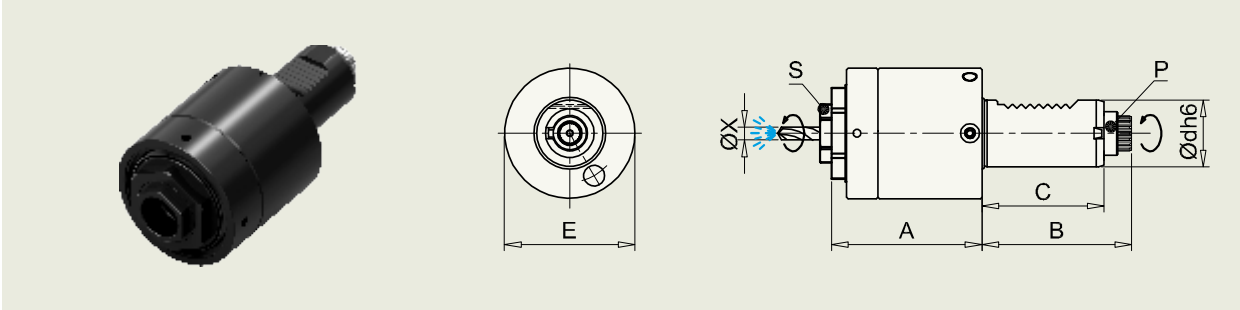
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6014	20	92	51	40	52	1-13	ER20	1:1	6000	10	W10X0.8X30°X11-9b
SD6198	30	102	67	55	68	2-20	ER32	1:1	6000	45	W16X0.8X30°X18-9b
SD6122	30	99.5	67	55	68	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6608	40	127.5	75	63	83	3-26	ER40	1:1	5000	70	W20X0.8X30°X24-9b
SD6224	40	120.5	75	63	83	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b
SD6312	50	125	93	78	98	3-26	ER40	1:1	4000	100	W24x1.25X30°x18-9b

AXIAL TOOL HEAD, ROUND, INT NUT



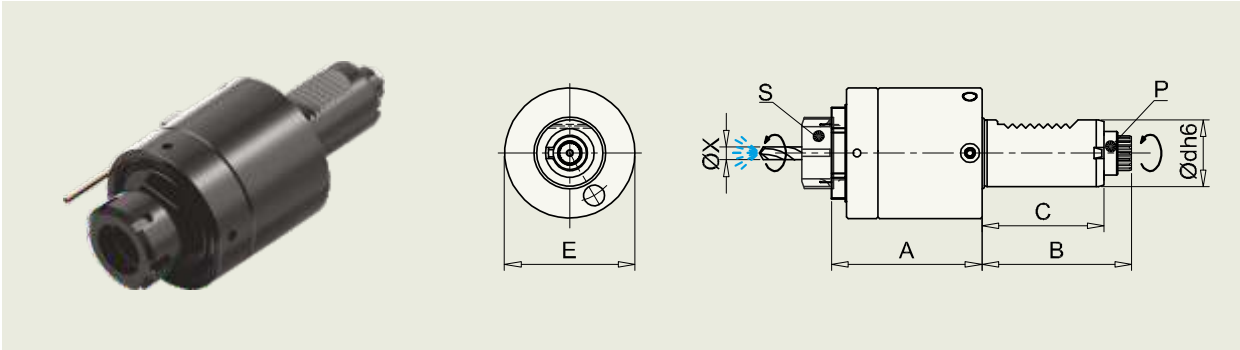
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6402	25	76	57	48	58	1-13	ER20	1:1	6000	25	W14X0.8X30°X16-9b
SD6117	30	80	67	55	68	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6226	40	95	75	63	83	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b

AXIAL TOOL HEAD, ROUND, INT NUT, **THROUGH COOLANT**



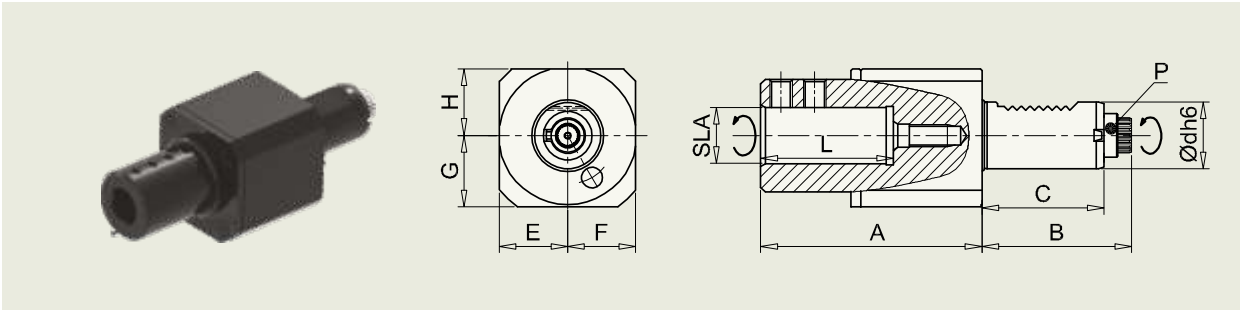
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6136	30	80	67	55	68	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6232	40	95	75	63	83	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b

AXIAL TOOL HEAD, ROUND, EXT NUT, **THROUGH COOLANT**



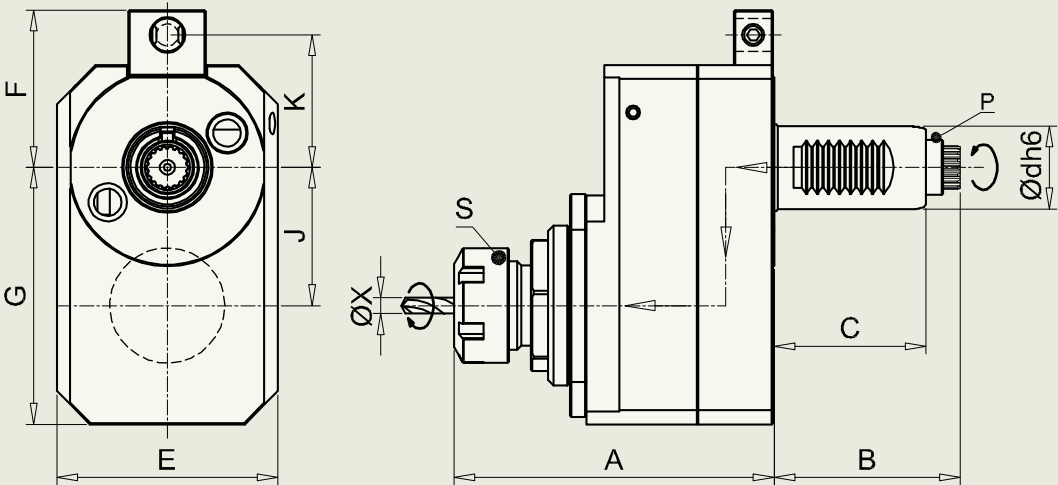
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6325	50	129.7	93	78	98	3-26	ER40	1:1	4000	100	W24X1.25X30°X18-9b

AXIAL TOOL HEAD, SQUARE, SIDE LOCK ADAPTER



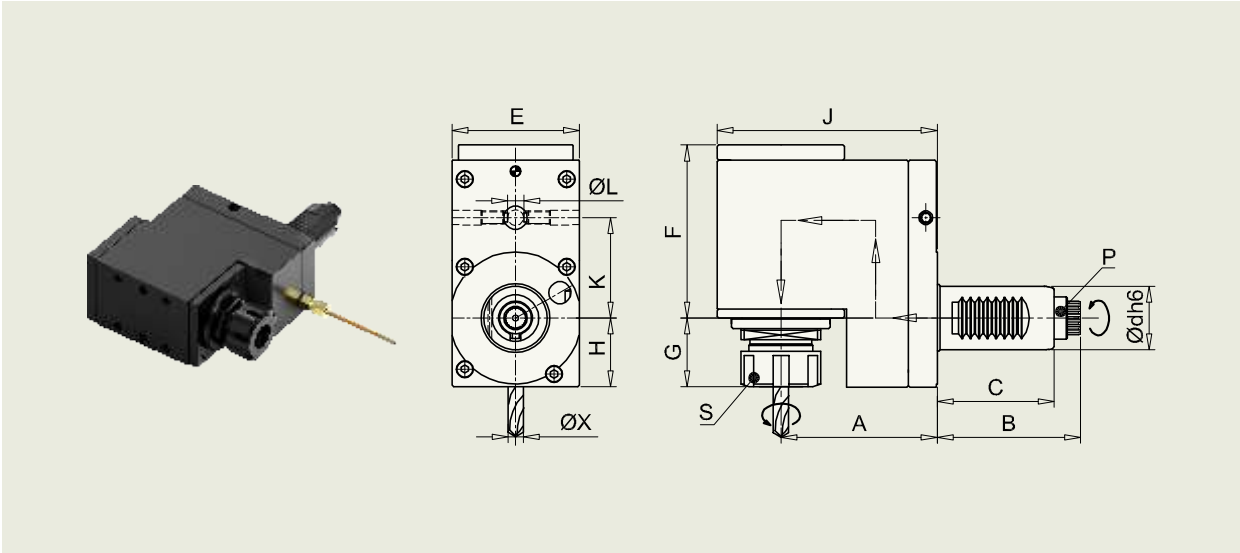
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	SLA	L	i	N _{max} RPM	T Nm	P
SD6208	40	127	75	63	41	41	43	40	25	59	1:1	5000	70	W20X0.8X30°X24-9b
SD6270	40	148	75	63	41	41	43	40	25	80	1:1	5000	70	W20X0.8X30°X24-9b

AXIAL TOOL HEAD, OFFSET, RIGHT VERSION



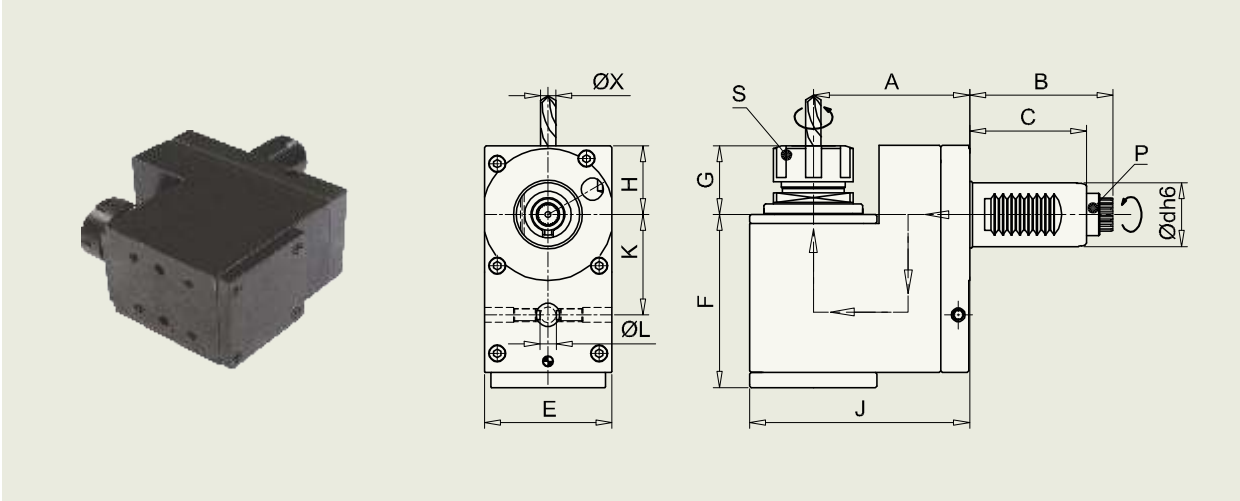
ARTICLE NO.	Ødh6	A	B	C	E	F	G	J	K	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6170	30	116	67	55	82	57	93	50	48	2-16	ER25	2:1	6000	40	W16X0.8X30°X18-9b
SD6605	40	117	75	63	82	65	93	50	56	2-20	ER32	2:1	6000	40	W20X0.8X30°X24-9b

RADIAL TOOL HEAD INDIRECT DRIVE, RIGHT VERSION



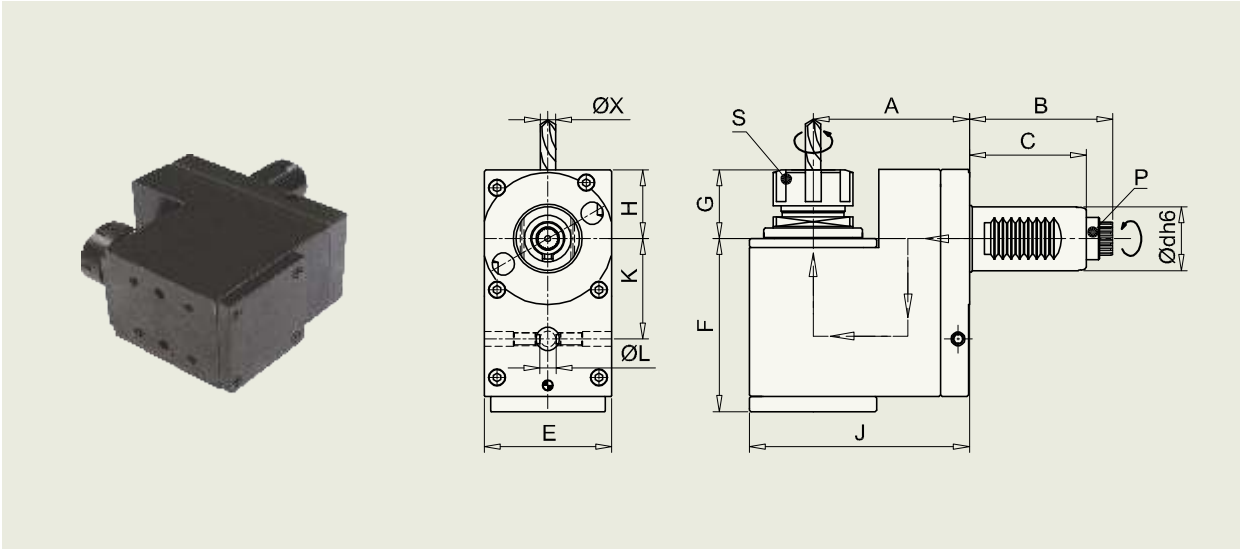
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD5910	16	45	41.8	32	42	53	27.5	21	61	54	6	1-10	ER16	1:1	6000	6.3	W8X0.8X30°X8-9b
SD6007	20	57	50.8	40	50	70	25.5	25	82	40	8	1-10	ER16	1:1	6000	6.3	W10X0.8X30°X11-9b
SD6175	30	90	67	55	63	96.5	49	33	122	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6107	30	84	67	55	63	96.5	49	33	119	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6292	40	98	75	63	80	108.5	43	43	135	56	10	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b
SD6609	40	91	75	63	80	109	50.3	43	131	56	10	2-26	ER40	1:1	5000	70	W20X0.8X30°X24-9b

RADIAL TOOL HEAD, INDIRECT DRIVE, LEFT VERSION



ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6178	30	90	67	55	63	96.5	49	33	122	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6126	30	84	67	55	63	96.5	49	33	119	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6239	40	98	75	63	80	108.5	43	43	135	56	10	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b

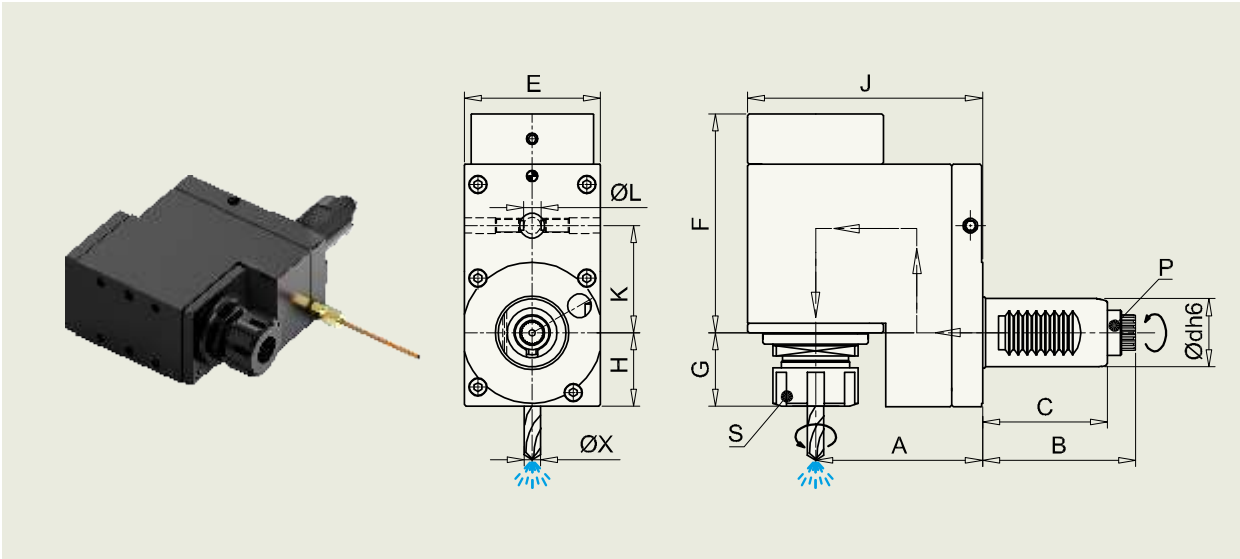
RADIAL TOOL HEAD, INDIRECT DRIVE,
RIGHT & LEFT VERSION, DOUBLE SERRATION



ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N max RPM	T Nm	P
SD6132	30	90	67	55	63	96	49	33	122	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b

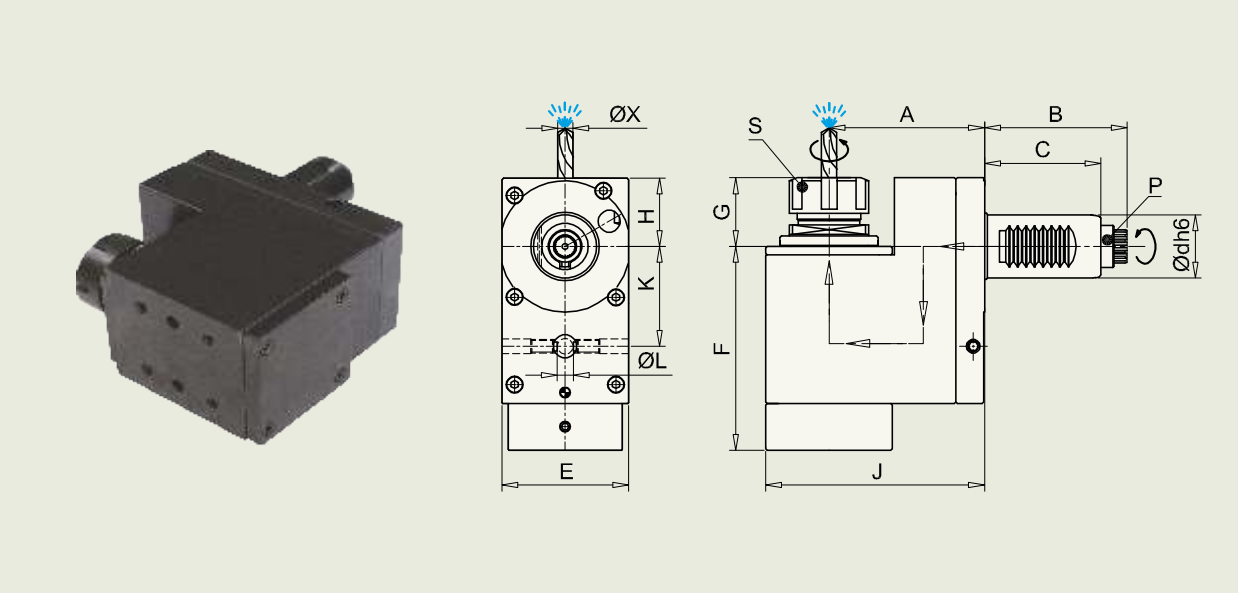
04

RADIAL TOOL HEAD, INDIRECT DRIVE,
RIGHT VERSION, **THROUGH COOLANT**



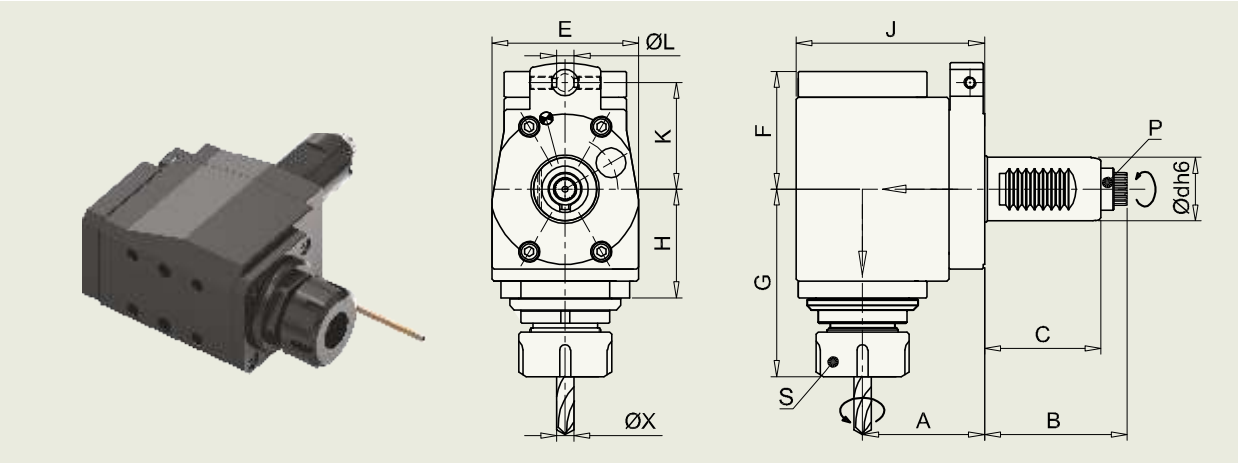
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N max RPM	T Nm	P
SD6171	30	90	67	55	63	104.5	49	33	122	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6273	40	98	75	63	77	115.5	43	43	135	56	10	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b

RADIAL TOOL HEAD, INDIRECT DRIVE,
LEFT VERSION, **THROUGH COOLANT**



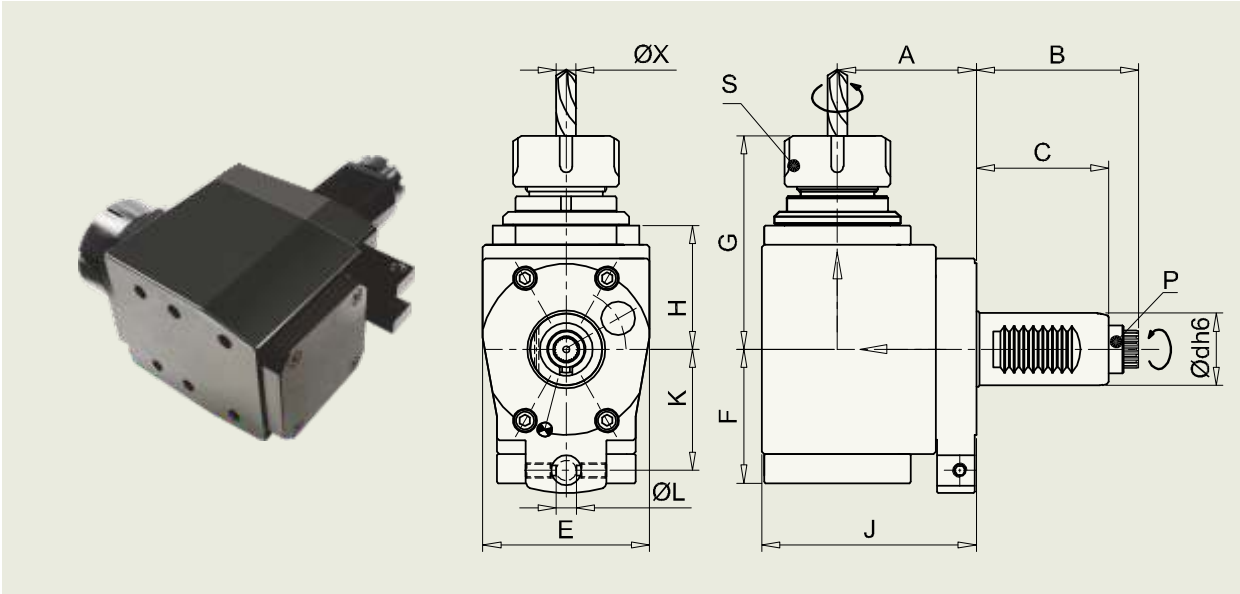
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6184	30	90	67	55	63	104.5	49	33	122	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6295	40	98	75	63	80	115.5	43	43	135	56	10	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b

RADIAL TOOL HEAD, DIRECT DRIVE, RIGHT VERSION



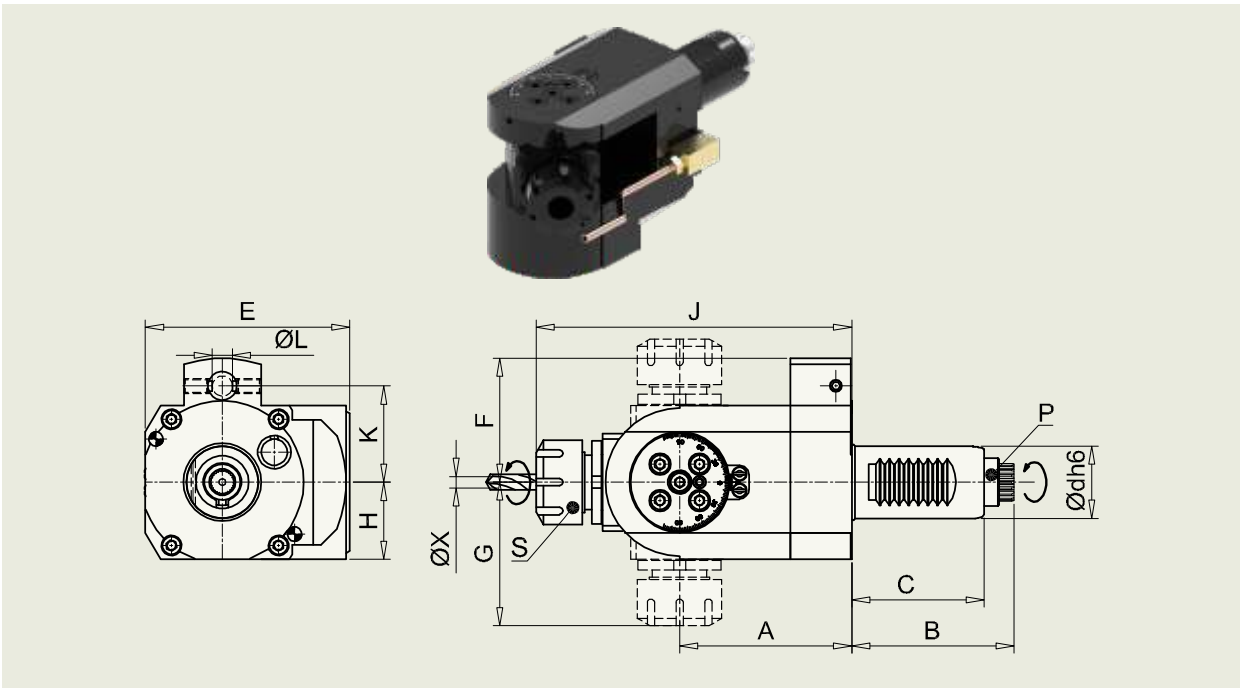
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD5902	16	34	42	32	42	61	46	25	50	54	8	1-7	ER11	1:1	6000	6.3	W8X0.8X30°X8-9b
SD5905	16	34	42	32	42	32	51	29.5	50	54	8	1-10	ER16	1:1	6000	6.3	W8X0.8X30°X8-9b
SD6003	20	45	51	40	58	50	66	40	71	40	8	1-10	ER16	1:1	6000	10	W10X0.8X30°X11-9b
SD6130	30	55	67	55	66	53	84.5	41.5	85	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6221	40	64	75	63	76	69	90	43	98	56	10	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b
SD6313	50	75	93	78	88	70	103	59	115	64	12	3-26	ER40	1:1	4000	100	W24x1.25X30°x18-9b

RADIAL TOOL HEAD, DIRECT DRIVE, LEFT VERSION



ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD5906	16	34	42	32	42	61	46	25	50	54	8	1-7	ER11	1:1	6000	6.3	W8X0.8X30°X8-9b
SD6005	20	45	51	40	58	50	66	40	71	40	8	1-10	ER16	1:1	6000	10	W10X0.8X30°X11-9b
SD6134	30	55	67	55	66	53	84.5	41.5	85	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6234	40	64	75	63	76	69	90	43	98	56	10	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b
SD6314	50	75	93	78	88	70	103	59	115	64	12	3-26	ER40	1:1	4000	100	W24x1.25X30°x18-9b

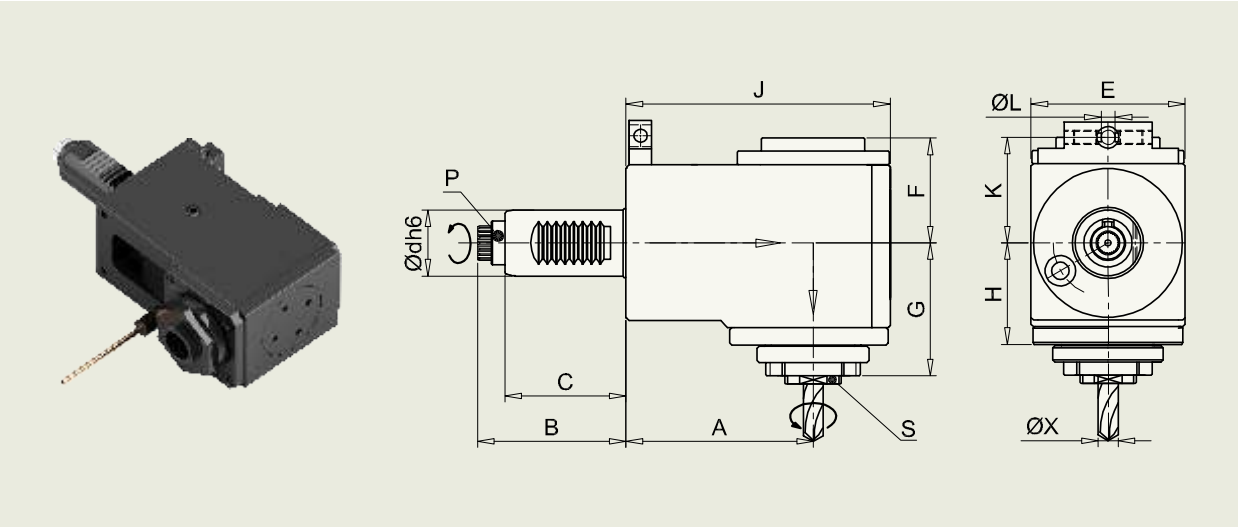
RADIAL TOOL HEAD, ANGULAR HEAD, RIGHT VERSION



ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6154	30	71.5	67	55	85	57	59.5	32	131	48	8	2-13	ER20	1:1	4000	25	W16X0.8X30°X18-9b
SD6260	40	71.5	75	63	103	64	70	38	141.5	56	10	1-16	ER25	1:1	8000	20	W20X0.8X30°X24-9b
SD6610	40	87	75	63	103	64	93	38	180	56	10	2-20	ER32	1:1	8000	20	W20X0.8X30°X24-9b

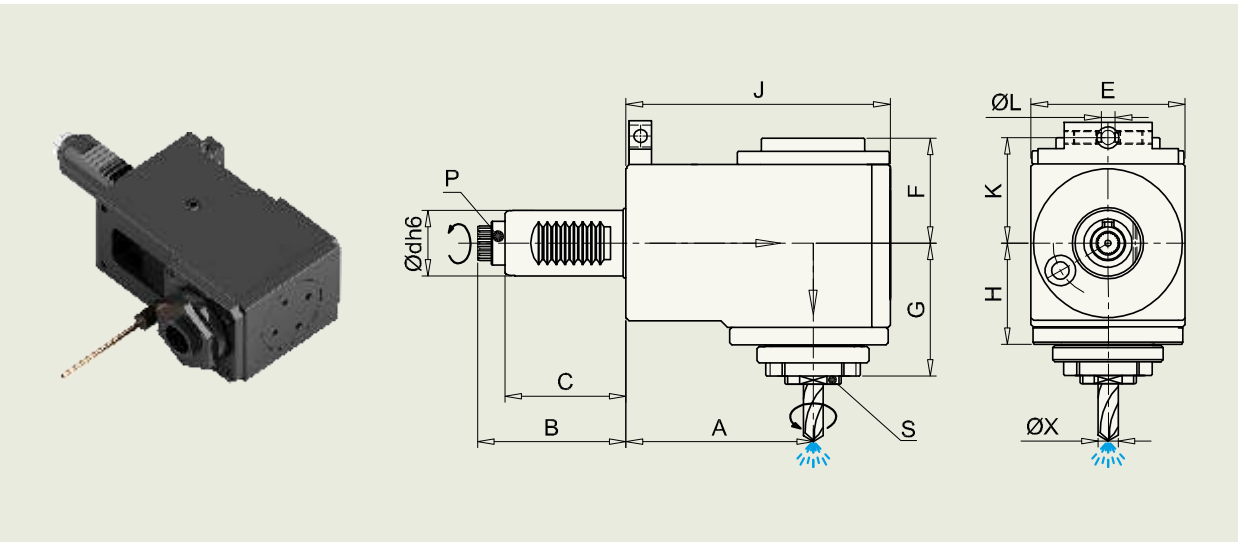
RADIAL TOOL HEAD, FOR RADIAL DISC

SINGLE END



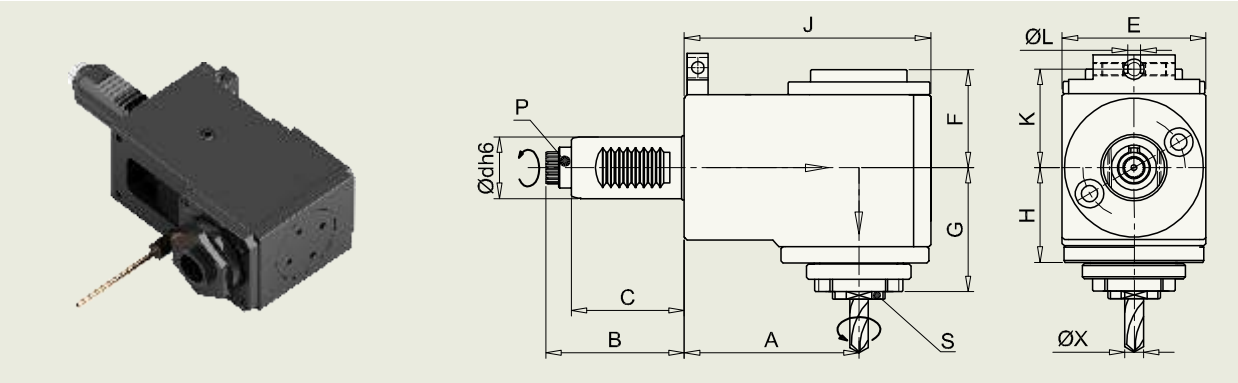
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6403	25	75	57	48	60	43	61.5	36	106	40	8	1-13	ER20	1:1	6000	25	W14X0.8X30°X16-9b
SD6414	25	75	57	48	58	43	70.5	43	104	40	8	1-16	ER25	1:1	6000	20	W14X0.8X30°X16-9b
SD6114	30	85	67	55	62	49.5	64.5	45.5	117	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6139	30	100	67	55	62	49.5	64.5	45.5	132	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6214	40	100	75	63	76	54	74.5	53	141	56	10	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b
SD6274	40	120	75	63	76	54	74.5	53	161	56	10	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b
SD6617	40	100	75	63	76	54	96.7	53	141	56	8	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b

SINGLE END, THROUGH COOLANT



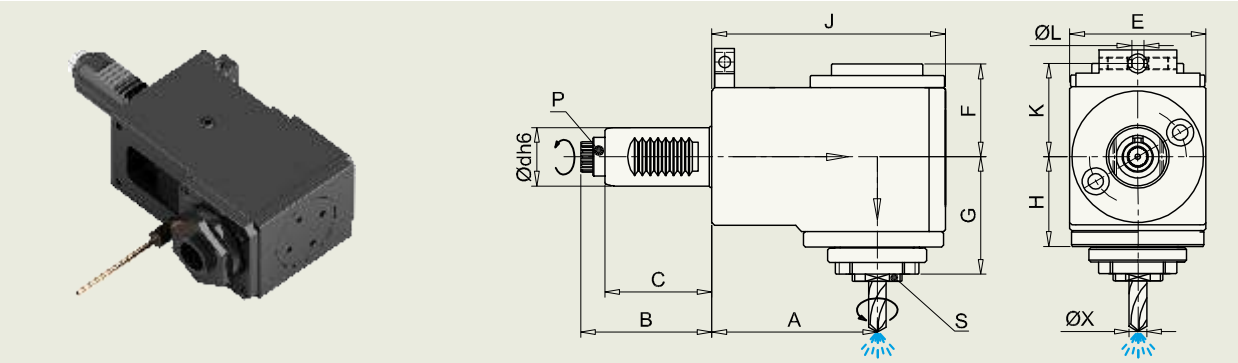
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6135	30	100	67	55	62	58.5	64.5	45.5	132	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b
SD6230	40	100	75	63	76	64.5	74.5	53	141	56	10	2-20	ER32	1:1	5000	70	W20X0.8X30°X24-9b

SINGLE END, DOUBLE SERRATION



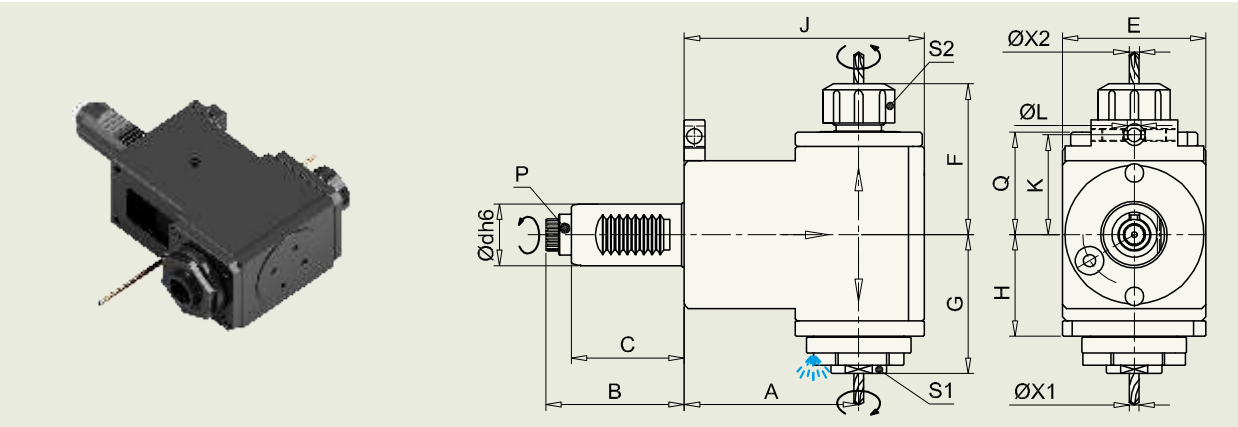
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N max RPM	T Nm	P
SD6133	30	100	67	55	62	49.5	64.5	45.5	132	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b

SINGLE END, DOUBLE SERRATION, **THROUGH COOLANT**



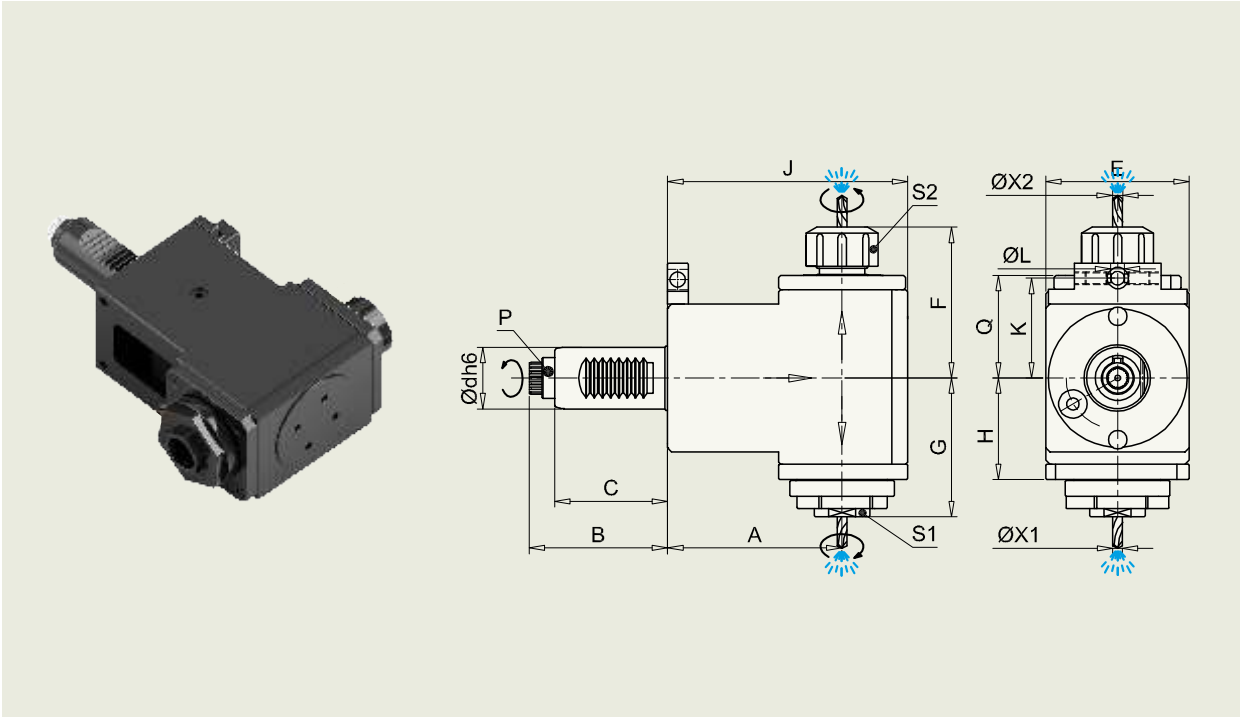
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N max RPM	T Nm	P
SD6706	30	100	67	55	62	58.5	64.5	45.5	132	48	8	1-16	ER25	1:1	6000	40	W16X0.8X30°X18-9b

DOUBLE END



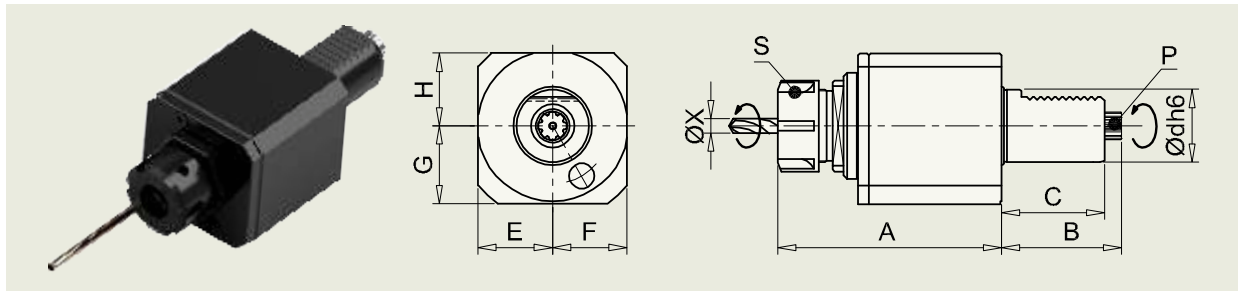
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	Q	ØL	ØX1	ØX2	S1 (DIN 6499)	S2 (DIN 6499)	i	N max RPM	T Nm	P
SD6404	25	75	57	48	62	75.5	68.5	49.5	107	40	50	8	1-16	1-13	ER25	ER20	1:1	6000	40	W14X0.8X30°X16-9b
SD6125	30	85	67	55	62	75.5	68.5	49.5	117	48	50	8	1-16	1-13	ER25	ER20	1:1	6000	40	W16X0.8X30°X18-9b
SD6129	30	100	67	55	62	75.5	68.5	49.5	132	48	50	8	1-16	1-13	ER25	ER20	1:1	6000	40	W16X0.8X30°X18-9b
SD6219	40	100	75	63	76	78.5	74.5	53	141	56	53	10	2-20	2-13	ER32	ER20	1:1	5000	70	W20X0.8X30°X24-9b
SD6229	40	120	75	63	76	78.5	74.5	53	161	56	53	10	2-20	2-13	ER32	ER20	1:1	5000	70	W20X0.8X30°X24-9b

DOUBLE END, INDIRECT DRIVE
RIGHT VERSION, **THROUGH COOLANT**



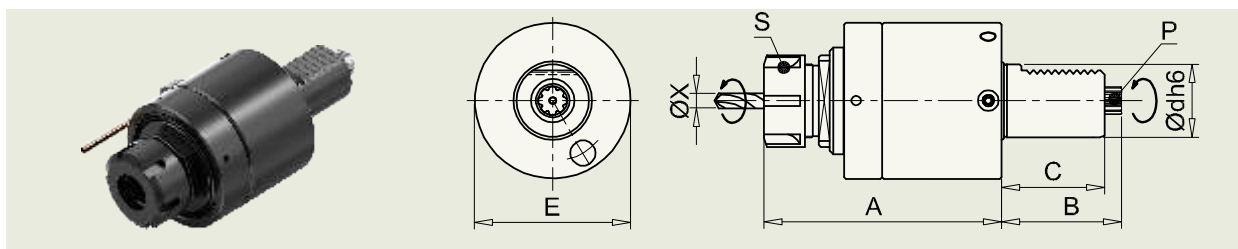
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	Q	ØL	ØX1	ØX2	S1 (DIN 6499)	S2 (DIN 6499)	i	N max RPM	T Nm	P
SD6409	25	75	60	48	62	73	99.5	80.5	107	40	51	8	1-16	1-13	ER25	ER20	1:1	6000	40	W14X0.8X30°X16-9b

