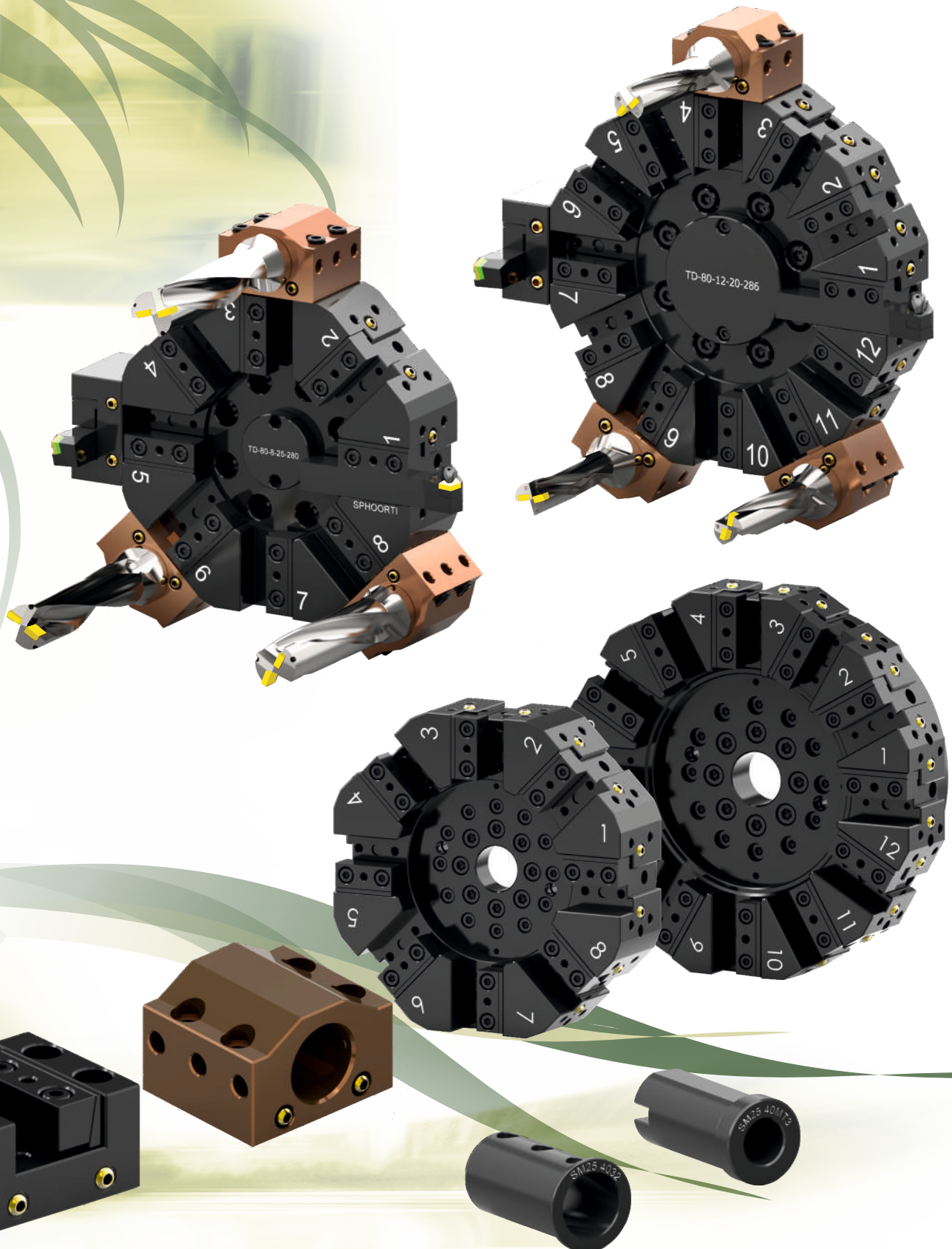


SPHOORTI

Precision Assured

SLOTTED TOOL DISCS & TOOL HOLDERS

FOR CNC TURNING CENTERS

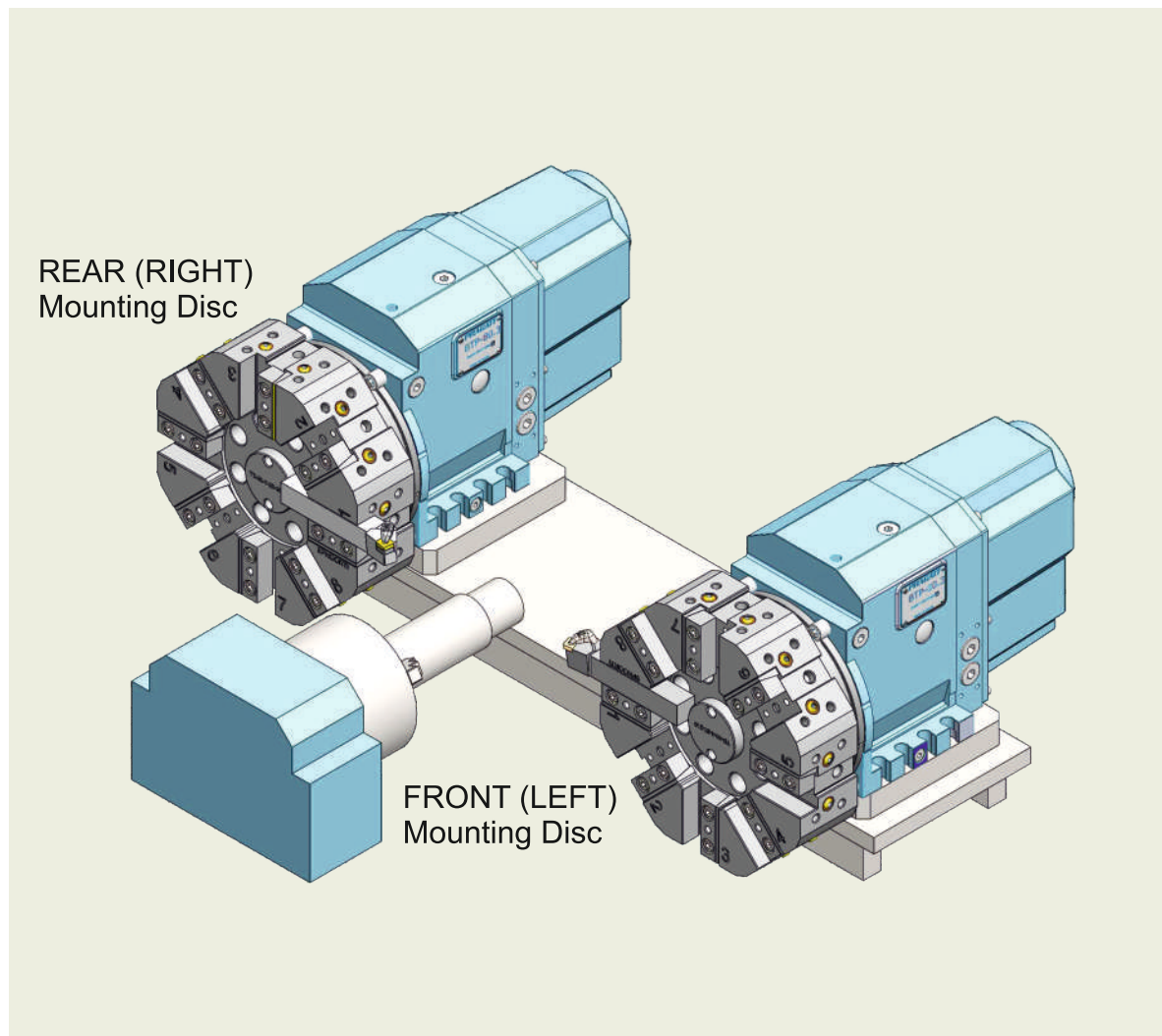


January 2017

FEATURES

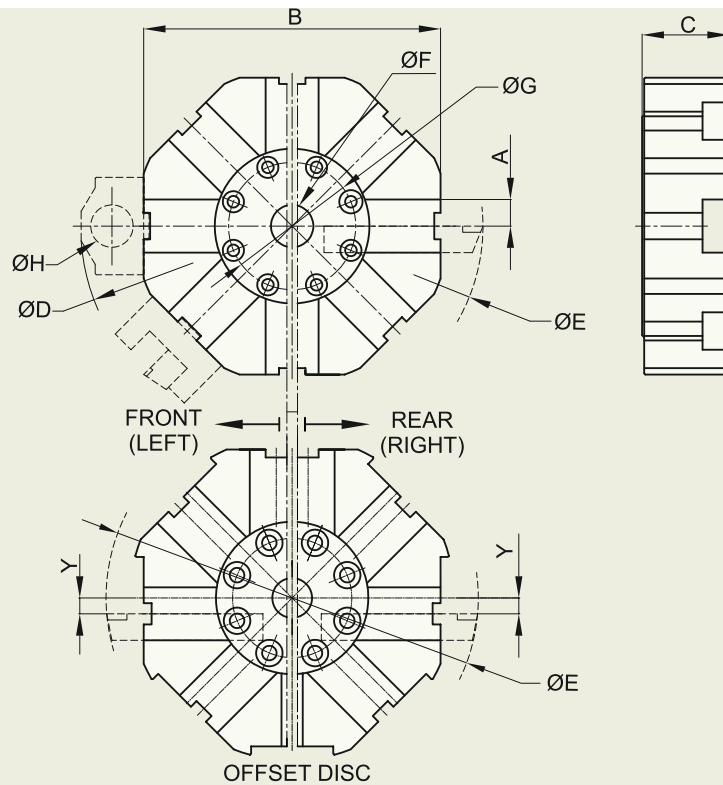
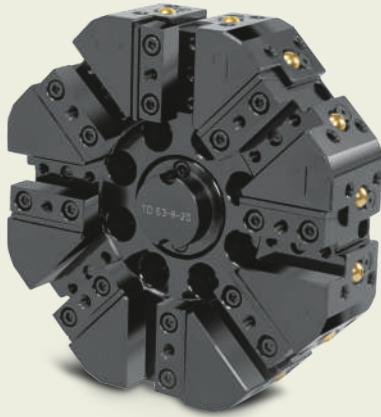
- Available in 8 & 12 station as our standard.
- Made out of Forged, Medium Carbon Steel & Toughened to 20 ± 2 HRC.
- Finish machining on precision Machining Centers to ensure accuracies.
- Suitable for fitment on both flat and slant bed CNC lathes.
- Available in Right version (Rear Mounting) & Left 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



