



Since 1964

TOOLS & APPLIANCES CORPORATION



Applications

TACO" REVERSIBLE TAPPING ATTACHMENT : HR / HRF

Taco Patented Reversible Tapping Attachment Usable On All Pillar Type Drill Machine.
Not Suitable For Radial Milling Machine or CNC Operated VMC Machine :

TACO" REVERSIBLE TAPPING ATTACHMENT TCN / TCNF

Taco Patented Reversible Tapping Attachment Usable On All Pillar Type Drill Machine.
Not Suitable For Radial Milling Machine or CNC Operated VMC Machine

SELF - OPENING DIE-HEAD (STATIONARY) : SDH

Self - Opening Die-Head Can Be Mounted On Center Lathes , Capstan Turrets or Like Machine Tools.

REVOLVING / STATIONARY DIE HEADS MODEL : SD

This Compact Solid Adjusting Die Head Meets The Demand For An Adjustable Die Head That Will Swing In A Small Space Particularly On Machine Having Very Limited Tooling Room. Positive Size Adjustment Provides Exact Decimal Size or Fits.

SELF - OPENING DIE-HEAD (STATIONARY / REVOLVING) : DR / DRF

These Die Heads Can Be Mounted On Center Lathes Capstan Turrets or Like Machine Tools Used On All Machines Having Revolving Spindles Also CNC Operated Used On All SPM Machine.

REVOLVING DIE HEADS FOR CNC MODEL : DRSA/DRSFA

The DRSA Is A Light Solid Adjustable Diehead For Use With Circular Chasers Where Reversing Of The Machine Spindle Is Preferred Over Opening Of The Diehead. Popular Uses Include CNC Machine Centers And Rotary Transfer Machines.

DIE HOLDER : DH

Tapping Attachment Can Easily Converted Into Efficient Threading Attachment By Inserting Die Holder In Its Chuck.

TAP CHUCKS MODEL : TK

Tk/JT: This Tap Chuck Can Be Used For Tapping On Drilling & Milling Machines With Male Jt Spindles.
Tk/MT: This Tap Chuck Can Be Used For Tapping On Drilling & Milling Machines With Female Mt Spindles. Also Can Be Used On Lathe Machines Tail Stock With Female Mt Ream.

TOOL HOLDER BUSHING

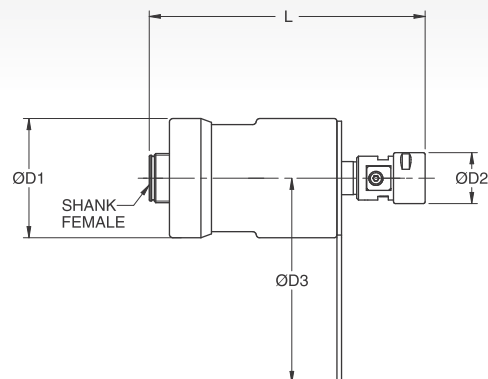
Tool Holder Bushing Is Used In CNC Machines For Holding The Cutting Tools.

POLYGON TAPER INTERFACE (PTI) - SANDVIK CAPTO® EQUIVALENT ISO 26623-1

Static Tool Holding system.

Tapping Systems and Accessories

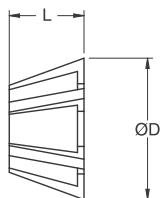
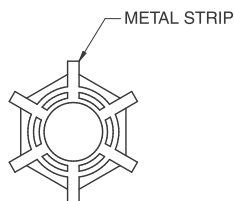
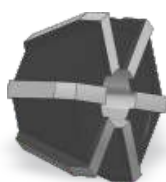
Reversible Tapping Attachments - Model HR