AXIAL TOOL HEAD, SQUARE



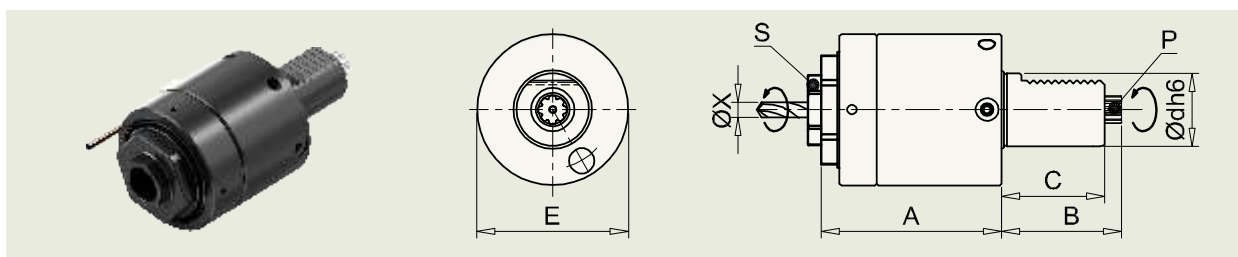
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6102	30	94	55	45	30	30	30	28	1-13	ER20	1:1	6000	40	B15X12-9b
SD6112	30	98.5	55	45	30	30	30	28	1-16	ER25	1:1	6000	40	B15X12-9b
SD6202	40	123	63	53	41	41	43	40	2-20	ER32	1:1	5000	70	B17X14-9b

AXIAL TOOL HEAD, ROUND, EXT NUT



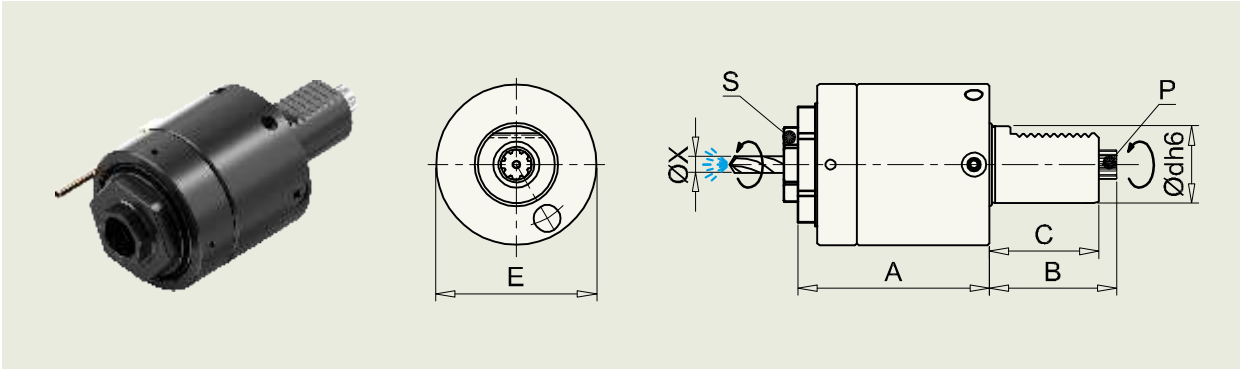
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6113	30	99.5	55	45	68	1-16	ER25	1:1	6000	40	B15X12-9b
SD6211	40	120.5	63	53	83	2-20	ER32	1:1	5000	70	B17X14-9b
SD6302	50	125	93	78	98	3-26	ER40	1:1	4000	100	B20X17-9b
SD6501	60	137.5	108	94	118	10-34	ER50	1:1	3800	200	B25X22-9b

AXIAL TOOL HEAD, ROUND, INT NUT



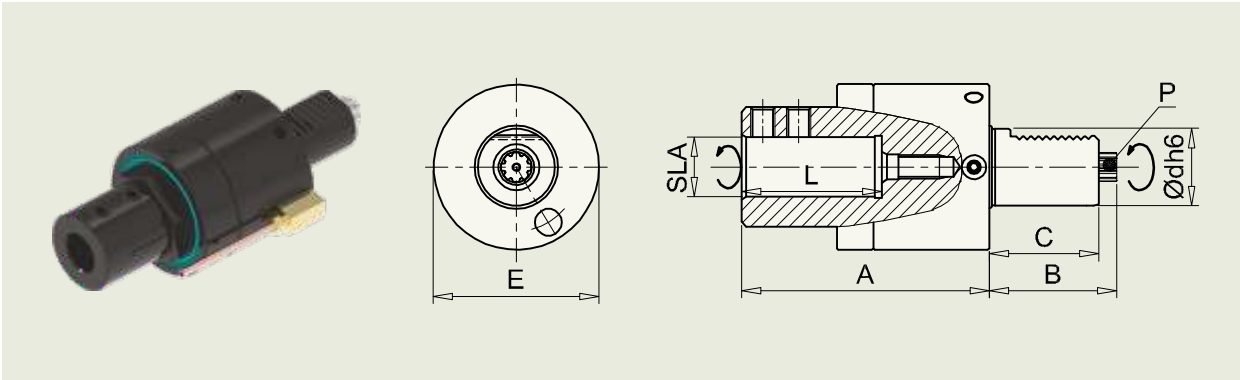
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6116	30	80	55	45	68	1-16	ER25	1:1	6000	40	B15X12-9b
SD6225	40	95	63	53	83	2-20	ER32	1:1	5000	70	B17X14-9b

AXIAL TOOL HEAD, ROUND, **THROUGH COOLANT**



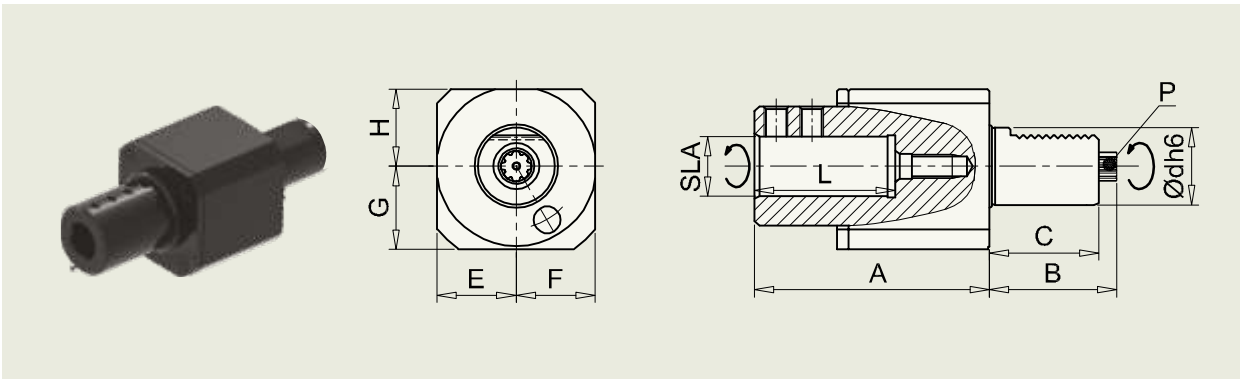
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6181	30	80	55	45	68	1-16	ER25	1:1	6000	40	B15X12-9b
SD6294	40	95	63	53	83	2-20	ER32	1:1	5000	70	B17X14-9b

AXIAL TOOL HEAD, ROUND, SIDE LOCK ADAPTER



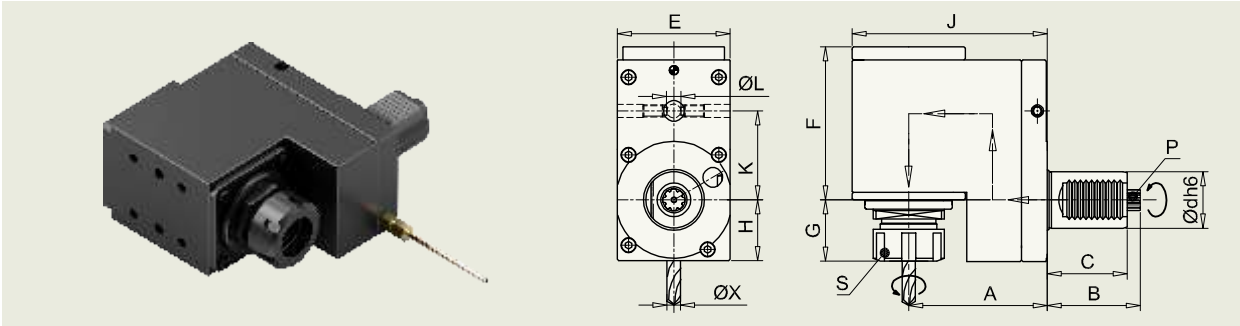
ARTICLE NO.	Ødh6	A	B	C	E	SLA	L	i	N _{max} RPM	T Nm	P
SD6169	30	116.5	55	45	68	20	40	1:1	6000	30	B15X12-9b

AXIAL TOOL HEAD, SQUARE, SIDE LOCK ADAPTER



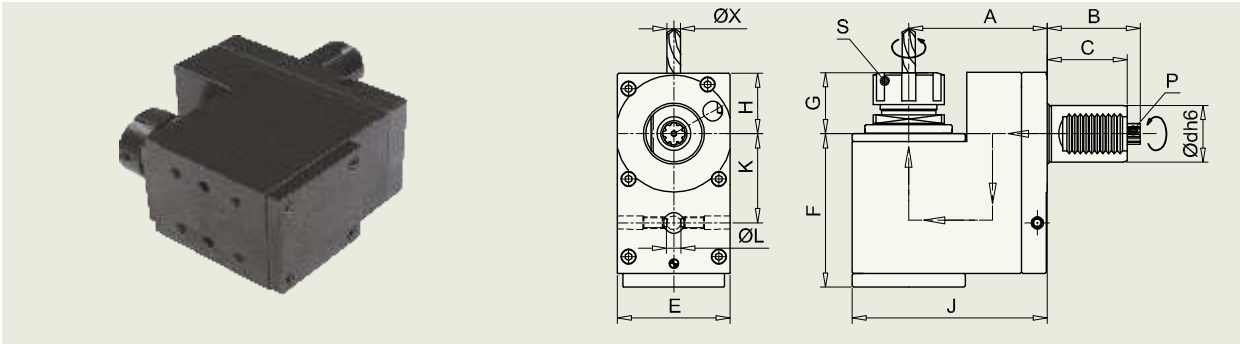
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	SLA	L	i	N _{max} RPM	T Nm	P
SD6252	40	133	63	53	41	41	43	40	20	60	1:1	5000	70	B17X14-9b

RADIAL TOOL HEAD, INDIRECT DRIVE, RIGHT VERSION



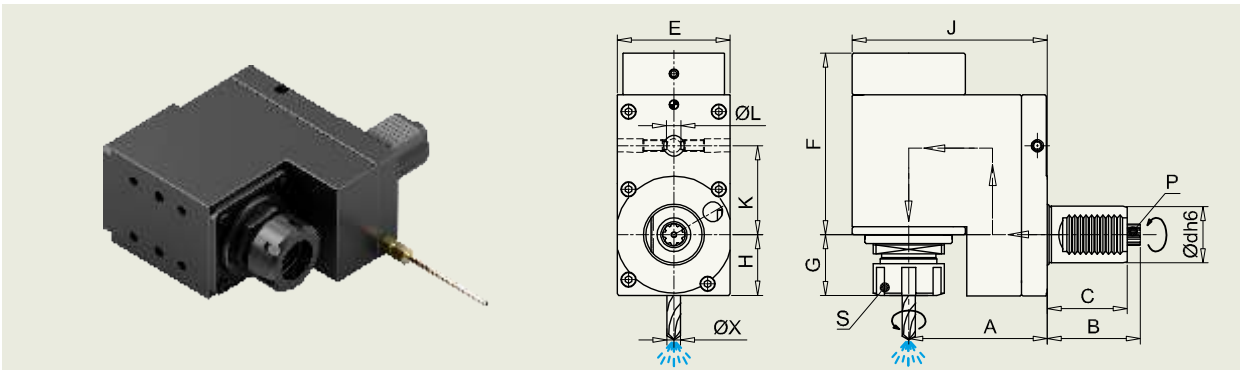
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6110	30	90	55	45	63	96.5	49	33	122	40	8	1-16	ER25	1:1	6000	40	B15X12-9b
SD6210	40	98	63	53	80	108.5	43	43	135	63	10	2-20	ER32	1:1	5000	70	B17X14-9b

RADIAL TOOL HEAD, INDIRECT DRIVE, LEFT VERSION



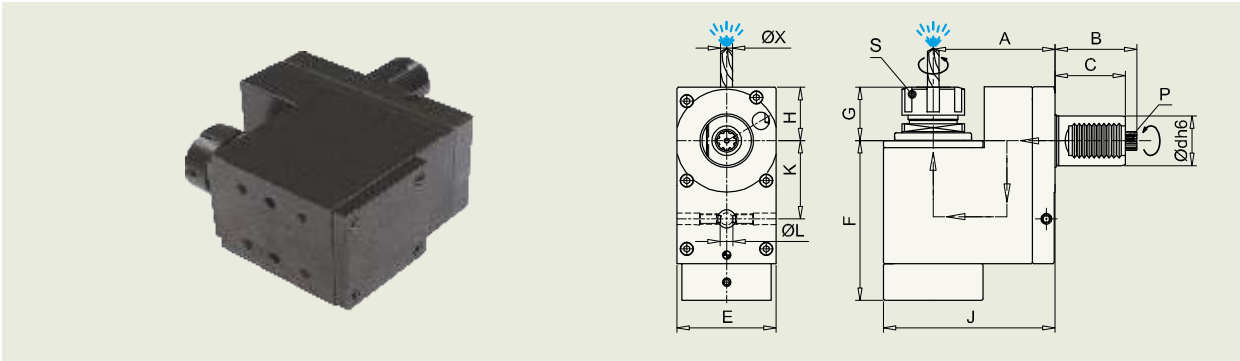
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6146	30	90	55	45	63	96.5	49	33	122	40	8	1-16	ER25	1:1	6000	40	B15X12-9b
SD6238	40	98	63	53	80	108.5	43	43	135	63	10	2-20	ER32	1:1	5000	70	B17X14-9b

RADIAL TOOL HEAD, INDIRECT DRIVE,
RIGHT VERSION, **THROUGH COOLANT**



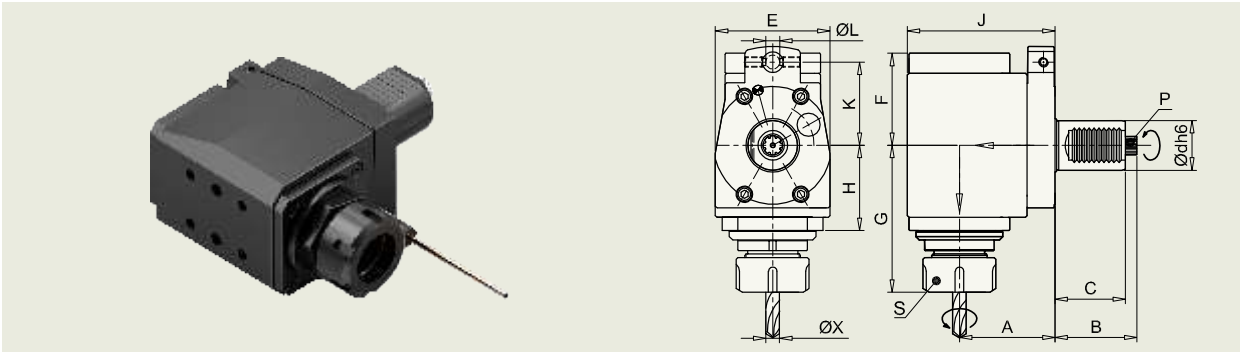
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6140	30	90	55	45	63	104.5	49	33	122	40	8	1-16	ER25	1:1	6000	40	B15X12-9b
SD6213	40	98	63	53	77	115.5	43	43	135	63	10	2-20	ER32	1:1	5000	70	B17X14-9b

RADIAL TOOL HEAD, INDIRECT DRIVE,
LEFT VERSION, **THROUGH COOLANT**



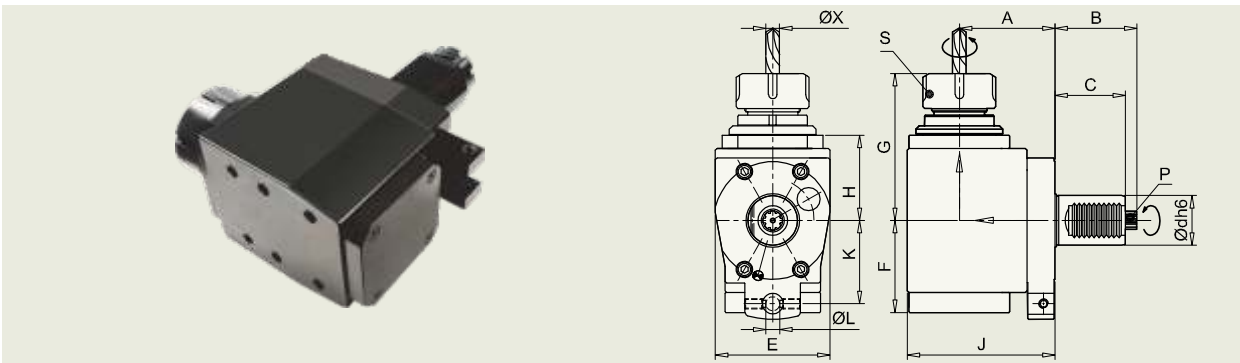
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6182	30	90	55	45	63	104.5	49	33	122	40	8	1-16	ER25	1:1	6000	40	B15X12-9b
SD6293	40	98	63	53	80	115.5	43	43	135	63	10	2-20	ER32	1:1	5000	70	B17X14-9b

RADIAL TOOL HEAD, DIRECT DRIVE, RIGHT VERSION



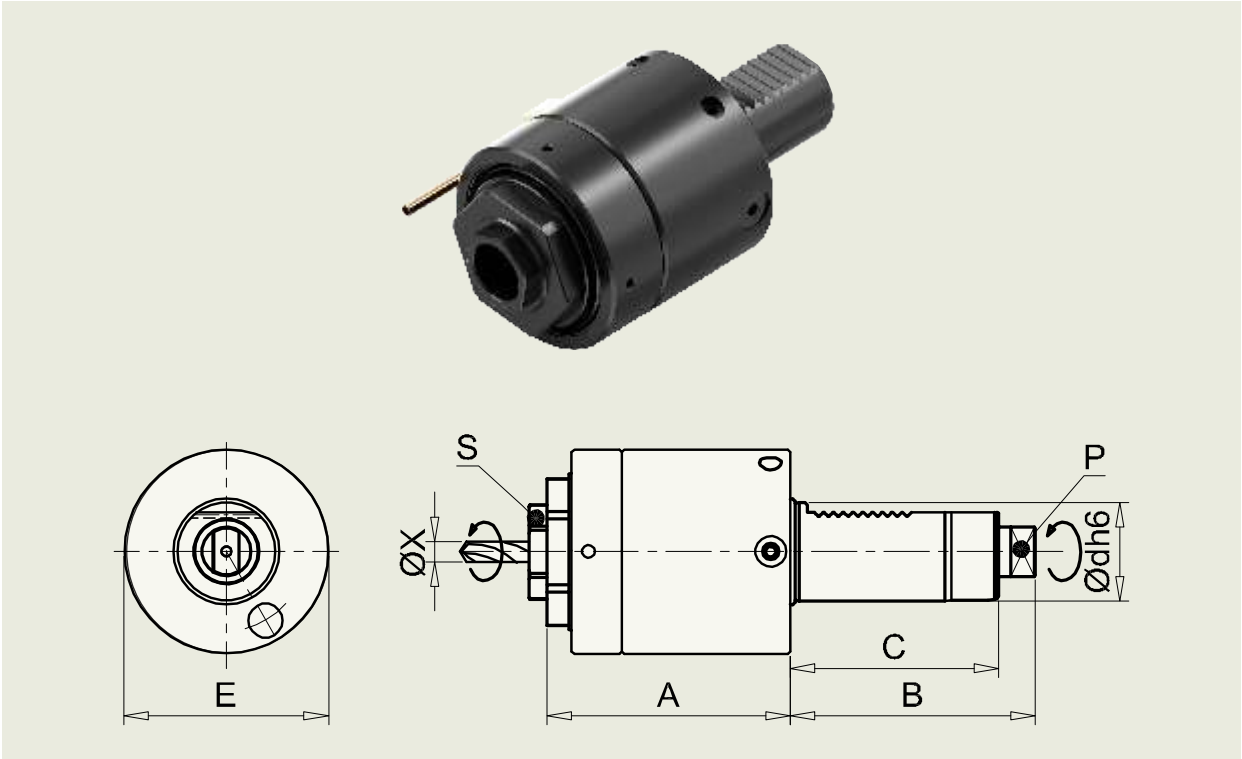
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6115	30	55	55	45	66	53	84.5	41.5	85	40	8	1-16	ER25	1:1	6000	40	B15X12-9b
SD6215	40	64	63	53	76	74	90	43	98	63	10	2-20	ER32	1:1	5000	70	B17X14-9b
SD6307	50	75	93	78	88	70	103	59	115	70	12	3-26	ER40	1:1	4000	100	B20X17-9b

RADIAL TOOL HEAD, DIRECT DRIVE, LEFT VERSION



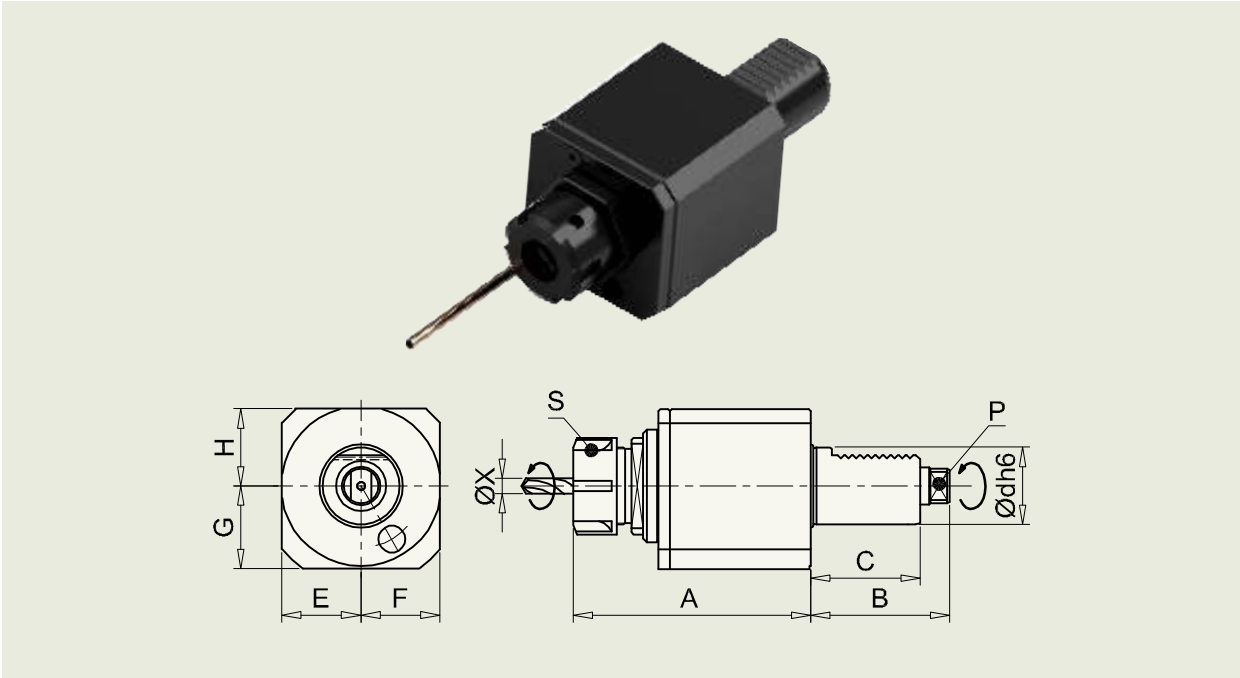
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6183	30	55	55	45	66	53	84.5	41.5	85	40	8	1-16	ER25	1:1	6000	40	B15X12-9b
SD6240	40	64	63	53	76	74	90	43	98	63	10	2-20	ER32	1:1	5000	70	B17X14-9b
SD6309	50	75	93	78	88	70	103	59	115	70	12	3-26	ER40	1:1	4000	100	B20X17-9b

AXIAL TOOL HEAD, ROUND, INT NUT



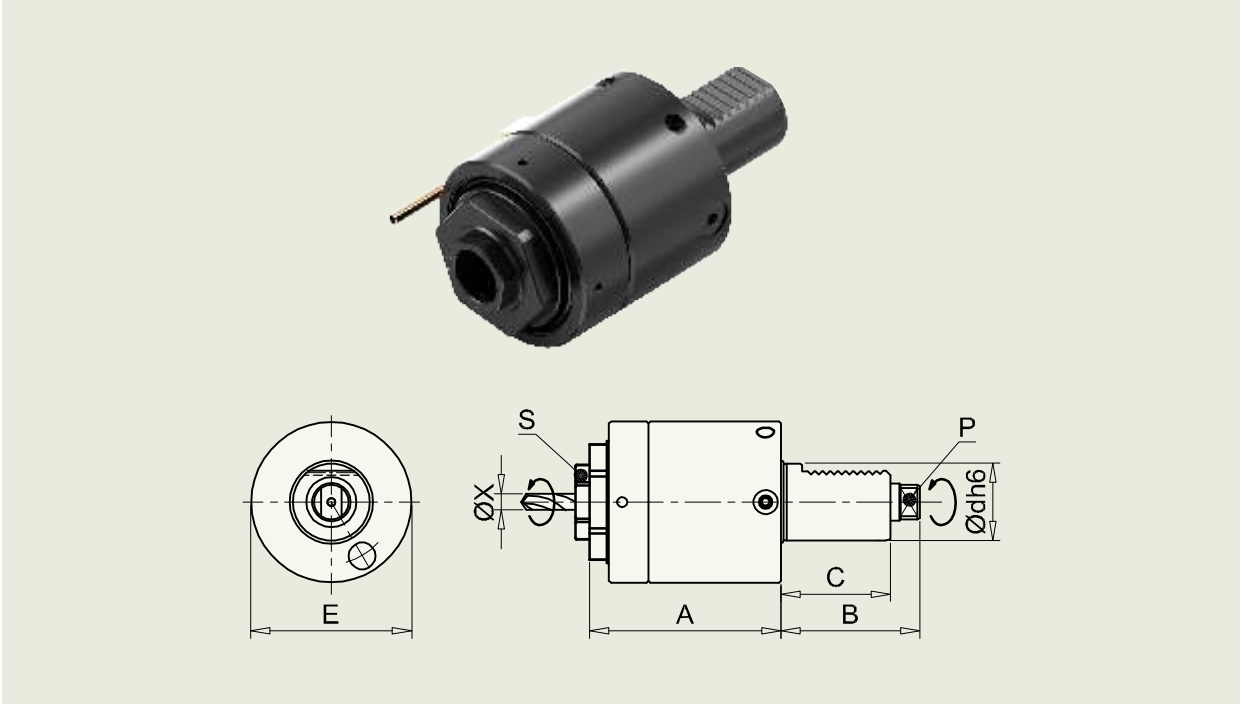
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6255	40	95	100	85	83	2-20	ER32	1:1	5000	40	Ø20X11X10

AXIAL TOOL HEAD, SQUARE



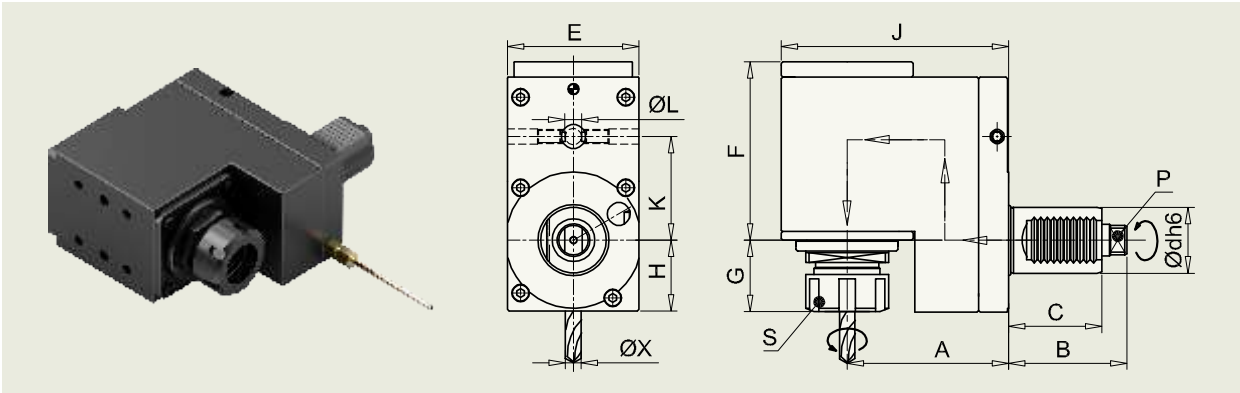
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6137	30	98.5	66.5	55	30	30	30	28	1-16	ER25	1:1	6000	40	Ø13.5X8X7
SD6242	40	123	92	53	41	41	43	40	2-20	ER32	1:1	5000	70	Ø17.4X10X8

AXIAL TOOL HEAD, ROUND, INT NUT



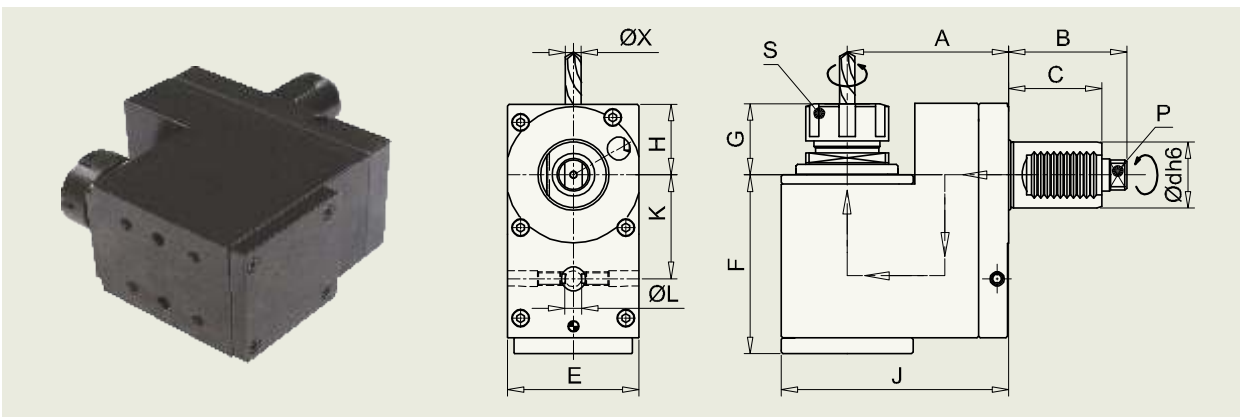
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6158	30	80	66.5	55	68	1-16	ER25	1:1	6000	40	Ø13.5X8X7

RADIAL TOOL HEAD, INDIRECT DRIVE, RIGHT VERSION



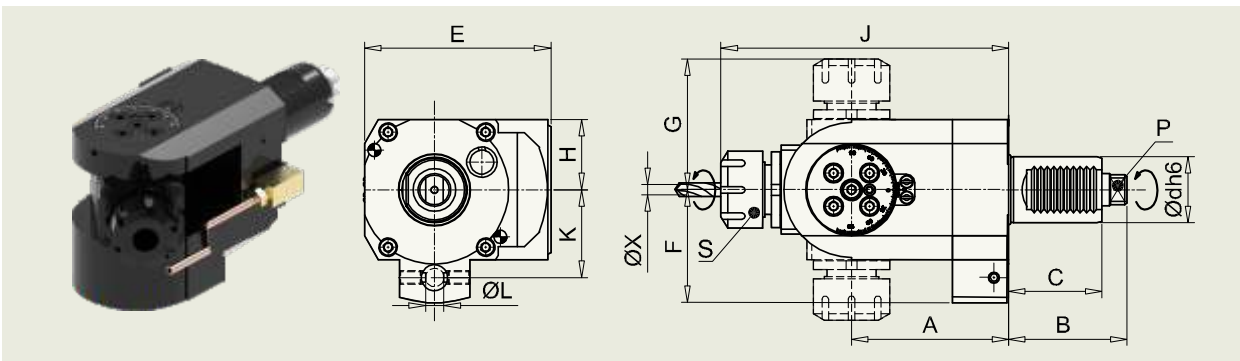
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6141	30	90	66.5	55	63	96.5	49	33	122	48	8	1-16	ER25	1:1	6000	40	Ø13.5X8X7

RADIAL TOOL HEAD, INDIRECT DRIVE, LEFT VERSION



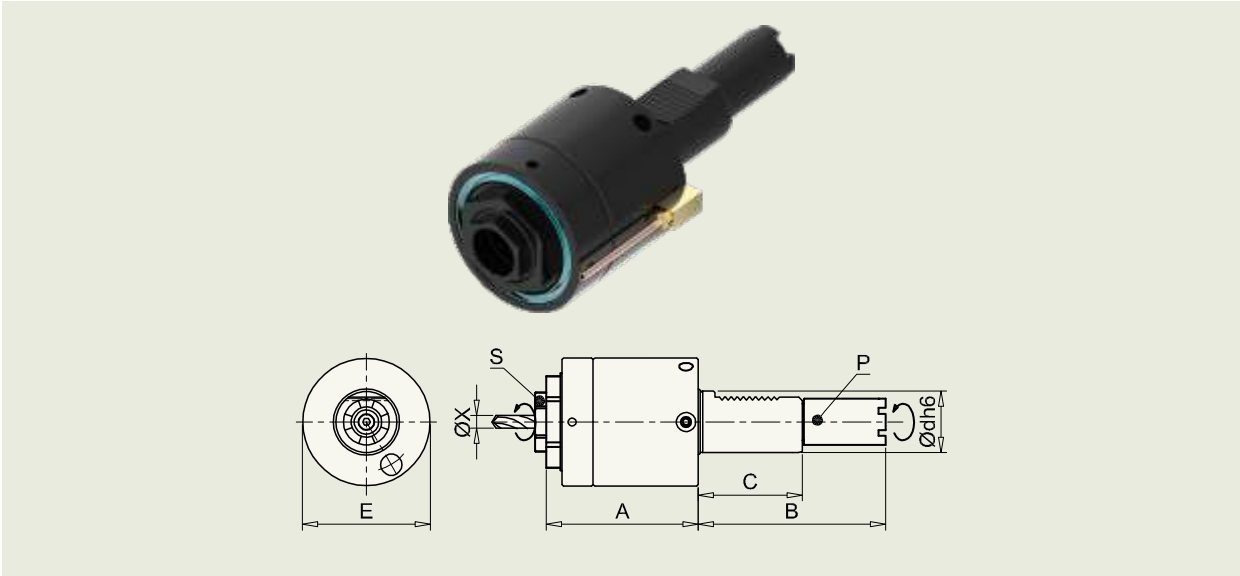
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6155	30	90	66.5	55	63	96.5	49	33	122	48	8	1-16	ER25	1:1	6000	40	Ø13.5X8X7

RADIAL TOOL HEAD, ANGULAR HEAD, LEFT VERSION



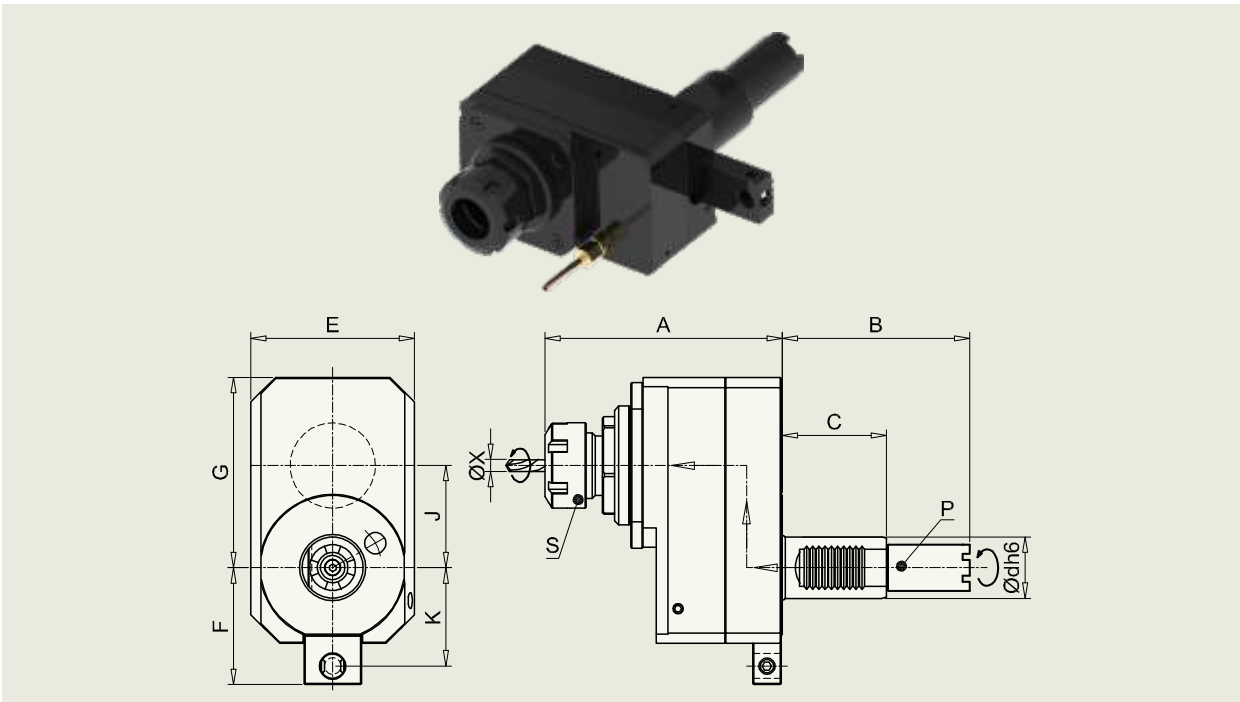
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6153	30	65.5	67	45	85	51.5	59.5	32	125	40	8	2-13	ER20	1:1	4000	25	Ø13.5X8X7
SD6602	40	71.5	72	56	103	71	70	38	141.5	63	10	1-16	ER25	1:1	8000	20	Ø17.4X10X8

AXIAL TOOL HEAD, ROUND, INT NUT



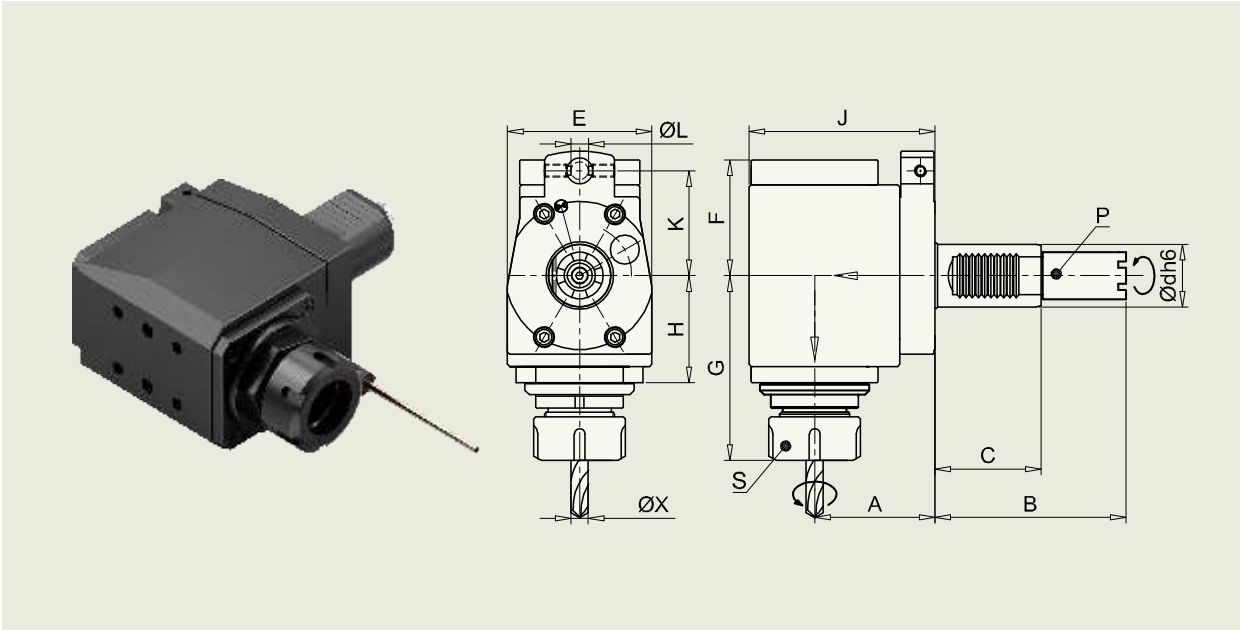
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6249	40	95	104.85	63	83	2-20	ER32	1:1	5000	50	SHORT
SD6244	40	95	117.55	63	83	2-20	ER32	1:1	5000	50	MEDIUM
SD6248	40	95	130.25	63	83	2-20	ER32	1:1	5000	50	LONG

AXIAL TOOL HEAD, OFFSET, LEFT VERSION



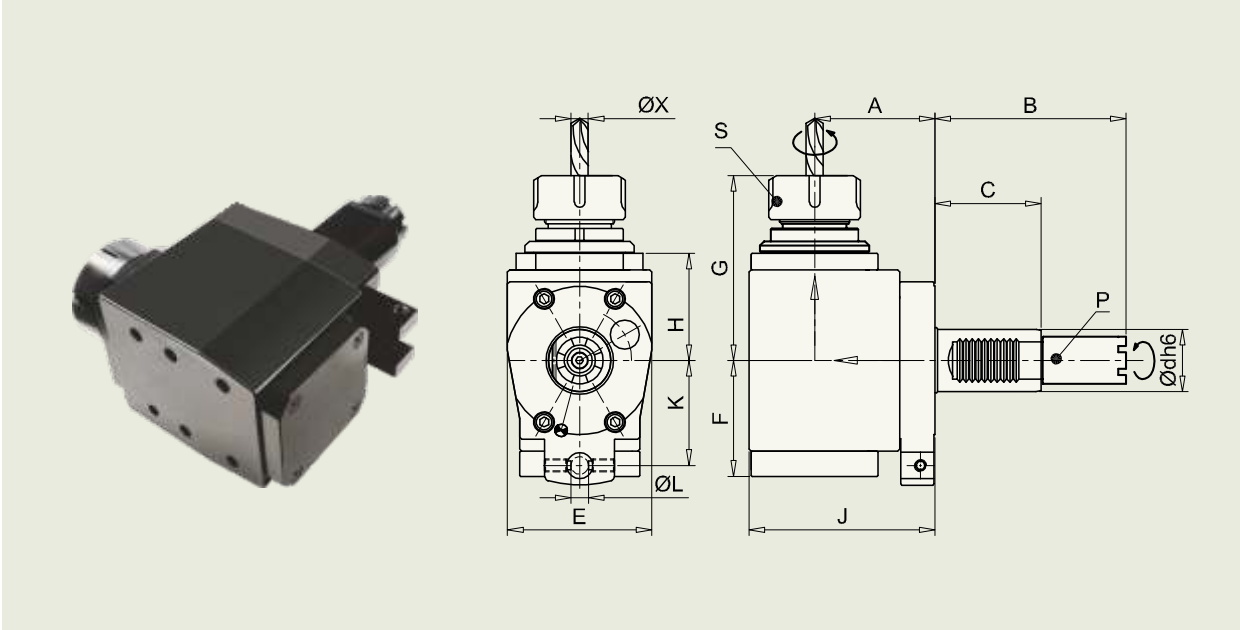
ARTICLE NO.	Ødh6	A	B	C	E	F	G	J	K	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6276	40	117	104.85	63	82	79	93	50	70	2-20	ER32	2:1	6000	40	SHORT
SD6266	40	117	117.55	63	82	79	93	50	70	2-20	ER32	2:1	6000	40	MEDIUM
SD6277	40	117	130.25	63	82	79	93	50	70	2-20	ER32	2:1	6000	40	LONG

RADIAL TOOL HEAD, DIRECT DRIVE, RIGHT VERSION



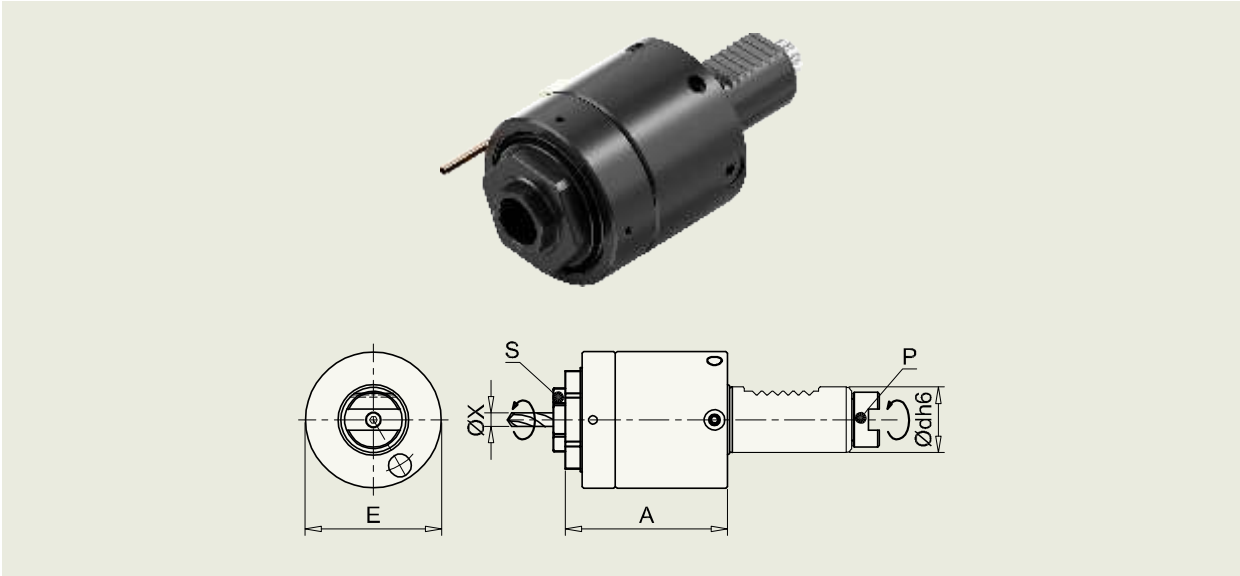
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6251	40	64	104.85	63	76	69	90	43	98	70	10	2-20	ER32	1:1	5000	40	SHORT
SD6245	40	64	117.55	63	76	69	90	43	98	70	10	2-20	ER32	1:1	5000	40	MEDIUM
SD6250	40	64	130.25	63	76	69	90	43	98	70	10	2-20	ER32	1:1	5000	40	LONG

RADIAL TOOL HEAD, DIRECT DRIVE, LEFT VERSION



ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6264	40	64	104.85	63	76	69	90	43	98	70	10	2-20	ER32	1:1	5000	40	SHORT
SD6262	40	64	117.55	63	76	69	90	43	98	70	10	2-20	ER32	1:1	5000	40	MEDIUM
SD6263	40	64	130.25	63	76	69	90	43	98	70	10	2-20	ER32	1:1	5000	40	LONG