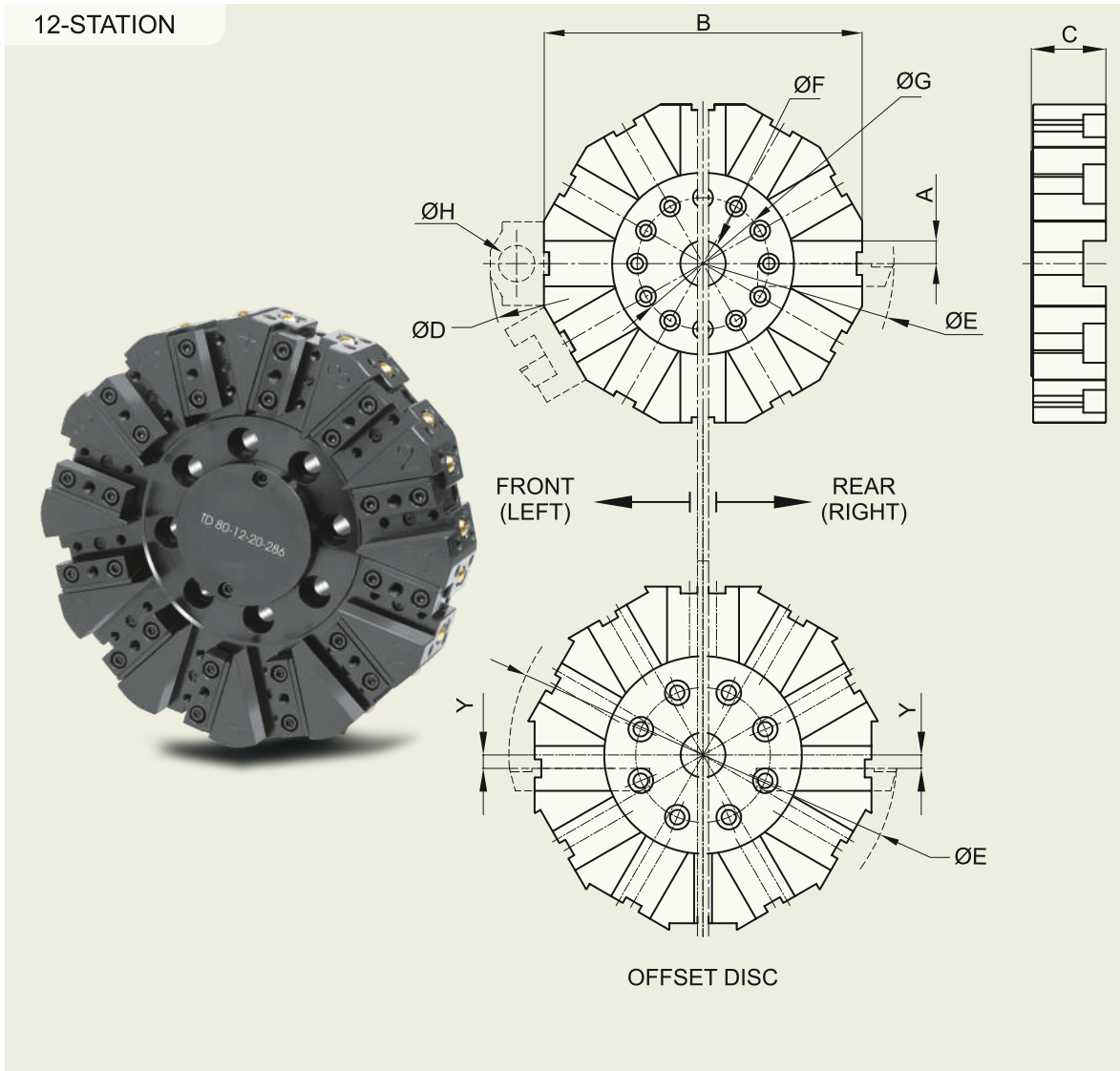
CODE	A (TOOL SIZE)	B	C	ØD	~ØE	ØF	ØG	ØH Max	Y	TURRET TYPE
TD-50-8-12-150	12	150	44	213	192	25	70	20	-	PRAGATI BTP-50 Duplomatic-BSV-N-100 Baruffaldi - TOE-100 Sauter 05-480-510
TD-50-8-16-180	16	180	52	252	238	25	70	25	-	
TD-50-8-20-180	20	180	54	285	248	25	70	32	-	
TD-50-8-20-200	20	200	54	305	280	25	70	32	-	
TD-63-8-16-200	16	200	52	272	256	30	90	25	-	PRAGATI BTP-63 Duplomatic-BSV-N-120 Baruffaldi - TOE-120 Sauter 05-480-512
TD-63-8-20-220	20	220	61	325	294	30	90	32	-	
TD-63-8-20-224-12	20	224	61	332	281	30	90	32	12	
TD-63-8-20-250	20	250	61	355	320	30	90	32	-	
TD-63-8-25-234	25	234	61	353	304	30	90	40	-	PRAGATI BTP-80 Duplomatic-BSV-N-160 Baruffaldi - TOE-160 Sauter 05-480-516
TD-80-8-20-250	20	250	61	355	324	40	120	32	-	
TD-80-8-25-240	25	240	81	359	326	40	120	40	-	
TD-80-8-25-250	25	250	81	369	336	40	120	40	-	
TD-80-8-25-280	25	280	81	399	366	40	120	40	-	PRAGATI BTP-100 Duplomatic-BSV-N-200 Baruffaldi - TOE-200 Sauter 05-480-520
TD-100-8-25-304	25	304	81	423	384	50	145	40	-	
TD-100-8-25-350	25	350	81	489	420	50	145	40	-	
TD-100-8-32-350	32	350	96	503	440	50	145	50	-	
TD-125-8-25-350	25	350	81	470	430	63	182	40	-	PRAGATI BTP-125 Duplomatic-BSV-N-250 Baruffaldi - TOE-250 Sauter 05-480-525
TD-125-8-25-380	25	380	81	499	460	63	182	40	-	
TD-125-8-32-350	32	350	96	503	430	63	182	50	-	
TD-125-8-32-380	32	380	96	532	470	63	182	50	-	
TD-125-8-32-436	32	436	96	588	525	63	182	50	-	
TD-125-8-40-400	40	400	96	541	500	63	182	50	-	PRAGATI BTP-160 Duplomatic-BSV-N-320 Baruffaldi - TOE-320 Sauter 05-480-532
TD-160-8-32-480	32	480	126	632	560	80	220	50	-	
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