Catalog Number	Description	Tap Size Range		Standard Collet	Optional Collet	Shank Female	L	ØD1	ØD2	ØD3
		(mm)	(inch)							
61291217	HR1/ MT1	M1.4-M7	(1/16" - 1/4")	S-161 (2.5 - 4.5) S-171 (4.5 - 6.5)	S-151 (1 - 2.5)	JT33	140	55	20	103
61301217	HR1/ MT2	M1.4-M7	(1/16" - 1/4")	S-161 (2.5 - 4.5) S-171 (4.5 - 6.5)	S-151 (1 - 2.5)	JT33	150	55	20	103
61302268	HR2/ MT2	M3 -M12	(1/8" - 1/2")	S-212 (3.5 - 6.5) S-222 (6.5 - 10)	S-232 (2 - 4.5)	5/8"-16 UN	200	68	29	127
61312268	HR2/ MT3	M3 -M12	(1/8" - 1/2")	S-212 (3.5 - 6.5) S-222 (6.5 - 10)	S-232 (2 - 4.5)	5/8"-16 UN	220	68	29	127
613025268	HR2/ MT2	M3 -M12	(1/8" - 1/2")	S-212 (3.5 - 6.5) S-222 (6.5 - 10)	S-232 (2 - 4.5)	JT6	200	68	29	127
613125268	HR2/ MT3	M3 -M12	(1/8" - 1/2")	S-212 (3.5 - 6.5) S-222 (6.5 - 10)	S-232 (2 - 4.5)	JT6	220	68	29	127
61313327	HR3 MT3	M8 - M20	(5/16" - 3/4")	S-413 (4.5 - 10) S-453 (10 - 16)	S-433 (2.8 - 7)	M20 P2.5	230	83	37.9	167
61323327	HR3 MT4	M8 - M20	(5/16" - 3/4")	S-413 (4.5 - 10) S-453 (10 - 16)	S-433 (2.8 - 7)	M20 P2.5	240	83	37.9	167
61324433	HR4 MT4	M14 - M30	(9/16" - 1-1/8")	S-613 (9 - 16) S-623 (16 - 23)	-	M20 P2.5	265	110	51.5	268
61334433	HR4 MT5	M14 - M30	(9/16" - 1-1/8")	S-613 (9 - 16) S-623 (16 - 23)	-	M20 P2.5	280	110	51.5	268

NOTE - STANDARD COLLET ARE SUPPLIED WITH HR MODEL.

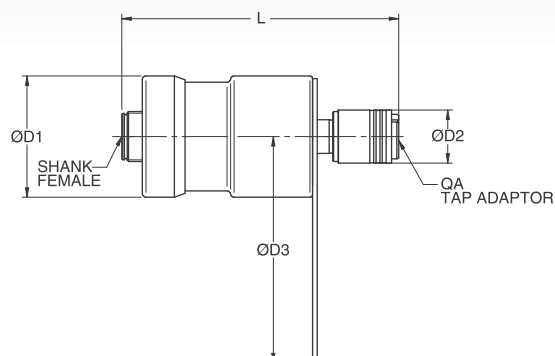
Rubber Collets for Tapping



Model	For Taps	ØD	L	Model
S-151	1.0 - 2.5	15	12	HR1
S-161	2.5 - 4.5	15	12	HR1
S-171	4.5 - 6.5	15	12	HR1
S-212	3.5 - 6.5	22.5	13	HR2
S-222	6.5 - 10	22.5	13	HR2
S-232	2.0 - 4.5	22.5	13	HR2
S-413	4.5 - 10.0	30.5	16	HR3
S-433	2.8 - 7.0	30.5	16	HR3
S-453	10.0-16.0	30.5	16	HR3
S-613	9.0 - 16.0	47	19	HR4
S-623	16.0 - 23.0	47	19	HR4

Tapping Systems and Accessories

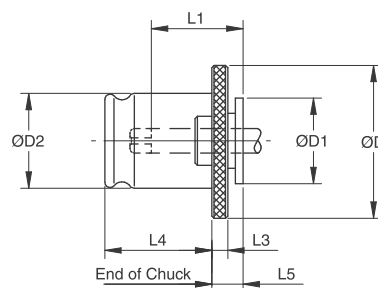
Reversible Tapping Attachments - Model HRF



Catalog Number	Description	Tap Size Range		Standard Tap Adaptor	Shank Female	L	ØD1	ØD2	ØD3
		(mm)	(inch)						
65291217	HRF1/ MT1	M1.4-M7	(1/16" - 1/4")	QA-0	JT33	170	55	23	103
65301217	HRF1/ MT2	M1.4-M7	(1/16" - 1/4")	QA-0	JT33	170	55	23	103
65302268	HRF2/ MT2	M3 -M12	(1/8" - ½")	QA-1	5/8"-16 UN	180	68	30	127
65312268	HRF2/ MT3	M3 -M12	(1/8" - ½")	QA-1	5/8"-16 UN	180	68	30	127
653025268	HRF2/ MT2	M3 -M12	(1/8" - ½")	QA-1	JT6	180	68	30	127
653125268	HRF2/ MT3	M3 -M12	(1/8" - ½")	QA-1	JT6	180	68	30	127
65313327	HRF3 MT3	M8 - M20	(5/16" - ¾")	QA-40	M20 P2.5	190	83	42	167
65323327	HRF3 MT4	M8 - M20	(5/16" - ¾")	QA-40	M20 P2.5	200	83	42	167
65324433	HRF4 MT4	M14 - M30	(9/16" - 1-1/8")	QA-3	M20 P2.5	220	110	72	268
65334433	HRF4 MT5	M14 - M30	(9/16" - 1-1/8")	QA-3	M20 P2.5	220	110	72	268