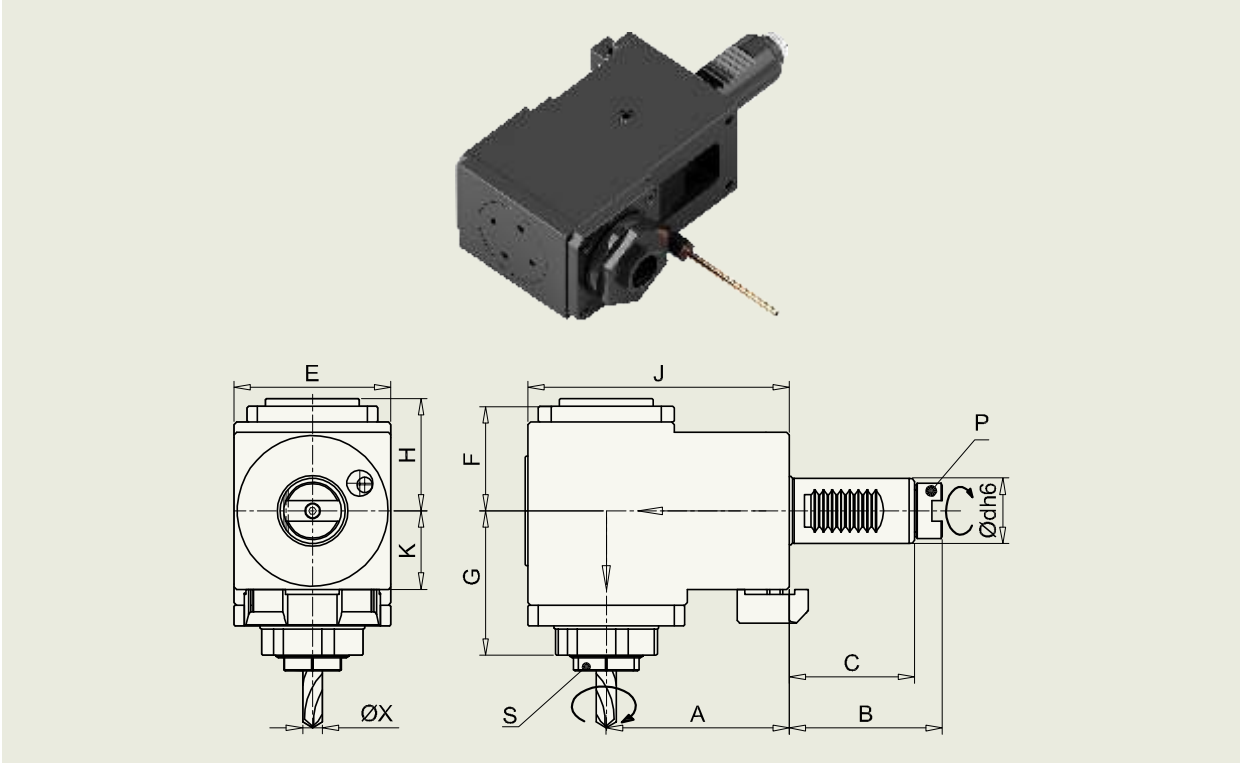
AXIAL TOOL HEAD, ROUND, INT NUT



ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6407	25	76	58.5	48	58	1-13	ER20	1:1	6000	25	Ø21X8X4

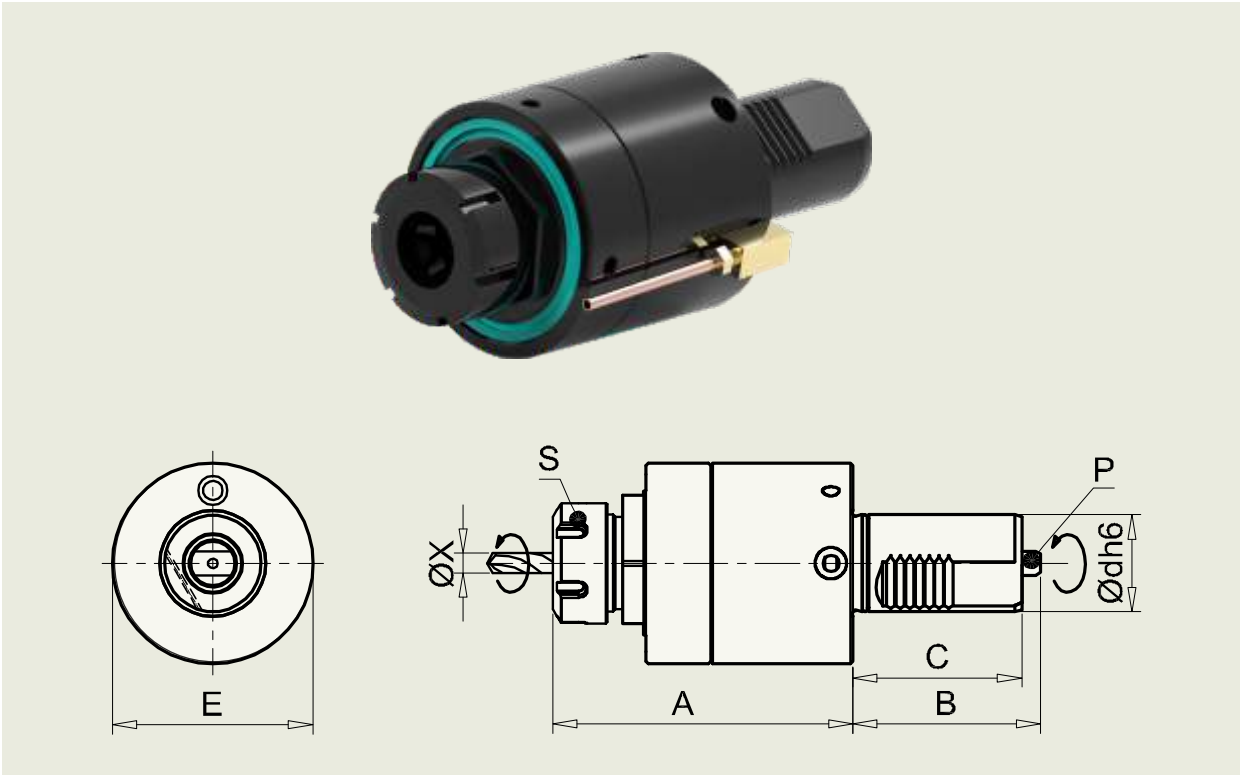
RADIAL TOOL HEAD, FOR RADIAL DISC

SINGLE END



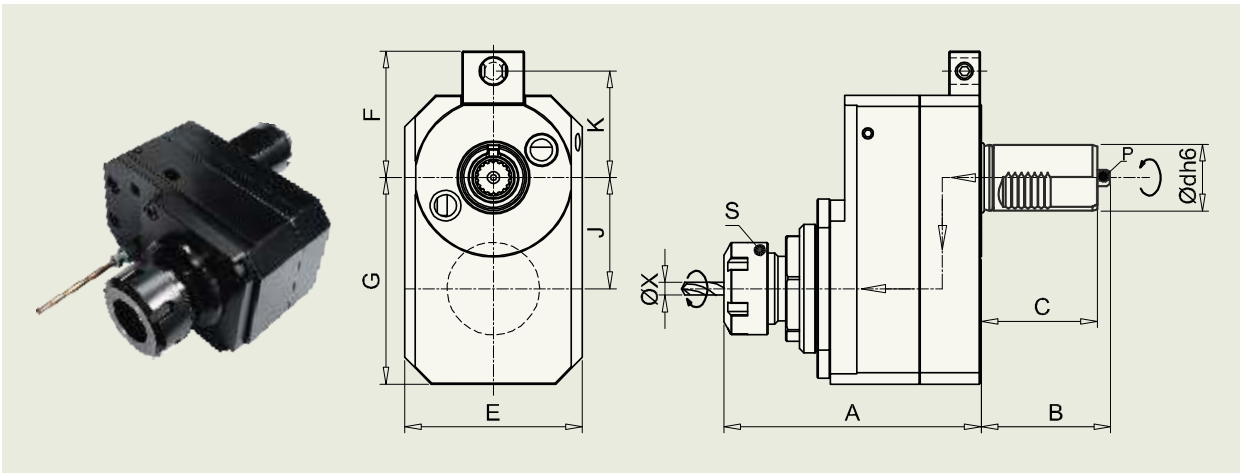
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6408	25	70	58.5	48	60	43	61.5	36	101	30	1-13	ER20	1:1	6000	25	Ø21X8X4

AXIAL TOOL HEAD, ROUND, EXT NUT



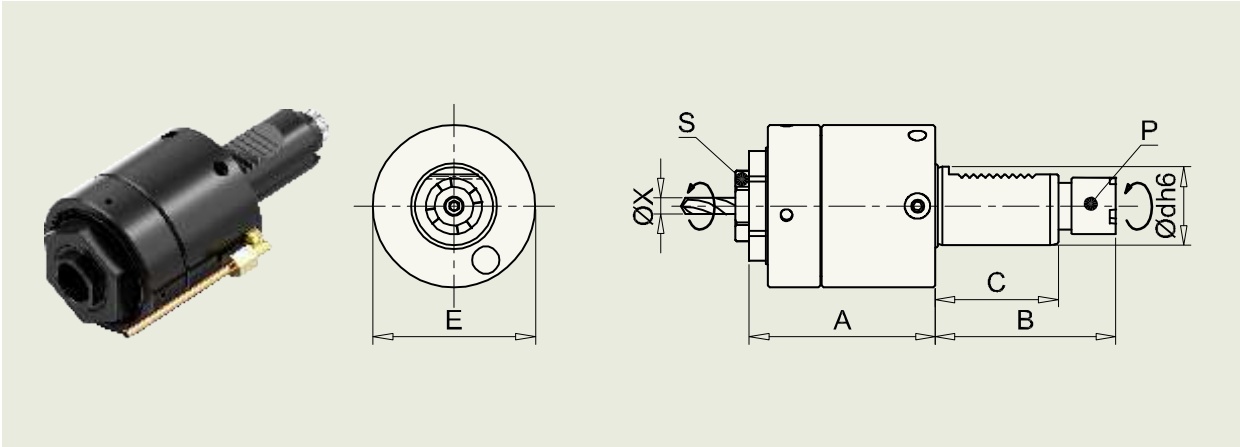
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6290	40	122	61	60	83	2-20	ER32	1:1	5000	70	Ø18X10X8
SD6289	40	122	78	70	83	2-20	ER32	1:1	5000	70	Ø18X10X8

AXIAL TOOL HEAD, OFFSET, RIGHT VERSION



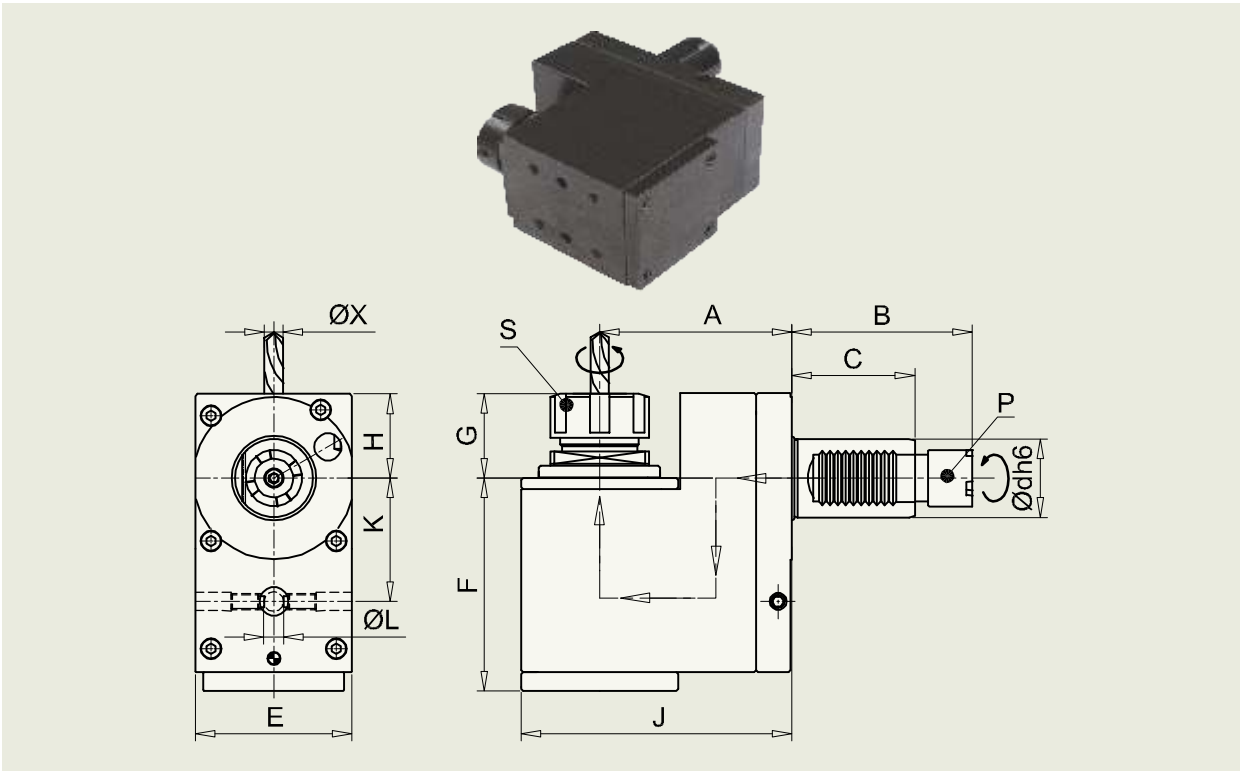
ARTICLE NO.	Ødh6	A	B	C	E	F	G	J	K	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6634	40	101	80	70	84	80	93	50	70	2-20	ER32	1:1	6000	63	Ø19.5X10X10

AXIAL TOOL HEAD, ROUND, INT NUT



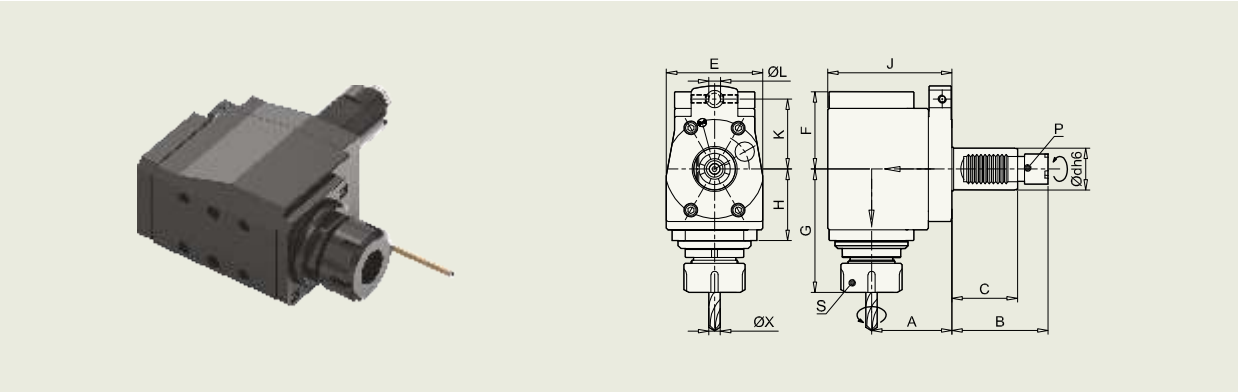
ARTICLE NO.	Ødh6	A	B	C	E	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6243	40	95	93	63	83	2-20	ER32	1:1	5000	50	LB300-M
SD6256	40	95	101	63	83	2-20	ER32	1:1	5000	50	LB400-M

RADIAL TOOL HEAD, INDIRECT DRIVE, LEFT VERSION



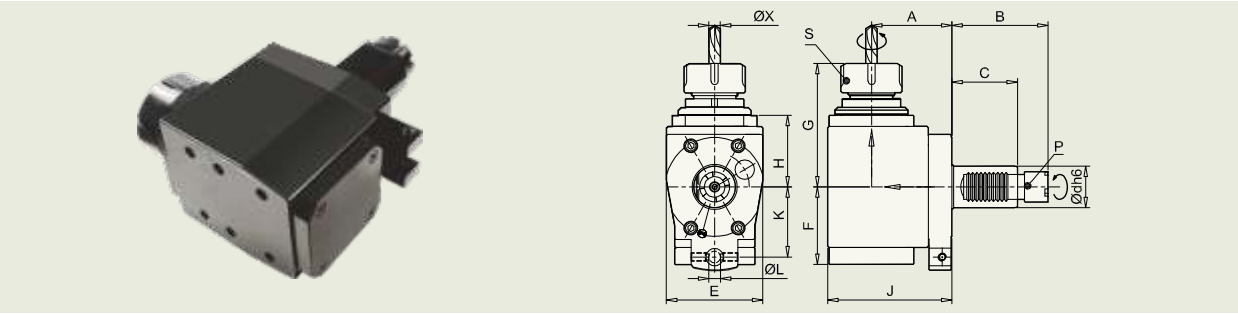
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6281	40	98	93	63	80	108.5	43	43	135	70	10	2-20	ER32	1:1	5000	70	LB300-M
SD6257	40	98	101	63	80	108.5	43	43	135	70	10	2-20	ER32	1:1	5000	70	LB400-M

RADIAL TOOL HEAD, DIRECT DRIVE, RIGHT VERSION



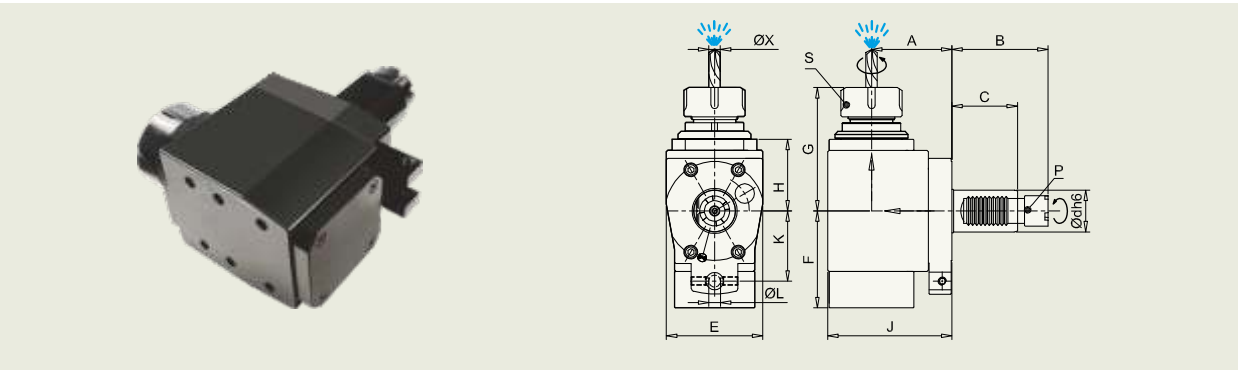
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6246	40	64	93	63	76	69	90	43	98	70	10	2-20	ER32	1:1	5000	70	LB300-M
SD6298	40	64	101	63	76	69	90	43	98	70	10	2-20	ER32	1:1	5000	70	LB400-M

RADIAL TOOL HEAD, DIRECT DRIVE, LEFT VERSION



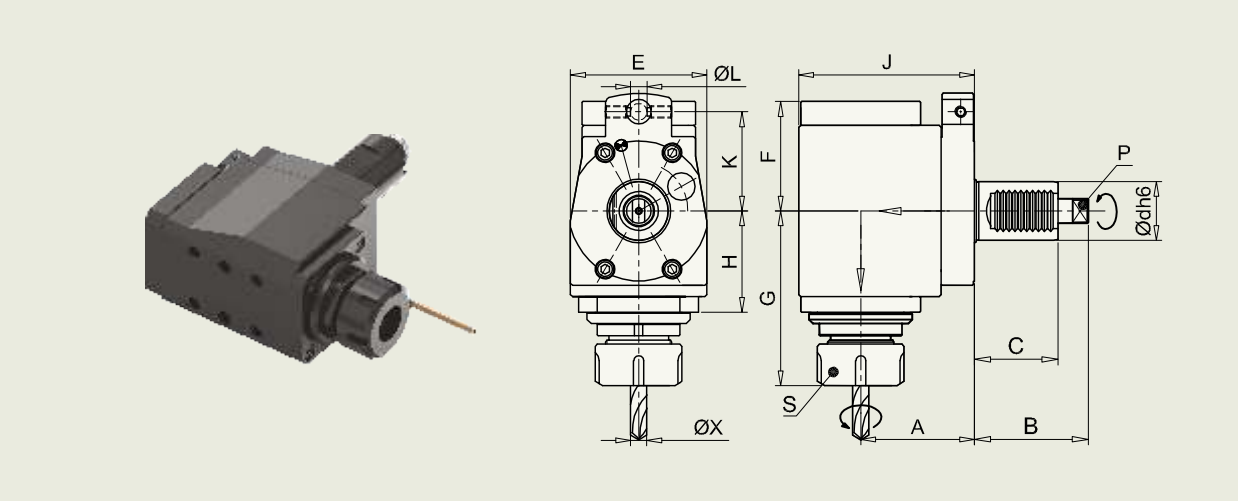
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6265	40	64	93	63	76	69	90	43	98	70	10	2-20	ER32	1:1	5000	70	LB300-M
SD6299	40	64	101	63	76	69	90	43	98	70	10	2-20	ER32	1:1	5000	70	LB400-M

RADIAL TOOL HEAD, DIRECT DRIVE,
LEFT VERSION, **THROUGH COOLANT**



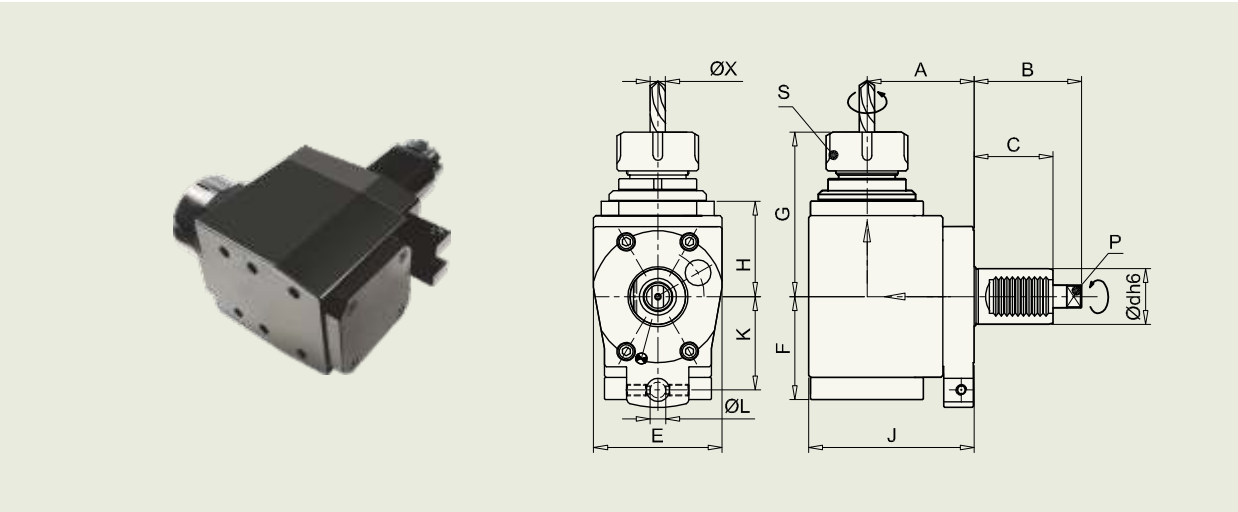
ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6285	40	64	93	63	76	80	90	43	98	70	10	2-20	ER32	1:1	5000	70	LB300-M
SD6601	40	64	101	63	76	80	90	43	98	70	10	2-20	ER32	1:1	5000	70	LB400-M

RADIAL TOOL HEAD, DIRECT DRIVE, RIGHT VERSION



ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6311	50	75	92	78	88	78	103	50.5	115	88	12	3-26	ER40	1:1	4000	100	Ø22X13X13

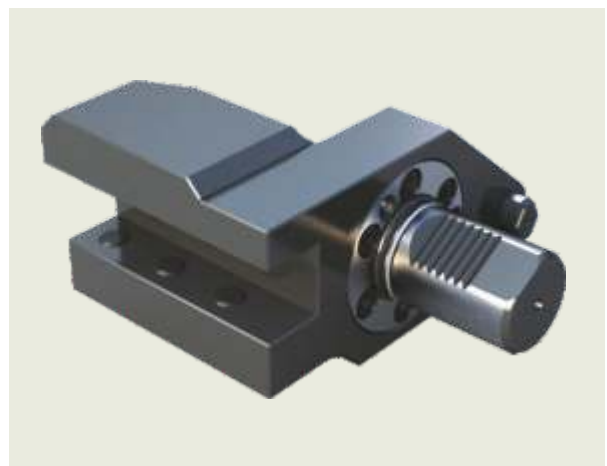
RADIAL TOOL HEAD, DIRECT DRIVE, LEFT VERSION



ARTICLE NO.	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX	S (DIN 6499)	i	N _{max} RPM	T Nm	P
SD6317	50	75	92	78	88	78	103	50.5	115	88	12	3-26	ER40	1:1	4000	100	Ø22X13X13

CUSTOMISED DRIVEN
TOOL HOLDER

- Apart from DIN1809, 5480 and 5482 we can make Driven Tool Holders for other types of drive end coupling.
- Customer needs to provide drive end coupling details.



SPHOORTI

Precision Assured

BMT TOOL DISCS & TOOL HOLDERS

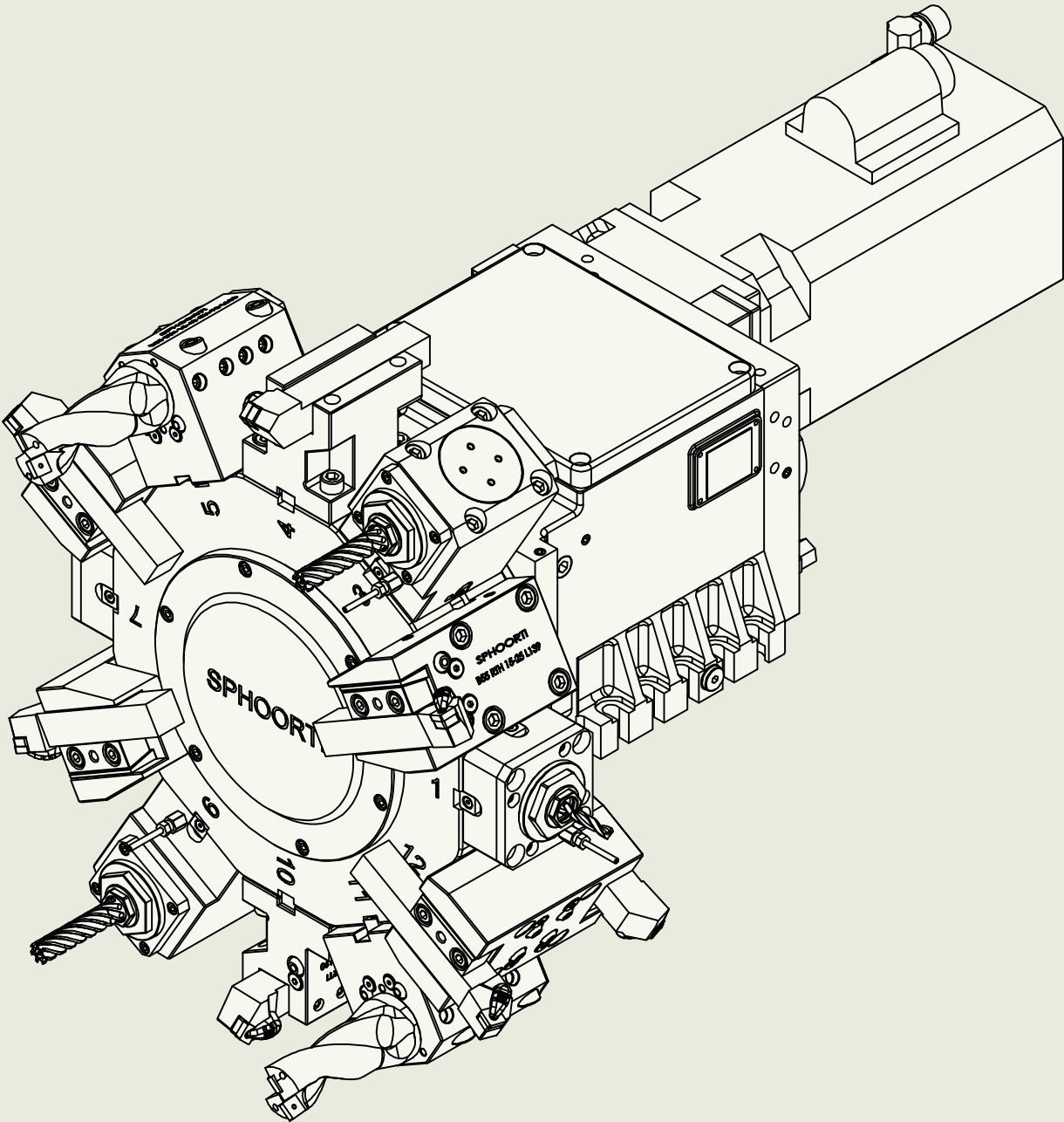
FOR CNC TURN MILL CENTER



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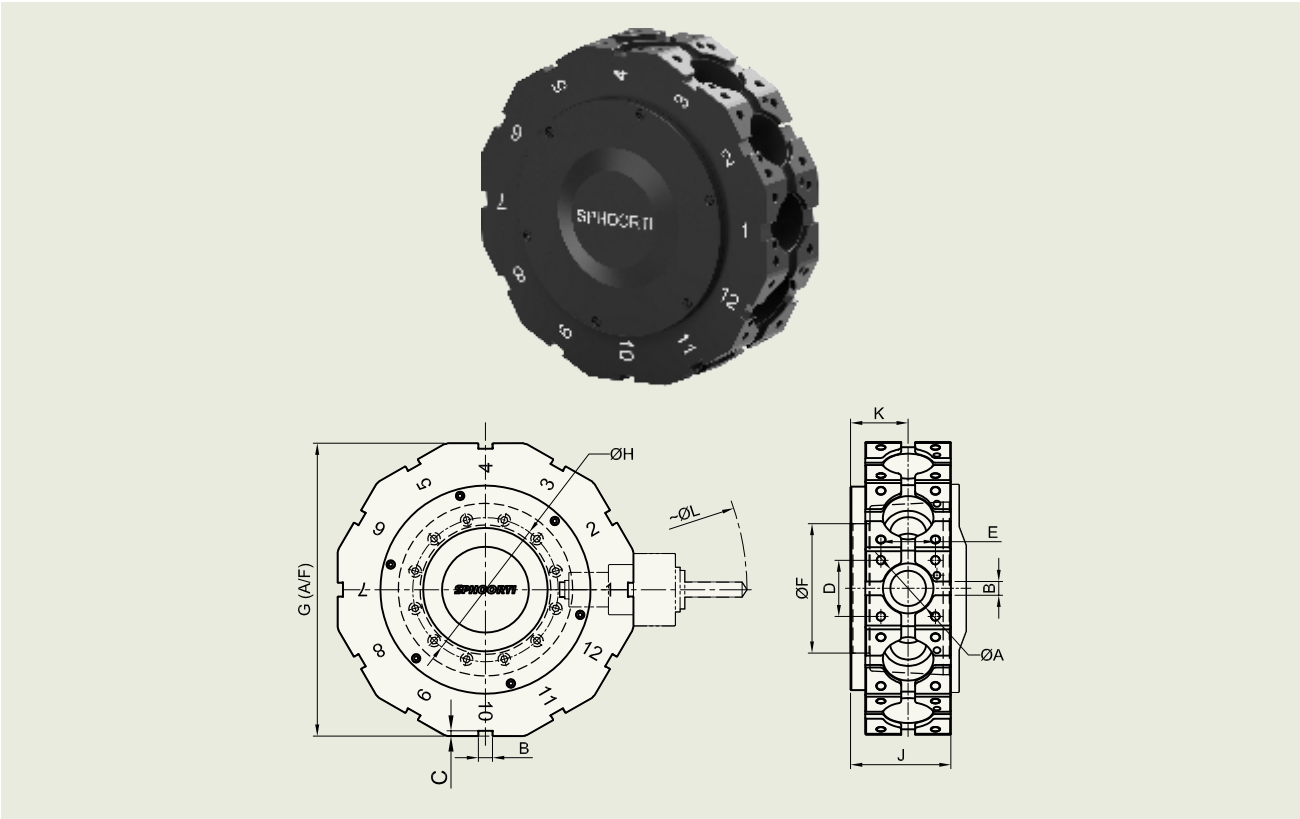
BMT Tool Holders Assembly with Turret



05

FEATURES:

- Available in 12 station as our standard.
- Made out of Forged,Medium Carbon Steel & Toughened to 20±2 HRC.
- Finish machining on High Precision Machining Centers to ensure accuracies.
- Suitable for fitment on BMT turrets.
- Customised design can be supplied upon request.

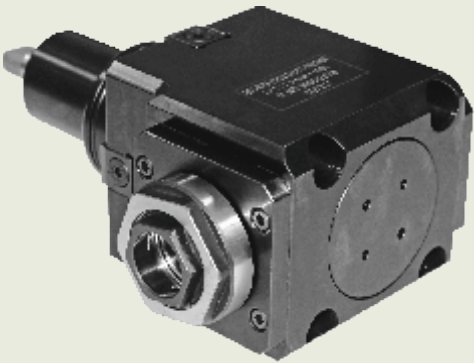


ITEM NAME	ARTICLE NO.	ØA	B	C	D	E	ØF	G (A/F)	ØH	J	K	ØL	TURRET TYPE
TD-B45-12-290-T95	SD47813	45	15	7	58	58	130	290	150	95	55	490	PRAGATI DMT80-12-45-290
TD-B45-12-290-T122	SD47814	45	15	7	58	58	130	290	150	122	82	490	PRAGATI DMT80-12-45-290-RM
TD-B55-12-330-T100	SD47812	55	15	7	64	64	130	330	150	100	55	610	PRAGATI DMT80-12-55-330
CTD-B55-12-330-T115.5	SD47804	55	15	7	64	64	180	330	145	115.5	55	610	DUPLOMATIC DM-TR-20
CTD-B55-12-320-T100	SD47823	55	15	7	64	64	136	320	150	100	35	600	BARUFFALDI TBMR 160
TD-B65-12-380-T129	SD47802	65	18	7	73	70	168	380	187	129	74	645	PRAGATI DMT100-12-65-380
CTD-B65-12-380-T127.5	SD47805	65	18	7	73	70	220	380	182	127.5	63	645	DUPLOMATIC DM-TR-25
CTD-B65-12-365-T110	SD47808	65	18	7	73	70	190	365	210	110	50	615	BARUFFALDI TBMR 250
CTD-B75-12-430-T125	SD50314	75	25	7	90	90	190	430	210	125	50	740	BARUFFALDI TBMR 250
CTD-B85-12-530-T197.5	SD50312	85	25	7	100	100	274.5	530	220	197.5	104	814	BARUFFALDI TBMR 320

* BMT Driven Tool Disc can be supplied as per customer drawing

COMPATIBLE WITH
MACHINE MANUFACTURER

- DOOSAN
 - DN SOLUTION
 - DMG MORI
 - HARDINGE
 - HWACHEON
 - HYUNDAI WIA
 - SAMSUNG
 - SMEC
 - SMART
 - VICTOR
- ACE DESIGNERS
 - BFW
 - GOODWAY
 - GEDEE WEILER
 - JYOTI CNC
 - LMW
 - SPINNER
 - HASS
 - HURCO
 - ROMI

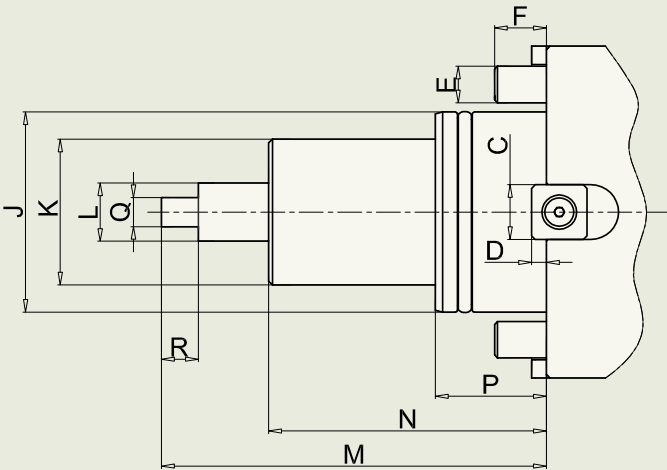
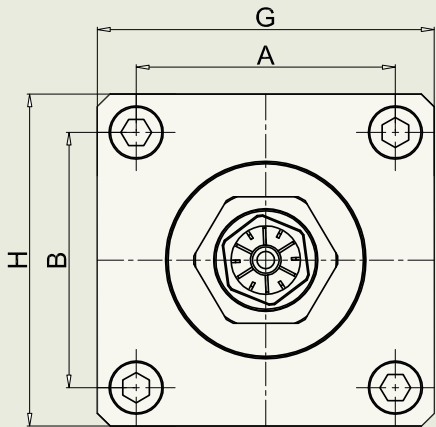


COMPATIBLE WITH TURRETS &
HOLDERS MANUFACTURER

- TURRET MAKE**

 - BARUFFALDI
 - DUPLOMATIC
 - EWS
 - PRAGATI
 - SAUTER
- TOOL HOLDER MAKE**

 - EPPINGER
 - EWS
 - HEIMATEC
 - WTO
 - BENZ
 - MT



ITEM NAME	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
BMT45	58	58	15	4	M8	10	75	75	45	35	14	84	60	40	6	8.5
BMT55	64	64	15	4	M10	14	85	85	55	40	16	104	75	30	8	8.5
BMT65	70	73	18	5	M12	15	94	94	65	45	18	112	83	32	10	14
BMT75	90	90	25	5	M12	15	112	112	75	55	23	110	80	43	14	15
BMT85	100	100	25	5	M12	18	125	125	85	65	33.5	140	100	43	16	20

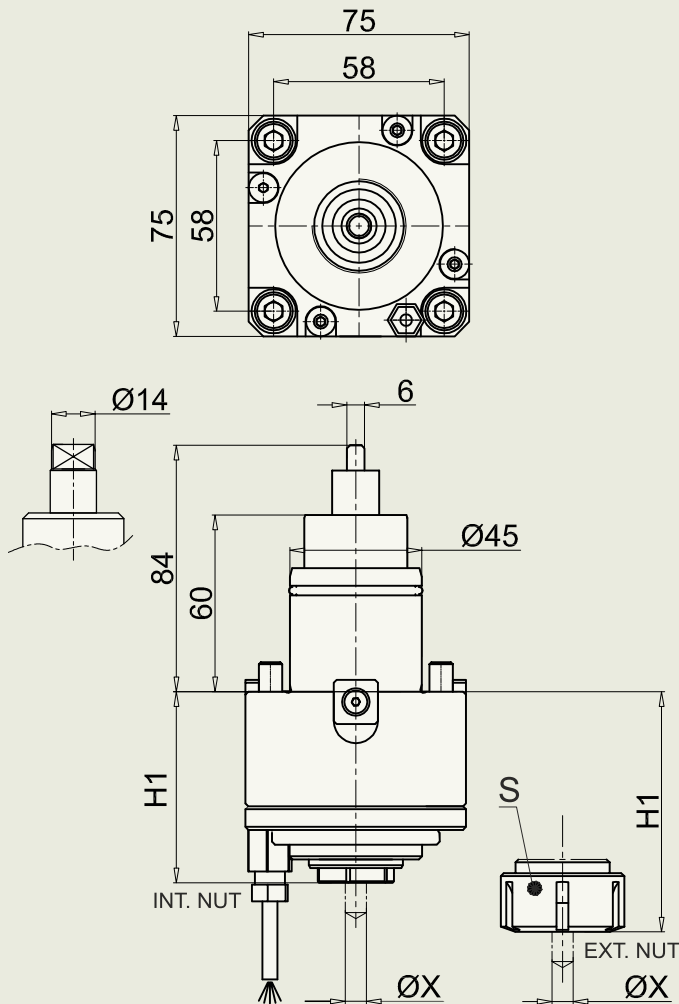
AXIAL TOOL HOLDERS - B45, EXTERNAL COOLANT



EXTERNAL NUT



INTERNAL NUT



EXTERNAL NUT								RATIO 1:1
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM	
B45-ATH ER25 EXT.NUT	SD7001	ER-25	Ø1-16	NO	56	40	8000	

INTERNAL NUT								RATIO 1:1
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM	
B45-ATH ER25 INT.NUT	SD7014	ER-25	Ø1-16	NO	65	40	6000	

* BMT Driven tool Holders can be supplied as per customer drawing

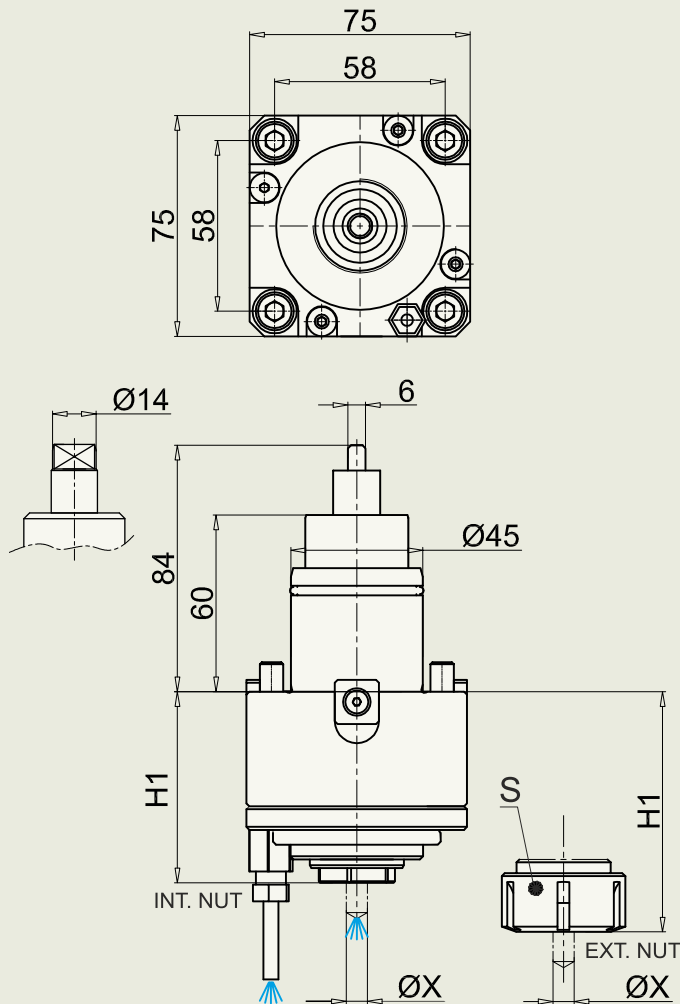
AXIAL TOOL HOLDERS - B45, INTERNAL / THROUGH COOLANT



EXTERNAL NUT



INTERNAL NUT

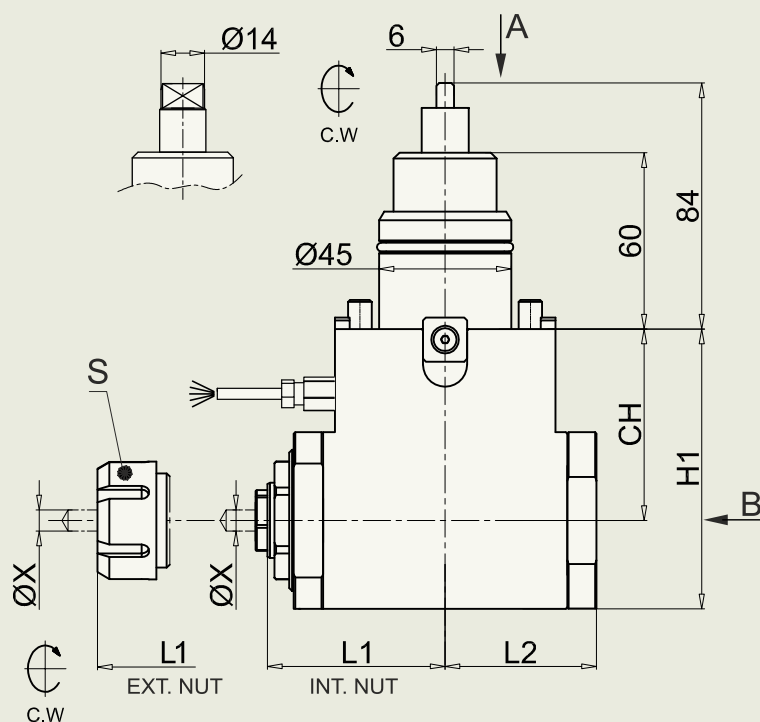


EXTERNAL NUT	INTERNAL/THROUGH COOLANT 70 BAR						RATIO 1:1	
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM	
B45-ATH ER25 EXT.NUT -TC	SD7049	ER-25	Ø1-16	YES	64	40	8000	

INTERNAL NUT	INTERNAL/THROUGH COOLANT 70 BAR						RATIO 1:1	
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM	
B45-ATH ER25 INT.NUT-TC	SD7006	ER-25	Ø1-16	YES	60	40	6000	

* BMT Driven tool Holders can be supplied as per customer drawing

Technical drawing of the front view of a square flange. The drawing shows a square flange with a central hole, four corner holes, and a mounting bracket on the left. Dimensions are indicated: overall width 75, mounting bracket width 58, overall height 75, and mounting bracket height 58.