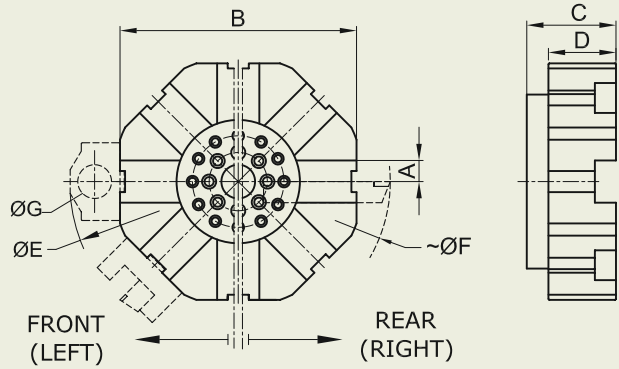
CODE	A (TOOL SIZE)	B	C	ØD	~ØE	ØF	ØG	ØH Max	Y	TURRET TYPE
TD-63-12-16-236	16	236	52	307	270	30	90	25	-	PRAGATI BTP-63 Diplomatic-BSV-N-120 Baruffaldi - TOE-120 Sauter 05-480-512
TD-80-12-20-286	20	286	61	391	348	40	120	32	-	PRAGATI BTP-80 Diplomatic-BSV-N-160 Baruffaldi - TOE-160 Sauter 05-480-516
TD-80-12-20-295-12	20	295	61	402	346	40	120	32	12	
TD-80-12-20-320	20	320	61	425	382	40	120	32	-	
TD-100-12-25-350	25	350	81	469	420	50	145	40	-	PRAGATI BTP-100 Diplomatic-BSV-N-200 Baruffaldi - TOE-200 Sauter 05-480-520
TD-100-12-25-350-20	25	350	81	473	421	50	145	40	20	
TD-100-12-25-410	25	410	81	529	490	50	145	40	-	
TD-125-12-25-380	25	380	81	499	460	63	182	40	-	PRAGATI BTP-125 Diplomatic-BSV-N-250 Baruffaldi - TOE-250 Sauter 05-480-525
TD-125-12-25-436	25	436	81	555	520	63	182	40	-	
TD-125-12-32-436	32	436	96	588	525	63	182	50	-	
TD-160-12-32-565	32	565	126	719	645	80	220	50	-	PRAGATI BTP-160 Diplomatic-BSV-N-320 Baruffaldi - TOE-320 Sauter 05-480-532
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

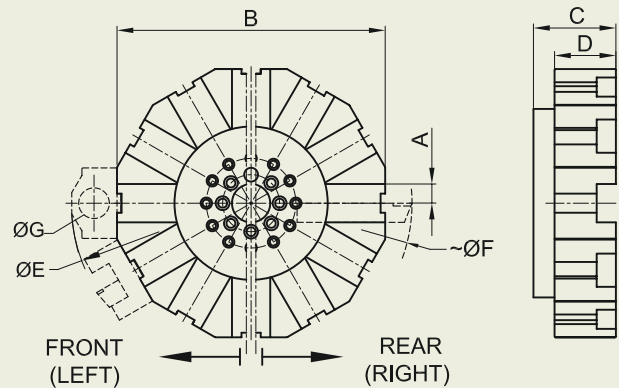
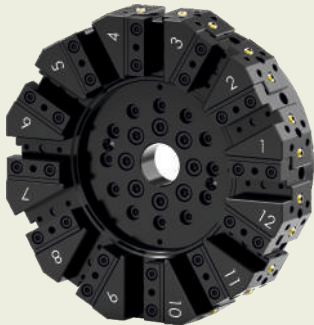
HYDRAULIC TOOL DISC (HTD) - SLOTTED

8-STATION



CODE	A (TOOL SIZE)	B	C	D	ØE	~ØF	ØG	TURRET TYPE
HTD-63-8-20-228-T96	20	228	96	60	333	294	32	PRAGATI HTP-63-8
HTD-80-8-25-280-T105	25	280	105	80	399	366	40	PRAGATI HTP-80-8
HTD-80-8-25-280-T114	25	280	114	80	399	366	40	PRAGATI HTP-80-8
HTD-100-8-25-304-T105	25	304	105	80	443	370	40	PRAGATI HTP-100-12
HTD-100-8-25-300-T114	25	300	114	80	439	380	40	PRAGATI HTP-100-12
HTD-125-8-25-420-T114	25	420	114	80	559	497	40	PRAGATI HTP-125-12
HTD-125-8-32-380-T124	32	380	124	95	532	470	50	PRAGATI HTP-125-12

12-STATION

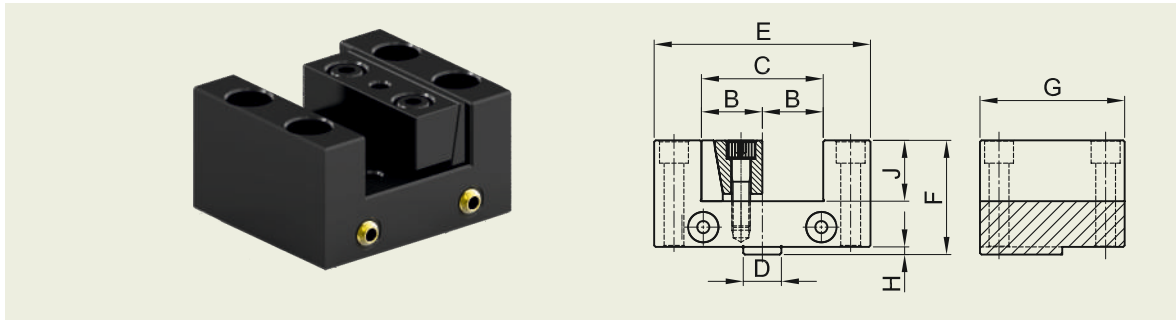


CODE	A (TOOL SIZE)	B	C	D	ØE	~ØF	ØG	TURRET TYPE
HTD-63-12-16-236-T87	16	236	87	51	307	270	25	PRAGATI HTP-63-12
HTD-80-12-20-286-T105	20	286	105	60	391	325	32	PRAGATI HTP-80-12
HTD-80-12-20-316-T114	20	316	114	60	421	382	32	PRAGATI HTP-80-12
HTD-100-12-25-350-T110	25	350	110	80	489	420	40	PRAGATI HTP-100-12
HTD-100-12-25-410-T114	25	410	114	80	549	470	40	PRAGATI HTP-100-12
HTD-125-12-25-440-T114	25	440	114	80	579	517	40	PRAGATI HTP-125-12
HTD-125-12-32-436-T124	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