NOTE - SUPPLIED WITHOUT (QA) TAP ADAPTER.

Tap Adapters QA Style

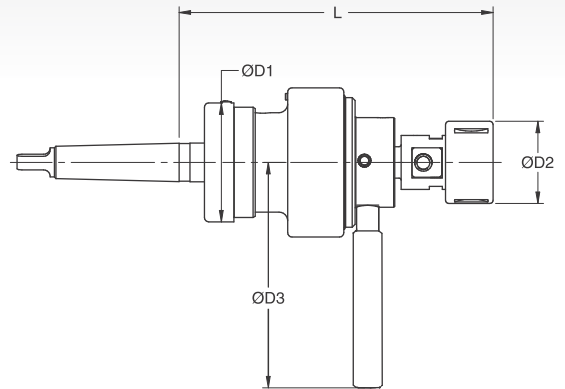
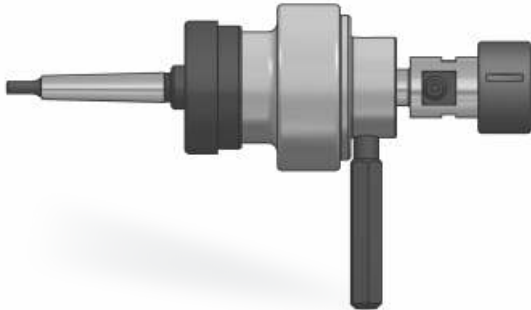


QA Style

Description	Model	For Tap		ØD	ØD1	ØD2	L1	L3	L4	L5
		Thread	Shank							
HRF-1	QA-0	M1 - M10	2.5 - 7.2	22	13	13	15	4	19.5	7
HRF-2 / TCNF-1	QA-1	M3 - M12	3.5 - 11.3	30	19	19	17	4	21.5	7
HRF-3 / TCNF-2-3	QA-40	M6 - M18	6.0 - 14.0	40	25	26	30	5	32	13
HRF-4 / TCNF-4/5	QA-3	M14 - M33	11.0 - 28.0	70	48	48	44	6	55.5	14

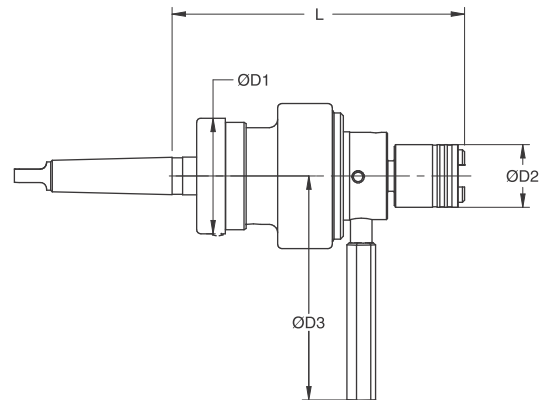
Tapping Systems and Accessories

Reversible Tapping Attachments - Model TCN



Catalog Number	Description	Tap Size Range		L	ØD1	ØD2	ØD3
		(mm)	(inch)				
87529155	TCN1/ MT1	M3-M7	1/8" - 1/4"	150	55	38	213
87530155	TCN1/ MT2	M3-M10	1/8" - 3/8"	155	55	38	213
87530268	TCN2/ MT2	M6-M16	1/4"-5/8"	170	68	53	264
87531268	TCN2/ MT3	M6-M16	1/4"-5/8"	175	67	53	264
87531368	TCN3/ MT3	M8 - M18	5/16" - 3/4"	180	68	55	264
87531488	TCN4/ MT3	M10 - M18	3/8" - 3/4"	205	88	62	319
87532488	TCN4/ MT4	M10 - M24	3/8" - 1"	210	88	62	319
87532588	TCN5/ MT4	M14 - M30	9/16" - 1 1/4"	240	88	75	319