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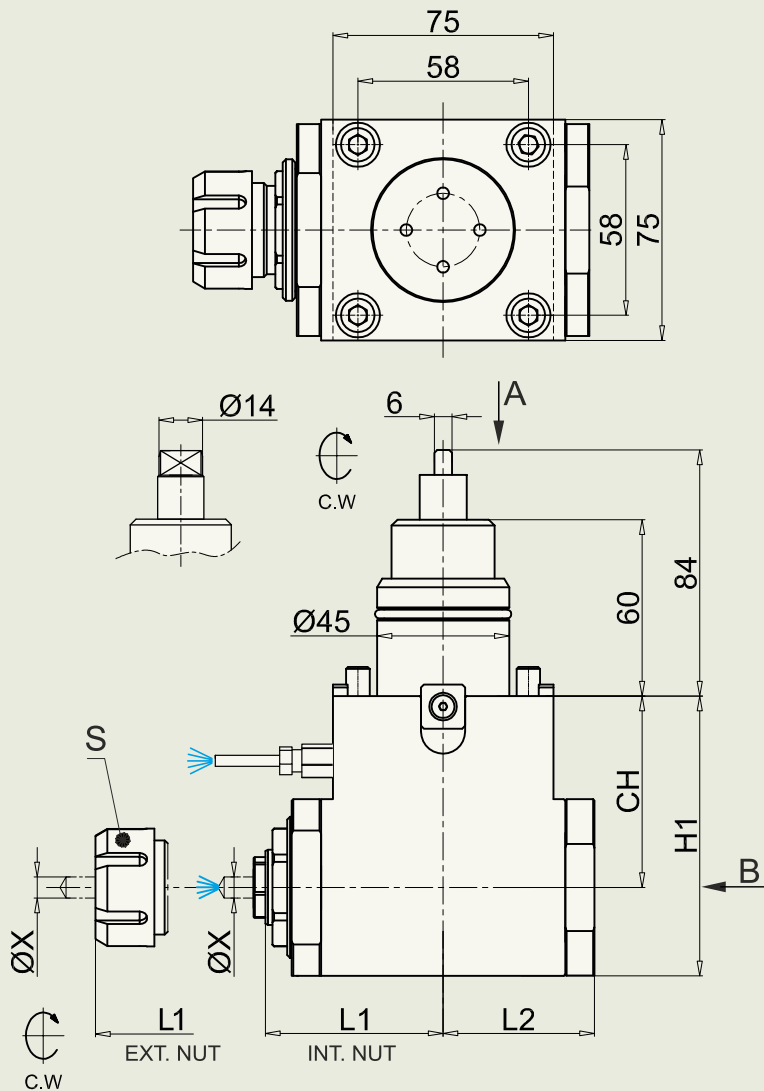
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	CH	H1	L1	L2	T Nm	N max RPM
B45-RTH ER20 CH-65 INT.NUT	SD7008	ER-20	Ø1-13	NO	65	95	65	51.5	25	8000

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RADIAL TOOL HOLDERS - B45, INTERNAL/THROUGH COOLANT



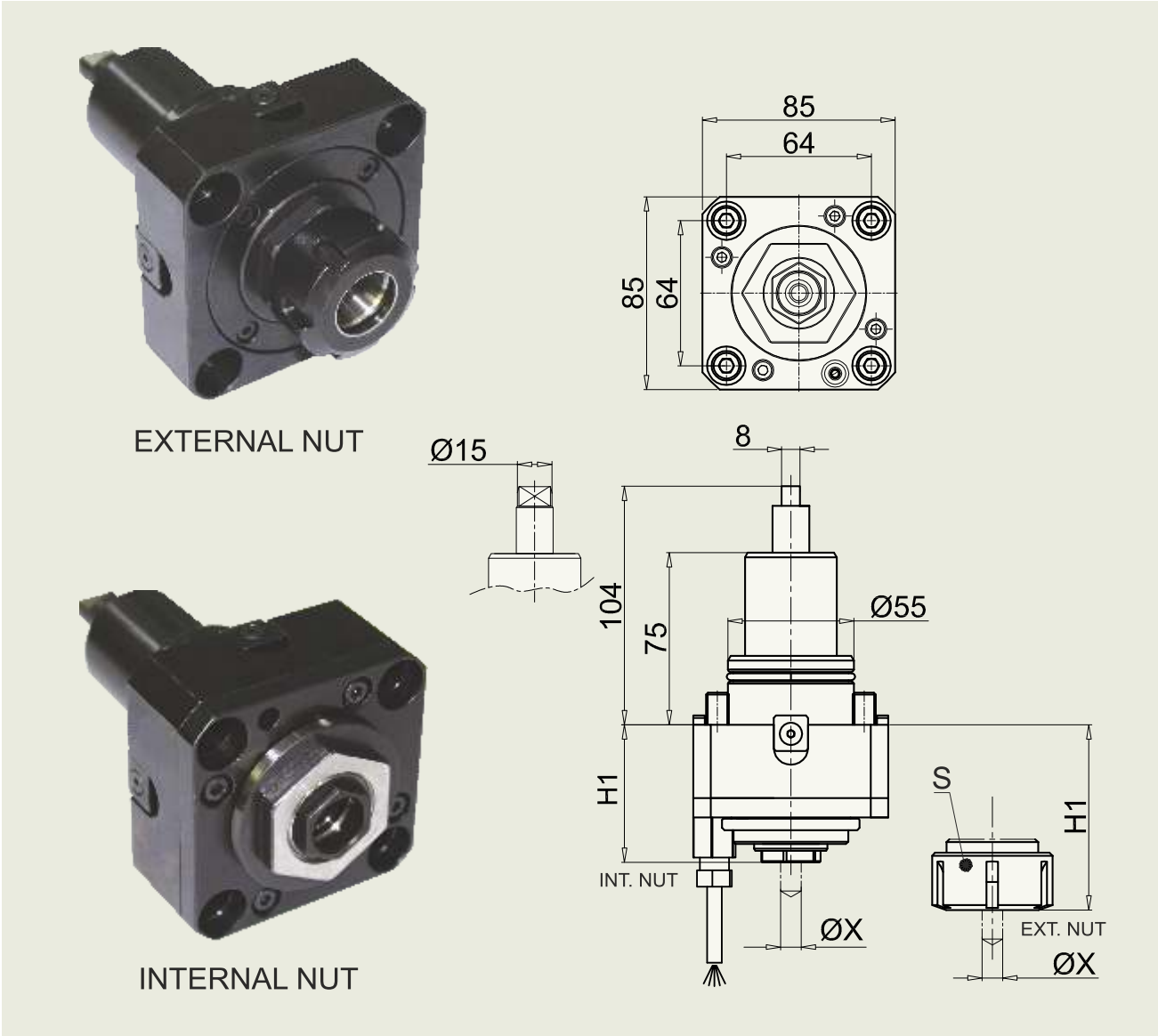
EXTERNAL NUT



View A - Tool rotation clockwise viewing from this direction
View B - Tool rotation clockwise viewing from this direction

EXTERNAL NUT		INTERNAL/THROUGH COOLANT 100 BAR							RATIO 1:1	
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	CH	H1	L1	L2	T Nm	N max RPM
B45-RTH ER25 CH-65 EXT.NUT-TC	SD7033	ER-25	Ø1-16	YES	65	95	85	71	40	8000

AXIAL TOOL HOLDERS - B55, EXTERNAL COOLANT

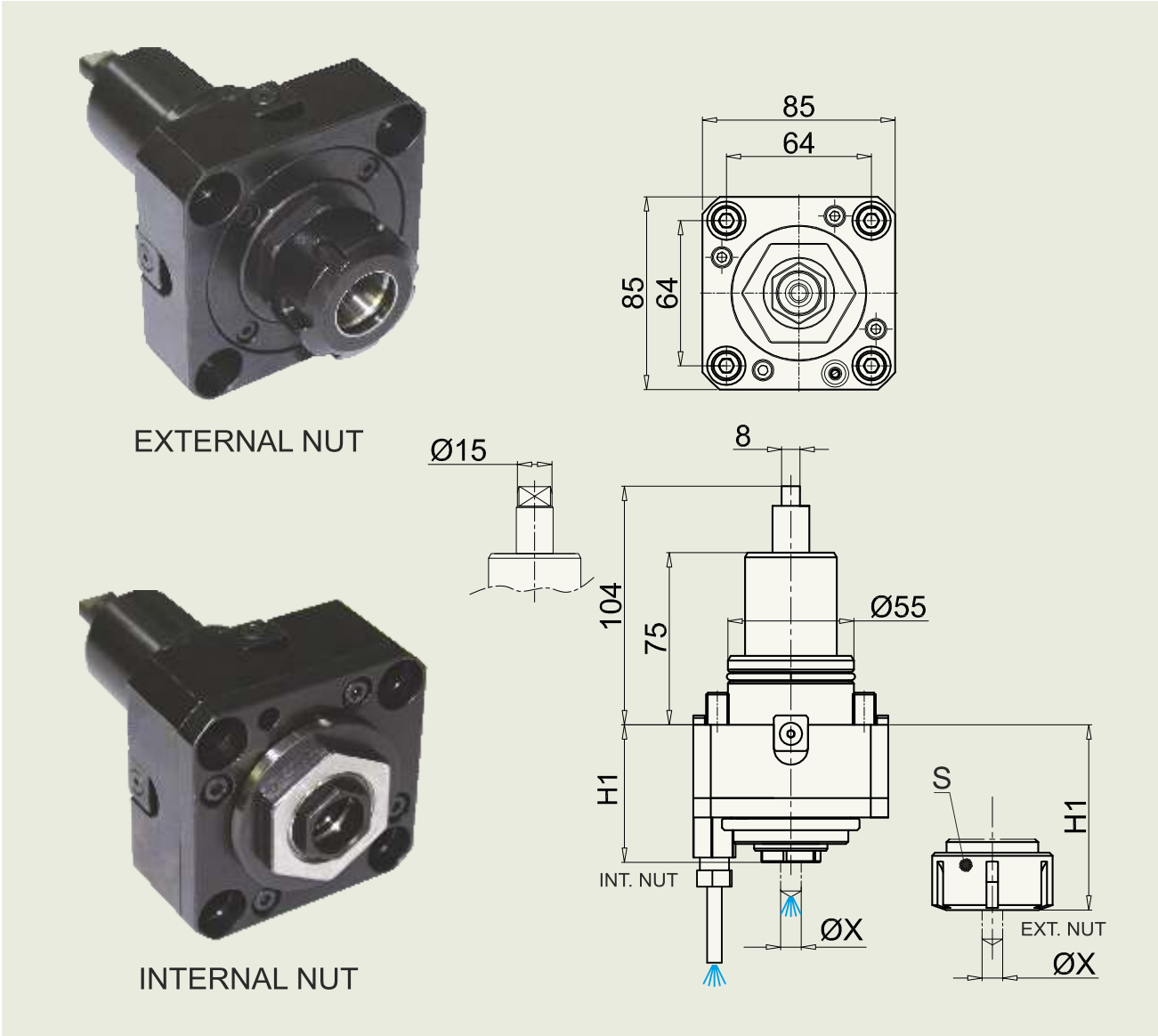


EXTERNAL NUT				RATIO 1:1			
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM
B55-ATH ER25 EXT.NUT	SD7136	ER-25	Ø1-16	NO	61	40	8000
B55-ATH ER32 EXT.NUT	SD7137	ER-32	Ø2-20	NO	62	70	8000

INTERNAL NUT				RATIO 1:1			
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM
B55-ATH ER25 INT.NUT	SD7116	ER-25	Ø1-16	NO	60	40	6000
B55-ATH ER32 INT.NUT	SD7114	ER-32	Ø2-20	NO	77	70	6000

* BMT Driven tool Holders can be supplied as per customer drawing

AXIAL TOOL HOLDERS - B55, INTERNAL/THROUGH COOLANT



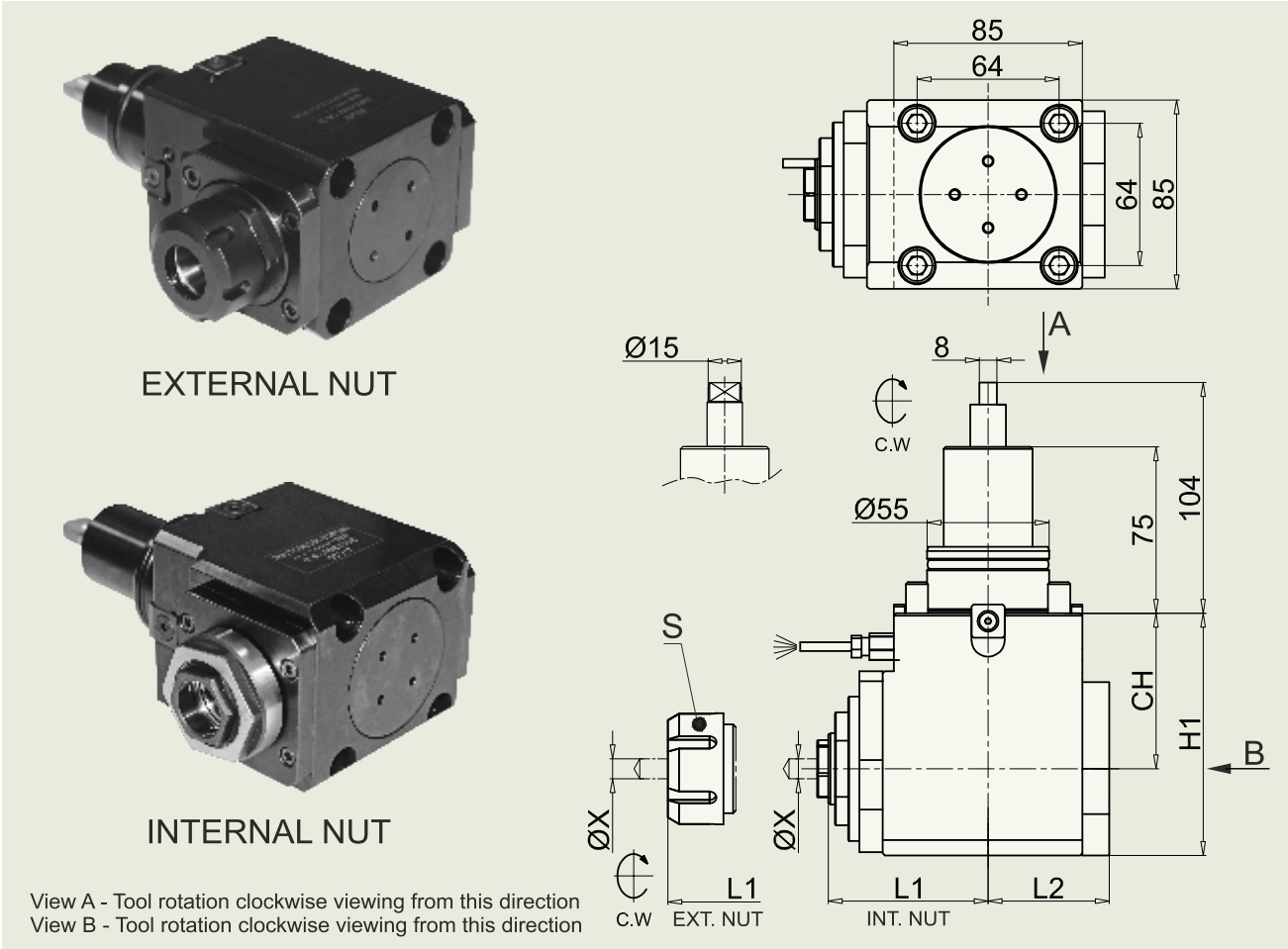
EXTERNAL NUT	INTERNAL/THROUGH COOLANT 70 BAR					RATIO 1:1	
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ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM
B55-ATH ER25 EXT.NUT-TC	SD7181	ER-25	Ø1-16	YES	81	40	8000

INTERNAL NUT	INTERNAL/THROUGH COOLANT 70 BAR					RATIO 1:1	
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ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM
B55-ATH ER25 INT.NUT-TC	SD7169	ER-25	Ø1-16	YES	62	40	6000

RADIAL TOOL HOLDERS - B55, EXTERNAL COOLANT



EXTERNAL NUT		RATIO 1:1
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ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	CH	H1	L1	L2	T Nm	N max RPM
B55-RTH ER25 CH-60 EXT.NUT	SD7109	ER-25	Ø1-16	NO	60	94	100	52.5	40	6000
B55-RTH ER25 CH-70 EXT.NUT	SD7132	ER-25	Ø1-16	NO	70	104	100	52.5	40	6000
B55-RTH ER32 CH-70 EXT.NUT	SD7133	ER-32	Ø2-20	NO	70	104	101	52.5	70	6000
B55-RTH ER25 CH-85 EXT.NUT	SD7134	ER-25	Ø1-16	NO	85	119	100	52.5	40	6000
B55-RTH ER32 CH-85 EXT.NUT	SD7135	ER-32	Ø2-20	NO	85	119	101	52.5	70	6000

INTERNAL NUT		RATIO 1:1
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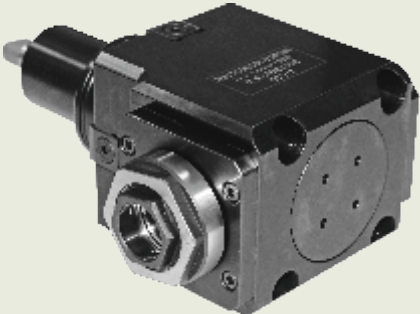
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	CH	H1	L1	L2	T Nm	N max RPM
B55-RTH ER25 CH-60 INT.NUT	SD7111	ER-25	Ø1-16	NO	60	94	76	52.5	40	6000
B55-RTH ER25 CH-70 INT.NUT	SD7108	ER-25	Ø1-16	NO	70	104	76	52.5	40	6000
B55-RTH ER32 CH-70 INT.NUT	SD7129	ER-32	Ø2-20	NO	70	104	78	52.5	70	6000
B55-RTH ER25 CH-85 INT.NUT	SD7130	ER-25	Ø1-16	NO	85	119	76	52.5	40	6000
B55-RTH ER32 CH-85 INT.NUT	SD7131	ER-32	Ø2-20	NO	85	119	78	52.5	70	6000

* BMT Driven tool Holders can be supplied as per customer drawing

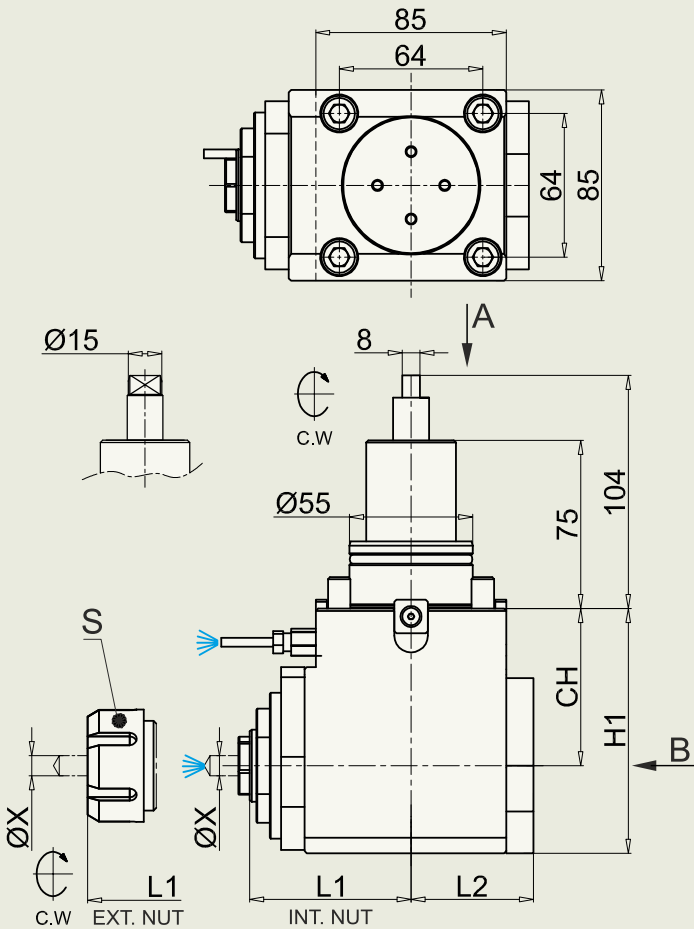
RADIAL TOOL HOLDERS - B55, INTERNAL/THROUGH COOLANT



EXTERNAL NUT



INTERNAL NUT



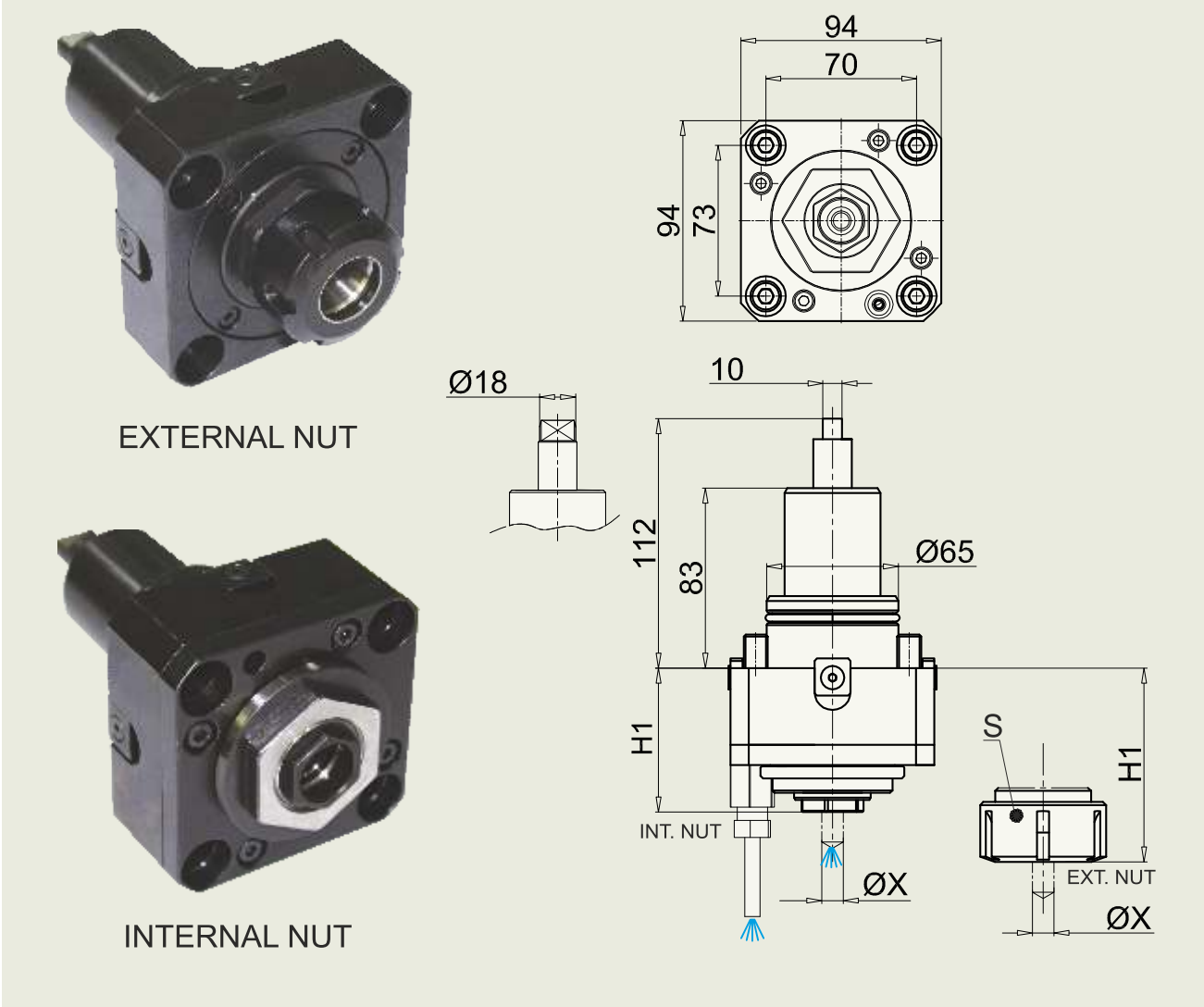
View A - Tool rotation clockwise viewing from this direction
View B - Tool rotation clockwise viewing from this direction

EXTERNAL NUT	INTERNAL/THROUGH COOLANT 100 BAR								RATIO 1:1	
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	CH	H1	L1	L2	T Nm	N max RPM
B55-RTH ER25 CH-85 EXT.NUT-TC	SD7168	ER-25	Ø1-16	YES	85	119	100	72	40	6000
B55-RTH ER32 CH-85 INT.NUT-TC	SD7146	ER-32	Ø2-20	YES	85	119	101	72	70	6000

INTERNAL NUT	INTERNAL/THROUGH COOLANT 100 BAR								RATIO 1:1	
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	CH	H1	L1	L2	T Nm	N max RPM
B55-RTH ER25 CH-70 INT.NUT-TC	SD7166	ER-25	Ø1-16	YES	70	104	83	72	40	6000
B55-RTH ER32 CH-70 INT.NUT-TC	SD7170	ER-32	Ø2-20	YES	70	104	86	72	70	6000

* BMT Driven tool Holders can be supplied as per customer drawing

AXIAL TOOL HOLDERS - B65, INTERNAL/THROUGH COOLANT



EXTERNAL NUT	INTERNAL/THROUGH COOLANT 70 BAR	RATIO 1:1
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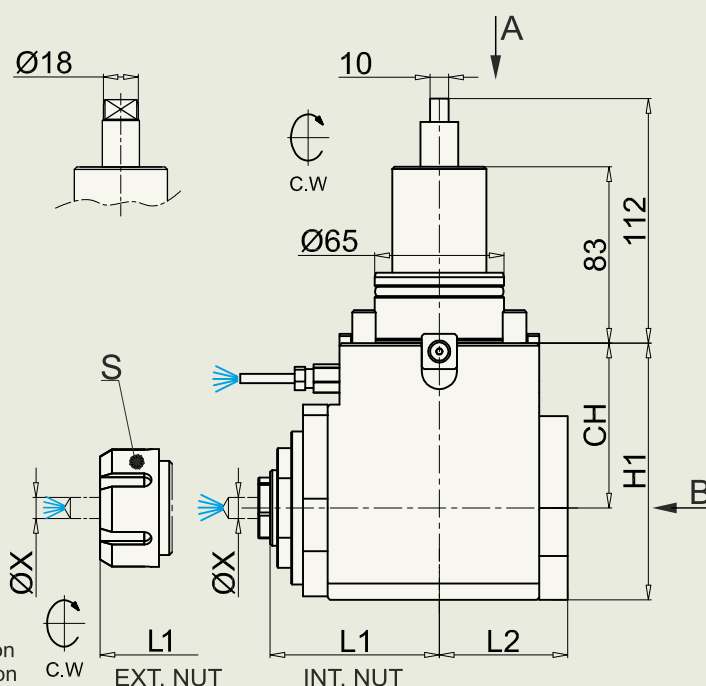
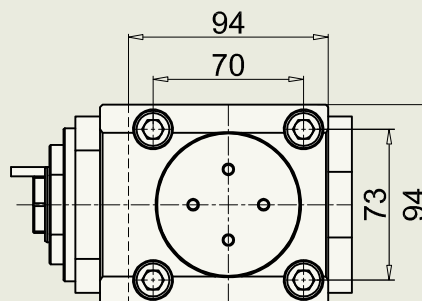
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM
B65-ATH ER32 EXT.NUT	SD7223	ER-32	Ø2-20	NO	66	70	6000
B65-ATH ER40 EXT.NUT-TC	SD7243	ER-40	Ø3-26	YES	77	100	6000

INTERNAL NUT	INTERNAL/THROUGH COOLANT 70 BAR	RATIO 1:1
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ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM
B65-ATH ER32 INT.NUT	SD7204	ER-32	Ø2-20	NO	66	70	5300
B65-ATH ER32 INT.NUT-TC	SD7247	ER-32	Ø2-20	YES	64	70	6000

* BMT Driven tool Holders can be supplied as per customer drawing

05



View A - Tool rotation clockwise viewing from this direction
View B - Tool rotation clockwise viewing from this direction

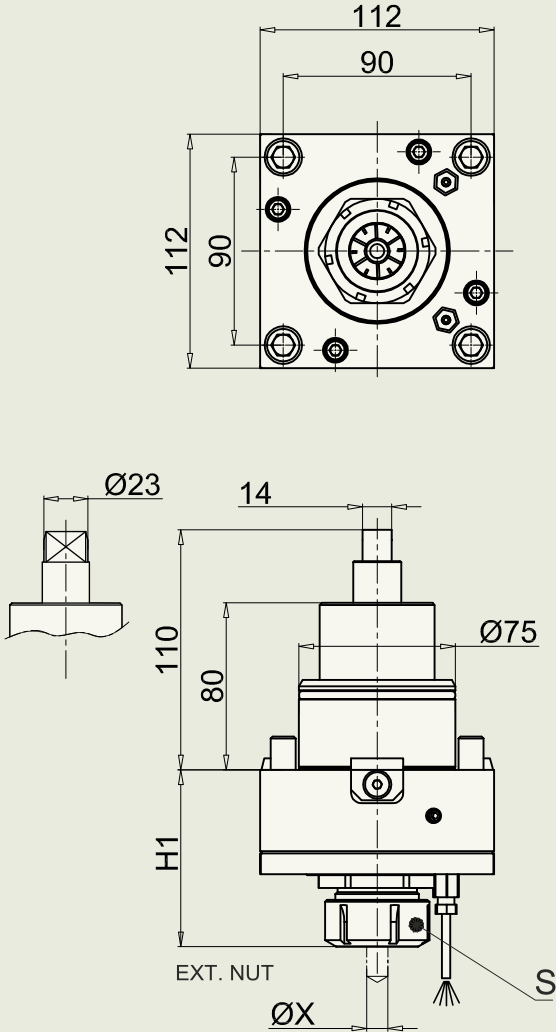
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	CH	H1	L1	L2	T Nm	N max RPM
B65-RTH ER32 CH-72 INT.NUT	SD7217	ER-32	Ø2-20	NO	72	110	83.5	59	70	6000
B65-RTH ER32 CH-72 INT.NUT-TC	SD7252	ER-32	Ø2-20	YES	72	110	83.5	79	70	6000
B65-RTH ER32 CH-100 INT.NUT	SD7215	ER-32	Ø2-20	NO	100	138	83.5	59	70	6000
B65-RTH ER32 CH-100 INT.NUT-TC	SD7248	ER-32	Ø2-20	YES	100	138	83.5	79	70	6000

Technical Information

AXIAL TOOL HOLDERS - B75



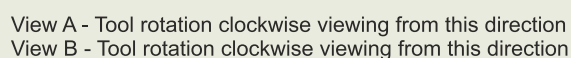
EXTERNAL NUT



EXTERNAL NUT				RATIO 1:1			
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM
B75-ATH ER32 EXT.NUT	SD7301	ER-32	Ø2-20	NO	85	70	4000
B75-ATH ER40 EXT.NUT	SD7303	ER-40	Ø3-26	NO	90	100	4000

* BMT Driven tool Holders can be supplied as per customer drawing

05



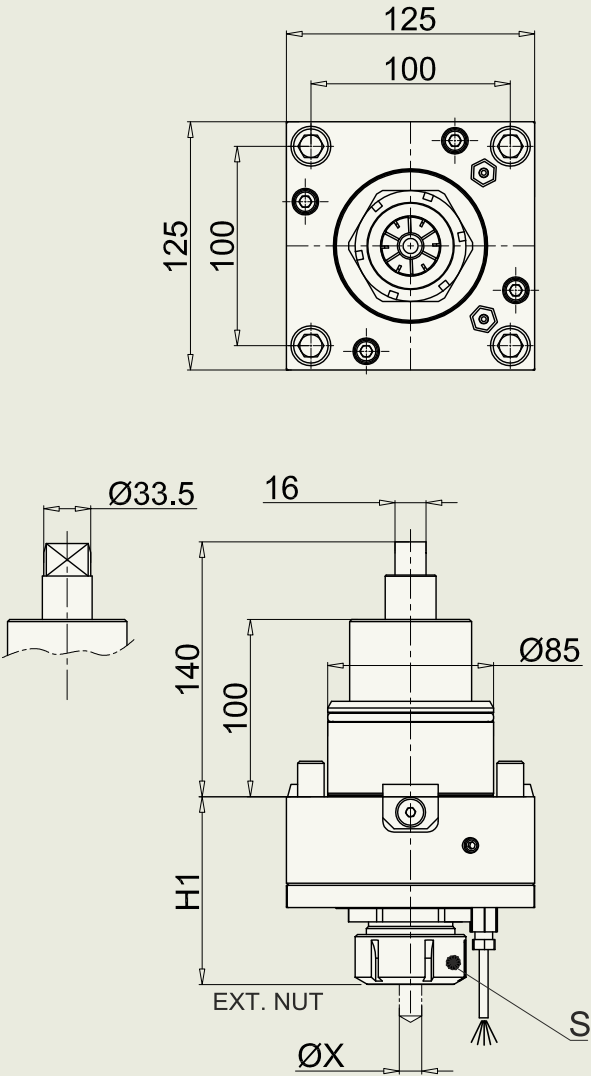
EXTERNAL NUT		INTERNAL/THROUGH COOLANT 100 BAR							RATIO 1:1		
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	CH	H1	L1	L2	T Nm	N max RPM	
B75-RTH ER40 CH-60 EXT.NUT	SD7305	ER-40	Ø3-26	No	60	105	105.5	64	100	4000	
B75-RTH ER40 CH-80 EXT.NUT	SD7307	ER-40	Ø3-26	No	80	125	105.5	64	100	4000	
B75-RTH ER40 CH-110 EXT.NUT	SD7311	ER-40	Ø3-26	No	110	155	105.5	64	100	4000	
B75-RTH ER40 CH-110 EXT.NUT-TC	SD7317	ER-40	Ø3-26	YES	110	155	105.5	82.5	100	4000	

* BMT Driven tool Holders can be supplied as per customer drawing

AXIAL TOOL HOLDERS - B85



EXTERNAL NUT



EXTERNAL NUT				RATIO 1:1			
ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	H1	T Nm	N max RPM
B85-ATH ER50 EXT. NUT	SD7400	ER-50	Ø10-34	NO	104	210	4000

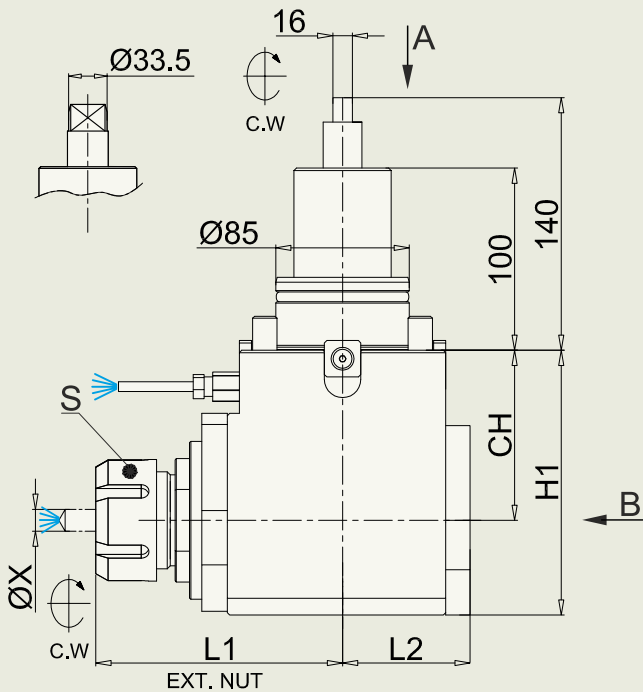
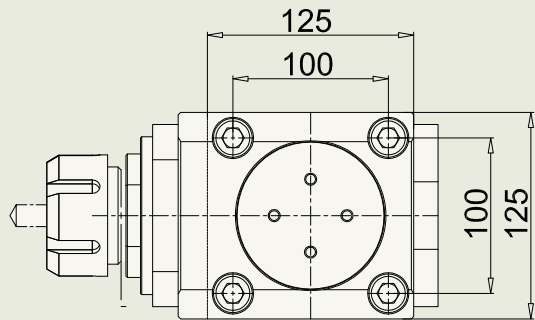
* BMT Driven tool Holders can be supplied as per customer drawing

RADIAL TOOL HOLDERS - B85

05



EXTERNAL NUT



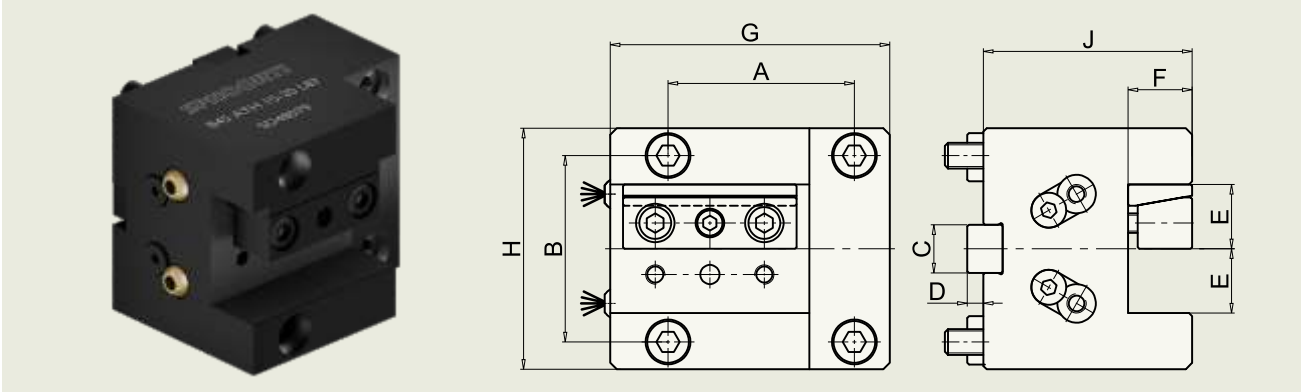
View A - Tool rotation clockwise viewing from this direction
View B - Tool rotation clockwise viewing from this direction

EXTERNAL NUT	INTERNAL/THROUGH COOLANT 100 BAR	RATIO 1:1
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ITEM NAME	ARTICLE NO.	S (DIN6499)	ØX	Internal Coolant	CH	H1	L1	L2	T Nm	N max RPM
B85-RTH ER50 CH-85 EXT. NUT	SD7404	ER-50	Ø10-34	NO	85	137	129	70.5	210	4000
B85-RTH ER50 CH-85 EXT. NUT-TC	SD7407	ER-50	Ø10-34	YES	85	137	129	91	210	4000
B85-RTH ER50 CH-110 EXT. NUT-TC	SD7405	ER-50	Ø10-34	NO	110	162	129	70.5	210	4000

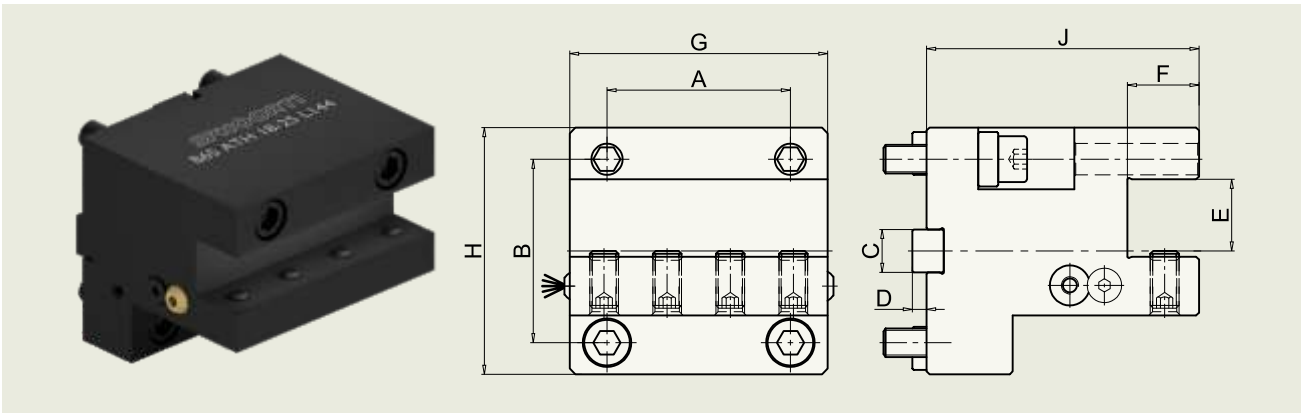
* BMT Driven tool Holders can be supplied as per customer drawing

AXIAL TOOL HOLDER TYPE-1



ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
B45-ATH 15-20 L87	SD48079	58	58	15	5	20	20	87	75	65
B45-ATH 15-20 L103	SD48235	58	58	15	5	20	20	103	75	60
B55-ATH 15-25 L90	SD48347	64	64	15	5	25	25	90	86	95
B55-ATH 15-25 L105	SD58144	64	64	15	5	25	25	105	86	70
B65-ATH 18-25 L105	SD48467	70	73	18	5	25	25	105	96	95
B65-ATH 18-25 L125	SD48069	70	73	18	5	25	25	125	96	93
B75-ATH 25-25 L140	SD48002	90	90	25	6	25	25	140	112	70
B75-ATH 25-32 L135	SD48686	90	90	25	6	32	32	135	112	60
B85-ATH 25-32 L156	SD48253	100	100	25	6	32	32	156	130	90

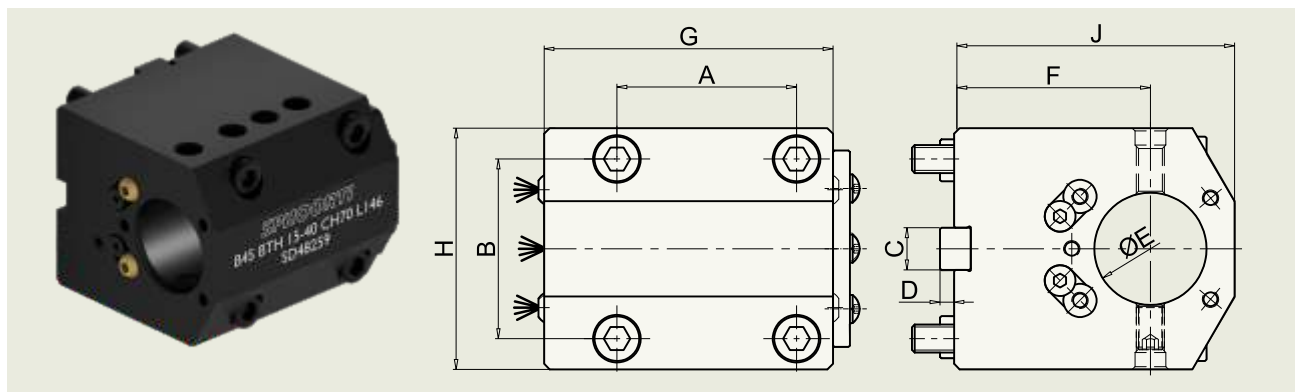
AXIAL TOOL HOLDER TYPE-2



ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
B55-ATH 15-20 L90	SD48641	64	64	15	5	20	20	90	86	95
B55-ATH 15-25 L90	SD48021	64	64	15	5	25	25	90	86	95
B65-ATH 18-25 L115	SD48026	70	73	18	5	25	25	115	96	95

* BMT Static tool Holders can be supplied as per customer drawing

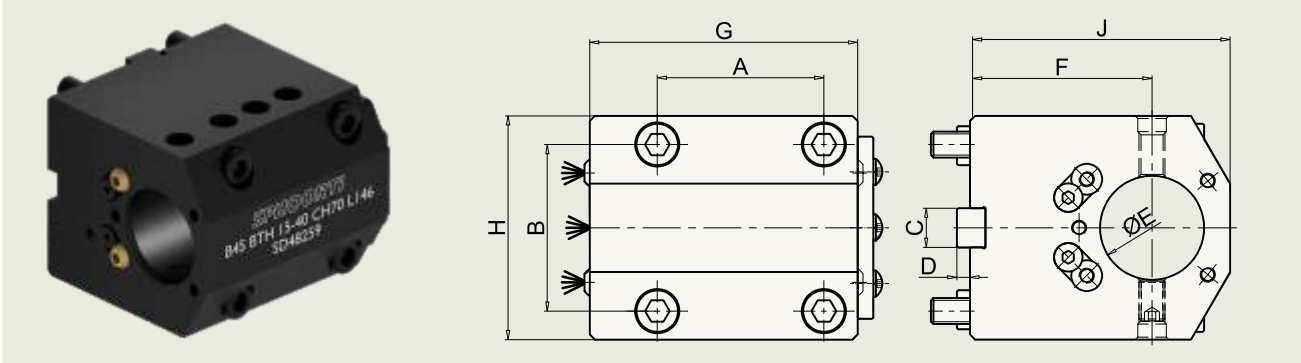
BORING TOOL HOLDER



ITEM NAME	ARTICLE NO.	A	B	C	D	ØE	F	G	H	J
B45 BTH 15-25 CH65 L80	SD48344	58	58	15	5	25	65	80	75	95
B45 BTH 15-32 CH65 L80	SD48049	58	58	15	5	32	65	80	75	95
B45 BTH 15-40 CH65 L80	SD48094	58	58	15	5	40	65	80	75	95
B45 BTH 15-32 CH65 L95	SD58129	58	58	15	5	32	65	95	75	95
B45 BTH 15-32 CH65 L140	SD48262	58	58	15	5	32	65	140	75	95
B45 BTH 15-32 CH85 L80	SD48341	58	58	15	5	32	85	80	75	115
B55 BTH 15-40 CH60 L103	SD48019	64	64	15	5	40	60	103	86	90
B55 BTH 15-32 CH70 L103	SD58440	64	64	15	5	32	70	103	86	100
B55 BTH 15-40 CH70 L103	SD48032	64	64	15	5	40	70	103	86	100
B55 BTH 15-40 CH70 L120	SD58145	64	64	15	5	40	70	120	86	100
B55 BTH 15-40 CH85 L103	SD48691	64	64	15	5	40	85	103	86	115
B55 BTH 15-40 CH100 L103	SD48020	64	64	15	5	40	100	103	86	130
B55 BTH 15-40 CH100 L120	SD58146	64	64	15	5	40	100	120	86	130
B55 BTH 15-40 CH115 L90	SD48328	64	64	15	5	40	115	90	86	150
B65 BTH 18-32 CH72 L127	SD48452	70	73	18	5	32	72	127	96	102
B65 BTH 18-40 CH72 L127	SD48025	70	73	18	5	40	72	127	96	102
B65 BTH 18-50 CH72 L127	SD48315	70	73	18	5	50	72	127	96	112
B65 BTH 18-50 CH80 L120	SD48833	70	73	18	5	50	80	120	96	114
B65 BTH 18-50 CH90 L127	SD58160	70	73	18	5	50	90	127	96	130
B65 BTH 18-50 CH100 L127-FB	SD58626	70	73	18	5	50	100	127	96	135
B65 BTH 18-32 CH100 L120	SD58113	70	73	18	5	32	100	120	96	130
B65 BTH 18-40 CH100 L120	SD48508	70	73	18	5	40	100	120	96	130