ATH (AXIAL TOOL HOLDER)



CODE	A	B (TOOL SIZE)	C	D	E	F	G	H	J	TOOL DISC TYPE
ATH 12-12	12	12	24	12	56	31	43	4	12	TD 50-8-12
ATH 16-16	16	16	32	16	66	37	51	5	16	TD 50-8-16 TD 63-8-16
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
ATH 25-25 L60	25	25	50	25	90	55	60	5	25	TD 63-8-25
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
ATH 32-32	32	32	64	25	114	65	95	5	32	TD 100-8-32 TD 125-8-32 TD 160-8-32 HTD 125-8-32
ATH 40-40	40	40	80	25	142	75	95	5	40	TD 125-12-40
ATH 160-40	40	40	80	40	142	74	124	5	40	TD 160-8-40 TD 160-12-40

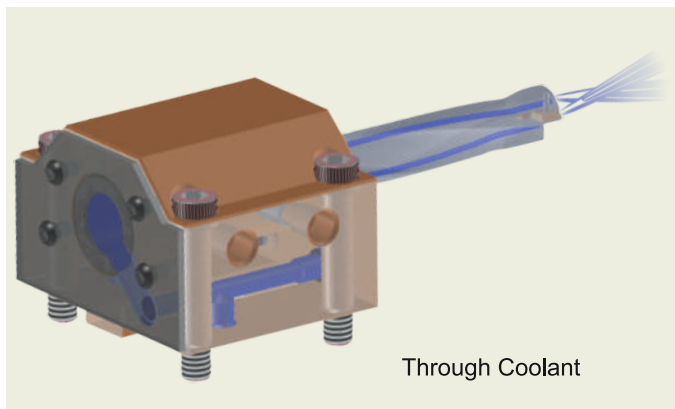
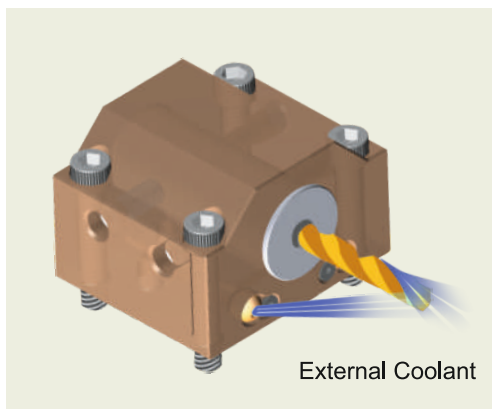
* Made out of Medium Carbon Steel, Forged & Toughened to 20±2 HRC

* Customised design can be given upon request

* Inch series Axial Tool Holders are also available upon request

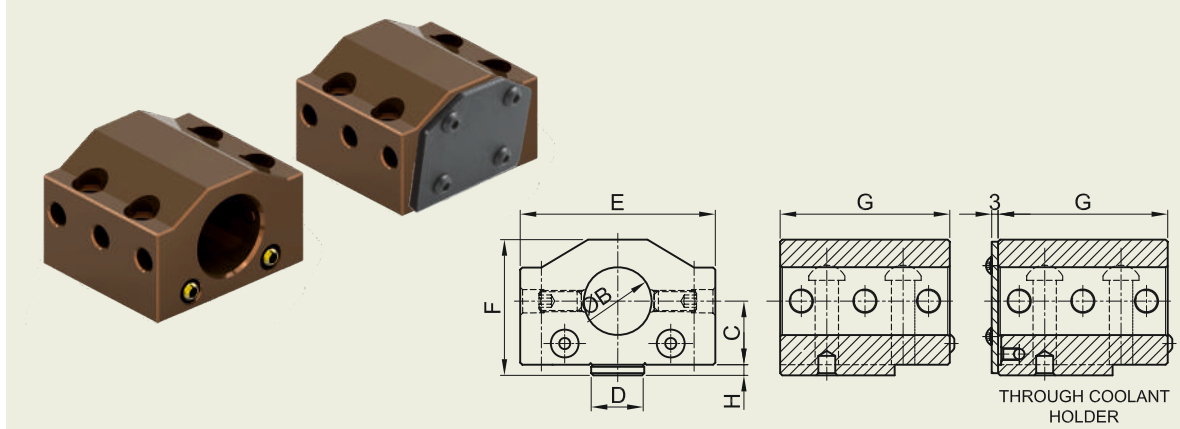
BTH (BORING TOOL HOLDER)

- 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)