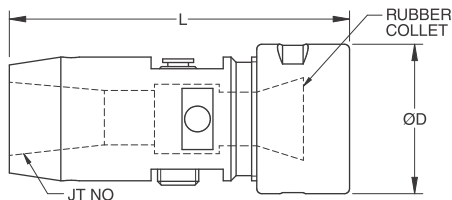
Reversible Tapping Attachments - Model TCNF



Catalog Number	Description	Tap Size Range		Suitable Tap Adaptor	L	ØD1	ØD2	ØD3
		(mm)	(inch)					
87629155	TCNF1/ MT1	M3-M7	1/8" - 1/4"	QA-1	158	55	29	213
87630155	TCNF1/ MT2	M3-M10	1/8" - 3/8"	QA-1	165	55	29	213
87630268	TCNF2/ MT2	M6-M16	1/4"-5/8"	QA-40	165	68	42	264
87631268	TCNF2/ MT3	M6-M16	1/4"-5/8"	QA-40	170	68	42	264
87631368	TCNF3/ MT3	M8 - M18	5/16" - 3/4"	QA-40	170	68	42	264
87631488	TCNF4/ MT3	M10 - M18	3/8" - 3/4"	QA-3	255	96	72	319
87632488	TCNF4/ MT4	M10 - M24	3/8" - 1"	QA-3	260	96	72	319
87632588	TCNF5/ MT4	M14 - M30	9/16" - 1 1/4"	QA-3	270	96	72	319

NOTE - SUPPLIED WITHOUT (QA) TAP ADAPTER.

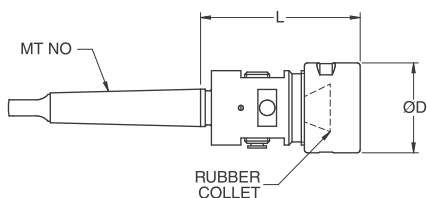
Tap Chuck Model TK / JT



Catalog Number	Model	Suitable Collet	Clamping Capacity	ØD	L
29010113	TK1/JT1	S-232	2.0 - 4.5	29	65
29010214	TK1/JT2	S-212	3.5 - 6.5	29	71
29010615	TK1/JT6	S-222	6.5 - 10.0	29	75
29020316	TK2/JT3	S-433	2.8 - 7.0	38	80
		S-413	4.5 - 10.0	38	80
29020616	TK2/JT6	S-453	10.0 - 16.0	38	80
29030322	TK3/JT3	S-613	9.0 - 16.0	51.5	110
29030422	TK3/JT4	S-623	16 - 23	51.5	110

NOTE - TAP CHUCK MODEL TK/JT ARE SUPPLIED WITHOUT RUBBER COLLET IF REQUIRE ORDER SEPARATELY.

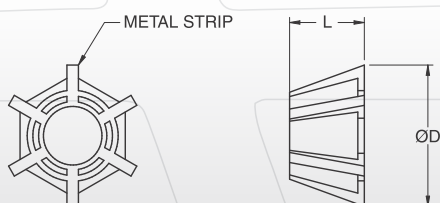
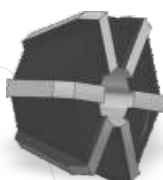
Tap Chuck Model TK / MT



Catalog Number	Model	Suitable Collet	Clamping Capacity	ØD	L
30010109	TK1/MT1	S-232	2.0 - 4.5	29	45
30010209	TK1/MT2	S-212	3.5 - 6.5	29	45
30010309	TK1/MT3	S-222	6.5 - 10.0	29	45
30020210	TK2/MT2	S-433	2.8 - 7.0	38	50
30020310	TK2/MT3	S-413	4.5 - 10.0	38	50
30020410	TK2/MT4	S-453	10.0 - 16.0	38	51.5
30030317	TK3/MT3	S-613	9.0 - 16.0	51.5	86.5
30030417	TK3/MT4	S-623	16 - 23	51.5	86.5
30030517	TK3/MT5	S-623	16 - 23	51.5	86.5

NOTE - TAP CHUCK MODEL TK/MT ARE SUPPLIED WITHOUT RUBBER COLLET IF REQUIRE ORDER SEPARATELY.