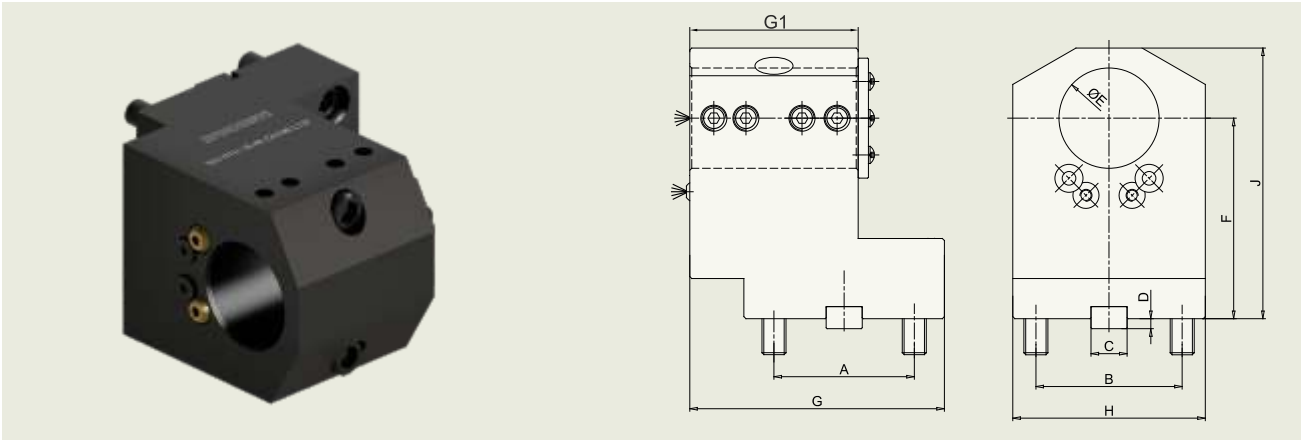
* BMT Static tool Holders can be supplied as per customer drawing

BORING TOOL HOLDER



ITEM NAME	ARTICLE NO.	A	B	C	D	ØE	F	G	H	J
B65 BTH 18-50 CH100 L120	SD58114	70	73	18	5	50	100	120	96	135
B65 BTH 18-40 CH115 L127	SD48027	70	73	18	5	40	115	127	96	150
B75 BTH 25-50 CH60 L165	SD48004	90	90	25	6	50	60	165	112	110
B75 BTH 25-60 CH60 L165	SD48003	90	90	25	6	60	60	165	112	110
B75 BTH 25-60 CH60 L165 FRB	SD58198	90	90	25	6	60	60	165	112	110
B75 BTH 25-60 CH90 L165	SD48256	90	90	25	6	60	90	165	112	135
B75 BTH 25-60 CH110 L137	SD48671	90	90	25	6	60	110	137	112	155
B85 BTH 25-80 CH60 L195	SD48255	100	100	25	6	80	60	195	130	117
B85 BTH 25-80 CH85 L195	SD48046	100	100	25	6	80	85	195	130	142

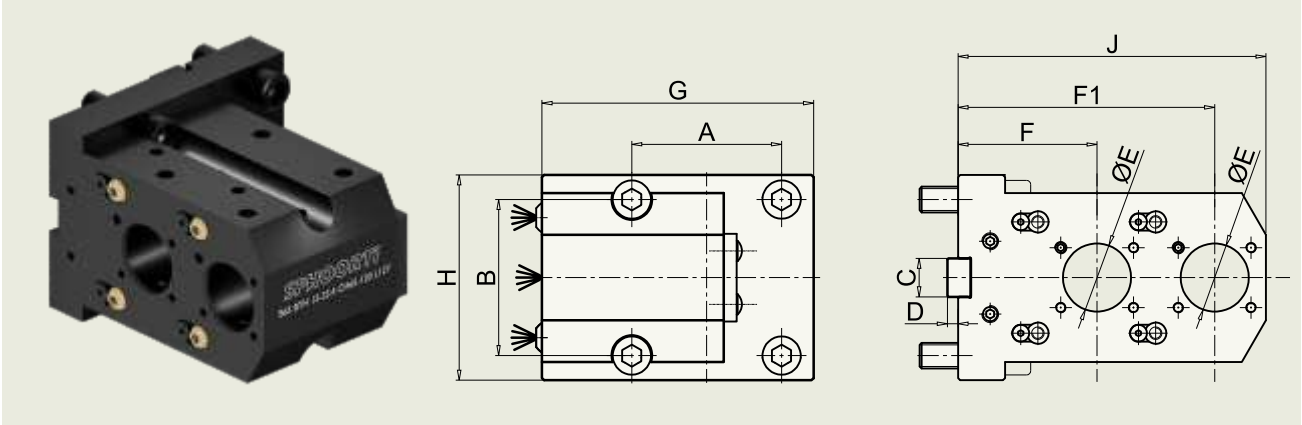
BORING TOOL HOLDER BACK SIDE STEP TYPE



ITEM NAME	ARTICLE NO.	A	B	C	D	ØE	F	G	G1	H	J
B65 BTH 18-32 CH100 L127	SD58110	70	73	18	5	32	100	127	84	96	135
B65 BTH 18-40 CH100 L127	SD48033	70	73	18	5	40	100	127	84	96	135
B65 BTH 18-50 CH100 L127	SD48317	70	73	18	5	50	100	127	84	96	135

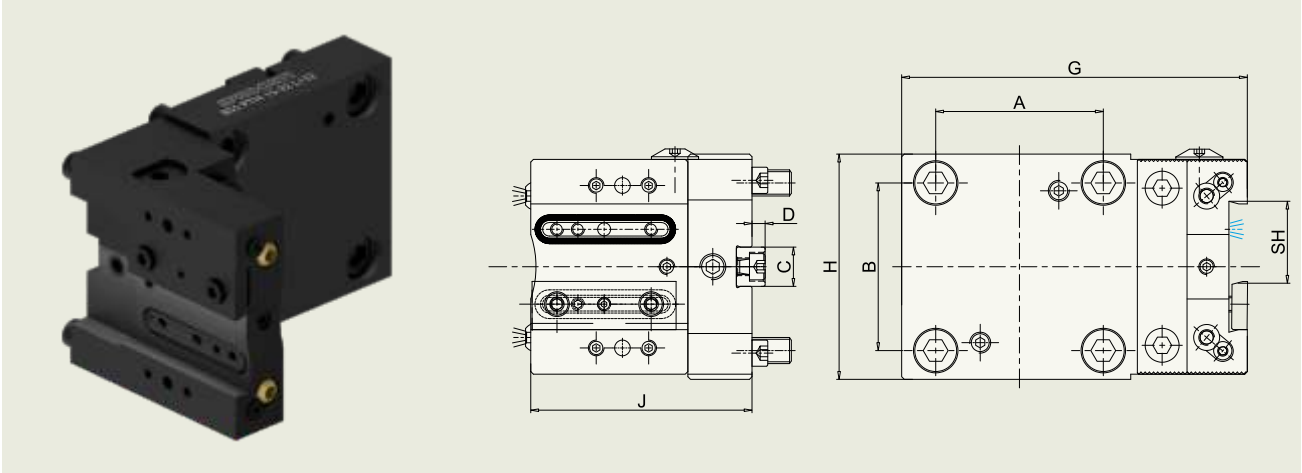
* BMT Static tool Holders can be supplied as per customer drawing

DOUBLE BORING TOOL HOLDER



ITEM NAME	ARTICLE NO.	A	B	C	D	ØE	F	F1	G	H	J
B45 BTHD 15-20 CH55/100 L90.5	SD58128	58	58	15	5	20	55	100	90.5	75	115
B55 BTHD 15-20 CH85/120 L120	SD58133	64	64	15	5	20	85	120	120	86	135
B65 BTHD 18-25 CH65/120 L127	SD48830	70	73	18	5	25	65	120	127	96	144
B65 BTHD 18-32 CH65/120 L127	SD48313	70	73	18	5	32	65	120	127	96	144
B65 BTHD 18-25 CH85/130 L121	SD48606	70	73	18	5	25	85	130	121	96	152
B65 BTHD 18-32 CH70/110 L120	SD58101	70	73	18	5	32	70	110	120	96	132

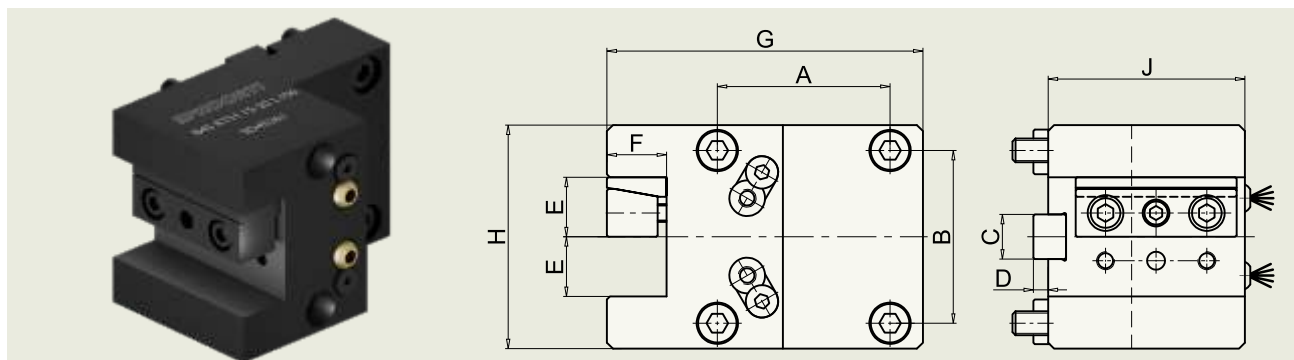
CUTOFF TOOL HOLDER - THROUGH COOLANT



ITEM NAME	ARTICLE NO.	A	B	C	D	SH	G	H	J
B45 PTH 15-26 L124 TC	Sd58687	58	58	15	5	26	124	75	84.5
B55 PTH 15-32 L132 TC	SD58186	64	64	15	5	32	132	86	84.5
B65 PTH 18-32 L140 TC	SD58329	70	73	18	5	32	140	96	84.5
B75 PTH 25-32 L162 TC	SD58264	90	90	25	5	32	162	112	84.5

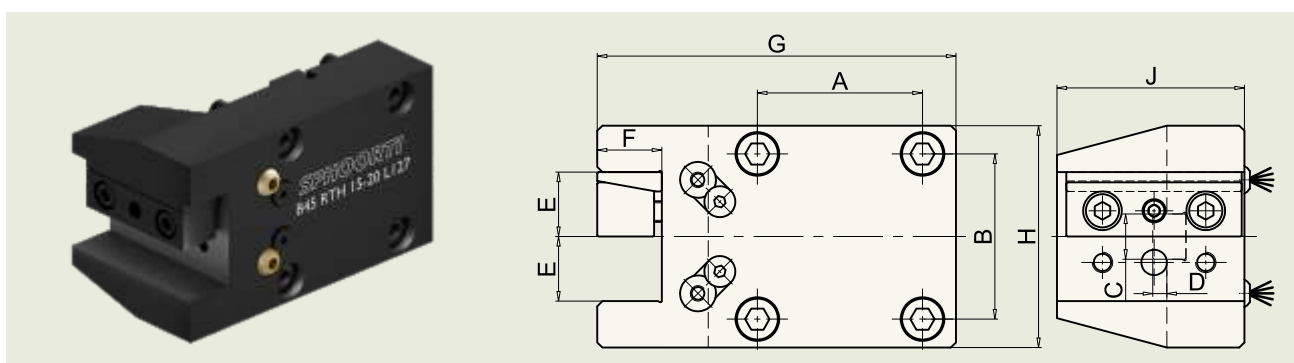
* BMT Static tool Holders can be supplied as per customer drawing

RADIAL TOOL HOLDER TYPE-1



ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
B45-RTH 15-20 L102	SD48078	58	58	15	5	20	20	102	75	66
B45-RTH 15-20 L106	SD48261	58	58	15	5	20	20	106	75	66
B55-RTH 15-20 L104	SD48433	64	64	15	5	20	20	104	86	73
B55-RTH 15-25 L120	SD48418	64	64	15	5	25	25	120	86	60
B65-RTH 18-25 L130	SD48024	70	73	18	5	25	25	130	96	75
B65-RTH 18-25 L104	SD48073	70	73	18	5	25	25	104	96	75
B75-RTH 25-25 L145.5	SD48434	90	90	25	6	25	25	145.5	112	85
B75-RTH 25-32 L150.5	SD48435	90	90	25	6	32	32	150.5	112	85
B85-RTH 25-32 L168.5	SD48436	100	100	25	6	32	32	168.5	125	90

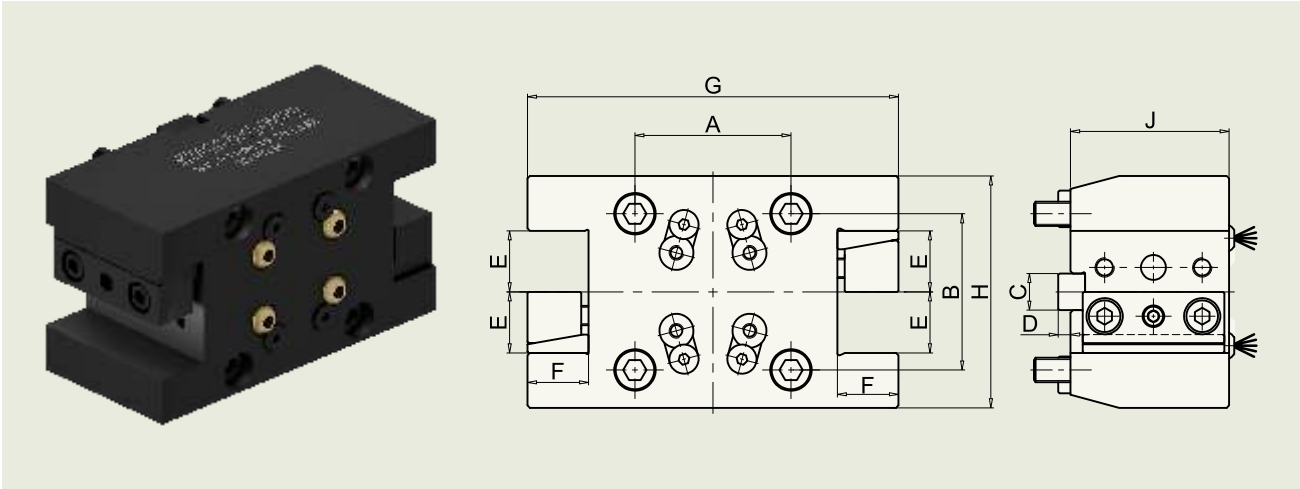
RADIAL TOOL HOLDER TYPE-2



ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
B45-RTH 15-20 L127	SD48258	58	58	15	5	20	20	127	75	66
B55-RTH 15-25 L139	SD48030	64	64	15	5	25	25	139	86	80
B65-RTH 18-25 L150	SD48502	70	73	18	5	25	25	150	96	75
B75-RTH 25-25 L165	SD48001	90	90	25	6	25	25	165	112	100
B75-RTH 25-32 L168	SD48005	90	90	25	6	32	32	168	112	100
B85-RTH 25-32 L192	SD48241	100	100	25	6	32	32	192	130	140

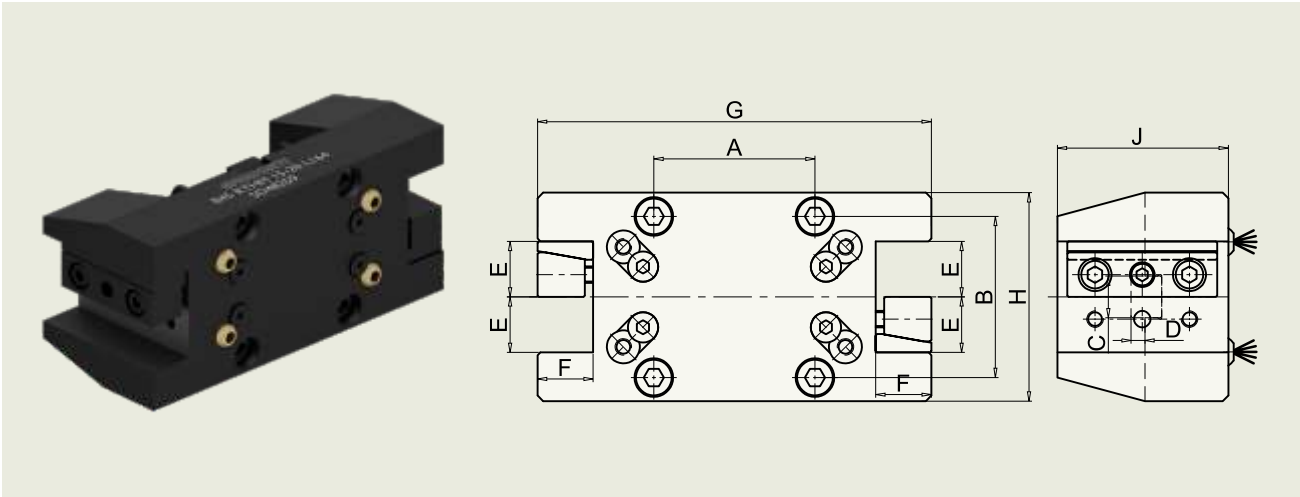
* BMT Static tool Holders can be supplied as per customer drawing

RADIAL MULTIPLE TOOL HOLDER TYPE-1



ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
B45-RTHM 15-20 L124	SD58130	58	58	15	5	20	20	124	75	60
B45-RTHM 15-20 L132	SD48236	58	58	15	5	20	20	132	75	60
B55-RTHM 15-25 L152	SD48022	64	64	15	5	25	25	152	95	65
B65-RTHM 18-25 L149	SD48460	70	73	18	5	25	25	149	96	80
B65-RTHM 18-25 L152	SD48023	70	73	18	5	25	25	152	96	75
B75-RTHM 25-32 L181	SD48438	90	90	25	6	32	32	181	112	85

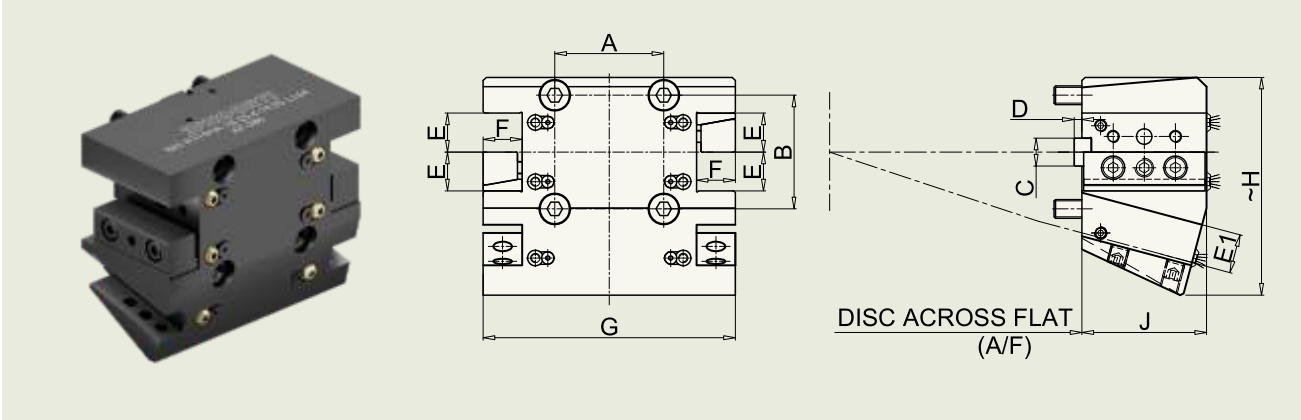
RADIAL MULTIPLE TOOL HOLDER TYPE-2



ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
B45-RTHM 15-20 L164	SD48259	58	58	15	5	20	20	164	75	66
B55-RTHM 15-25 L188	SD48031	64	64	15	5	25	25	188	86	80

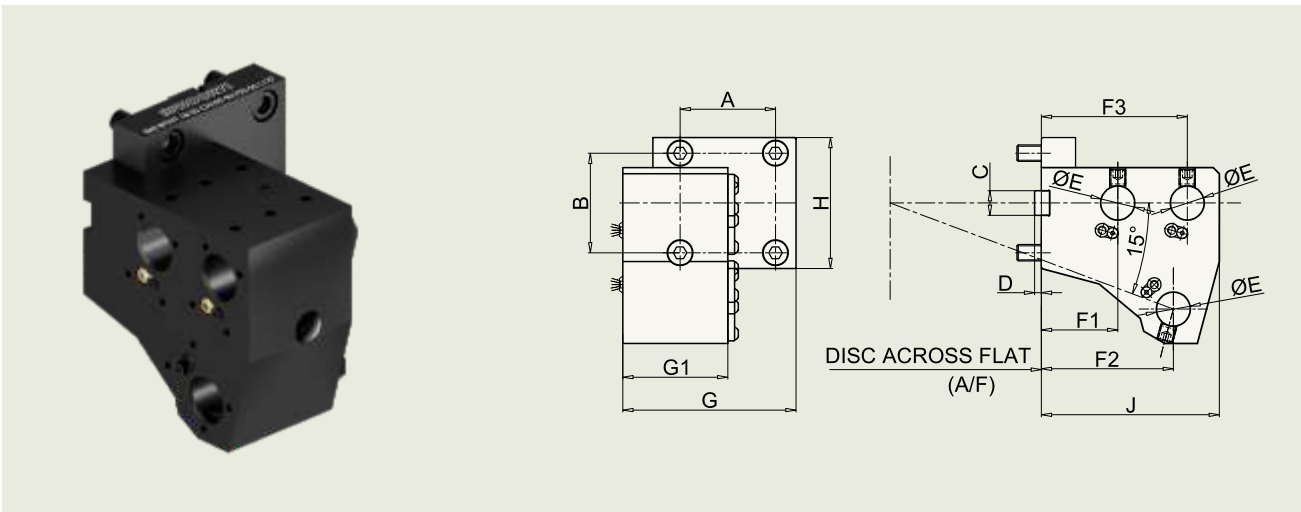
* BMT Static tool Holders can be supplied as per customer drawing

RADIAL MULTIPLE TOOL HOLDER ANGULAR (HALF INDEX TOOL HOLDER)



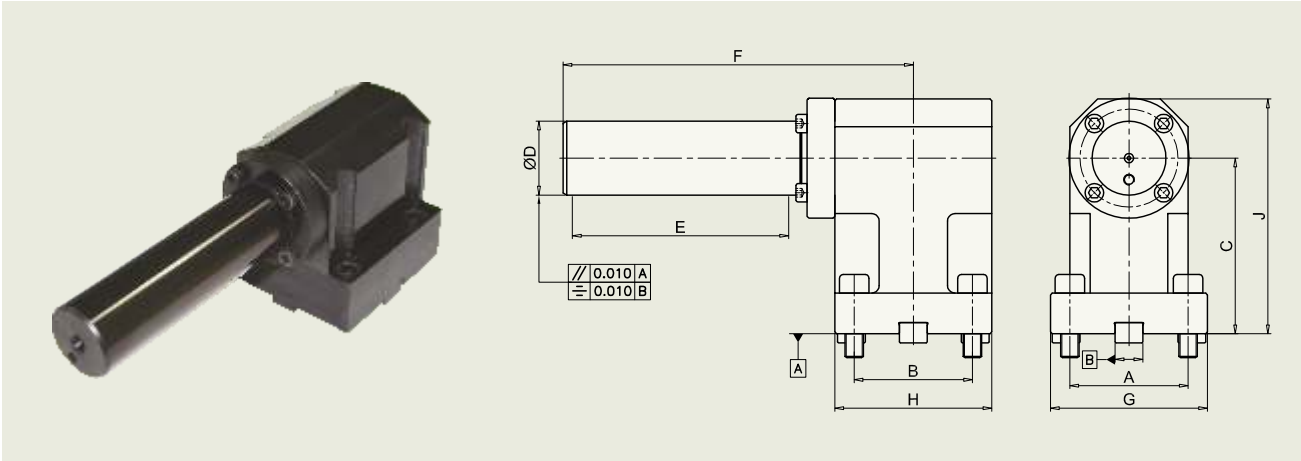
ITEM NAME	ARTICLE NO.	A	B	C	D	E	E1	G	H	J	DISC A/F
B45 RTHMA 15-20/20 L136	SD48605	58	58	15	5	20	20	136	112.5	65	320
B55 RTHMA 15-20/20 L146	SD48762	64	64	15	5	20	20	146	116	73	330
B65 RTHMA 18-20/20 L166	SD58322	70	73	18	5	20	20	166	126.5	85	365
B65 RTHMA 18-20/20 L166	SD58120	70	73	18	5	20	20	166	134	85	420

BORING TOOL HOLDER TRIPLE - TYPE 1 (HALF INDEX TOOL HOLDER)



ITEM NAME	ARTICLE NO.	A	B	C	D	ØE	F1	F2	F3	G	G1	H	J	DISC A/F
B45 BTHT 15-20 CH55/100/91.141 L92	SD58002	58	58	15	5	20	55	91.141	100	92	55	75	115	320
B55 BTHT 15-25 CH65/100/90.97 L121	SD48712	64	64	15	5	25	65	90.97	100	121	76	86	123.5	330
B65 BTHT 18-25 CH65/100/90.374 L127	SD58586	70	73	18	5	25	65	90.374	100	127	77	96	123.5	365

RADIAL TEST MANDREL

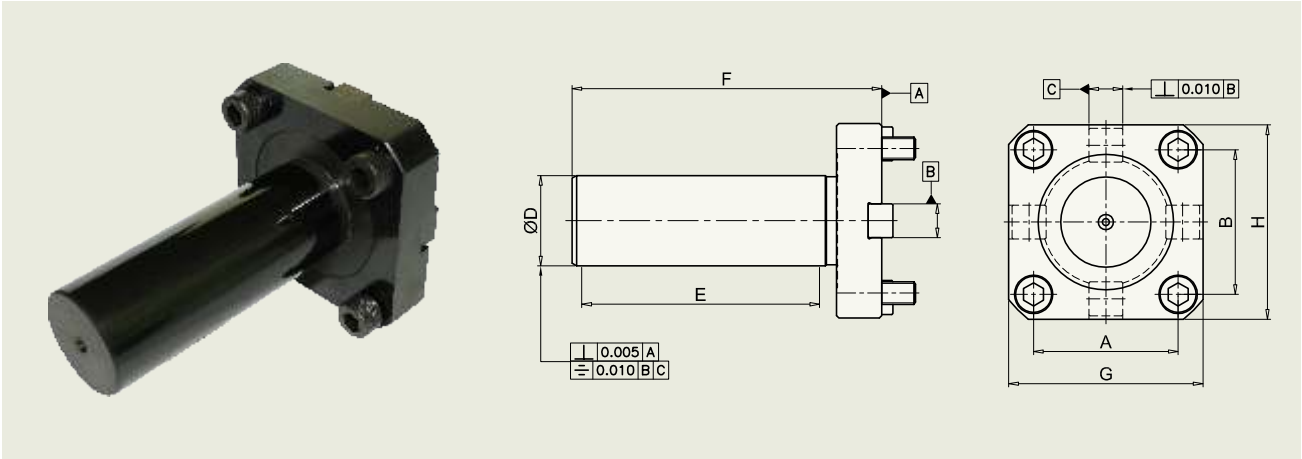


ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
BMT-45 RADIAL TEST MANDREL	SDTMRB45	58	58	80	40	125	195	80	80	112
BMT-55 RADIAL TEST MANDREL	SDTMRB55	64	64	100	40	125	197.5	85	85	132
BMT-65 RADIAL TEST MANDREL	SDTMRB65	73	70	72	40	125	205	96	100	104
BMT-75 RADIAL TEST MANDREL	SDTMRB75	90	90	100	50	150	232.5	115	115	135
BMT-85 RADIAL TEST MANDREL	SDTMRB85	100	100	100	50	150	237.5	125	125	135

TEST MANDREL WOODEN BOX



AXIAL TEST MANDREL

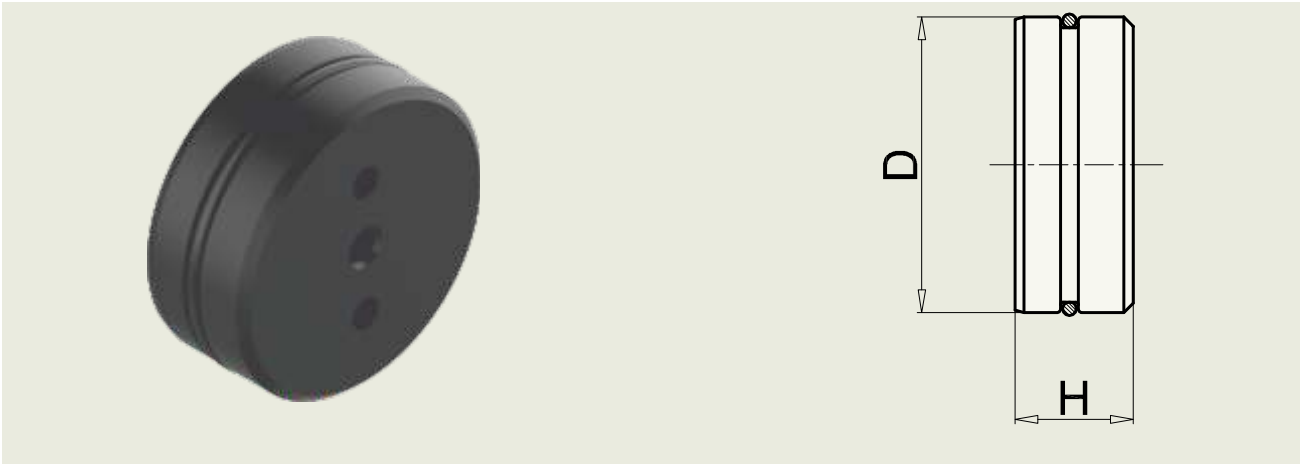


ITEM NAME	ARTICLE NO.	A	B	D	E	F	G	H
BMT-45 AXIAL TEST MANDREL	SDTMAB45	58	58	40	100	130	75	75
BMT-55 AXIAL TEST MANDREL	SDTMAB55	64	64	40	100	130	86	86
BMT-65 AXIAL TEST MANDREL	SDTMAB65	73	70	40	130	170	96	96
BMT-75 AXIAL TEST MANDREL	SDTMAB75	90	90	50	150	195	115	115
BMT-85 AXIAL TEST MANDREL	SDTMAB85	100	100	50	150	195	125	125

TEST MANDREL WOODEN BOX



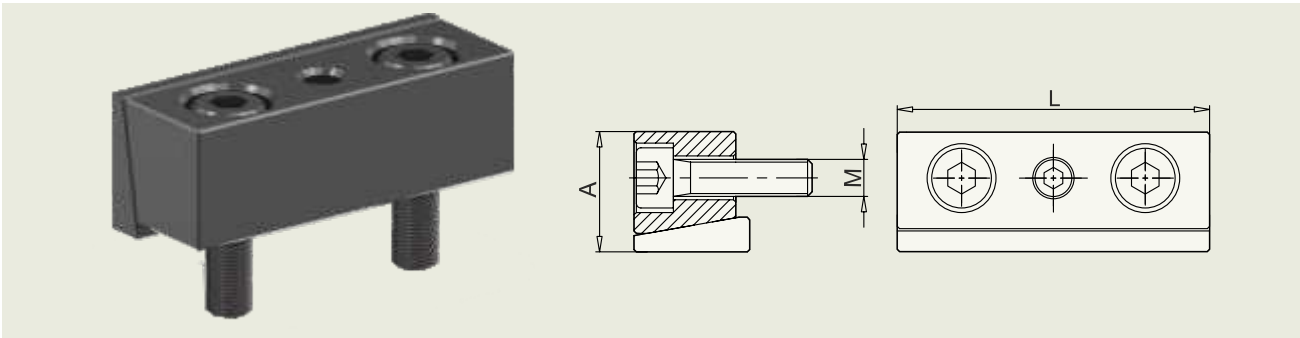
PLUG



ITEM NAME	ARTICLE NO.	D	H
B45 PLUG	SD48260	Ø45	25
B55 PLUG	SD48196	Ø55	26
B65 PLUG	SD48197	Ø65	26
B75 PLUG	SD48252	Ø75	32

05

WEDGE ASSEMBLY



ITEM NAME	ARTICLE NO.	A	L	M
W16 X 43	SD0404	16	43	6
W20 X 48	SD0504	20	48	6
W20 X 54	SD0902	20	54	6
W25 X 58	SD50502	25	58	8
W25 X 68	SD1404	25	68	8
W32 X 84	SD2304	32	84	10
W40 X 94	SD3004	40	94	12
W40 X109	SD7004	40	109	12

* Customised design can be supplied upon request

CUSTOMISED TOOL DISC & HOLDERS



CUSTOM DESIGNED BMT TOOL HOLDERS

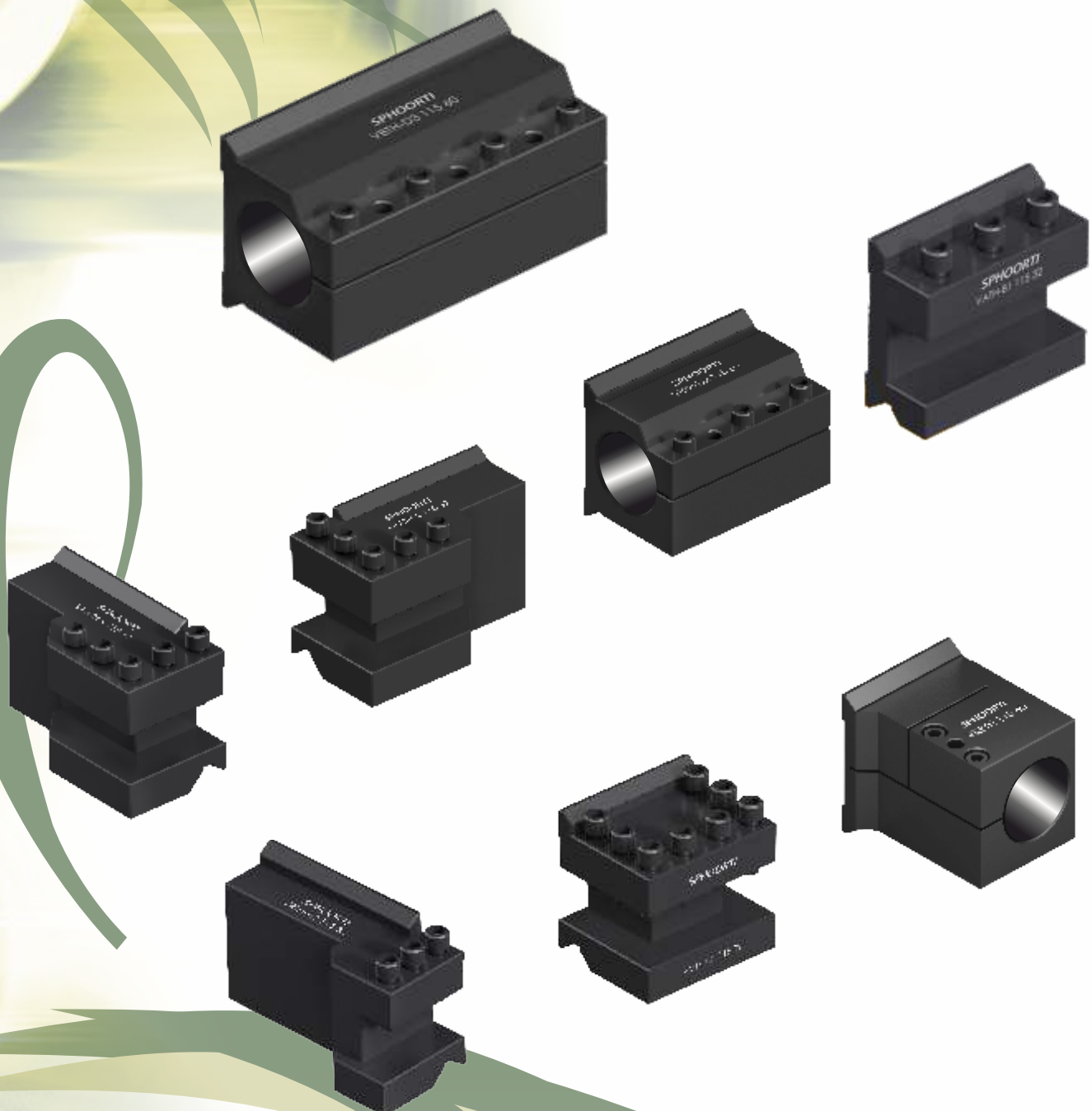


SPHOORTI

Precision Assured

VTP TOOL HOLDERS

FOR CNC TURNING CENTERS



FEATURES

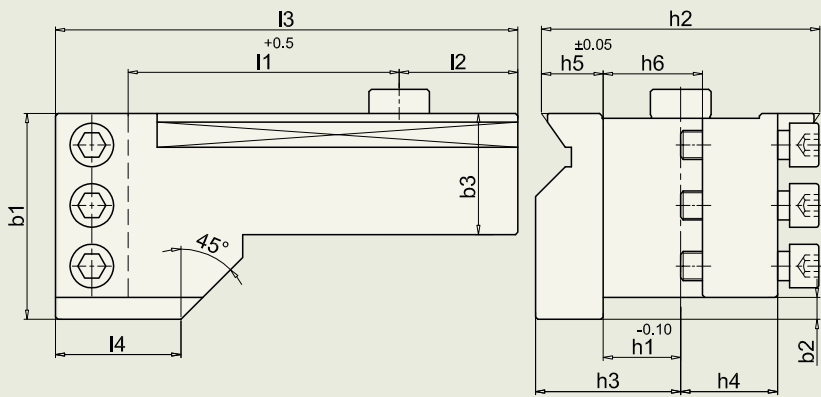
- Suitable for Vertical Tool Post Turrets
- Manufactured as per DIN 69881
- Made out of toughened steel (C-45)
- Our standard tool holders are fully blackened
- Available in standard dovetail sizes of 72, 90, 115, & 140

TOOL HOLDER MOUNTING POSITION



VERTICAL - RADIAL TOOL HOLDER - LEFT HAND

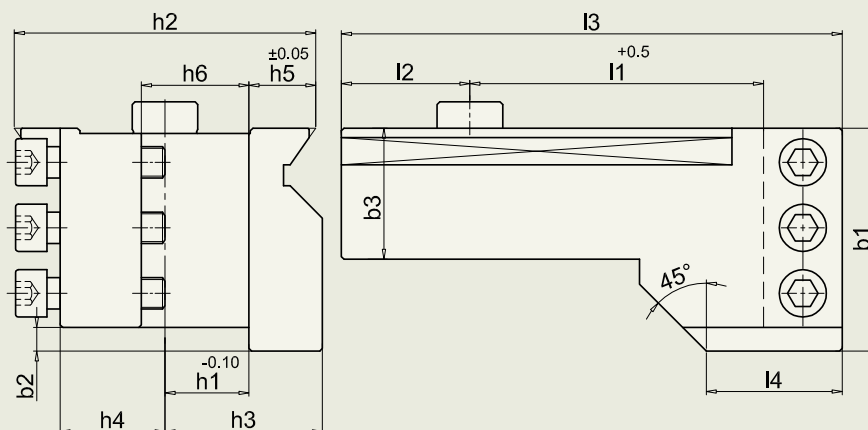
FORM A1



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	b3	h3	h4	h5	h6	l1	l2	l3	l4
VRTH-A1 72 20	SV310140	72	20	63	6	40	43	26	16	29	49	39	110	45
VRTH-A1 90 25	SV310122	90	25	72	9	40	50	35	20	34	73	39	138	45
VRTH-A1 115 32	SV310156	115	32	85	9	50	60	40	25.5	41	112	49	191	50
VRTH-A1 140 40	SV310198	140	40	110	12	60	78	57	30	53	115	59	209	55

VERTICAL - RADIAL TOOL HOLDER - RIGHT HAND

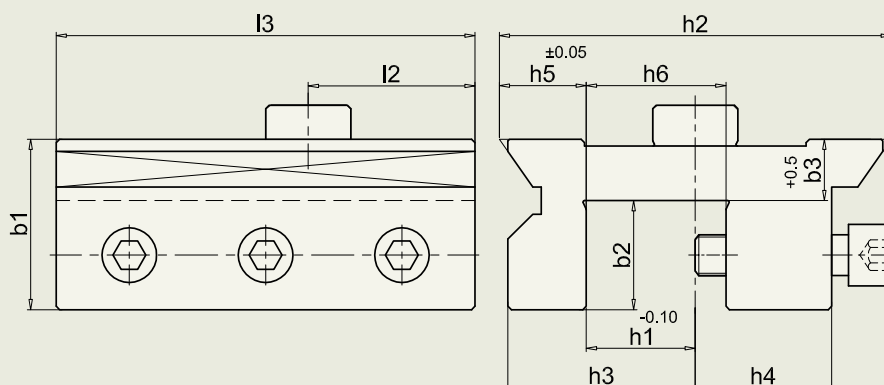
FORM A2



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	b3	h3	h4	h5	h6	l1	l2	l3	l4
VRTH-A2 72 20	SV310141	72	20	63	6	40	43	26	16	29	49	39	110	45
VRTH-A2 90 25	SV310157	90	25	72	9	40	50	35	20	34	73	39	138	45
VRTH-A2 115 32	SV310132	115	32	85	9	50	60	40	25.5	41	112	49	191	50
VRTH-A2 140 40	SV310199	140	40	110	12	60	78	57	30	53	115	59	209	55

VERTICAL - AXIAL TOOL HOLDER

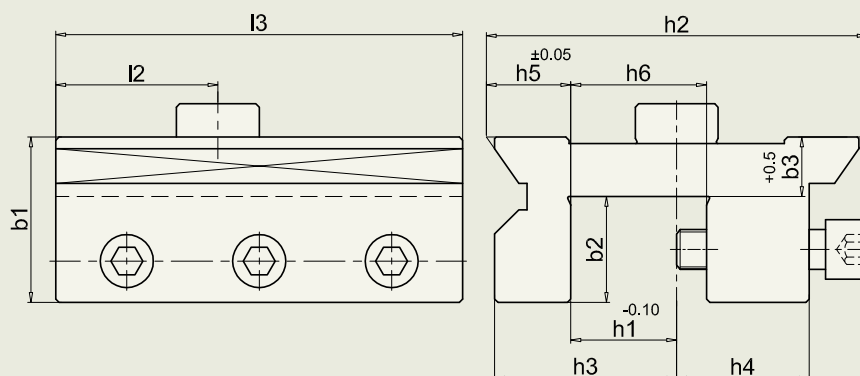
FORM B1



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	b3	h3	h4	h5	h6	l2	l3
VATH-B1 72 20	SV310142	72	20	45	20	25	34	27	16	29	39	110
VATH-B1 90 25	SV310158	90	25	50	25	25	42.5	35	20	34	39	118
VATH-B1 115 32	SV310131	115	32	57	32	25	55	40	25.5	41	49	123
VATH-B1 140 40	SV310200	140	40	70	40	30	67.5	57	30	53	59	160

VERTICAL - AXIAL TOOL HOLDER

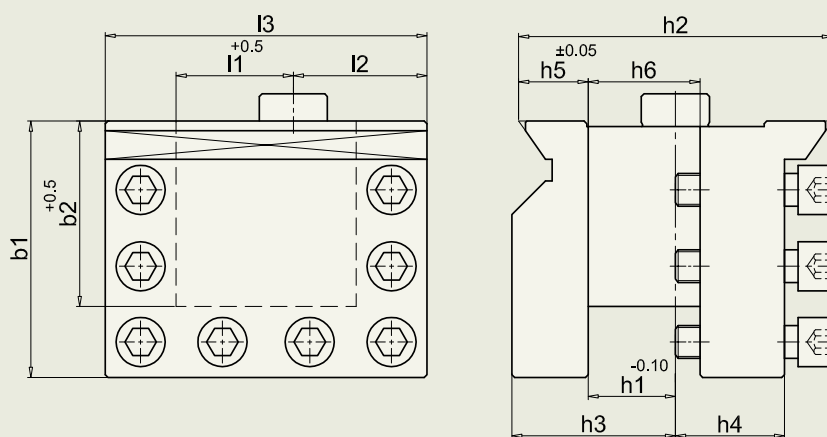
FORM B2



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	b3	h3	h4	h5	h6	l2	l3
VATH-B2 72 20	SV310143	72	20	45	20	25	34	27	16	29	39	110
VATH-B2 90 25	SV310159	90	25	50	25	25	42.5	35	20	34	39	118
VATH-B2 115 32	SV310118	115	32	57	32	25	55	40	25.5	41	49	123
VATH-B2 140 40	SV310201	140	40	70	40	30	67.5	57	30	53	59	160

VERTICAL - MULTIPLE TOOL HOLDER

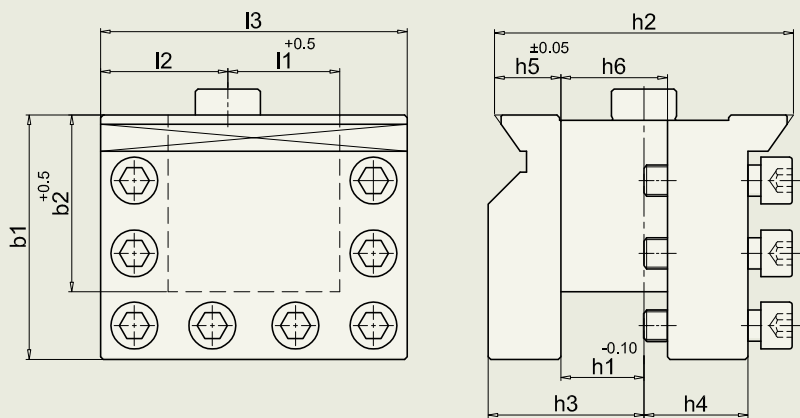
FORM C1



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	h3	h4	h5	h6	l1	l2	l3
VMTH-C1 72 20	SV310144	72	20	81	59	43	27	16	29	37	39	98
VMTH-C1 90 25	SV310160	90	25	88	62	50	35	20	34	43	39	108
VMTH-C1 115 32	SV310136	115	32	94	68	60	40	25.5	41	43	49	118
VMTH-C1 140 40	SV310202	140	40	115	83	78	57	30	53	53	59	144

VERTICAL - MULTIPLE TOOL HOLDER

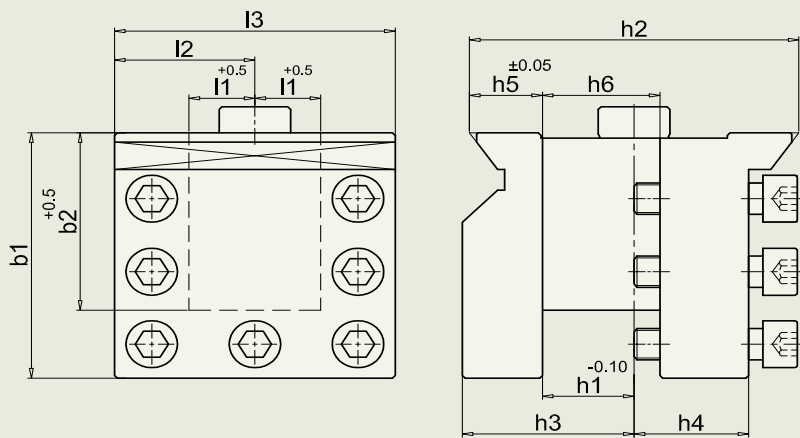
FORM C2



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	h3	h4	h5	h6	l1	l2	l3
VMTH-C2 72 20	SV310145	72	20	81	59	43	27	16	29	37	39	98
VMTH-C2 90 25	SV310161	90	25	88	62	50	35	20	34	43	39	108
VMTH-C2 115 32	SV310137	115	32	94	68	60	40	25.5	41	43	49	118
VMTH-C2 140 40	SV310203	140	40	115	83	78	57	30	53	53	59	144