CODE	A	ØB (BORE SIZE)	C	D	E	F	G	H	TC	TOOL DISC TYPE
BTH 12-20 CH-18	12	20	18	12	56	35	43	4	*	TD 50-8-12
BTH 16-20 CH 18	16	20	18	16	66	40	51	5	*	TD 50-8-16
BTH 16-25 CH 18	16	25	18	16	66	40	51	5	*	TD 63-8-16
BTH 16-25 CH 32	16	25	32	16	66	40	51	5	*	TD 63-12-16
BTH 20-20 CH 18	20	20	18	16	76	42.5	60	5	*	HTD 63-12-16
BTH 20-25 CH 18	20	25	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
BTH 20-32 CH 18	20	32	18	16	76	42.5	60	5	*	
BTH 20-20 CH 25	20	20	25	16	76	57	60	5	*	
BTH 20-25 CH 25	20	25	25	16	76	57	60	5	*	
BTH 20-32 CH 25	20	32	25	16	76	57	60	5	*	
BTH 20-32 CH 30	20	32	30	16	76	63	60	5	*	
BTH 20-40 CH 30	20	40	30	16	76	63	60	5	*	
BTH 20-32 CH 35	20	32	35	16	76	63	60	5	*	
BTH 25-20 CH 30 L60	25	20	30	25	90	63	60	5	*	
BTH 25-25 CH 30 L60	25	25	30	25	90	63	60	5	*	
BTH 25-32 CH 30 L60	25	32	30	25	90	63	60	5	*	TD 63-8-25
BTH 25-40 CH 30 L60	25	40	30	25	90	63	60	5	*	
BTH 25-25 CH 30	25	25	30	25	92	64	80	5	*	
BTH 25-32 CH 30	25	32	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 TD 125-12-25 HTD 100-12-25 HTD 125-12-25
BTH 25-40 CH 30	25	40	30	25	92	64	80	5	*	
BTH 25-50 CH 30	25	50	30	25	92	73	80	5	*	
BTH 25-32 CH 40	25	32	40	25	92	74	80	5	*	
BTH 25-40 CH 40	25	40	40	25	92	74	80	5	*	
BTH 25-50 CH 40	25	50	40	25	92	79	80	5	*	
BTH 32-40 CH 40	32	40	40	25	114	80	95	5	*	
BTH 32-50 CH 40	32	50	40	25	114	80	95	5	*	
BTH 32-60 CH 40	32	60	40	25	114	85	95	5	*	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
BTH 32-40 CH 50	32	40	50	25	114	90	95	5	*	
BTH 32-50 CH 50	32	50	50	25	114	90	95	5	*	
BTH 40-40 CH 35	40	40	35	25	142	75	95	5	*	
BTH 40-50 CH 35	40	50	35	25	142	75	95	5	*	TD 125-8-40
BTH 160-50 CH 40	40	50	40	40	142	85	124	5	*	
BTH 160-60 CH 40	40	60	40	40	142	85	124	5	*	TD 160-8-40 TD 160-12-40

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

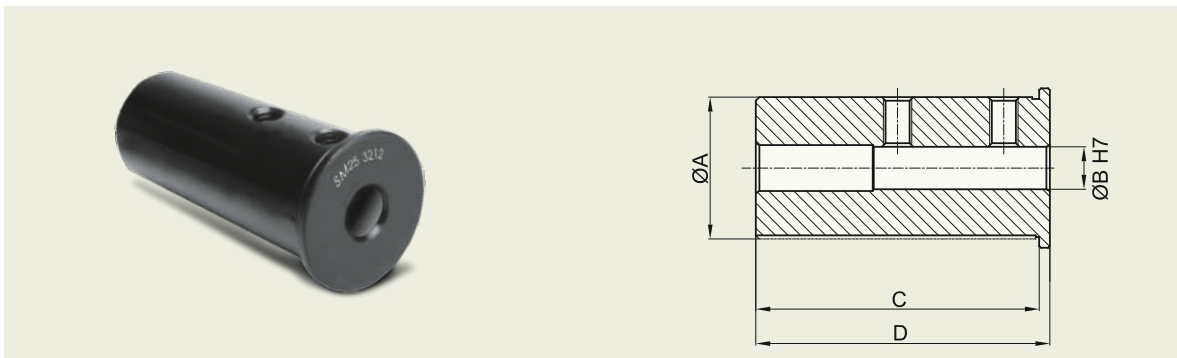
EX:- 1. BTH 12-20 CH 18 (External coolant)

2. BTH 12-20 CH 18 TC (Through coolant)

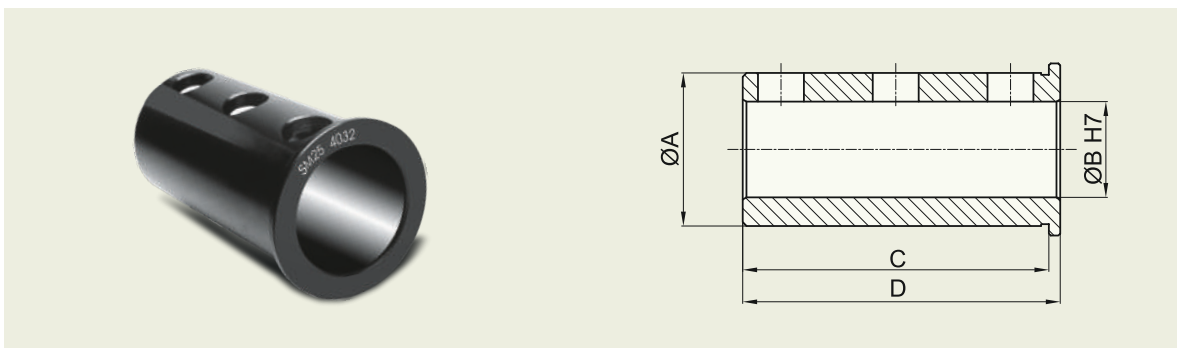
FEATURES

- 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.