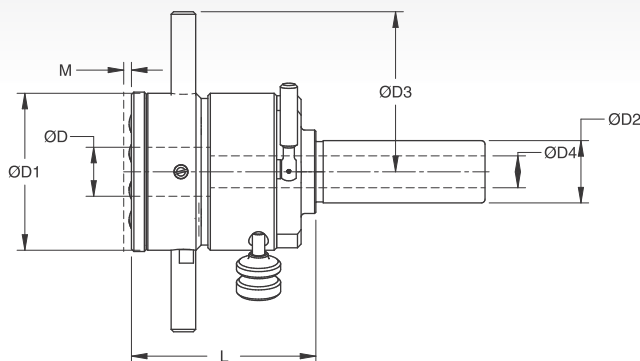
Rubber Collets



Model	For Taps	ØD	L
S-151	1.0 - 2.5	15	12
S-161	2.5 - 4.5	15	12
S-171	4.5 - 6.5	15	12
S-212	3.5 - 6.5	22.5	13
S-222	6.5 - 10	22.5	13
S-232	2.0 - 4.5	22.5	13
S-413	4.5 - 10.0	30.5	16
S-433	2.8 - 7.0	30.5	16
S-453	10.0-16.0	30.5	16
S-613	9.0 - 16.0	47	19
S-623	16.0 - 23.0	47	19

External Threading Accessories

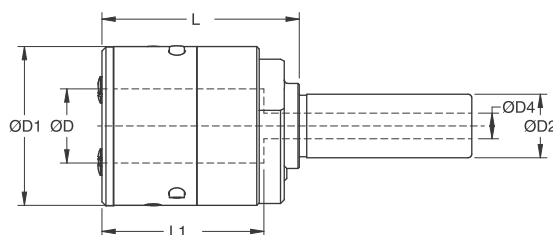
Self Opening Die Head - Model - SDH



Catalog Number	Model	Cutting Range		ØD1	L	ØD3	ØD	M	Standard Shank	
		(mm)	(inch)						ØD2	ØD4
25158038	SDH-1	M2 - M8	(3/32" - 5/16")	48	58	48	10	3.5	5/8"	3/8"
25120038	SDH-1	M2 - M8	(3/32" - 5/16")	48	58	48	10	3.5	20 MM	3/8"
25210058	SDH-2	M4 - M14	(3/16" - 9/16")	65	78	42	17	4.5	1"	5/8"
25230058	SDH-2	M4 - M14	(3/16" - 9/16")	65	78	42	17	4.5	30 MM	5/8"
25315024	SDH-3	M6 - M18	(1/4" - 3/4")	88	99.5	56	24	5	1 1/2"	24 MM
25340024	SDH-3	M6 - M18	(1/4" - 3/4")	88	99.5	56	24	5	40 MM	24 MM
25415116	SDH-4	M10 - M24	(3/8" - 1")	102	109	63	34	5	1 1/2"	1 1/16"
25440116	SDH-4	M10 - M24	(3/8" - 1")	102	109	63	34	5	40 MM	1 1/16"
25554138	SDH-5	M12 - M30	(1/2" - 1 1/4")	120	126	72	36	5.5	2 1/8"	1 3/8"
25560138	SDH-5	M12 - M30	(1/2" - 1 1/4")	120	126	72	36	5.5	60 MM	1 3/8"

NOTE - SPECIAL SHANK MANUFACTURING ON YOUR REQUEST ON PAGE 10.