VERTICAL - MULTIPLE TOOL HOLDER

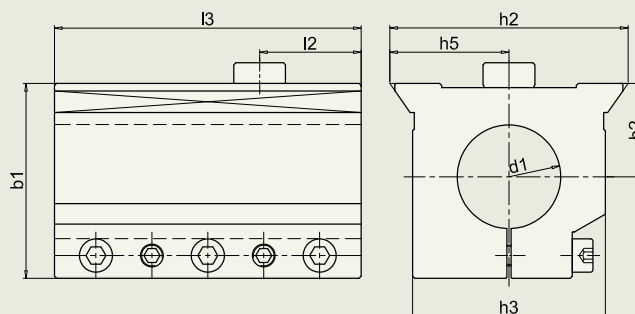
FORM C3



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	h3	h4	h5	h6	l1	l2	l3
VMTH-C3 72 20	SV310146	72	20	81	59	43	27	16	29	17	39	78
VMTH-C3 90 25	SV310162	90	25	88	62	50	35	20	34	23	49	98
VMTH-C3 115 32	SV310138	115	32	94	68	60	40	25.5	41	23	49	98
VMTH-C3 140 40	SV310204	140	40	115	83	78	57	30	53	27	59	118

VERTICAL - BORING TOOL HOLDER

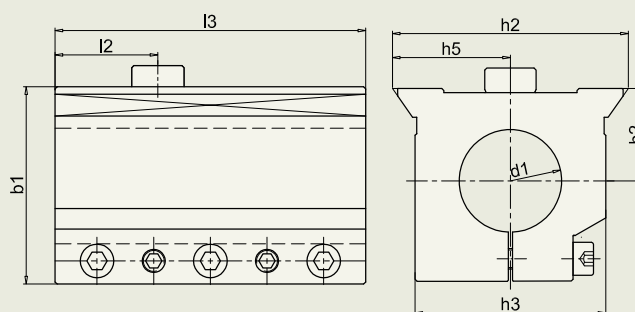
FORM D1



ITEM NAME	ARTICLE NO.	h2	d1	b1	b2		h3	h5		l2	l3
VBTH-D1 72 40	SV310147	72	40	76	35	±0.02	72	36	±0.02	39	110
VBTH-D1 72 50	SV310148	72	50	80	40		72	36		39	110
VBTH-D1 90 50	SV310180	90	50	94	45	±0.04	90	45	±0.04	39	138
VBTH-D1 90 60	SV310166	90	60	100	50		90	45		39	138
VBTH-D1 115 50	SV310174	115	50	94	45		93	57.5		49	148
VBTH-D1 115 60	SV310126	115	60	100	50		93	57.5		49	148
VBTH-D1 115 80	SV310186	115	80	120	60		115	57.5		49	148
VBTH-D1 140 60	SV310205	140	60	110	60		115	70		59	178
VBTH-D1 140 80	SV310208	140	80	125	60		115	70		59	178
VBTH-D1 140 100	SV310210	140	100	145	70		140	70		59	178

VERTICAL - BORING TOOL HOLDER

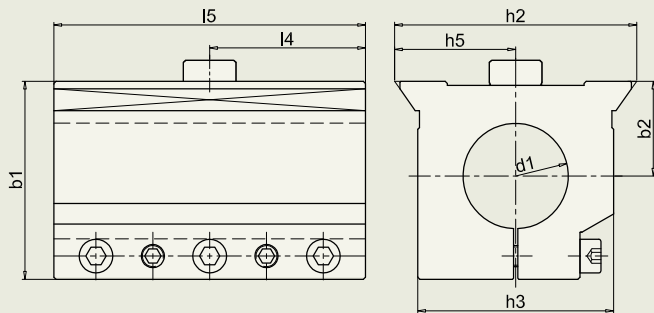
FORM D2



ITEM NAME	ARTICLE NO.	h2	d1	b1	b2		h3	h5		l2	l3
VBTH-D2 72 40	SV310149	72	40	76	35	±0.02	72	36	±0.02	39	110
VBTH-D2 72 50	SV310150	72	50	80	40		72	36		39	110
VBTH-D2 90 50	SV310164	90	50	94	45	±0.04	90	45	±0.04	39	138
VBTH-D2 90 60	SV310167	90	60	100	50		90	45		39	138
VBTH-D2 115 50	SV310121	115	50	94	45		93	57.5		49	148
VBTH-D2 115 60	SV310120	115	60	100	50		93	57.5		49	148
VBTH-D2 115 80	SV310187	115	80	120	60		115	57.5		49	148
VBTH-D2 140 60	SV310206	140	60	110	60		115	70		59	178
VBTH-D2 140 80	SV310209	140	80	125	60		115	70		59	178
VBTH-D2 140 100	SV310211	140	100	145	70		140	70		59	178

VERTICAL - BORING TOOL HOLDER

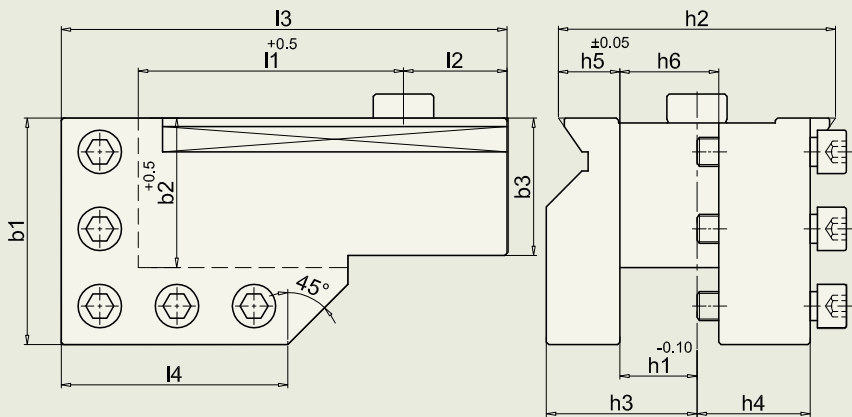
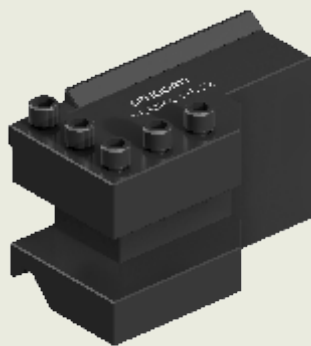
FORM D3



ITEM NAME	ARTICLE NO.	h2	d1	b1	b2		h3	h5		l4	l5
VBTH-D3 72 40	SV310151	72	40	76	35	±0.02	72	36	±0.02	75	150
VBTH-D3 72 50	SV310152	72	50	80	40		72	36		75	150
VBTH-D3 90 50	SV310165	90	50	94	45	±0.04	90	45	±0.04	99	198
VBTH-D3 90 60	SV310168	90	60	100	50		90	45		99	198
VBTH-D3 115 50	SV310193	115	50	94	45		93	57.5		99	198
VBTH-D3 115 60	SV310124	115	60	100	50		93	57.5		99	198
VBTH-D3 115 80	SV310188	115	80	120	60		115	57.5		99	198
VBTH-D3 140 60	SV310207	140	60	110	60		115	70		99	198
VBTH-D3 140 80	SV310133	140	80	125	60		115	70		119	238
VBTH-D3 140 100	SV310212	140	100	145	70		140	70		119	238

VERTICAL - RADIAL AND AXIAL TOOL HOLDER - LEFT HAND

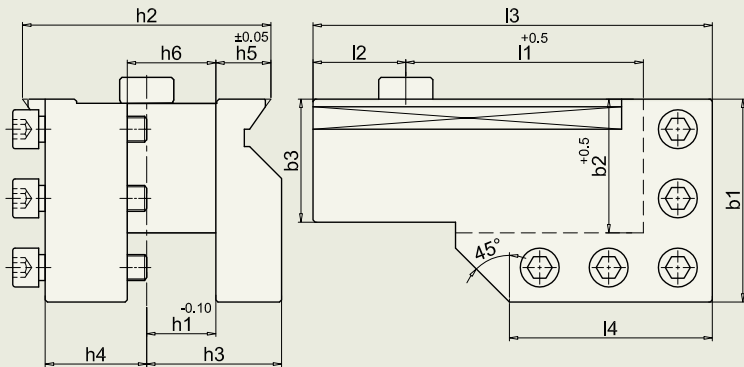
FORM-L



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	b3	h3	h4	h5	h6	l1	l2	l3	l4
VRATH-L 72 20	SV310153	72	20	63	41	36	43	26	16	29	51	29	102	63
VRATH-L 90 25	SV310169	90	25	80	55	50	50	35	20	34	74	39	138	80
VRATH-L 115 32	SV310134	115	32	94	62	57	62	45	25.5	41	110	43	185	94
VRATH-L 140 40	SV310213	140	40	110	70	65	80	57	30	53	110	59	209	110

VERTICAL - RADIAL AND AXIAL TOOL HOLDER - RIGHT HAND

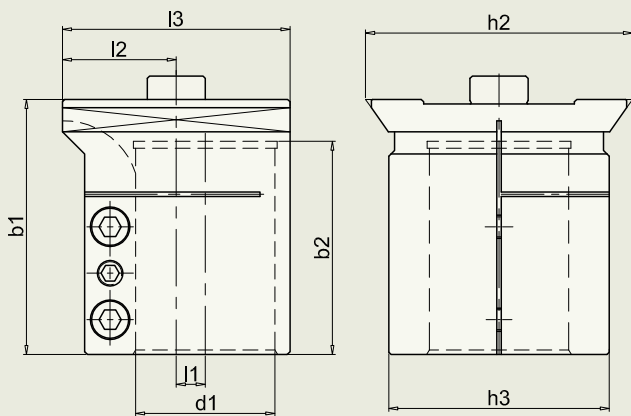
FORM - R



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	b3	h3	h4	h5	h6	l1	l2	l3	l4
VRATH-R 72 20	SV310154	72	20	63	41	36	43	26	16	29	51	29	102	63
VRATH-R 90 25	SV310170	90	25	80	55	50	50	35	20	34	74	39	138	80
VRATH-R 115 32	SV310135	115	32	94	62	57	62	45	25.5	41	110	43	185	94
VRATH-R 140 40	SV310214	140	40	110	70	65	80	57	30	53	110	59	209	110

VERTICAL - RADIAL BORING TOOL HOLDER

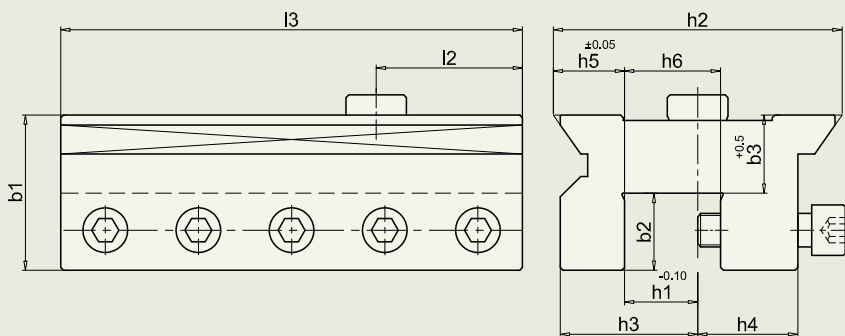
VRBTH



ITEM NAME	ARTICLE NO.	h2	d1	b1	b2	h3	l1	l2	l3
VRBTH-72 40	SV310155	72	40	86	70	53	10	39	78
VRBTH-90 50	SV310171	90	50	102	80	71	12.5	41.5	83
VRBTH-115 60	SV310139	115	60	122	100	95	12.5	49	98
VRBTH-140 80	SV310241	140	80	146	120	115	12.5	59	118

VERTICAL-AXIAL TOOL HOLDER

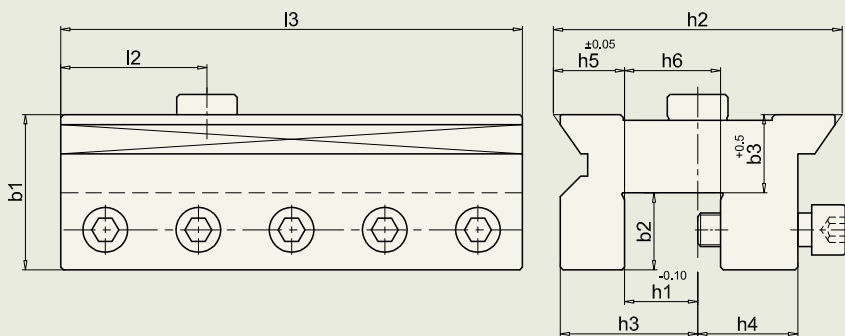
FORM B1



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	b3	h3	h4	h5	h6	l2	l3
VATH-B1 115 32 L250	SV310173	115	32	57	32	25	55	40	25.5	41	49	250
VATH-B1 140 40 L220	SV310311	140	40	70	40	30	67.5	57	30	53	59	220

VERTICAL-AXIAL TOOL HOLDER

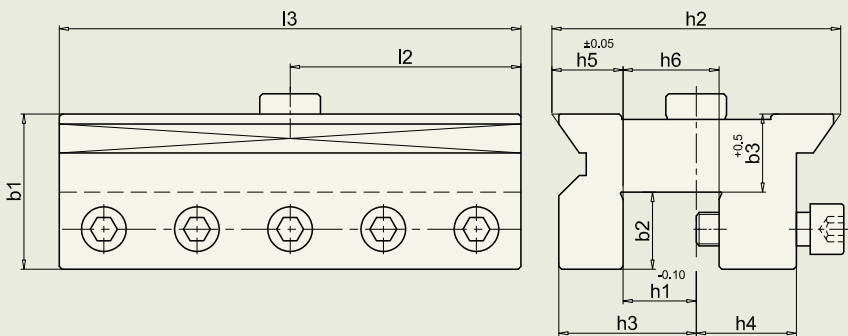
FORM B2



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	b3	h3	h4	h5	h6	l2	l3
VATH-B2 90 25 L250	SV310179	90	25	50	25	25	42.5	40	20	34	39	250

VERTICAL-AXIAL TOOL HOLDER

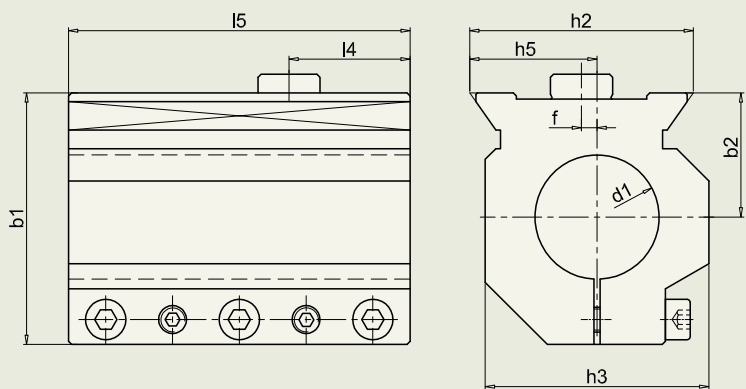
FORM B3



ITEM NAME	ARTICLE NO.	h2	h1	b1	b2	b3	h3	h4	h5	h6	l2	l3
VATH-B3 90 40 L154	SV310178	90	40	80	40	40	67.5	45	5	53	77	154
VATH-B3 115 32 L200	SV310189	115	32	57	32	25	55	40	25.5	52	100	200

VERTICAL-BORING TOOL HOLDER OFFSET

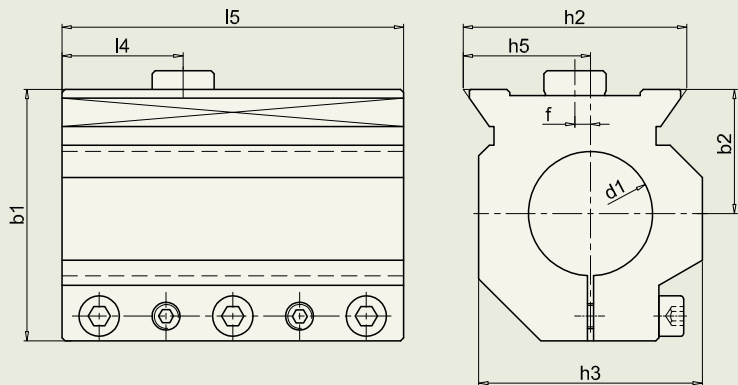
FORM D1



ITEM NAME	ARTICLE NO.	h2	d1	b1	b2		h3	h5		l4	l5	f offset
VBTH-D1 72 40-F5	SV310315	72	40	81	40	±0.02	72	41	±0.02	39	110	5
VBTH-D1 72 50-F5	SV310318	72	50	85	45		72	41		39	110	5

VERTICAL-BORING TOOL HOLDER OFFSET

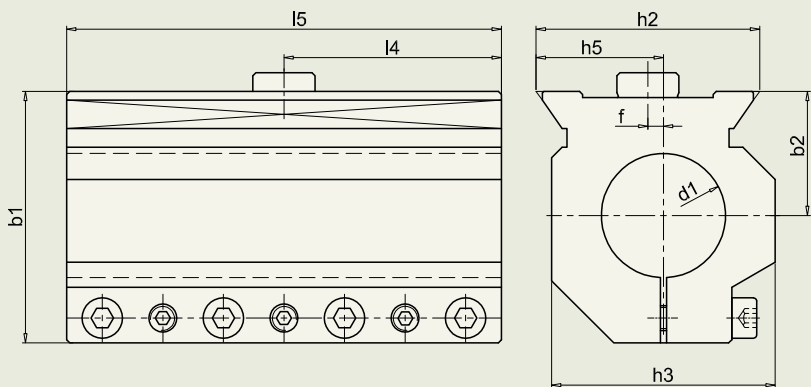
FORM D2



ITEM NAME	ARTICLE NO.	h2	d1	b1	b2		h3	h5		l4	l5	f offset
VBTH-D2 72 40-F5	SV310316	72	40	81	40	±0.02	72	41	±0.02	39	110	5
VBTH-D2 72 50-F5	SV310322	72	50	85	45		72	41		39	110	5

VERTICAL-BORING TOOL HOLDER OFFSET

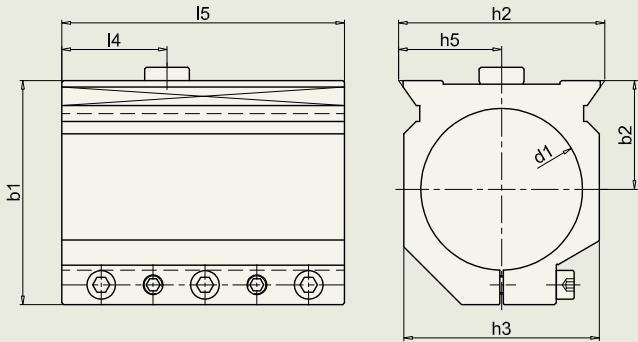
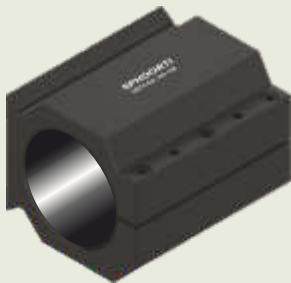
FORM D3



ITEM NAME	ARTICLE NO.	h2	d1	b1	b2		h3	h5		l4	l5	f offset
VBTH-D3 72 40-F5	SV310317	72	40	81	40	±0.02	72	41	±0.02	75	150	5
VBTH-D3 72 50-F5	SV310319	72	50	85	45		72	41		75	150	5

VERTICAL-BORING TOOL HOLDER

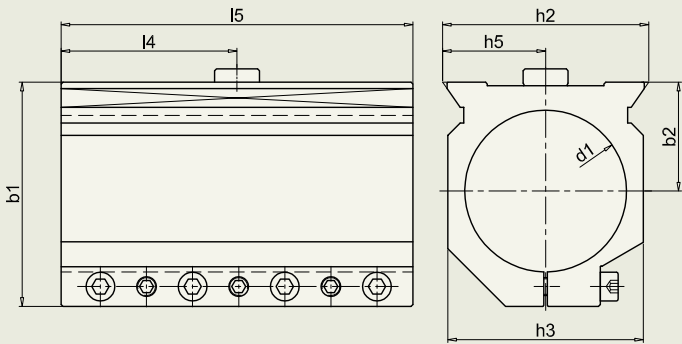
FORM D2



ITEM NAME	ARTICLE NO.	h2	d1	b1	b2		h3	h5	l4		l5
VBTH-D2 140 130	SV310196	140	130	180	90	±0.04	170	70	±0.04	70	220

VERTICAL-BORING TOOL HOLDER

FORM D3



ITEM NAME	ARTICLE NO.	h2	d1	b1	b2		h3	h5	l4		l5
VBTH-D3 140 4" L240	SV310183	140	4"	145	70	±0.04	140	70	±0.04	120	240
VBTH-D3 140 160 L250	SV310185	140	160	220	110		210	70		125	250
VBTH-D3 140 160 L320	SV310242	140	160	220	110		210	70		160	320
VBTH-D3 140 180 L320	SV310197	140	180	245	125		230	70		160	320

REDUCTION SLEEVES

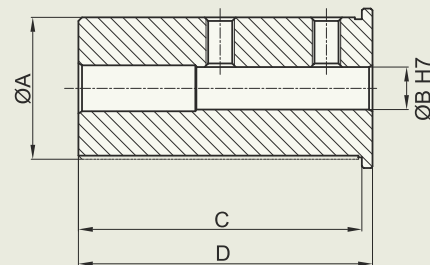
FOR BORING TOOL HOLDERS
CNC TURNING & TURN MILL CENTERS



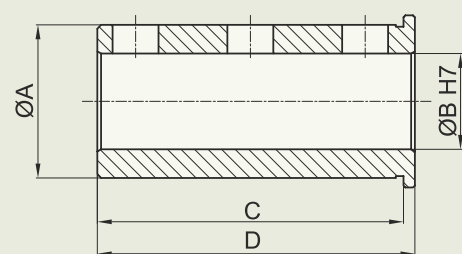
FEATURES

- Reduction sleeves are available to different sizes of tool shanks in BTH (Boring Tool Holders).
- Available in Type A, B & C as our standards.
- Type A to clamp the tools within sleeves for smaller tool shanks.
- Type B to clamp the tools BTH itself for smaller boring bars, U-drills & etc.
- Type C to hold morse Taper tool shanks.
- Type A & B made out of medium carbon steel and toughened to 20 $\pm$ 2 HRC.
- Type C made out of medium carbon steel and toughened to 40 $\pm$ 2 HRC
- Customised design can be supplied upon request.

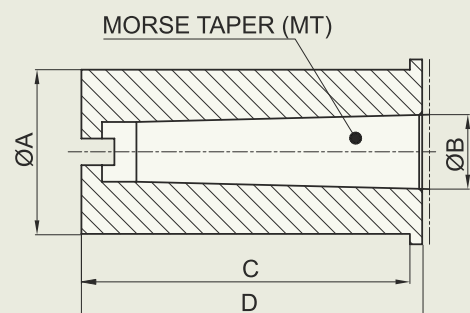
TYPE - A



TYPE - B



TYPE - C



REDUCTION SLEEVES FOR BORING BAR HOLDER FOR SPHOORTI MAKE

SPHOORTI
Precision Assured

ARTICLE NO.	A	B	C	D	TYPE	SUITS FOR TOOL HOLDER	SUITS FOR TOOL DISC	
SM16 2508	25	08	48	51	1	BTH 16-25 CH 18	TD 50-8-16 TD 63-8-16 TD 63-12-16 HTD-63-12-16	
SM16 2510	25	10	48	51	1			
SM16 2512	25	12	48	51	1			
SM16 2516	25	16	48	51	2			
SM16 2520	25	20	48	51	2			
SM20 2508	25	08	58	61	1	BTH 20-25 CH 18 BTH 20-25 CH 25	TD 50-8-20 TD 63-8-20 TD 80-8-20 HTD 63-8-20 HTD 80-8-20 TD 80-12-20 HTD 80-12-20	
SM20 2510	25	10	58	61	1			
SM20 2512	25	12	58	61	1			
SM20 2516	25	16	58	61	2			
SM20 2520	25	20	58	61	2			
SM20 25MT1	25	MT1	58	61	3	BTH 20-32 CH 18 BTH 20-32 CH 25 BTH 20-32 CH 30 BTH 20-32 CH 35		TD 50-8-20 TD 63-8-20 TD 80-8-20 HTD 63-8-20 HTD 80-8-20 TD 80-12-20 HTD 80-12-20
SM20 3208	32	08	58	61	1			
SM20 3210	32	10	58	61	1			
SM20 3212	32	12	58	61	1			
SM20 3216	32	16	58	61	1			
SM20 3220	32	20	58	61	2			
SM20 3225	32	25	58	61	2			
SM20 32MT1	32	MT1	57	60	3			
SM20 32MT2	32	MT2	70	73	3			
SM25 3208	32	08	78	81	1	BTH 25-32 CH 30 BTH 25-32 CH 40	TD 80-8-25 TD 100-8-25 HTD 80-8-25 HTD 100-8-25 HTD 125-8-25 TD 100-12-25 TD 125-12-25 HTD 100-12-25 HTD 125-12-25	
SM25 3210	32	10	78	81	1			
SM25 3212	32	12	78	81	1			
SM25 3216	32	16	78	81	1			
SM25 3220	32	20	78	81	2			
SM25 3225	32	25	78	81	2			
SM25 32MT1	32	MT1	77	80	3			
SM25 32MT2	32	MT2	78	81	3			
SM25 4008	40	08	78	81	1			
SM25 4010	40	10	78	81	1			
SM25 4012	40	12	78	81	1	BTH 25-40 CH 30 BTH 25-40 CH 40		TD 80-8-25 TD 100-8-25 HTD 80-8-25 HTD 100-8-25 HTD 125-8-25 TD 100-12-25 TD 125-12-25 HTD 100-12-25 HTD 125-12-25
SM25 4016	40	16	78	81	1			
SM25 4020	40	20	78	81	1			
SM25 4025	40	25	78	81	1			
SM25 4032	40	32	78	81	2			
SM25 40MT1	40	MT1	78	81	3			
SM25 40MT2	40	MT2	78	81	3			
SM25 40MT3	40	MT3	79	92	3			
SM32/40 4008	40	08	93	96	1	BTH 32-40 CH 40 BTH 32-40 CH 50 BTH 40-40 CH 35		
SM32/40 4010	40	10	93	96	1			
SM32/40 4012	40	12	93	96	1			
SM32/40 4016	40	16	93	96	1			
SM32/40 4020	40	20	93	96	1			
SM32/40 4025	40	25	93	96	1			
SM32/40 4032	40	32	93	96	2			
SM32/40 40MT1	40	MT1	80	83	3			
SM32/40 40MT2	40	MT2	80	83	3			
SM32/40 40MT3	40	MT3	79	92	3			
SM32/40 5016	50	16	93	96	1	BTH 32-50 CH 40 BTH 32-50 CH 50 BTH 40-50 CH 35	TD 100-8-32 TD 125-8-32 TD 160-8-32 HTD 125-8-32 TD 125-12-32 TD 160-12-32 HTD 125-12-32 TD 125-8-40	
SM32/40 5020	50	20	93	96	1			
SM32/40 5025	50	25	93	96	1			
SM32/40 5032	50	32	93	96	1			
SM32/40 5040	50	40	93	96	2			
SM32/40 50MT2	50	MT2	89	92	3			
SM32/40 50MT3	50	MT3	89	92	3			
SM32/40 50MT4	50	MT4	92	115	3			

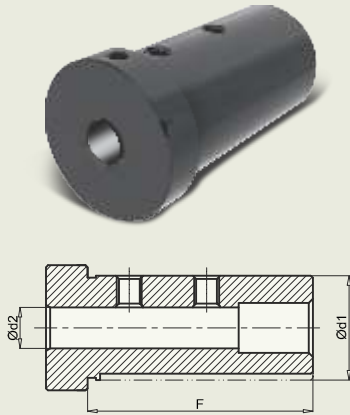
* Inch series sleeves are available upon request

REDUCTION SLEEVES FOR VDI TOOL HOLDER E1 & E2 BORING BAR HOLDER FOR SPHOORTI MAKE ONLY

SPHOORTI
Precision Assured

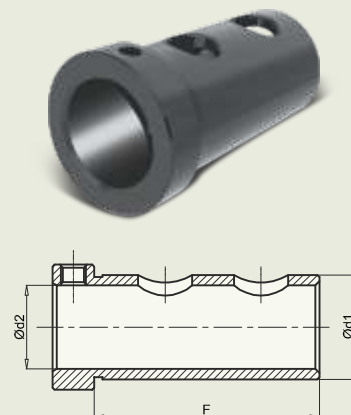
TYPE - A

(FOR E1 & E2 VARIETIES)



TYPE - B

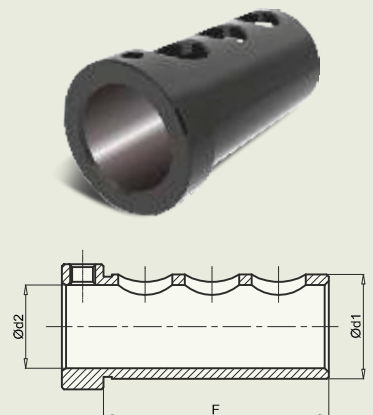
(FOR E1 VARIETIES)



(2 HOLES)

TYPE - C

(FOR E2 VARIETIES OF)



(3 HOLES)

07

ARTICLE NO.	Ød1	Ød2	F	SUITS FOR	
SM E 20 08	20	08	39	E1 20x20	E2 20x20
SM E 20 10		10		E1 25x20	E2 25x20
				E1 30x20	E2 30x20
				E1 40x20	E2 40x20
				E1 50x20	E2 50x20
				E1 60x20	E2 60x20
SM E 25 08	25	08	50	E1 20x25	E2 20x25
SM E 25 10		10		E1 25x25	E2 25x25
				E1 30x25	E2 30x25
SM E 25 12		12		E1 40x25	E2 40x25
				E1 50x25	E2 50x25
				E1 60x25	E2 60x25
SM E 32 08	32	08	59	E1 30x32	E2 30x32
SM E 32 10		10		E1 40x32	E2 40x32
				E1 50x32	E2 50x32
SM E 32 12		12		E1 60x32	E2 60x32
				E2 30x32	E2 40x32
				E2 50x32	E2 60x32
SM E 40 08	40	08	69	E1 30x40	E2 30x40
SM E 40 10		10		E1 40x40	E2 40x40
				E1 50x40	E2 50x40
SM E 40 12		12		E1 60x40	E2 60x40
SM E 40 16		16		E2 40x40	E2 50x40
SM E 40 20		20		E2 60x40	E2 60x40
SM E 50 08	50	08	80	E1 40x50	E2 40x50
SM E 50 10		10		E1 50x50	E2 50x50
				E1 60x50	E2 60x50
SM E 50 12		12		E2 40x50	E2 50x50
SM E 50 16		16		E2 50x50	E2 60x50
SM E 50 20		20		E2 60x50	E2 60x50

ARTICLE NO.	Ød1	Ød2	F	SUITS FOR	
SM E1 20 12	20	12	52	E1 20x20	E1 25x20
				E1 30x20	E1 40x20
				E1 50x20	E1 60x20
SM E1 20 16	20	16	52	E1 20x20	E1 25x20
				E1 30x20	E1 40x20
				E1 50x20	E1 60x20
SM E1 25 16	25	16	50	E1 20x25	E1 25x25
				E1 30x25	E1 40x25
				E1 50x25	E1 60x25
SM E1 25 20	25	20	50	E1 20x25	E1 25x25
				E1 30x25	E1 40x25
				E1 50x25	E1 60x25
SM E1 32 20	32	20	59	E1 30x32	E1 40x32
				E1 50x32	E1 60x32
SM E1 32 25	32	25	59	E1 30x32	E1 40x32
				E1 50x32	E1 60x32
SM E1 40 25	40	25	69	E1 30x40	E1 40x40
				E1 50x40	E1 60x40
SM E1 40 32	40	32	69	E1 30x40	E1 40x40
				E1 50x40	E1 60x40
SM E1 50 25	50	25	80	E1 40x50	E1 50x50
				E1 60x50	E1 60x50
SM E1 50 32	50	32	80	E1 40x50	E1 50x50
				E1 60x50	E1 60x50
SM E1 50 40	50	40	80	E1 40x50	E1 50x50
				E1 60x50	E1 60x50

ARTICLE NO.	Ød1	Ød2	F	SUITS FOR	
SM E2 20 12 L39	20	12	39	E2 20x20	E2 25x20
				E2 30x20	E2 30x20
SM E2 20 12 L52	20	12	52	E2 40x20	E2 50x20
				E2 60x20	E2 60x20
SM E2 20 16 L39	20	16	39	E2 20x20	E2 25x20
				E2 30x20	E2 30x20
SM E2 20 16 L52	20	16	52	E2 40x20	E2 50x20
				E2 60x20	E2 60x20
SM E2 25 16	25	16	50	E2 20x25	E2 25x25
				E2 30x25	E2 40x25
SM E2 25 20	25	20	50	E2 40x25	E2 50x25
				E2 60x25	E2 60x25
SM E2 32 20	32	20	59	E2 30x32	E2 40x32
				E2 50x32	E2 60x32
SM E2 32 25	32	25	59	E2 30x32	E2 40x32
				E2 50x32	E2 60x32
SM E2 40 25	40	25	69	E2 30x40	E2 40x40
				E2 50x40	E2 60x40
SM E2 40 32	40	32	69	E2 30x40	E2 40x40
				E2 50x40	E2 60x40
SM E2 50 25	50	25	80	E2 40x50	E2 50x50
				E2 60x50	E2 60x50
SM E2 50 32	50	32	80	E2 40x50	E2 50x50
				E2 60x50	E2 60x50
SM E2 50 40	50	40	80	E2 40x50	E2 50x50
				E2 60x50	E2 60x50

* Made out of C45 material & toughen to 20±2 HRC

REDUCTION SLEEVES FOR VDI TOOL HOLDER E1 & E2 BORING BAR HOLDER FOR OTHER MAKE

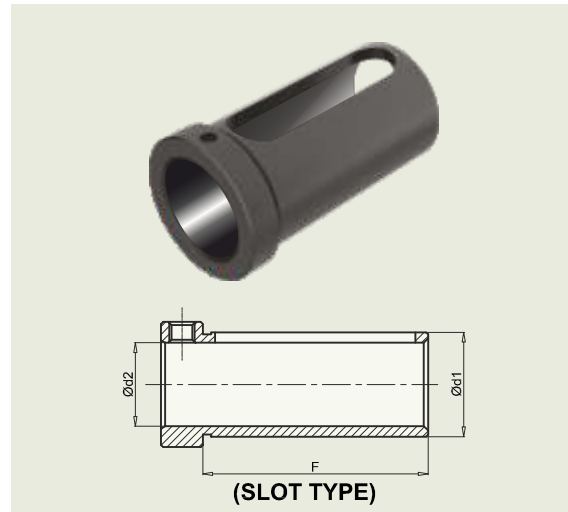
SPHOORTI
Precision Assured

TYPE - A



ARTICLE NO.	Ød1	Ød2	F	SUITS FOR	
SM E 20 08	20	08	39	E1 20x20 E1 25x20 E1 30x20 E1 40x20 E1 50x20 E1 60x20	E2 20x20 E2 25x20 E2 30x20 E2 40x20 E2 50x20 E2 60x20
SM E 20 10		10			
SM E 25 08		08			
SM E 25 10		10			
SM E 25 12	25	12	50	E1 20x25 E1 25x25 E1 30x25 E1 40x25 E1 50x25 E1 60x25	E2 20x25 E2 25x25 E2 30x25 E2 40x25 E2 50x25 E2 60x25
SM E 32 08		08		E1 30x32 E1 40x32 E1 50x32 E1 60x32 E2 30x32 E2 40x32 E2 50x32 E2 60x32	
SM E 32 10		10			
SM E 32 12		12			
SM E 32 16		16			
SM E 40 08	40	08	69	E1 30x40 E1 40x40 E1 50x40 E1 60x40 E2 40x40 E2 50x40 E2 60x40	
SM E 40 10		10			
SM E 40 12		12			
SM E 40 16		16			
SM E 40 20		20			
SM E 50 08	50	08	80	E1 40x50 E1 50x50 E1 60x50 E2 40x50 E2 50x50 E2 60x50	
SM E 50 10		10			
SM E 50 12		12			
SM E 50 16		16			
SM E 50 20		20			

TYPE - B



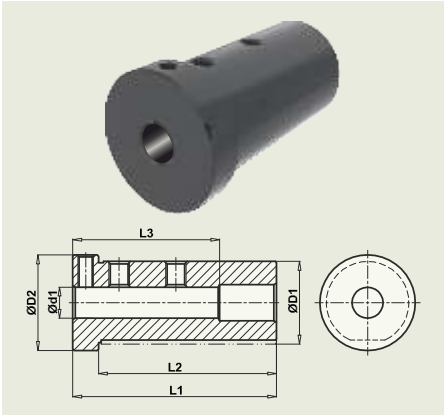
ARTICLE NO.	Ød1	Ød2	F	SUITS FOR	
SMK E 20 12 L39	20	12	39	E2 20x20 E2 25x20 E2 30x20	
SMK E 20 12 L52		52		E1 20x20 E1 25x20 E1 30x20 E1 40x20 E1 50x20 E1 60x20	E2 40x20 E2 50x20 E2 60x20
SMK E 20 16 L39		16	39	E2 20x20 E2 25x20 E2 30x20	
SMK E 20 16 L52		52		E1 20x20 E1 25x20 E1 30x20 E1 40x20 E1 50x20 E1 60x20	E2 40x20 E2 50x20 E2 60x20
SMK E 25 16	25	16	50	E1 20x25 E1 25x25 E1 30x25 E1 40x25 E1 50x25 E1 60x25	E2 20x25 E2 25x25 E2 30x25 E2 40x25 E2 50x25 E2 60x25
SMK E 25 20		20			
SMK E 32 20	32	20	59	E1 30x32 E1 40x32 E1 50x32 E1 60x32	E2 30x32 E2 40x32 E2 50x32 E2 60x32
SMK E 32 25		25			
SMK E 40 25	40	25	69	E1 30x40 E1 40x40 E1 50x40 E1 60x40	E2 30x40 E2 40x40 E2 50x40 E2 60x40
SMK E 40 32		32			
SMK E 50 25	50	25	80	E1 40x50 E1 50x50 E1 60x50	E2 40x50 E2 50x50 E2 60x50
SMK E 50 32		32			
SMK E 50 40		40			

* Made out of C45 material & toughen to 20±2 HRC

REDUCTION SLEEVES
FOR VDI TOOL HOLDER-RBTH
BORING BAR HOLDER FOR SPHOORTI MAKE ONLY



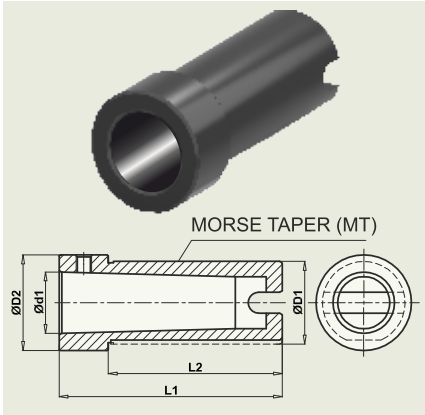
TYPE - A



TYPE - B



TYPE - C



ARTICLE NO.	ØD1	ØD2	Ød1	L1	L2	L3	SUITS FOR
SM RBTH 25/30 25 08	25	30	08	79	69	57	RBTH 25 25 CH75 RBTH 30 25 CH85 RBTH 30 25 CH100
SM RBTH 25/30 25 10			10			57	
SM RBTH 25/30 25 12			12			57	
SM RBTH 25/30 32 08	32	37	08	79	69	57	RBTH 25 32 CH75 RBTH 30 32 CH85 RBTH 30 32 CH100
SM RBTH 25/30 32 10			10			57	
SM RBTH 25/30 32 12			12			57	
SM RBTH 25/30 32 16			16			79	
SM RBTH 30 40 08	40	45	08	79	69	57	RBTH 30 40 CH85 RBTH 30 40 CH100
SM RBTH 30 40 10			10			57	
SM RBTH 30 40 12			12			57	
SM RBTH 30 40 16			16			79	
SM RBTH 40 25 08	25	30	08	85	75	50	RBTH 40 25 CH100 RBTH 40 25 CH120
SM RBTH 40 25 10			10			50	
SM RBTH 40 25 12			12			50	
SM RBTH 40 25 16			16			75	
SM RBTH 40 32 08	32	37	08	85	75	50	RBTH 40 32 CH100 RBTH 40 32 CH120
SM RBTH 40 32 10			10			50	
SM RBTH 40 32 12			12			50	
SM RBTH 40 32 16			16			75	
SM RBTH 40 40 08	40	45	08	85	75	50	RBTH 40 40 CH100 RBTH 40 40 CH120
SM RBTH 40 40 10			10			50	
SM RBTH 40 40 12			12			50	
SM RBTH 40 40 16			16			75	

* Made out of C45 material & toughen to 20±2 HRC

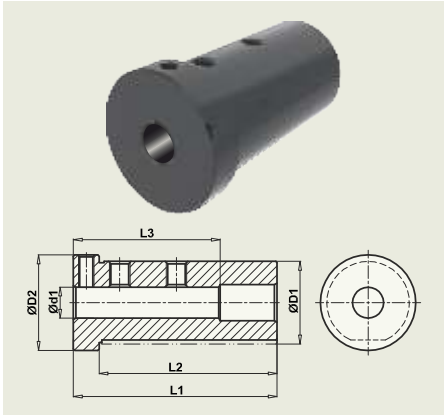
ARTICLE NO.	ØD1	ØD2	Ød1	L1	L2	SUITS FOR
SM RBTH 25/30 25 16	25	30	16	79	69	RBTH 25 25 CH75 RBTH 30 25 CH85 RBTH 30 25 CH100
SM RBTH 25/30 25 20			20			
SM RBTH 25/30 32 20	32	37	20	79	69	RBTH 25 32 CH75 RBTH 30 32 CH85 RBTH 30 32 CH100
SM RBTH 25/30 32 25			25			
SM RBTH 30 40 20			20			
SM RBTH 30 40 25	40	45	25	79	69	RBTH 30 40 CH85 RBTH 30 40 CH100
SM RBTH 30 40 32			32			
SM RBTH 40 25 20	25	30	20	85	75	RBTH 40 25 CH100 RBTH 40 25 CH120
SM RBTH 40 32 20			20			
SM RBTH 40 32 25			25			
SM RBTH 40 40 20	40	45	20	85	75	RBTH 40 40 CH100 RBTH 40 40 CH120
SM RBTH 40 40 25			25			
SM RBTH 40 40 32			32			

ARTICLE NO.	ØD1	ØD2	Ød1	L1	L2	SUITS FOR
SM RBTH 25/30 25 MT1	25	30	MT1	79	69	RBTH 25 25 CH75 RBTH 30 25 CH85 RBTH 30 25 CH100
SM RBTH 25/30 25 MT2			MT2			
SM RBTH 25/30 25 MT3			MT3			
SM RBTH 25/30 32 MT1	32	37	MT1	79	69	RBTH 25 32 CH75 RBTH 30 32 CH85 RBTH 30 32 CH100
SM RBTH 25/30 32 MT2			MT2			
SM RBTH 25/30 32 MT3			MT3			
SM RBTH 30 40 MT1	40	45	MT1	79	69	RBTH 30 40 CH85 RBTH 30 40 CH100
SM RBTH 30 40 MT2			MT2			
SM RBTH 30 40 MT3			MT3			
SM RBTH 40 25 MT1	25	30	MT1	85	75	RBTH 40 25 CH100 RBTH 40 25 CH120
SM RBTH 40 25 MT2			MT2			
SM RBTH 40 25 MT3			MT3			
SM RBTH 40 32 MT1	32	37	MT1	85	75	RBTH 40 32 CH100 RBTH 40 32 CH120
SM RBTH 40 32 MT2			MT2			
SM RBTH 40 32 MT3			MT3			
SM RBTH 40 40 MT1	40	45	MT1	85	75	RBTH 40 40 CH100 RBTH 40 40 CH120
SM RBTH 40 40 MT2			MT2			
SM RBTH 40 40 MT3			MT3			

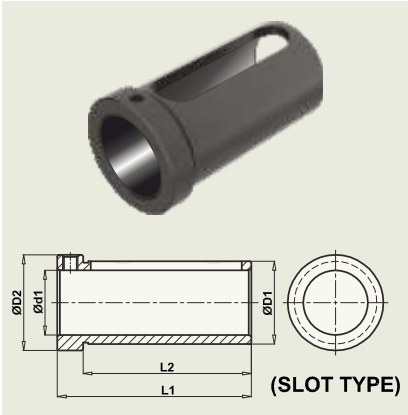
* Made out of EN19 material & toughen to 40±2 HRC

REDUCTION SLEEVES
FOR VDI TOOL HOLDER-RBTH
BORING BAR HOLDER FOR OTHER MAKE

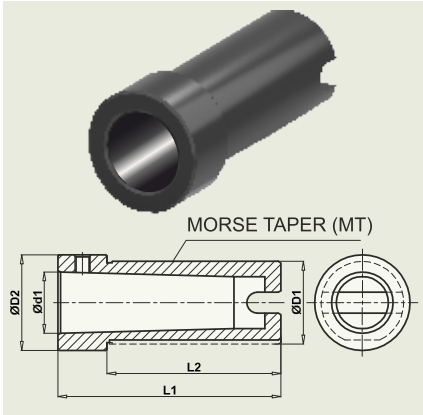
TYPE - A



TYPE - B



TYPE - C



ARTICLE NO.	ØD1	ØD2	Ød1	L1	L2	L3	SUITS FOR
SM RBTH 25/30 25 08	25	30	08	79	69	57	RBTH 25 25 CH75 RBTH 30 25 CH85 RBTH 30 25 CH100 & BORE Ø25
SM RBTH 25/30 25 10			10			57	
SM RBTH 25/30 25 12			12			57	
SM RBTH 25/30 32 08	32	37	08	79	69	57	RBTH 25 32 CH75 RBTH 30 32 CH85 RBTH 30 32 CH100 & BORE Ø32
SM RBTH 25/30 32 10			10			57	
SM RBTH 25/30 32 12			12			57	
SM RBTH 25/30 32 16			16			79	
SM RBTH 30 40 08	40	45	08	79	69	57	RBTH 30 40 CH85 RBTH 30 40 CH100 & BORE Ø40
SM RBTH 30 40 10			10			57	
SM RBTH 30 40 12			12			57	
SM RBTH 30 40 16			16			79	
SM RBTH 40 25 08	25	30	08	85	75	50	RBTH 40 25 CH100 RBTH 40 25 CH120 & BORE Ø25
SM RBTH 40 25 10			10			50	
SM RBTH 40 25 12			12			50	
SM RBTH 40 25 16			16			75	
SM RBTH 40 32 08	32	37	08	85	75	50	RBTH 40 32 CH100 RBTH 40 32 CH120 & BORE Ø32
SM RBTH 40 32 10			10			50	
SM RBTH 40 32 12			12			50	
SM RBTH 40 32 16			16			75	
SM RBTH 40 40 08	40	45	08	85	75	50	RBTH 40 40 CH100 RBTH 40 40 CH120 & BORE Ø40
SM RBTH 40 40 10			10			50	
SM RBTH 40 40 12			12			50	
SM RBTH 40 40 16			16			75	