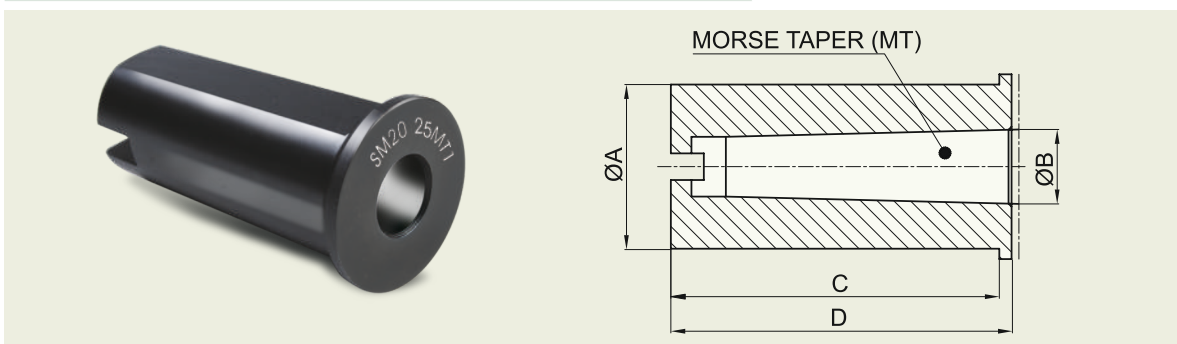
TYPE-1



TYPE-2



TYPE-3

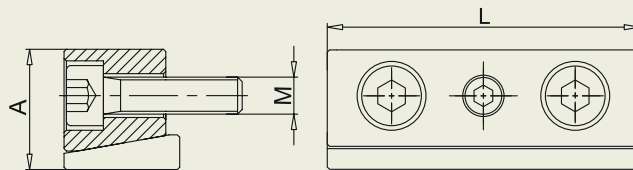


REDUCTION SLEEVES

CODE	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	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		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 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	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 80-8-20 TD 80-12-20 HTD 80-12-20	
SM20 32MT2	32	MT2	70	73	3					
SM25 3208	32	8	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	8	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 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	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 40MT3	40	MT3	79	92	3					
SM32 4008	40	8	93	96	1				BTH 32-40 CH 40 BTH 32-40 CH 50 BTH 40-40 CH 35	TD 100-8-32 TD 125-8-32 TD 160-8-32 HTD 125-8-32 TD 160-12-32 HTD 125-12-32 TD 125-8-40
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 32-40 CH 40 BTH 32-40 CH 50 BTH 40-40 CH 35	TD 100-8-32 TD 125-8-32 TD 160-8-32 HTD 125-8-32 TD 160-12-32 HTD 125-12-32 TD 125-8-40			
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.

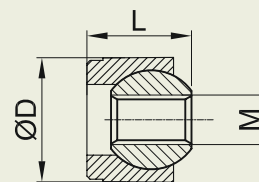
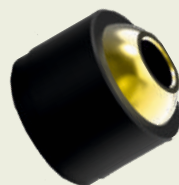
WEDGE ASSEMBLY



CODE	A	L	M
W16 X 43	16	43	6
W20 X 48	20	48	6
W20 X 54	20	54	6
W25 X 58	25	58	8
W25 X 68	25	68	8
W32 X 84	32	84	10
W40 X 94	40	94	12
W40 X109	40	109	12

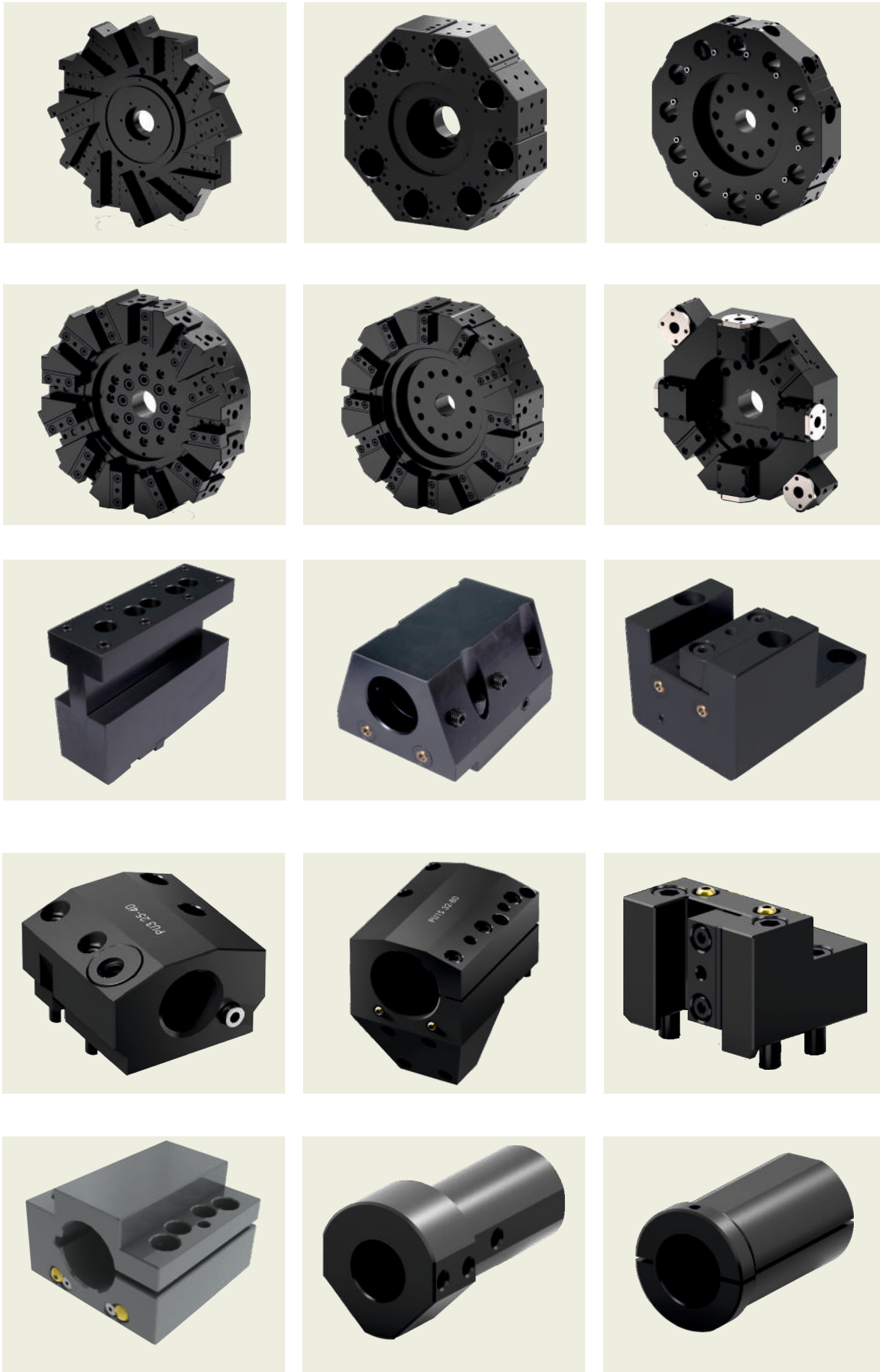
* Customised design can be supplied upon request