Revolving / Stationary Die - Head - Model - SD

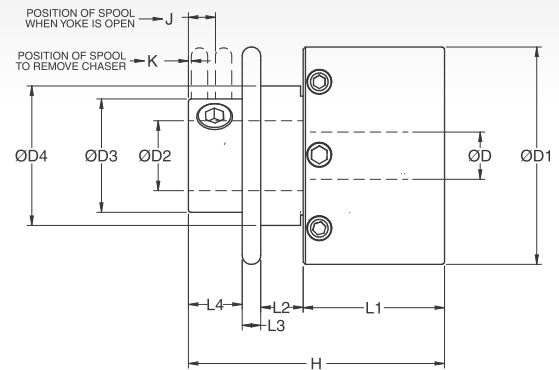


Catalog Number	Description	Cutting Range		ØD1	ØD	L	L1	Standard Shank	
		(mm)	(inch)					ØD2	ØD4
885158038	SD-1	M2 - M8	1/16" - 5/16"	46	12.5	49	24	5/8"	3/8"
885120038	SD-1	M2 - M8	1/16" - 5/16"	46	12.5	49	24	20 MM	3/8"
885210058	SD-2	M3 - M14	1/8" - 9/16"	64	22	67	32.5	1"	5/8"
885230058	SD-2	M3 - M14	1/8" - 9/16"	64	22	67	32.5	30 MM	5/8"
885315024	SD-3	M4 - M18	3/16" - 3/4"	88	24	86	21	1 1/2"	24 MM
885340024	SD-3	M4 - M18	3/16" - 3/4"	88	24	86	21	40 MM	24 MM
885415116	SD-4	M6 - M24	1/4" - 1"	102	37	88	42	1 1/2"	1 1/16"
885440116	SD-4	M6 - M24	1/4" - 1"	102	37	88	42	40 MM	1 1/16"
885554138	SD-5	M10 - M30	3/8" - 1 1/4"	117	42	8	49.5	2 1/8"	1 3/8"
885560138	SD-5	M10 - M30	3/8" - 1 1/4"	117	42	8	49.5	60 MM	1 3/8"

NOTE - SPECIAL SHANK MANUFACTURING ON YOUR REQUEST ON PAGE 10.

External Threading Accessories

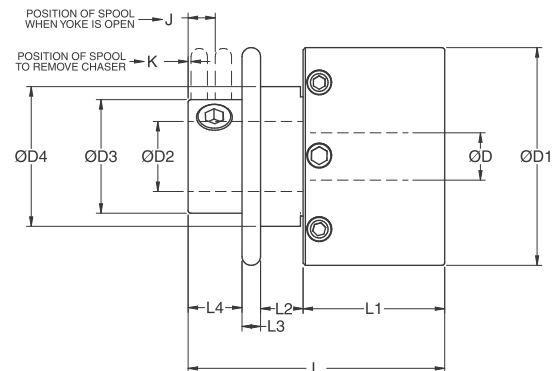
Self Opening Die - Head - Model - DR



Catalog Number	Description	Cutting Range		ØD1	L1	L4	ØD3	ØD	ØD4	L2	L	ØD2	J	K	L3
		(mm)	(inch)												
8850267014	3/8"	M4 - M10	3/16" - 3/8"	67	44	27	25	14	35	10	71	14	22	12	5
8850373024	9/16"	M6 - M14	1/4" - 9/16"	73	48	18	38	16	47	14	66	24	12	1	6
8850510328	1"	M6 - M20	1/4" - 13/16"	103	57	20	38	27	51	14	77	28	12	1	6
8850712428	1-5/8"	M12 - M28	1/2" - 1-5/8"	124	57	23	70	43	89	19	80	28	15	1	6

NOTE - SPECIAL SHANK MANUFACTURING ON YOUR REQUEST ON 11.

Self Opening Die - Head - Model - DRF

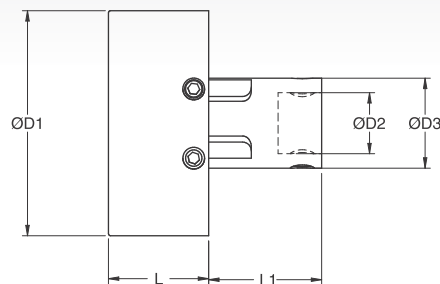


Catalog Number	Description	Cutting Range		ØD1	L1	L4	ØD3	ØD	ØD4	L2	L	ØD2	J	K	L3
		(mm)	(inch)												
8850910324	1"	M10 - M20	7/16" - 13/16"	103	57	20	38	27	51	14	93	24	14	1	6
8851012428	1-5/8"	M12 - M42	1/2" - 1-5/8"	124	57	23	70	43	89	19	106	28	15	1	6
8851115244	2-3/8"	M24 - M60	1" - 2-3/8"	152	65	18	76	36	98	19	109	44	8	1	6

NOTE - SPECIAL SHANK MANUFACTURING ON YOUR REQUEST ON 11.

External Threading Accessories

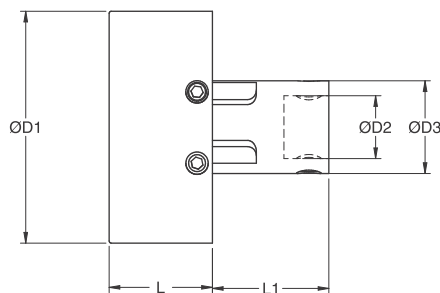
Revolving Die - Heads for CNC - Model - DRSA



Catalog Number	Description	Cutting Range		ØD1	L	L1	ØD3	ØD2
		(mm)	(inch)					
8851273023	9/16"	M6 - M14	1/4" - 9/16"	73	37	49	38	24
8851810328	1"	M6 - M20	1/4" - 13/16"	103	46	51	41	28
8851912428	1-5/8"	M12 - M28	1/2" - 1-1/16"	124	48	60	70	28

NOTE - SPECIAL SHANK MANUFACTURING ON YOUR REQUEST ON 11.