* Made out of C45 material & toughen to 20±2 HRC

ARTICLE NO.	ØD1	ØD2	Ød1	L1	L2	SUITS FOR
SMK RBTH 25/30 25 16	25	30	16	79	69	RBTH 25 25 CH75 RBTH 30 25 CH85 RBTH 30 25 CH100 & BORE Ø25
SMK RBTH 25/30 25 20			20			
SMK RBTH 25/30 32 20	32	37	20	79	69	RBTH 25 32 CH75 RBTH 30 25 CH85 RBTH 30 32 CH100 & BORE Ø32
SMK RBTH 25/30 32 25			25			
SMK RBTH 30 40 20	40	45	20	79	69	RBTH 30 40 CH85 RBTH 30 40 CH100 & BORE Ø40
SMK RBTH 30 40 25			25			
SMK RBTH 30 40 32			32			
SMK RBTH 40 25 20	25	30	20	85	75	RBTH 40 25 CH100 RBTH 40 25 CH120 & BORE Ø25
SMK RBTH 40 32 20	32	37	20	85	75	RBTH 40 32 CH100 RBTH 40 32 CH120 & BORE Ø32
SMK RBTH 40 32 25			25			
SMK RBTH 40 40 20	40	45	20	85	75	RBTH 40 40 CH100 RBTH 40 40 CH120 & BORE Ø40
SMK RBTH 40 40 25			25			
SMK RBTH 40 40 32			32			

ARTICLE NO.	ØD1	ØD2	Ød1	L1	L2	SUITS FOR
SM RBTH 25/30 25 MT1	25	30	MT1	79	69	RBTH 25 25 CH75 RBTH 30 25 CH85 RBTH 30 25 CH100 & BORE Ø25
SM RBTH 25/30 25 MT2			MT2			
SM RBTH 25/30 25 MT3			MT3			
SM RBTH 25/30 32 MT1	32	37	MT1	79	69	RBTH 25 32 CH75 RBTH 30 32 CH85 RBTH 30 32 CH100 & BORE Ø32
SM RBTH 25/30 32 MT2			MT2			
SM RBTH 25/30 32 MT3			MT3			
SM RBTH 30 40 MT1	40	45	MT1	79	69	RBTH 30 40 CH85 RBTH 30 40 CH100 & BORE Ø40
SM RBTH 30 40 MT2			MT2			
SM RBTH 30 40 MT3			MT3			
SM RBTH 40 25 MT1	25	30	MT1	85	75	RBTH 40 25 CH100 RBTH 40 25 CH120 & BORE Ø25
SM RBTH 40 25 MT2			MT2			
SM RBTH 40 25 MT3			MT3			
SM RBTH 40 32 MT1	32	37	MT1	85	75	RBTH 40 32 CH100 RBTH 40 32 CH120 & BORE Ø32
SM RBTH 40 32 MT2			MT2			
SM RBTH 40 32 MT3			MT3			
SM RBTH 40 40 MT1	40	45	MT1	85	75	RBTH 40 40 CH100 RBTH 40 40 CH120 & BORE Ø40
SM RBTH 40 40 MT2			MT2			
SM RBTH 40 40 MT3			MT3			

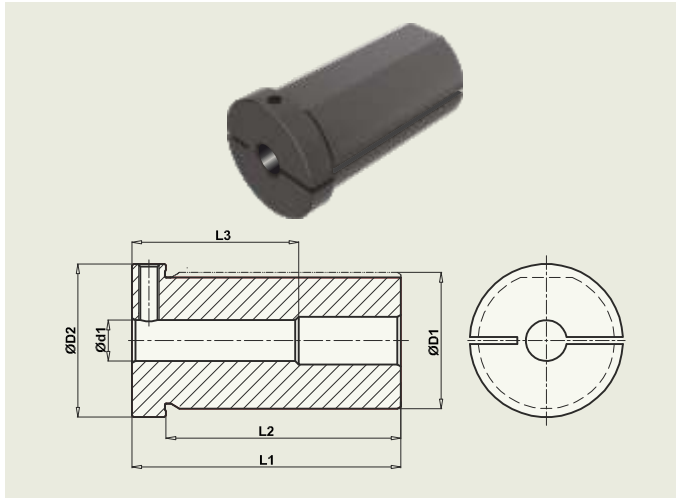
* Made out of EN19 material & toughen to 40±2 HRC

REDUCTION SLEEVES SLIT TYPE FOR VDI TOOL HOLDER E1, E2 & RBTH BORING BAR HOLDER ONLY

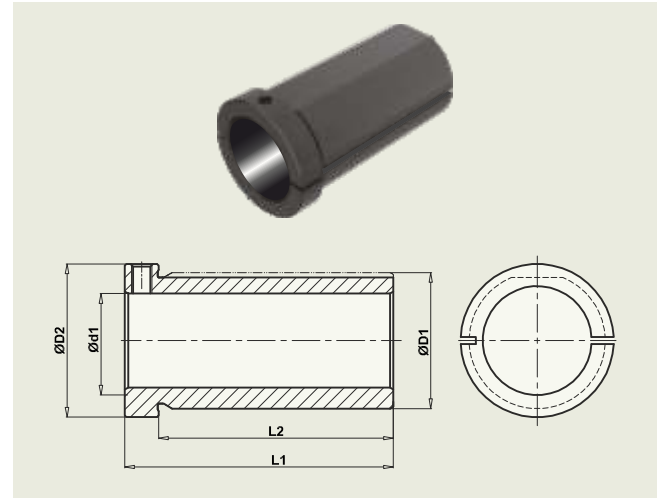
SPHOORTI
Precision Assured

FEATURE:- Full shank holding to avoid chattering and achieve good surface finish on work piece

TYPE - A



TYPE - B



ARTICLE NO.	ØD1	ØD2	Ød1	L1	L2	L3	SUITS FOR VDI TOOL HOLDER
SMS E 25 08	25	30	08	60	50	50	E1 20x25 E1 25x25 E1 30x25 E1 40x25 E1 50x25 E1 60x25 E2 20x25 E2 25x25 E2 30x25 E2 40x25 E2 50x25 E2 60x25
SMS E 25 10			10			50	
SMS E 25 12			12			50	
SMS E 25 14			14			50	
SMS E 32 08	32	37	08	69	59	50	E1 30x32 E1 40x32 E1 50x32 E1 60x32 E2 25x32 E2 30x32 E2 40x32 E2 50x32 E2 60x32
SMS E 32 10			10			50	
SMS E 32 12			12			50	
SMS E 32 14			14			50	
SMS E 40 08	40	45	08	79	69	50	E1 30x40 E1 40x40 E1 50x40 E1 60x40 E2 30x40 E2 40x40 E2 50x40 E2 60x40
SMS E 40 10			10			50	
SMS E 40 12			12			50	
SMS E 40 14			14			50	
SMS E 50 08	50	55	08	90	80	50	E1 40x50 E1 50x50 E1 60x50 E2 40x50 E2 50x50 E2 60x50
SMS E 50 10			10			50	
SMS E 50 12			12			50	
SMS E 50 14			14			50	

ARTICLE NO.	ØD1	ØD2	Ød1	L1	L2	SUITS FOR VDI TOOL HOLDER	
SMS E 20 08	20	25	08	49	39	E1 20x20	E2 20x20
SMS E 20 10			10			E1 25x20	E2 25x20
SMS E 20 12			12			E1 30x20	E2 30x20
SMS E 20 14			14			E1 40x20	E2 40x20
SMS E 20 16	25	30	16	60	50	E1 50x20	E2 50x20
SMS E 25 16			16			E1 60x20	E2 60x20
SMS E 25 18			18			E1 20x25	E2 20x25
SMS E 25 20			20			E1 25x25	E2 25x25
SMS E 32 16	32	37	16	69	59	E1 30x25	E2 30x25
SMS E 32 18			18			E1 40x25	E2 40x25
SMS E 32 20			20			E1 50x25	E2 50x25
SMS E 32 25			25			E1 60x25	E2 60x25
SMS E 40 16	40	45	16	79	69	E1 30x32	E2 30x32
SMS E 40 18			18			E1 40x32	E2 40x32
SMS E 40 20			20			E1 50x32	E2 50x32
SMS E 40 25			25			E1 60x32	E2 60x32
SMS E 40 32	50	55	32	90	80	E1 30x40	E2 30x40
SMS E 50 16			16			E1 40x40	E2 40x40
SMS E 50 18			18			E1 50x40	E2 50x40
SMS E 50 20			20			E1 60x40	E2 60x40
SMS E 50 25	60	65	25	100	90	E2 30x40	E2 40x40
SMS E 50 32			32			E2 50x40	E2 60x40
SMS E 50 40			40			E1 40x50	E1 50x50
SMS E 60 20			20			E1 60x60	E2 40x50
SMS E 60 25	60	65	25	100	90	E2 50x50	E2 60x50
SMS E 60 32			32			E1 40x50	E1 50x50
SMS E 60 40			40			E1 60x60	E2 40x50
SMS E 60 50			50			E2 50x50	E2 60x50

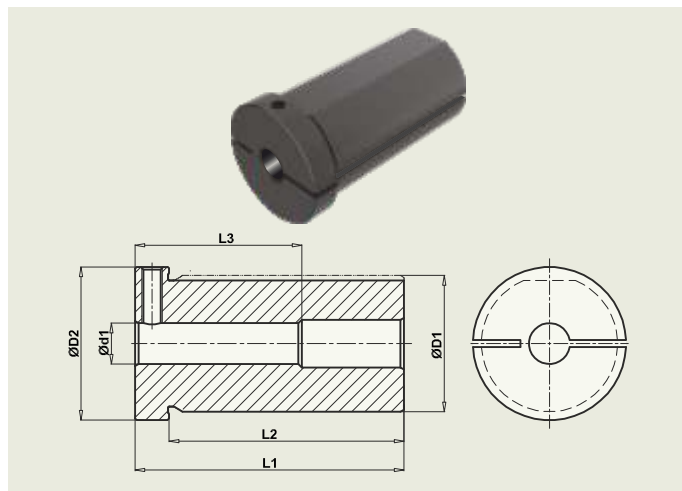
* Made out of En47 material & hardening to 54±2 HRC

REDUCTION SLEEVES SLIT TYPE FOR BMT & BOT TOOL HOLDER

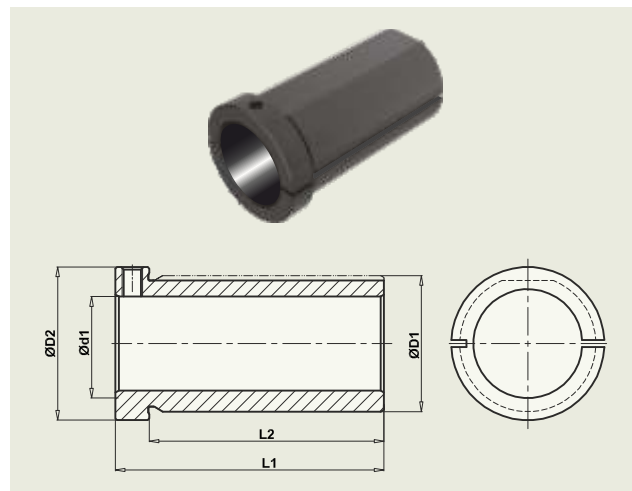
SPHOORTI
Precision Assured

FEATURE:- Full shank holding to avoid chattering and achieve good surface finish on work piece

TYPE - A



TYPE - B



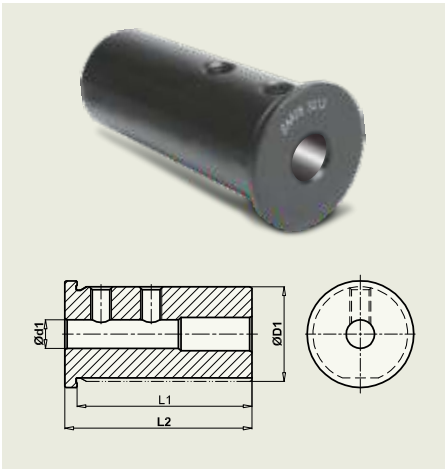
ARTICLE NO.	ØD1	ØD2	Ød1	L1	L2	L3	SUITS FOR BMT & BOT TOOL HOLDER
SMS E 25 08	25	30	08	60	50	50	BORE Ø25
SMS E 25 10			10			50	
SMS E 25 12			12			50	
SMS E 25 14			14			50	
SMS E 32 08	32	37	08	69	59	50	BORE Ø32
SMS E 32 10			10			50	
SMS E 32 12			12			50	
SMS E 32 14			14			50	
SMS E 40 08	40	45	08	79	69	50	BORE Ø40
SMS E 40 10			10			50	
SMS E 40 12			12			50	
SMS E 40 14			14			50	
SMS E 50 08	50	55	08	90	80	50	BORE Ø50
SMS E 50 10			10			50	
SMS E 50 12			12			50	
SMS E 50 14			14			50	

ARTICLE NO.	ØD1	ØD2	Ød1	L1	L2	SUITS FOR BMT & BOT TOOL HOLDER
SMS E 20 08	20	25	08	49	39	BORE Ø20
SMS E 20 10			10			
SMS E 20 12			12			
SMS E 20 14			14			
SMS E 20 16	25	30	16	60	50	BORE Ø25
SMS E 25 16			18			
SMS E 25 18			20			
SMS E 25 20			25			
SMS E 32 16	32	37	16	69	59	BORE Ø32
SMS E 32 18			18			
SMS E 32 20			20			
SMS E 32 25			25			
SMS E 40 16	40	45	16	79	69	BORE Ø40
SMS E 40 18			18			
SMS E 40 20			20			
SMS E 40 25			25			
SMS E 40 32	50	55	32	90	80	BORE Ø50
SMS E 50 16			16			
SMS E 50 18			18			
SMS E 50 20			20			
SMS E 50 25	60	65	25	100	90	BORE Ø60
SMS E 50 32			32			
SMS E 50 40			40			
SMS E 60 20			20			
SMS E 60 25	60	65	25	100	90	BORE Ø60
SMS E 60 32			32			
SMS E 60 40			40			
SMS E 60 50			50			

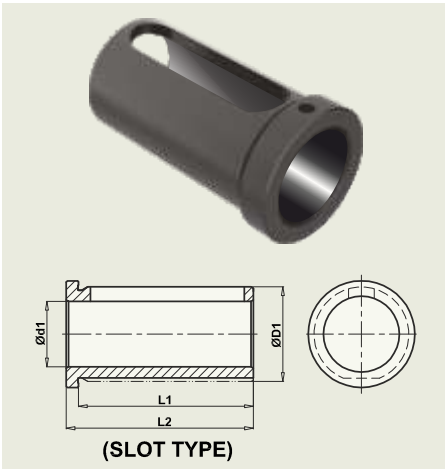
* Made out of En47 material & hardening to 54±2 HRC

07

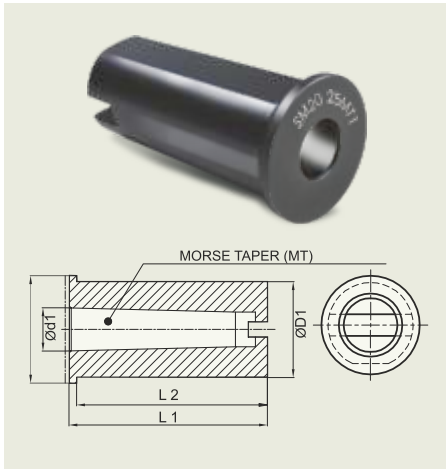
TYPE - A



TYPE - B



TYPE - C



ARTICLE NO.	ØD1	Ød1	L1	L2	SUITS FOR BMT TOOL HOLDER
SM16 2508	25	08	48	51	BORE Ø25
SM16 2510		10			
SM20 2508	25	08	58	61	BORE Ø25
SM20 2510		10			
SM20 3208	32	08	58	61	BORE Ø32
SM20 3210		10			
SM20 3212		12			
SM25 3208		08			
SM25 3210	32	10	78	81	BORE Ø32
SM25 3212		12			
SM25 4008	40	08	78	81	BORE Ø40
SM25 4010		10			
SM25 4012		12			
SM25 4016		16			
SM32/40 4008	40	08	93	96	BORE Ø40
SM32/40 4010		10			
SM32/40 4012		12			
SM32/40 4016		16			
SM32/40 4020	50	16	93	96	BORE Ø50
SM32/40 5016		20			
SM32/40 5020	60	16	120	123	BORE Ø60
SM 6016 L120		20			
SM 6020 L120	60	20	120	123	BORE Ø60
SM 6025 L120		25			

* Made out of C45 material & toughen to 20±2 HRC

ARTICLE NO.	ØD1	Ød1	L1	L2	SUITS FOR BMT TOOL HOLDER
SMK 2512 L48	25	12	48	51	BORE Ø25
SMK 2516 L48		16			
SMK 2520 L48		20			
SMK 2512 L58		12	58	61	
SMK 2516 L58		16			
SMK 2520 L58		20			
SMK 3216 L58	32	16	58	61	BORE Ø32
SMK 3220 L58		20			
SMK 3225 L58		25			
SMK 3216 L78		16	78	81	
SMK 3220 L78		20			
SMK 3225 L78		25			
SMK 4020 L78	40	20	78	81	BORE Ø40
SMK 4025 L78		25			
SMK 4032 L78		32			
SMK 4025 L93		25	93	96	
SMK 4032 L93		32			
SMK 5025 L93	50	25	93	96	BORE Ø50
SMK 5032 L93		32			
SMK 5040 L93		40			
SMK 6032 L120	60	32	120	123	BORE Ø60
SMK 6040 L120		40			
SMK 6050 L120		50			

ARTICLE NO.	ØD1	Ød1	L1	L2	SUITS FOR BMT TOOL HOLDER
SM20 25MT1	25	MT1	58	61	BORE Ø25
SM20 32MT1	32	MT1	57	60	BORE Ø32
SM20 32MT2		MT2	70	73	
SM25 32MT1	32	MT1	77	80	BORE Ø32
SM25 32MT2		MT2	78	81	
SM25 40MT1	40	MT1	78	81	BORE Ø40
SM25 40MT2		MT2			
SM25 40MT3		MT3	79	92	
SM32/40 40MT1	40	MT1	80	83	BORE Ø40
SM32/40 40MT2		MT2			
SM32/40 40MT3		MT3	79	92	
SM32/40 50MT2	50	MT2	89	92	BORE Ø50
SM32/40 50MT3		MT3			
SM32/40 50MT4		MT4	92	115	

* Made out of EN19 material & toughen to 40±2 HRC

SPHOORTI

Precision Assured

BMT PSC (CAPTO - COMPATIBLE) TOOL HOLDERS

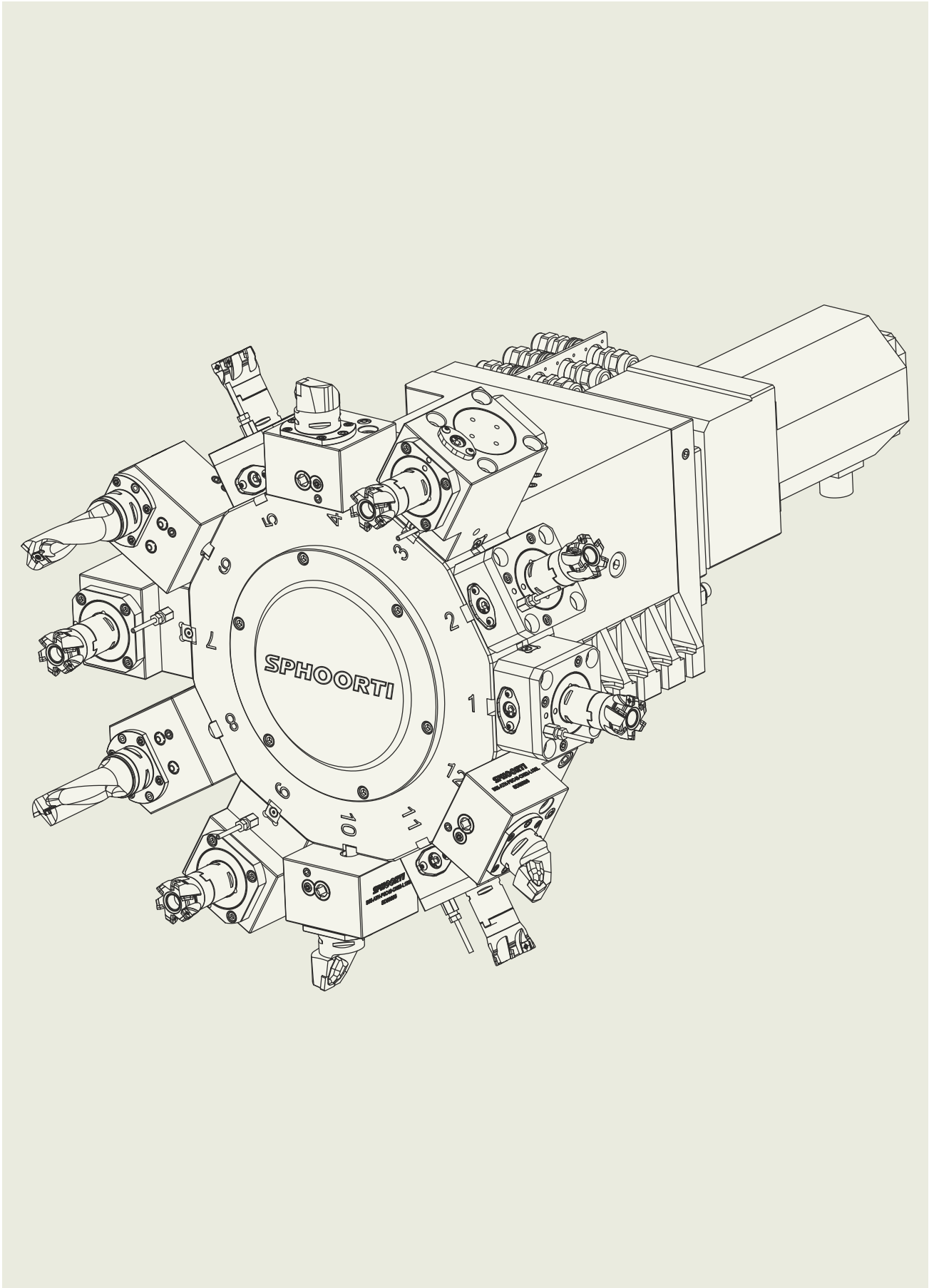
FOR CNC TURN MILL CENTER



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BMT PSC (CAPTO-COMPATIBLE) TOOL HOLDERS ASSEMBLED WITH TURRET



COMPATIBLE WITH
MACHINE MANUFACTURER

- DOOSAN

- DN SOLUTION

- DMG MORI

- HYUNDAI WIA

- HWACHEON

- SAMSUNG

- SMART

- SMEC

- HARDINGE

- VICTOR
- ACE

- BFW

- LMW

- JYOTI

- GOODWAY

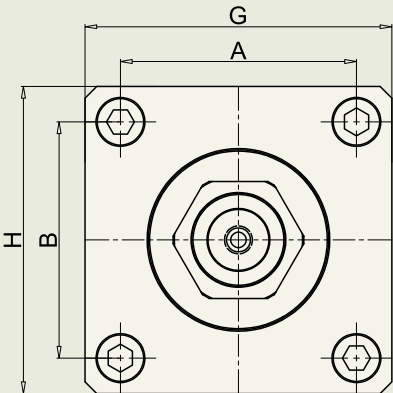
- LEADWELL

- SPINNER

- HAAS

- HURCO

- ROMI



COMPATIBLE WITH TURRETS &
HOLDERS MANUFACTURER

- TURRET MAKE

- SAUTER

- PRAGATI

- DUPLOMATIC

- BARUFFALDI

- EWS
- TOOL HOLDER MAKE

- WTO

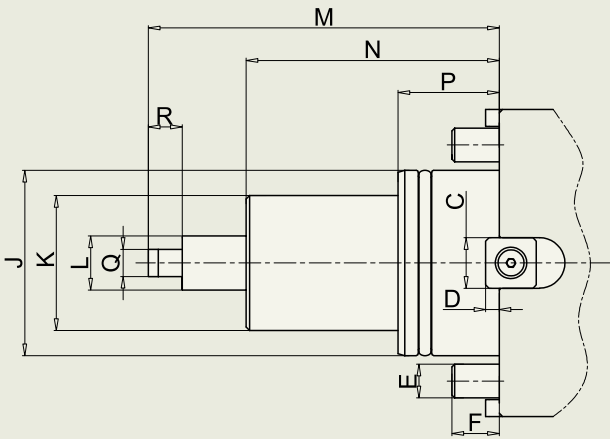
- EWS

- EPPINGER

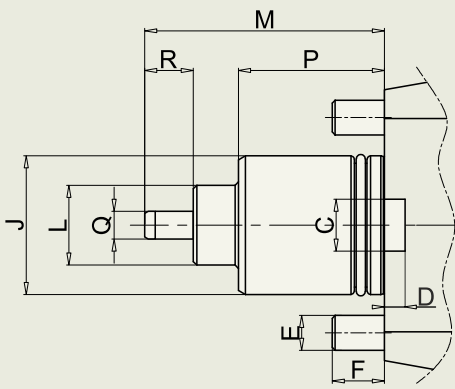
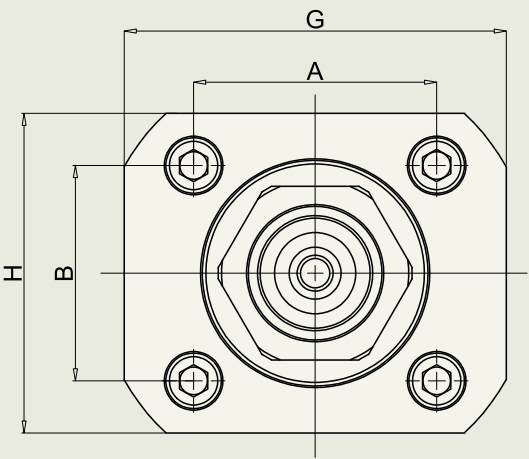
- HEIMATEC

- BENZ

- MT



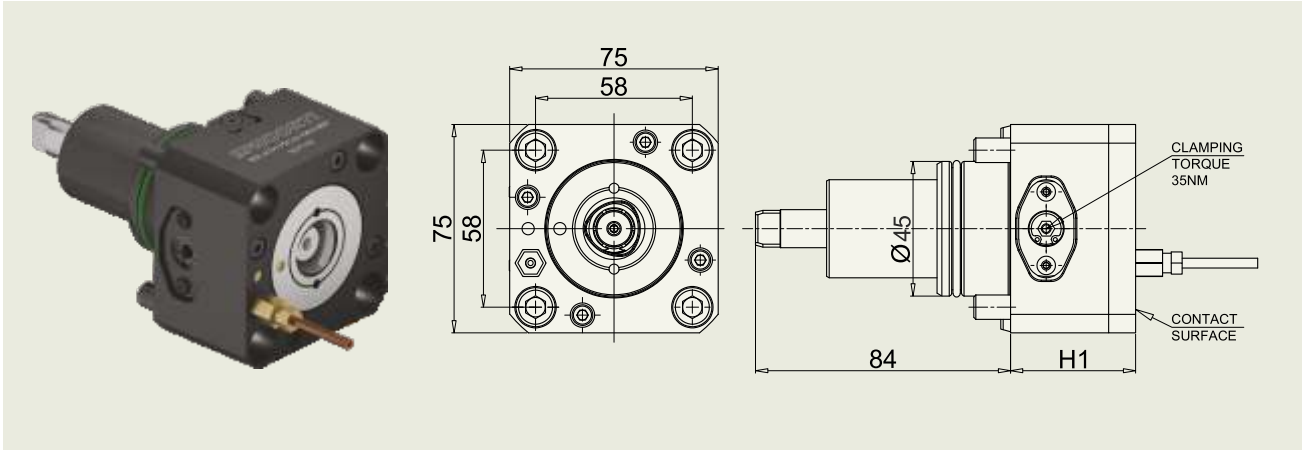
ITEM NAME	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
BMT45	58	58	15	4	M8	10	75	75	45	35	14	84	60	40	6	8.5
BMT55	64	64	15	4	M10	14	85	85	55	40	16	104	75	30	8	8.5
BMT65	70	73	18	5	M12	15	94	94	65	45	18	112	83	32	10	14



ITEM NAME	A	B	C	D	E	F	G	H	J	L	M	P	Q	R
BMT40	70	62	12	5.5	M10	10/15	110	92	40	21	69	42	7.85	14
BMT60	94	84	20	5.5	M12	12/18	130	108	60	22.7	91	53	7.85	16.5

* BMT PSC (Capto-Compatible) Driven Tool Holders can be supplied as per customer drawing.

AXIAL TOOL HOLDER

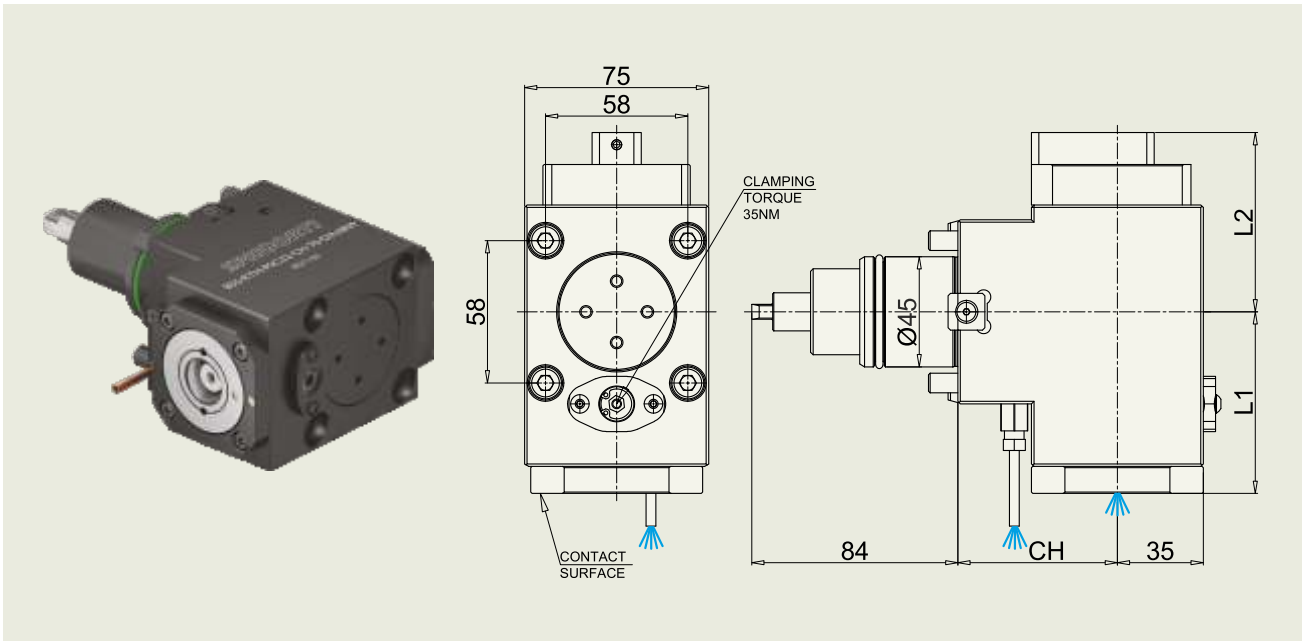


EC - External Coolant

RATIO 1:1

ITEM NAME	ARTICLE NO.	PSC TYPE	COOLANT	H1	OUTPUT TORQUE Nm	RPM
B45-ATH-PSC32-DIN1809	SD7040	PSC32	EC	54	25	6000

RADIAL TOOL HOLDER



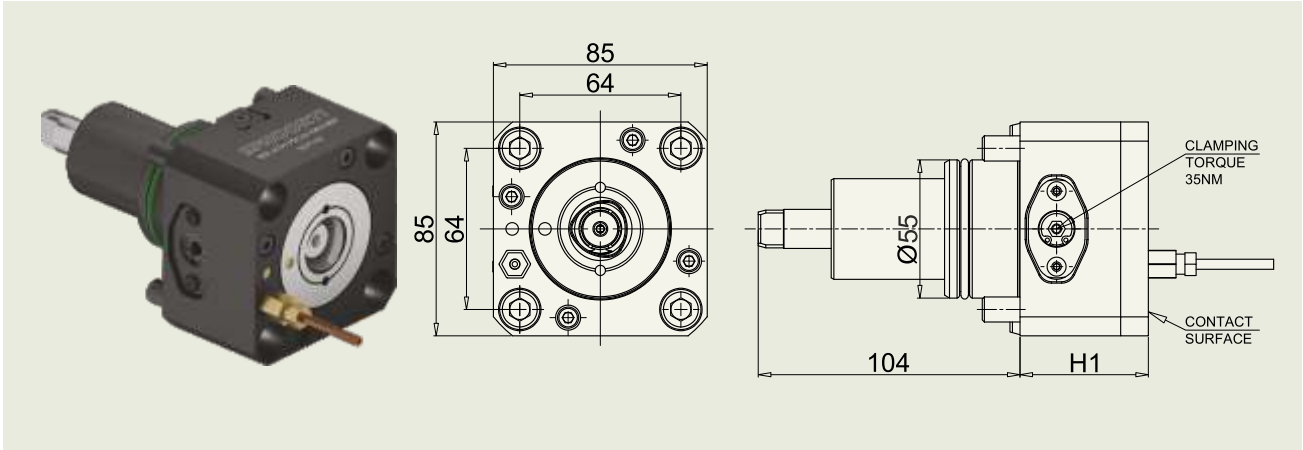
EC - External Coolant
TC - Through Coolant

RATIO 1:1

ITEM NAME	ARTICLE NO.	PSC TYPE	COOLANT	Hi-Pr	CH	L1	L2	OUTPUT TORQUE Nm	RPM
B45-RTH-PSC32-CH-65-DIN1809-TC	SD7038	PSC32	EC & TC	100 bar	65	74	73	25	6000

* BMT PSC (Capto-Compatible) Driven Tool Holders can be supplied as per customer drawing.

AXIAL TOOL HOLDER

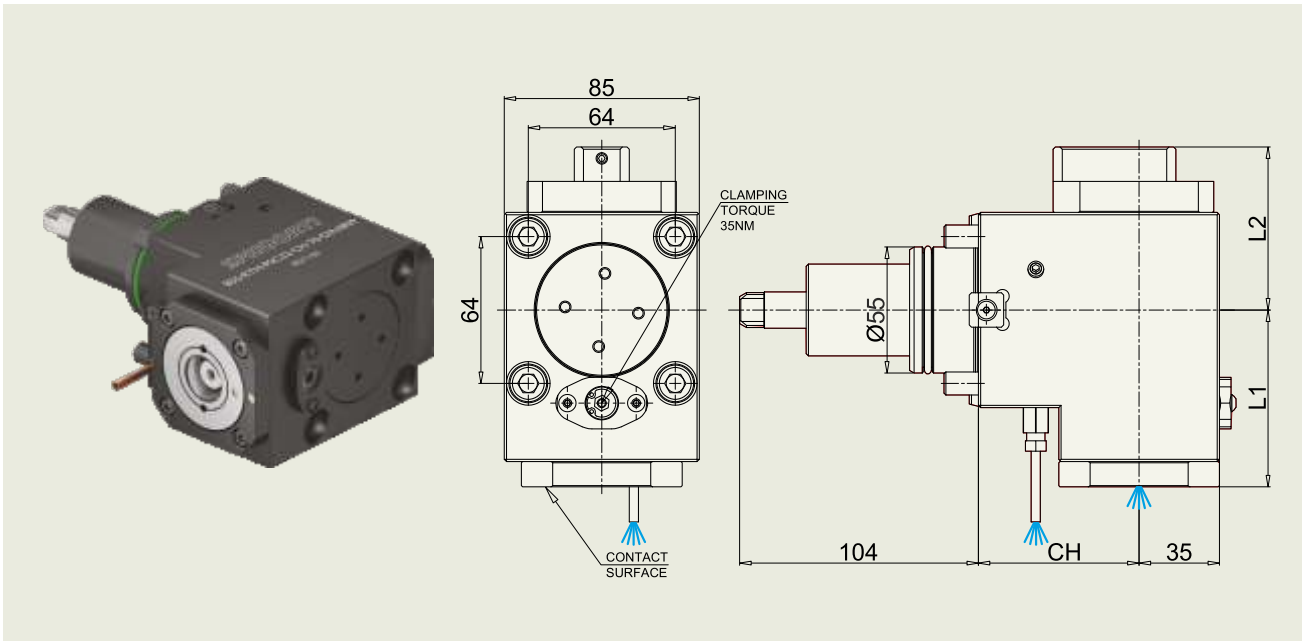


EC - External Coolant

RATIO 1:1

ITEM NAME	ARTICLE NO.	PSC TYPE	COOLANT	H1	OUTPUT TORQUE Nm	RPM
B55-ATH-PSC32-DIN1809	SD7157	PSC32	EC	51	25	6000

RADIAL TOOL HOLDER



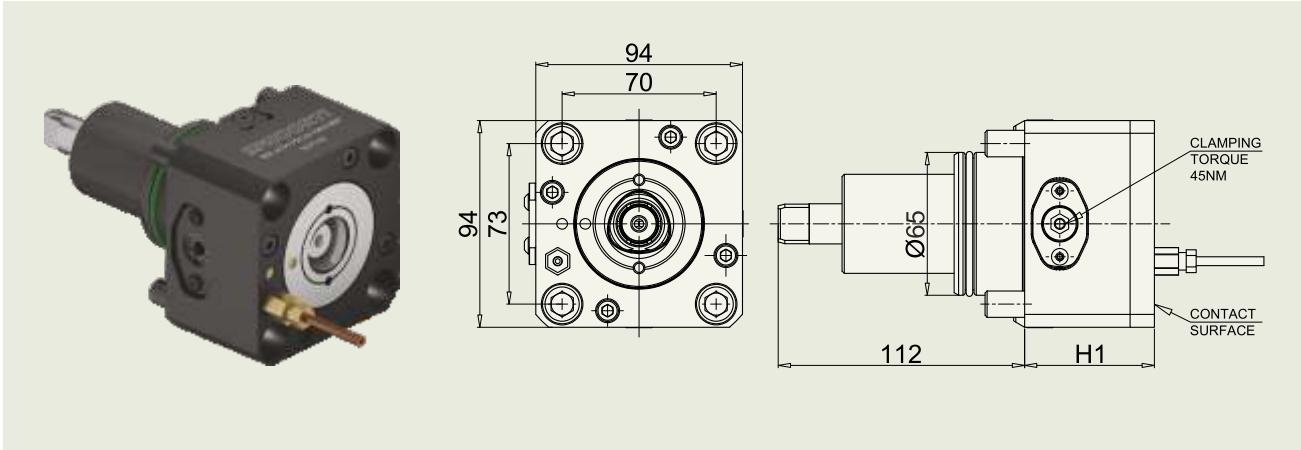
EC - External Coolant
TC - Through Coolant

RATIO 1:1

ITEM NAME	ARTICLE NO.	PSC TYPE	COOLANT	Hi-Pr	CH	L1	L2	OUTPUT TORQUE Nm	RPM
B55-RTH-PSC32-CH-70-DIN1809-TC	SD7180	PSC32	EC & TC	100 bar	70	77	71	25	6000

* BMT PSC (Capto-Compatible) Driven Tool Holders can be supplied as per customer drawing.

AXIAL TOOL HOLDER

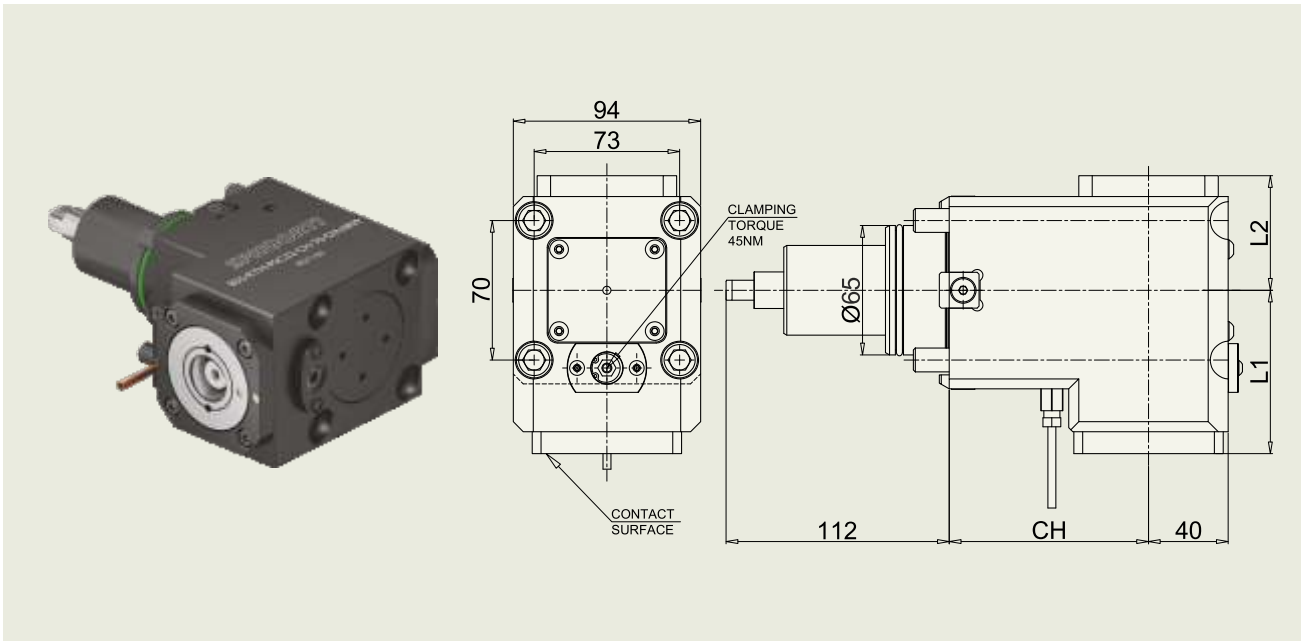


EC - External Coolant

RATIO 1:1

ITEM NAME	ARTICLE NO.	PSC TYPE	COOLANT	H1	OUTPUT TORQUE Nm	RPM
B65-ATH-PSC40-DIN1809	SD7239	PSC40	EC	59	32	6000

RADIAL TOOL HOLDER



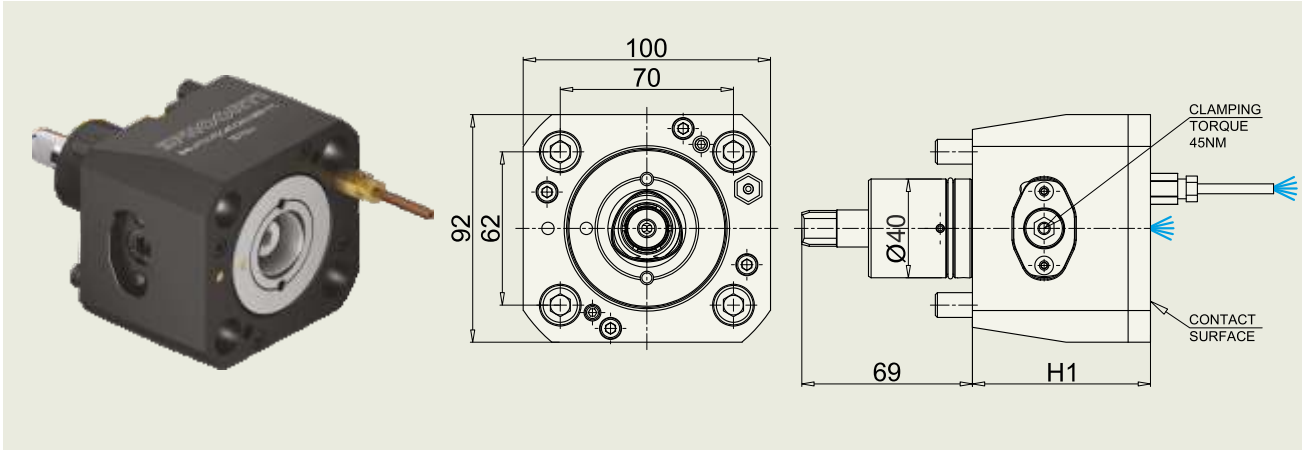
EC - External Coolant

RATIO 1:1

ITEM NAME	ARTICLE NO.	PSC TYPE	COOLANT	CH	L1	L2	OUTPUT TORQUE Nm	RPM
B65-RTH-PSC40-CH-100-DIN1809	SD7242	PSC40	EC	100	82	57.5	32	6000

* BMT PSC (Capto-Compatible) Driven Tool Holders can be supplied as per customer drawing.