PRESS FIT COOLANT BALL ASSEMBLY

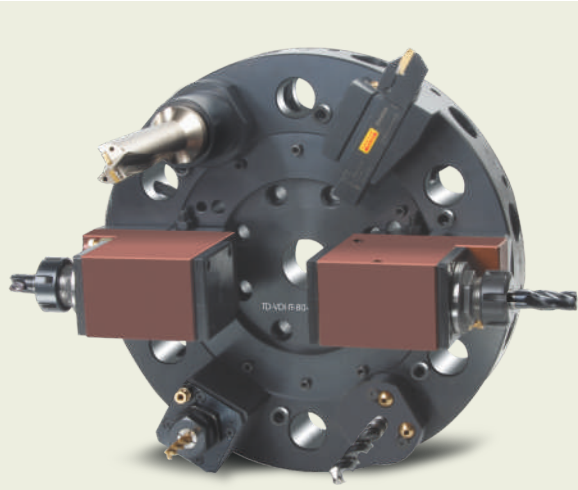


CODE	ØD	L	M
MB10 X M4	10	8.4	4
MB12 X M5	12	10.3	5
MB14 X M5	14	12.5	5
MB14 X M6	14	12.5	6

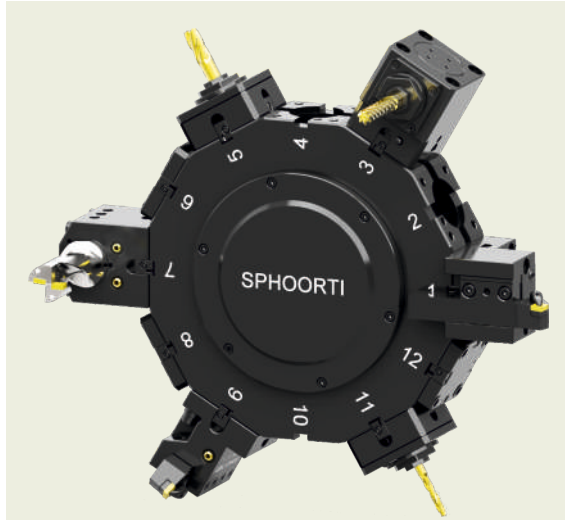
CUSTOM DESIGNED TOOL DISCS & TOOL HOLDERS



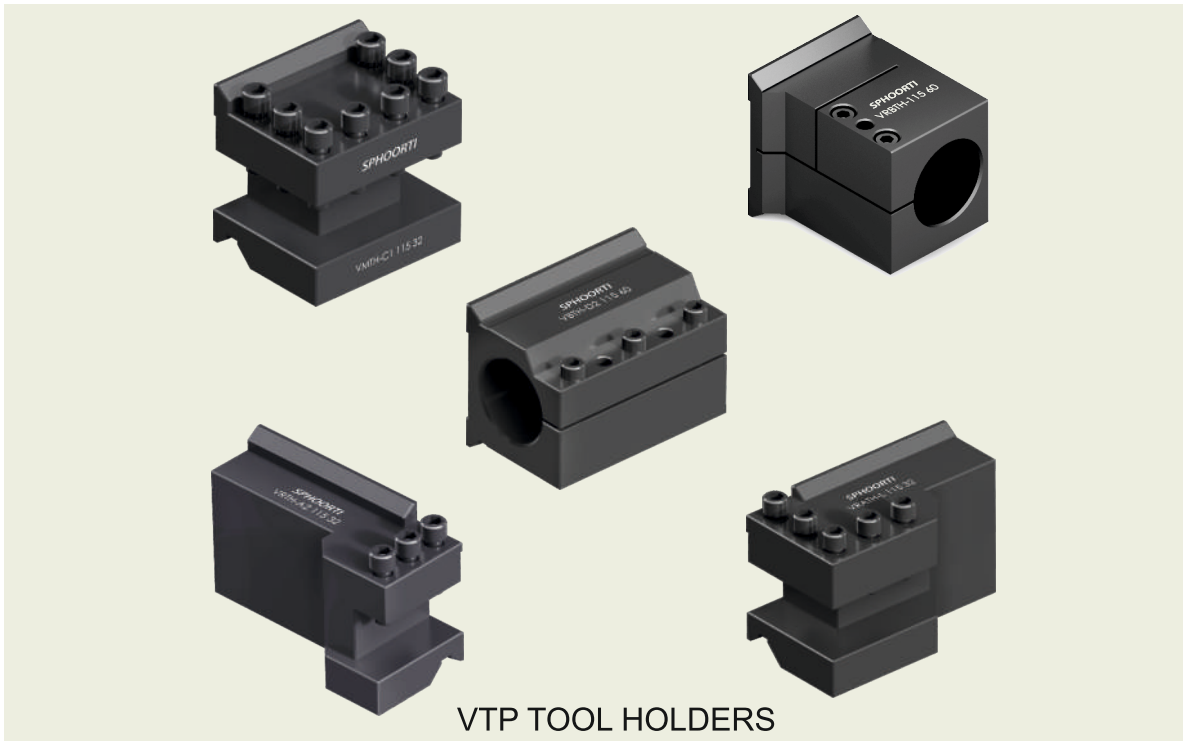
OUR OTHER PRODUCTS



VDI TOOL DISC & TOOL HOLDERS



BMT TOOL DISC & HOLDERS



VTP TOOL HOLDERS



SPHOORTI

Precision Assured

Sphoorti Machine Tools Pvt. Ltd.
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