Revolving Die - Heads for CNC - Model - DRFSA

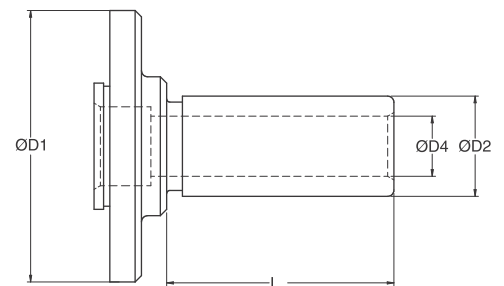
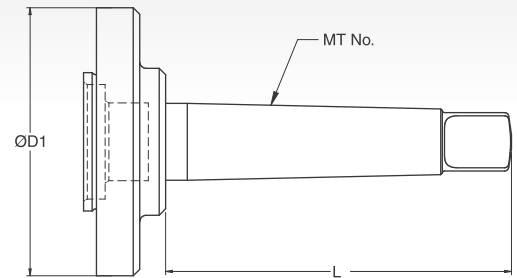
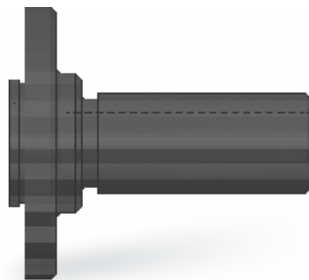
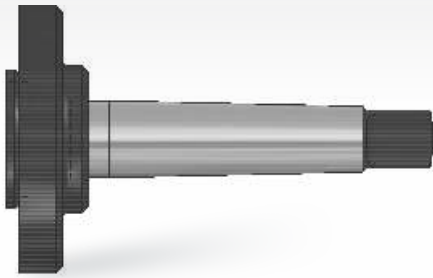


Catalog Number	Description	Cutting Range		ØD1	L	L1	ØD3	ØD2
		(mm)	(inch)					
8853210328	1"	M6 - M20	1/4" - 13/16"	103	47	51	41	28
8853312428	1-5/8"	M12 - M28	1/2" - 1-1/16"	124	48	60	70	28
8853415244	2-3/8"	M26 - M60	1" - 2-3/8"	152	65	95	70	44

NOTE - SPECIAL SHANK MANUFACTURING ON YOUR REQUEST ON 11.

Special Shanks

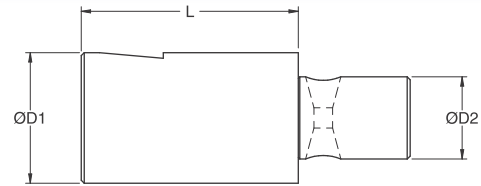
Model - SDH & SD



Catalog Number	Shank Ordering Code	ØD2	ØD4	ØD1	L
88520428	0211	3/4"	3/8"	43	34
88520429	0212	1"	5/8"		34
88520431	0214	MT1	-		62
88520432	0215	MT2	-		75
88520433	0220	5/8"	3/8"	62	69
88520434	0221	3/4"	9/16"		69
88520436	0223	1 1/4"	7/8"		69
88520437	0224	25 MM	5/8"		69
88520439	0226	MT2	-		75
88520440	0227	MT3	-		94
88520441	0228	MT4	-		117.5
88520442	0229	MT5	-		149.5
88520443	0230	3/4"	9/16"	84	75
88520444	0231	1"	9/16"		75
88520445	0232	1 1/4"	7/8"		75
88520446	0233	2 1/8"	1 1/16"		75
88520449	0236	MT2	-		94
88520450	0237	MT3	-		94
88520451	0238	MT4	-		117.5
88520452	0239	MT5	-		149.5
88520453	0240	1"	9/16"	97	82
88520456	0243	MT2	-		75
88520457	0244	MT3	-		94
88520458	0245	MT4	-		117.5
88520459	0246	MT5	-		149.5
88520460	0250	1 1/2"	3/4"	111	90
88520461	0251	2"	1 1/4"		90
88520462	0252	1 1/4"	7/8"		94
88520463	0253	1 3/4"	1 1/16"		94
88520466	0256	MT2	-		75
88520467	0257	MT3	-		94
88520468	0258	MT4	-		117.5
88520469	0259	MT5	-		149.5