AXIAL TOOL HOLDER

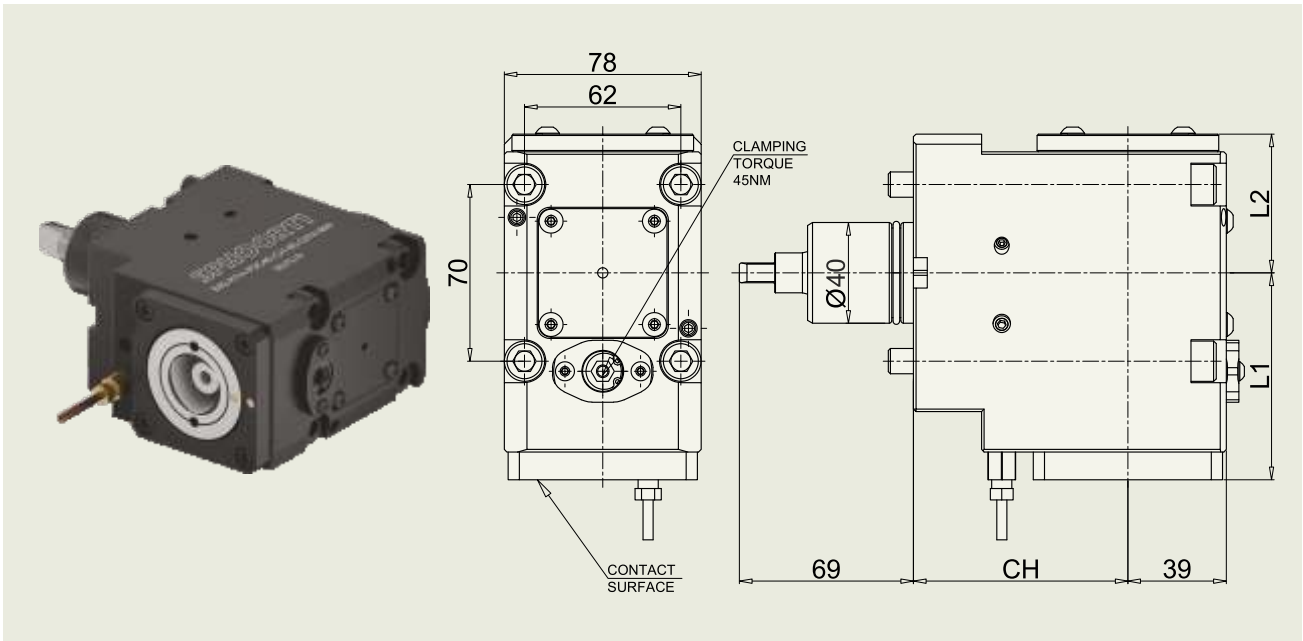


EC - External Coolant
TC - Through Coolant

RATIO 1:1

ITEM NAME	ARTICLE NO.	PSC TYPE	COOLANT	H1	OUTPUT TORQUE Nm	RPM
B40-ATH-PSC40-DIN1809-TC	SD7521	PSC40	EC & TC	72	32	6000

RADIAL TOOL HOLDER



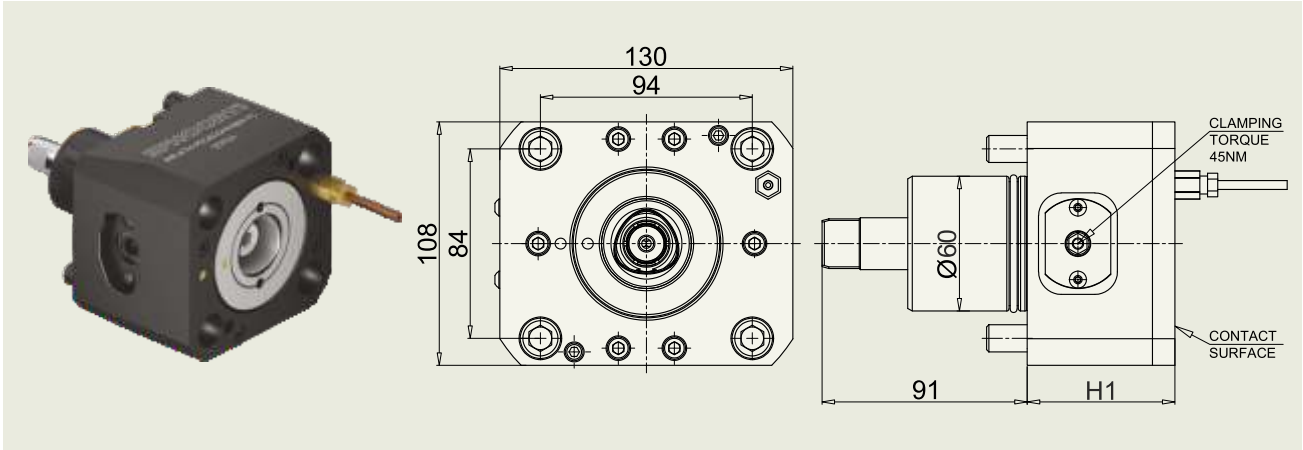
EC - External Coolant

RATIO 1:1

ITEM NAME	ARTICLE NO.	PSC TYPE	COOLANT	CH	L1	L2	OUTPUT TORQUE Nm	RPM
B40-RTH-PSC40-CH-85-DIN1809	SD7519	PSC40	EC	85	82	55	32	6000

* BMT PSC (Capto-Compatible) Driven Tool Holders can be supplied as per customer drawing.

AXIAL TOOL HOLDER

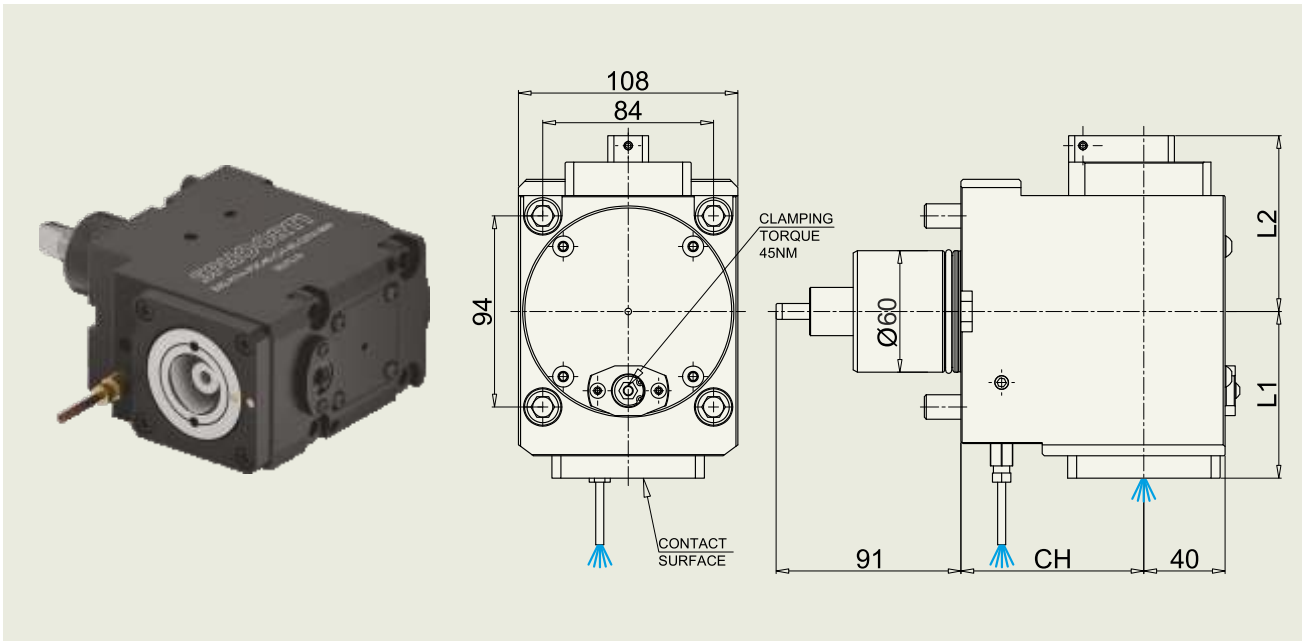


EC - External Coolant

RATIO 1:1

ITEM NAME	ARTICLE NO.	PSC TYPE	COOLANT	H1	OUTPUT TORQUE Nm	RPM
B60-ATH-PSC40-DIN1809	SD7614	PSC40	EC	65.5	32	6000

RADIAL TOOL HOLDER



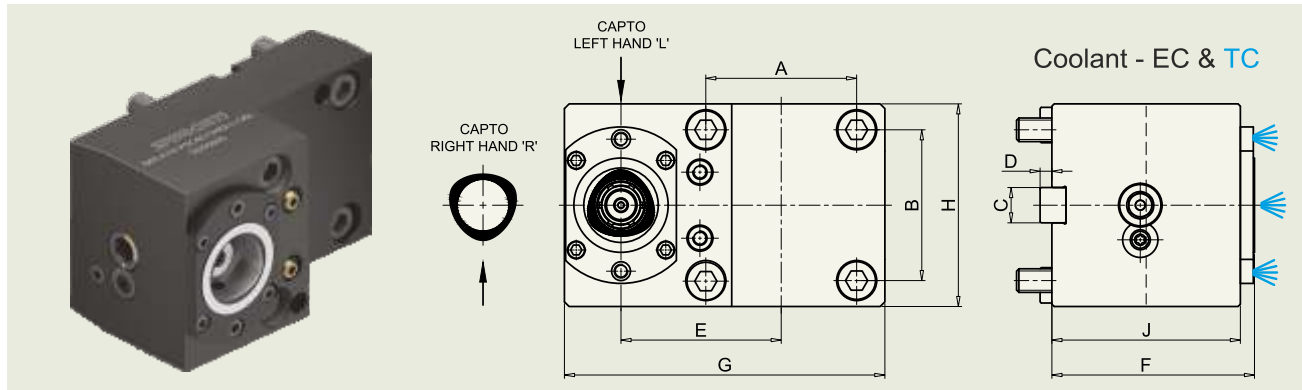
EC - External Coolant
TC - Through Coolant

RATIO 1:1

ITEM NAME	ARTICLE NO.	PSC TYPE	COOLANT	Hi-Pr	CH	L1	L2	OUTPUT TORQUE Nm	RPM
B60-RTH-PSC40-CH-90-DIN1809-TC	SD7519	PSC40	EC & TC	100 bar	90	82	86.5	32	6000

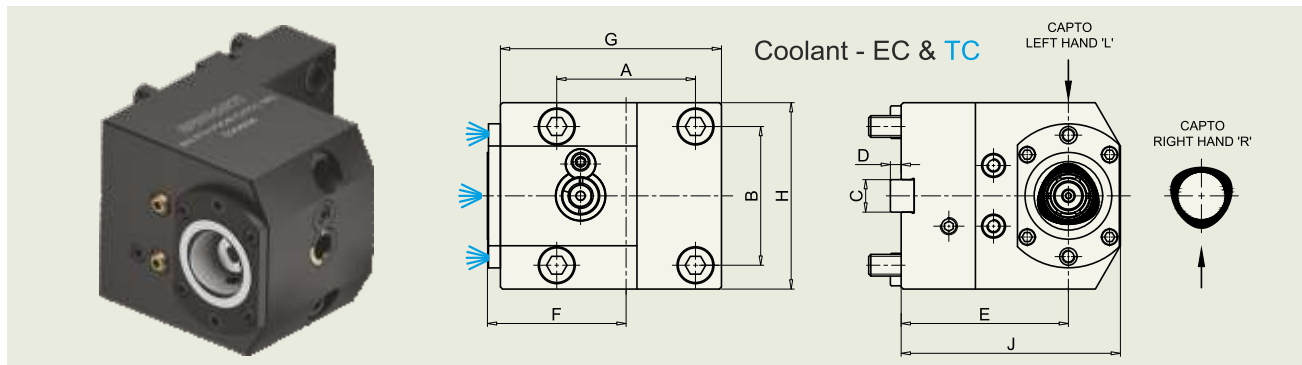
* BMT PSC (Capto-Compatible) Driven Tool Holders can be supplied as per customer drawing.

AXIAL TOOL HOLDER



ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
B45-ATH-PSC32-CH52-L111-L	SD58892	58	58	15	5	52	58	111	75	53
B45-ATH-PSC32-CH52-L111-R	SD58914	58	58	15	5	52	58	111	75	53
B55-ATH-PSC40-CH62-L130-L	SD58893	64	64	15	5	62	65	130	86	59
B55-ATH-PSC40-CH62-L130-R	SD58915	64	64	15	5	62	65	130	86	59
B65-ATH-PSC40-CH60-L134-L	SD58894	70	73	18	5	60	70	134	96	64
B65-ATH-PSC40-CH60-L134-R	SD58916	70	73	18	5	60	70	134	96	64

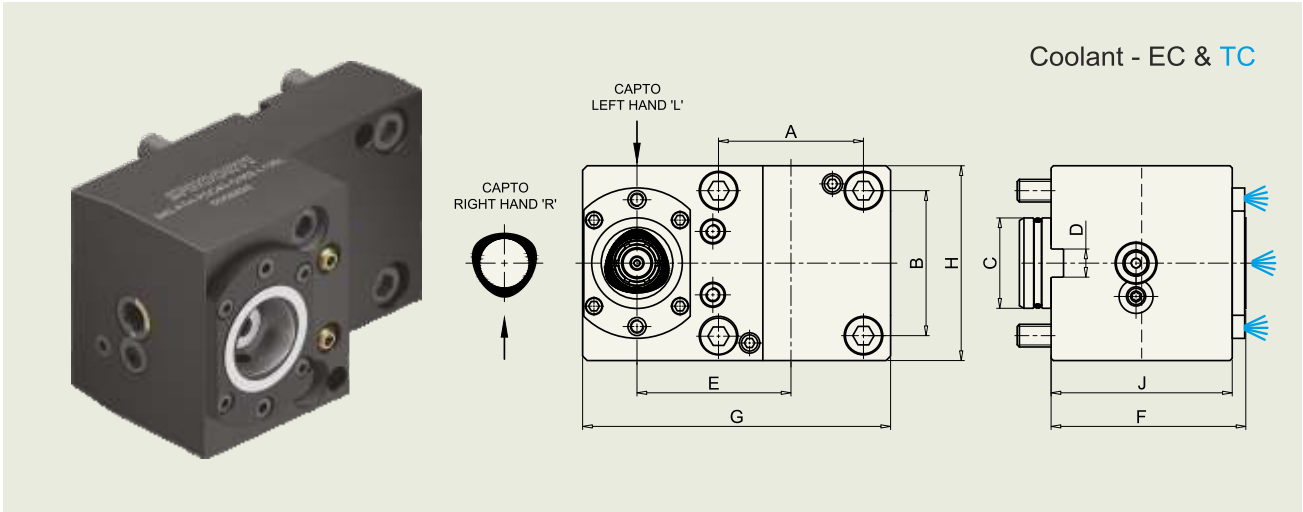
RADIAL TOOL HOLDER



ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
B45-RTH-PSC32-CH65-L80-L	SD58897	58	58	15	5	65	17	80	75	84
B45-RTH-PSC32-CH65-L80-R	SD58919	58	58	15	5	65	17	80	75	84
B55-RTH-PSC40-CH70-L120-L	SD58898	64	64	15	5	70	82	120	86	94
B55-RTH-PSC40-CH70-L120-R	SD58920	64	64	15	5	70	82	120	86	94
B65-RTH-PSC40-CH100-L120-L	SD58899	70	73	18	5	100	76	120	96	124
B65-RTH-PSC40-CH100-L120-R	SD58921	70	73	18	5	100	76	120	96	124

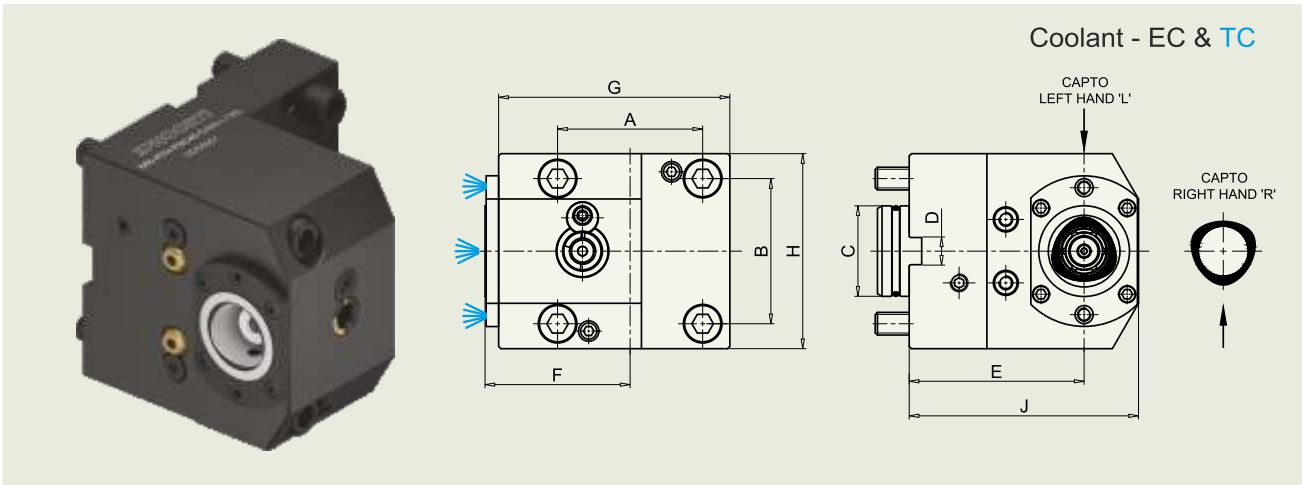
* BMT PSC (Capto-Compatible) Static Tool Holders can be supplied as per customer drawing.

AXIAL TOOL HOLDER



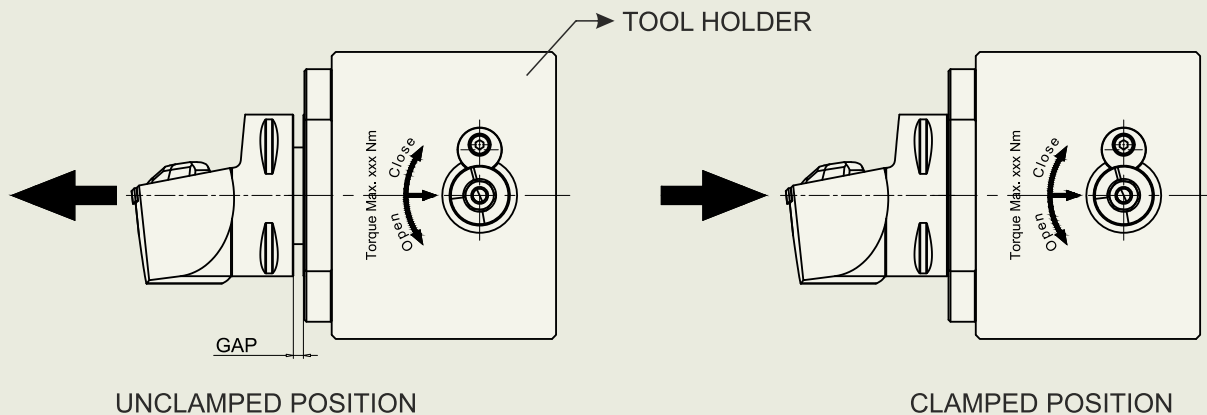
ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
B40-ATH-PSC40-CH62-L136-L	SD58895	70	62	40	12	62	75	136	84	69
B40-ATH-PSC40-CH62-L136-R	SD58917	70	62	40	12	62	75	136	84	69
B60-ATH-PSC40-CH60-L149-L	SD58896	94	84	60	20	60	75	149	108	69
B60-ATH-PSC40-CH60-L149-R	SD58918	94	84	60	20	60	75	149	108	69

RADIAL TOOL HOLDER

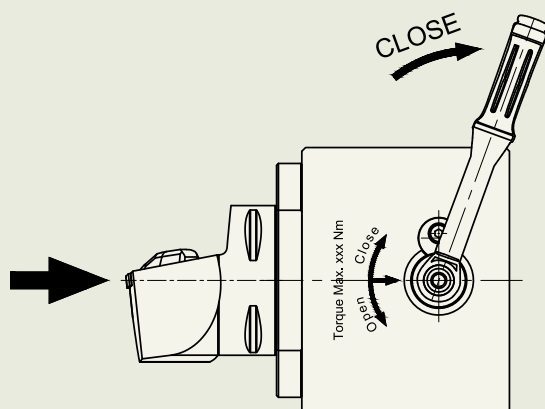


ITEM NAME	ARTICLE NO.	A	B	C	D	E	F	G	H	J
B40-RTH-PSC40-CH100-L100-L	SD58900	70	62	40	12	100	32	100	78	124
B40-RTH-PSC40-CH100-L100-R	SD58922	70	62	40	12	100	32	100	78	124
B60-RTH-PSC40-CH90-L130-L	SD58901	94	84	60	20	90	71	130	108	114
B60-RTH-PSC40-CH90-L130-R	SD58923	94	84	60	20	90	71	130	108	114

* BMT PSC (Capto-Compatible) Static Tool Holders can be supplied as per customer drawing.

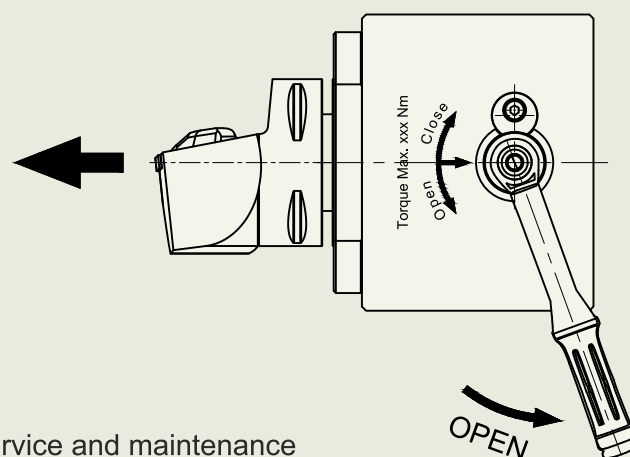


1. Fix the PSC (Capto-Compitable) Tool Holder to the turret disc.
2. Fix the PSC (Capto-Compitable) Tool on the PSC (Capto-Compitable) Tool Holder .
3. The PSC (Capto-Compitable) Tool is getting clamped through PSC (Capto-Compitable) Tool Holder clamping unit by rotating clock wise with appropriate clamping torque by using torque wrench.



4. Clamp the tool to its corresponding torque value. Recommended locking torque is Maximum
 - C3 - 35 Nm (ft/lbs = 26)
 - C4 - 50 Nm (ft/lbs = 37)
 - C5 - 70 Nm (ft/lbs = 52)
 - C6 - 90 Nm (ft/lbs = 67)
 - C8 - 130 Nm (ft/lbs = 96)

5. Unclamp the PSC (Capto-Compitable) Tool by rotating the clamping unit in anti-clockwise (open:as marked on the holder). Using a torque wrench, unlock the clamping unit which simultaneously pushes out the PSC (Capto-Compitable) Tool.



NOTE: Clamping Units require periodical service and maintenance



VDI PSC (CAPTO-COMPATIBLE) TOOL HOLDERS

FOR CNC TURN MILL CENTER



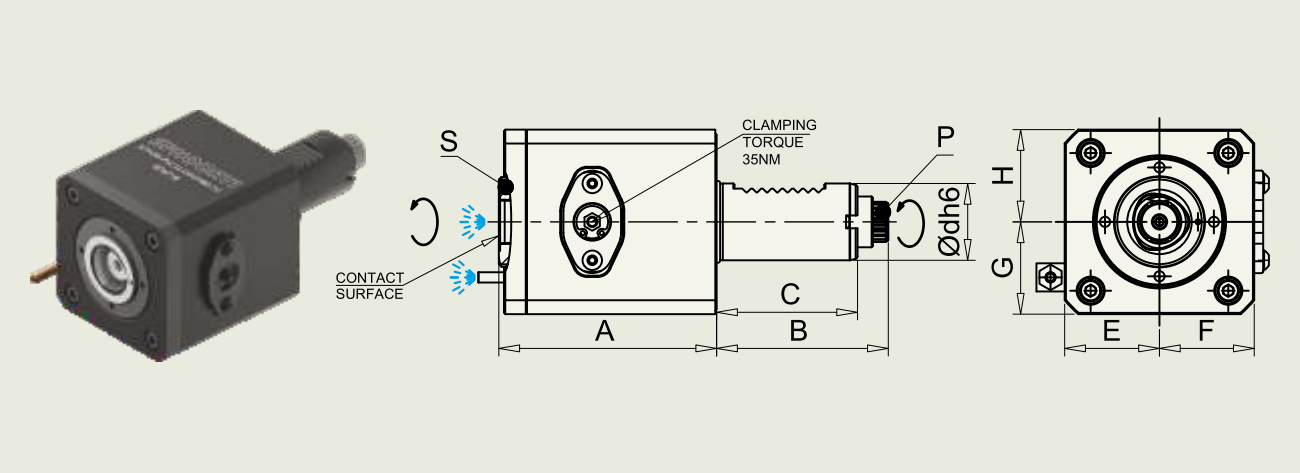
**Radial Disc PSC
(CAPTO- Compatible)
Tool Holders**



**Axial Disc PSC
(CAPTO- Compatible)
Tool Holders**



AXIAL TOOL HEAD, SQUARE BODY, PSC, THROUGH COOLANT

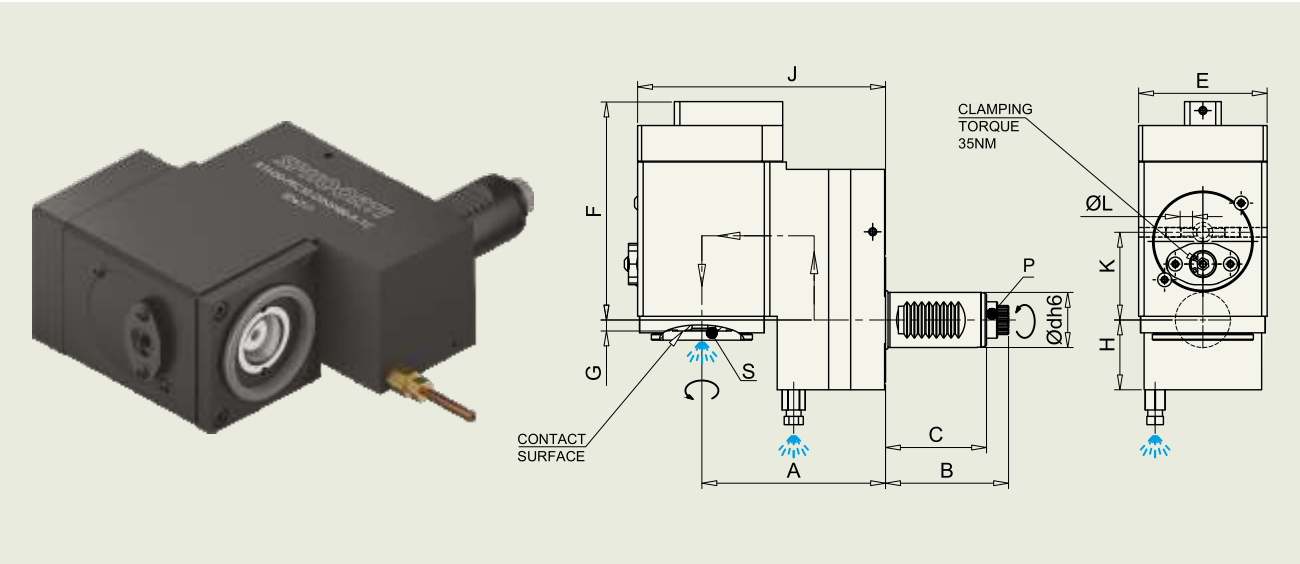


DIN 5480

CODE	Ødh6	A	B	C	E	F	G	H	S	Hi-Pr	i	N _{max} RPM	T Nm	P
SD6718	30	85	67	55	37	37	36	36	PSC32	100 bar	1:1	8000	32	W16X0.8X30°X18-9b

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RADIAL TOOL HEAD, INDIRECT DRIVE, RIGHT VERSION, PSC, THROUGH COOLANT



DIN 5480

CODE	Ødh6	A	B	C	E	F	G	H	J	K	ØL	S	Hi-Pr	i	N _{max} RPM	T Nm	P
SD6717	30	100	67	55	70	119	6	38	135	48	8	PSC32	100 bar	1:1	8000	32	W16X0.8X30°X18-9b

* VDI PSC (CAPTO-Compatible) Driven Tool Holders can be supplied as per customer drawing.

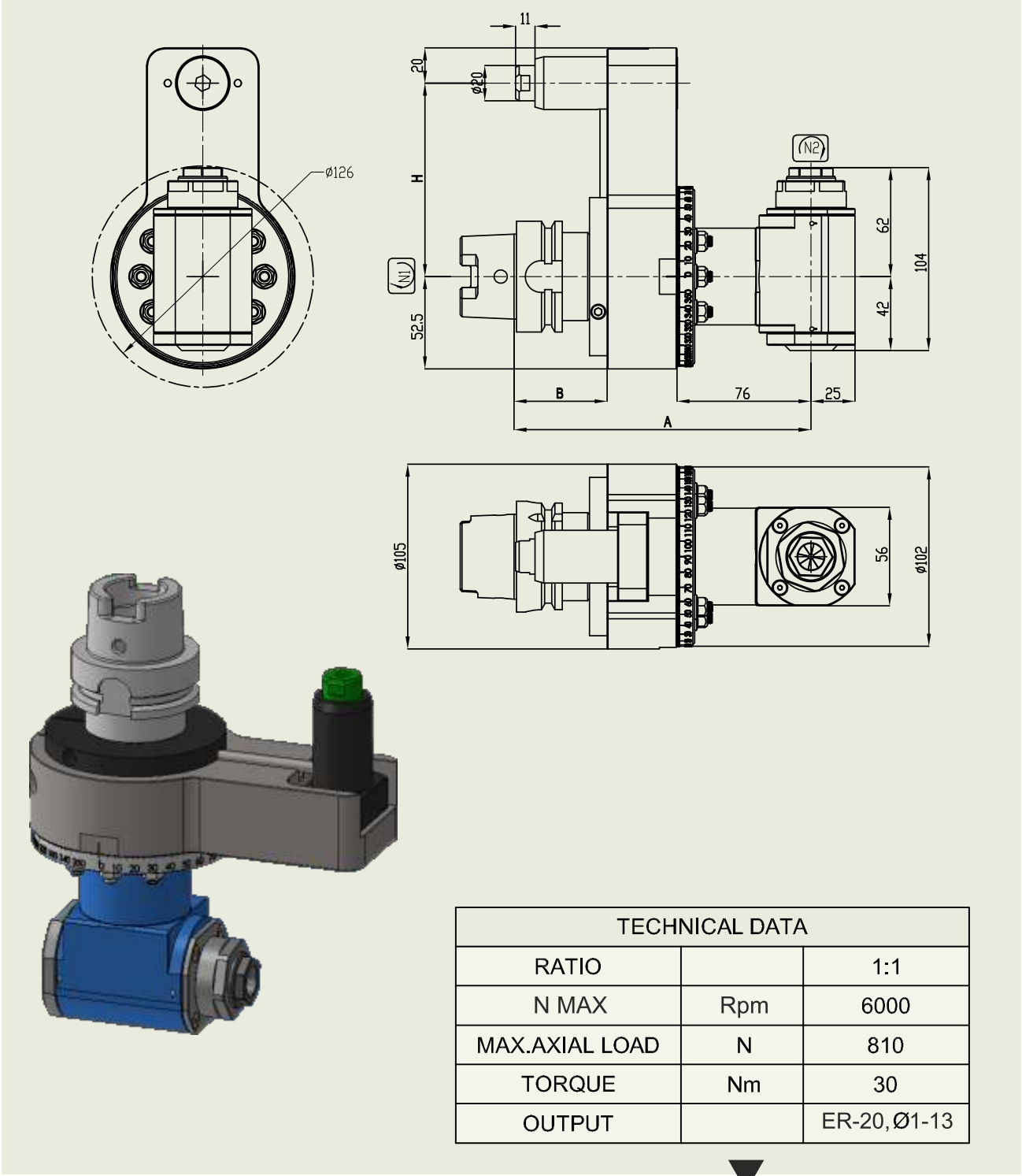
SPHOORTI

Precision Assured

ANGULAR HEAD FOR MACHINING CENTER

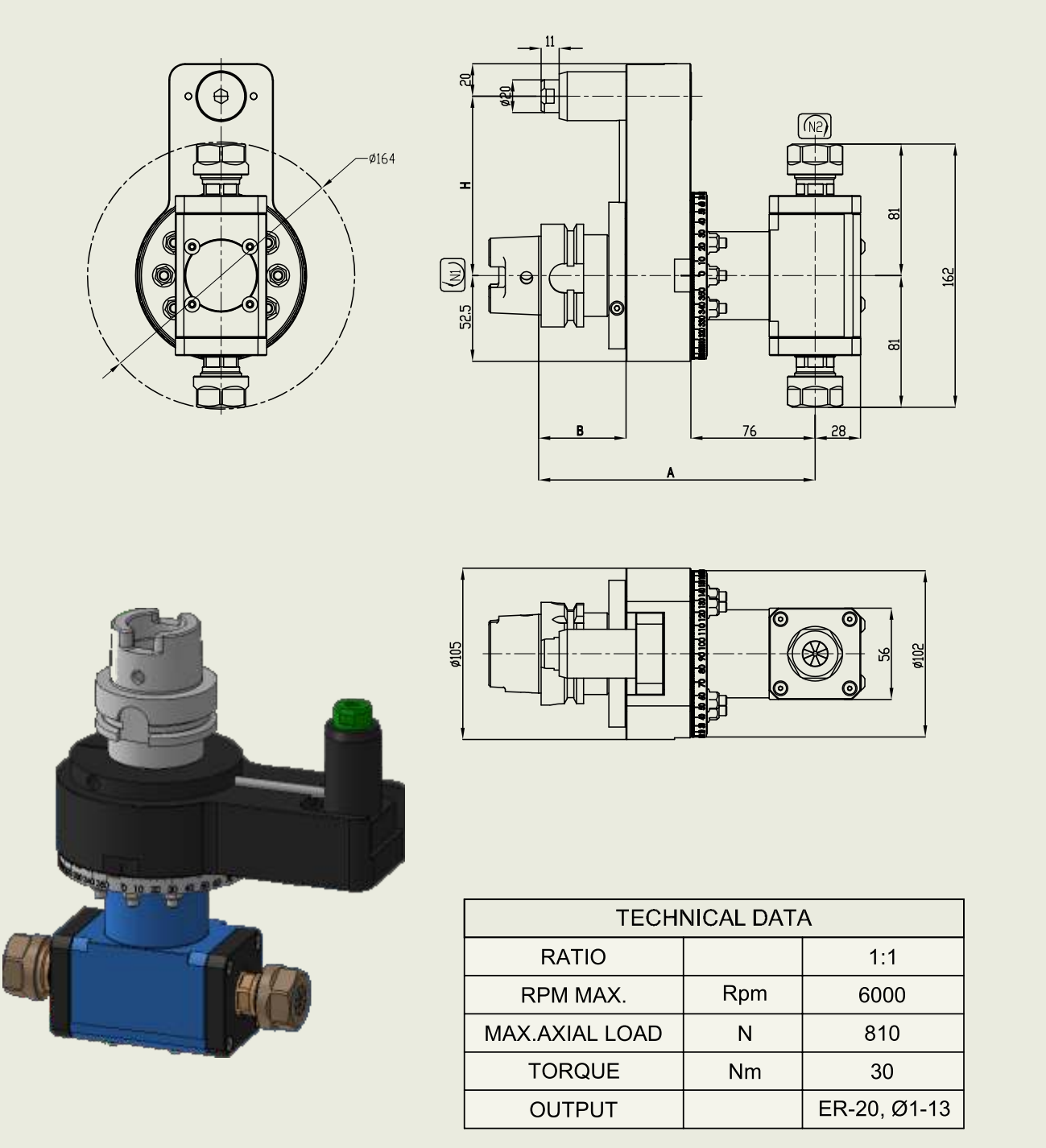


ANGULAR HEAD FOR MACHINING CENTER SINGLE END



SHANK	SK DIN69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			CAPTO ISO 26623			KM			ISO DIN 2080	
SIZE	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50
H	65-80	110	65-80	110	65-80	110	65-80	110		65-80	110		65-80	110		65-80	110
A	169		169		169	169	169			169			169			169	
B	35		35		35	53	38	40		48			-			46	

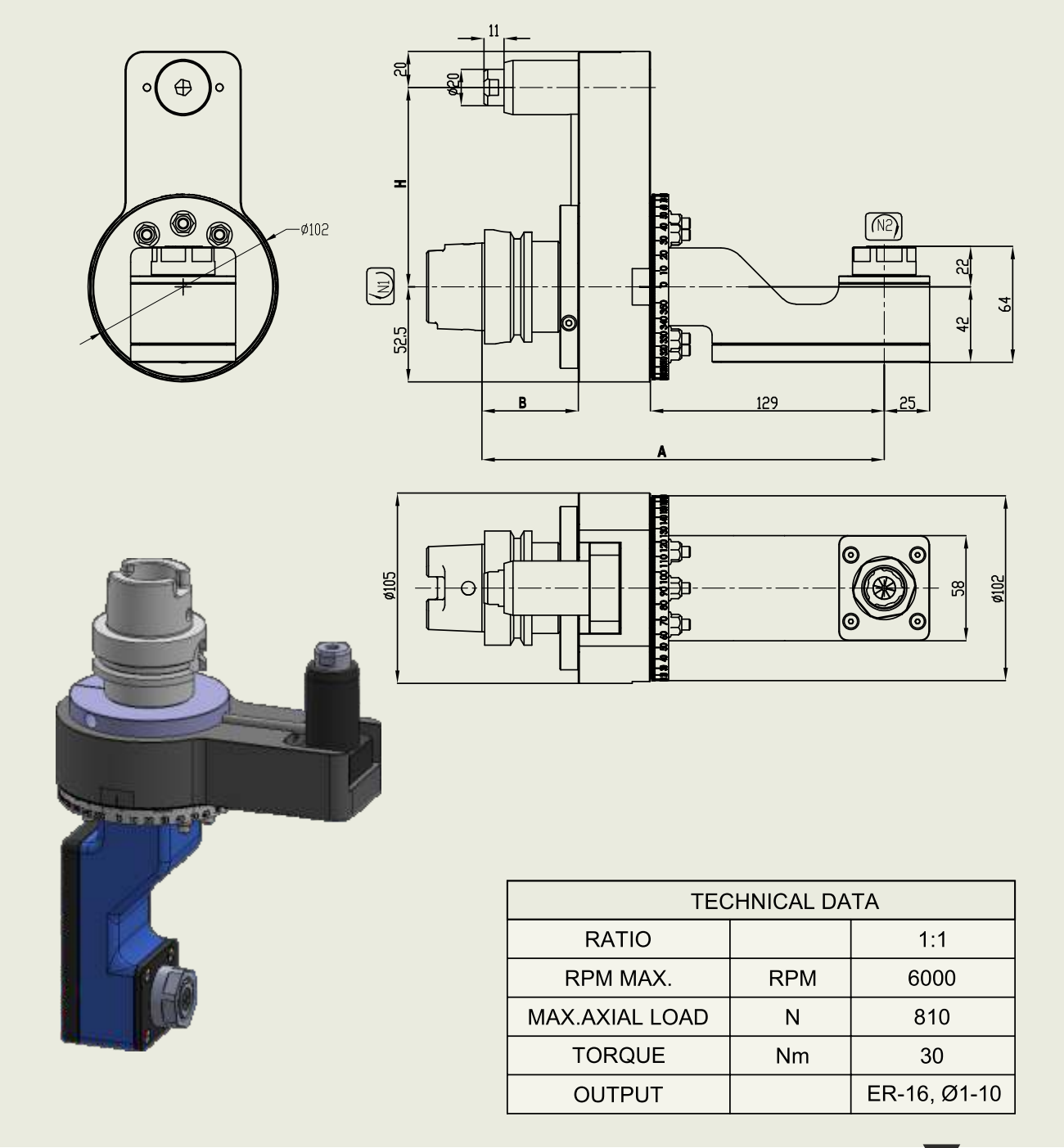
ANGULAR HEAD FOR MACHINING CENTER DOUBLE END



DIRECTION OF ROTATION OPPOSITE TO MACHINE SPINDLE

SHANK	SK		CAT		BT		HSK			CAPTO			KM			ISO	
	DIN69871		ANSI B5.50		MAS 403		DIN 69893			ISO 26623						DIN 2080	
SIZE	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50
H	65-80	110	65-80	110	65-80	110	65-80	110		65-80	110		65-80	110		65-80	110
A	169		169		169		169			169			169			169	
B	35		35		35		53			38		40	-			46	

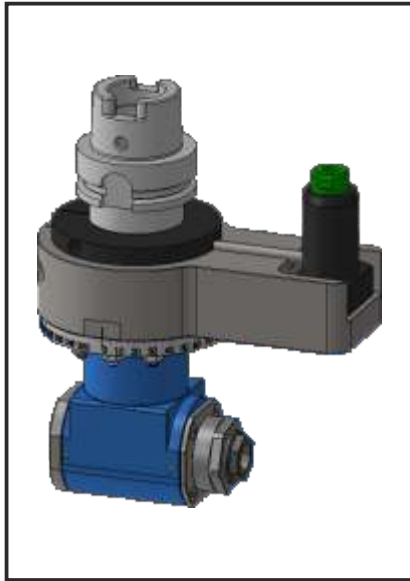
ANGULAR HEAD FOR MACHINING CENTER SLIM OFFSET



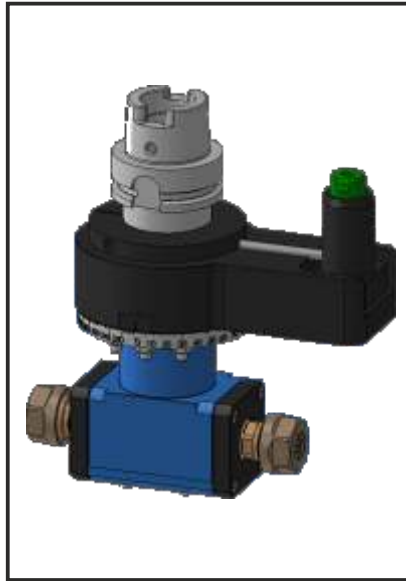
DIRECTION OF ROTATION OPPOSITE TO MACHINE SPINDLE

SHANK	SK DIN69871		CAT ANSI B5.50		BT MAS 403		HSK DIN 69893			CAPTO ISO 26623			KM			ISO DIN 2080	
SIZE	40	50	40	50	40	50	63	80	100	C5	C6	C8	63	80	100	40	50
H	65-80	110	65-80	110	65-80	110	65-80	110	65-80	110	65-80	110	65-80	110	65-80	110	110
A	222		222		222		222			222			222			222	
B	35		35		35		53			38	40		-			46	

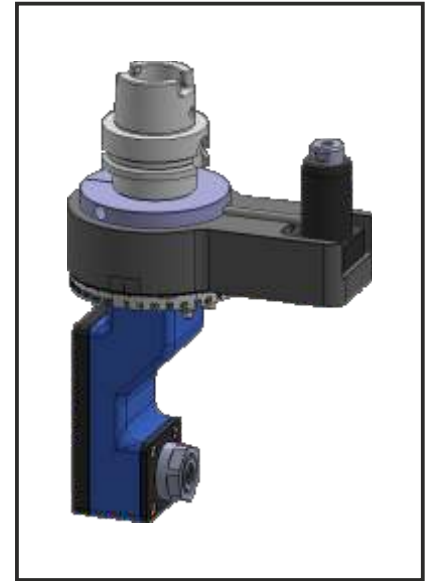
ANGULAR HEAD FOR MACHINING CENTER



SINGLE END



DOUBLE END



SLIM OFFSET

- Apart from the above models, we are developing many other varieties in angular head for vertical machining centers.
- All types of shanks like BT, BBT, CAT, SK, HSK, PSC (CAPTO) KM & ISO can be offered on Angular Head.
- Different center heights (distance from shank butting face to spindle center) are available to suit component reach out.
- Center distance (distance from shank center to stop block center) will vary according to the machine spindle taper.
- Angular head has a graduated scale of 360° & can be fixed in any position with an increment of 1 degree.
- Optionally, offset angular head can be offered.
- You can choose any spindle outputs like ER, Side lock, Face Mill Holding.
- Please send your enquiry to sales@sphoorti.com, ah@sphoorti.com

SLOTING HEAD FOR CNC TURN MILL CENTER



11

- Slotting Head Unit for CNC Turn Mill Centers.
- Available with VDI 30, VDI 40 & VDI 50 shanks with drive end coupling of DIN5480, DIN5482, DIN1809 & TOEM.
- Also offered with BMT 40, BMT 45, BMT 55, BMT 60, BMT 65 & BMT 75 turret tool holder configurations.
- Slotting head supplied in three different strokes of 25,35 & 50mm
- Please send your enquiry to sales@sphoorti.com, sh@sphoorti.com

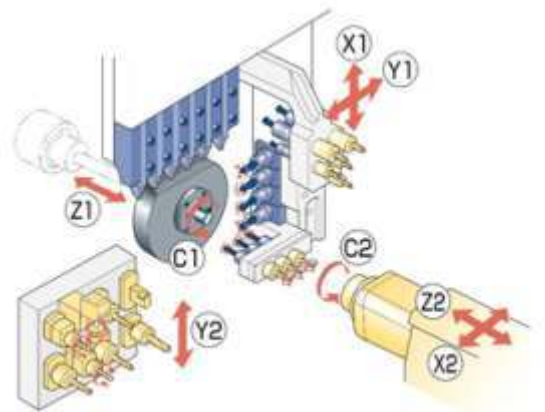
GEAR HOBGING UNIT



12

- Gear Hobbing Unit for CNC Turn Mill Centers.
- Gear hobbing tool holders can be supplied in 1:1 & 2:1 gear ratios.
- Gear hobber suitable for any turret with BMT45, BMT55, BMT65 & BMT75 turret tool holder configurations.
- Available with VDI 30, VDI 40 & VDI 50 shanks with drive end coupling of DIN5480, DIN5482, DIN1809 & TOEM.
- Accommodates gear modules from 1 to 2.5.
- Hob helix angle can be set upto 10 degrees.
- Modular design to change hob cutters through the removable bottom plate.
- High rigidity.
- Please send your enquiry to sales@sphoorti.com, gh@sphoorti.com.

SLIDING HEAD TOOL HOLDERS



- Sliding Head Automatic (SHA) Tool Holders for Swiss type machines of brands like Star, Citizen, Miyano, Tsugami, Hanwha & etc.
- Precision & rigidity with high accuracy bearings for minimal runout
- SHA holders can be provided to **ANY SWISS TYPE MACHINES**
- You can send your enquiry to sales@sphoorti.com, sh@sphoorti.com

OUR PRODUCTS



SLOTTED TOOL DISC
& TOOL HOLDERS



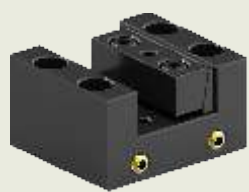
VDI AXIAL TOOL DISC
& TOOL HOLDERS



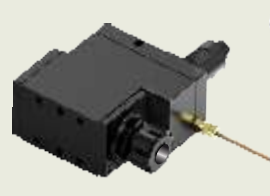
VDI RADIAL TOOL DISC
& TOOL HOLDERS



BMT TOOL DISC
& TOOL HOLDERS



BOT
TOOL HOLDERS



VDI DRIVEN
TOOL HOLDERS

BMT DRIVEN
TOOL HOLDERS



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