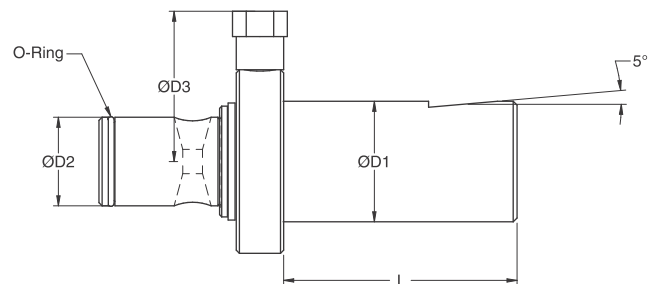
Special Shank

Model - Straight Shank



Catalog Number	Shank Ordering Code	Model	ØD2	ØD1	L
88520470	0110	9/16" DR, DRSA	24	25	46
88520471	0120	1" DR, DRSA, DRFSA	28	25	46
88520472	0117	1-5/8" DR, DRF	28	38	74

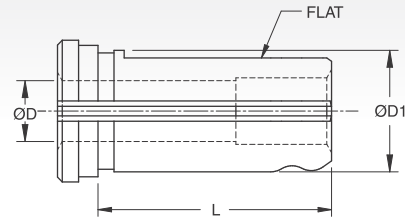
Model - Straight Coolant



Catalog Number	Shank Ordering Code	Model	ØD2	ØD3	O-RING	ØD1	L
88520473	0110-CI	9/16" DR, DRSA	24	44	2	25	46
88520474	0120-CI	1" DR, DRSA, DRFSA	28	44	2	25	46
88520475	0117-CI	1-5/8" DR, DRF	28	44	2	38	74

Tool Holder Bushing

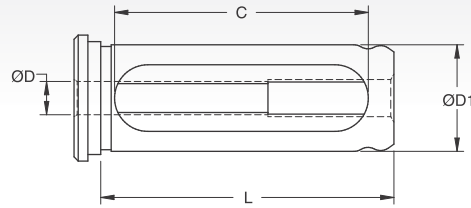
TYPE B



Catalog Number	Description	ØD	ØD1	L Length under Head
B20060	Type B Bushing 20.0 OD X 06.0 ID	6	20	38
B20080	Type B Bushing 20.0 OD X 08.0 ID	8	20	38
B20100	Type B Bushing 20.0 OD X 10.0 ID	10	20	38
B20120	Type B Bushing 20.0 OD X 12.0 ID	12	20	38
B25060	Type B Bushing 25.0 OD X 06.0 ID	6	25	44
B25080	Type B Bushing 25.0 OD X 08.0 ID	8	25	44
B25100	Type B Bushing 25.0 OD X 10.0 ID	10	25	44
B25120	Type B Bushing 25.0 OD X 12.0 ID	12	25	44
B25150	Type B Bushing 25.0 OD X 15.0 ID	15	25	44
B25200	Type B Bushing 25.0 OD X 20.0 ID	20	25	44
B30100	Type B Bushing 30.0 OD X 10.0 ID	10	30	54
B30120	Type B Bushing 30.0 OD X 12.0 ID	12	30	54
B30150	Type B Bushing 30.0 OD X 15.0 ID	15	30	54
B30200	Type B Bushing 30.0 OD X 20.0 ID	20	30	54
B30220	Type B Bushing 30.0 OD X 22.0 ID	22	30	54
B30250	Type B Bushing 30.0 OD X 25.0 ID	25	30	54
B40100	Type B Bushing 40.0 OD X 10.0 ID	10	40	64
B40120	Type B Bushing 40.0 OD X 12.0 ID	12	40	64
B40150	Type B Bushing 40.0 OD X 15.0 ID	15	40	64
B40200	Type B Bushing 40.0 OD X 20.0 ID	20	40	64
B40220	Type B Bushing 40.0 OD X 22.0 ID	22	40	64
B40250	Type B Bushing 40.0 OD X 25.0 ID	25	40	64
B40300	Type B Bushing 40.0 OD X 30.0 ID	30	40	64
B45120	Type B Bushing 45.0 OD X 12.0 ID	12	45	76
B45150	Type B Bushing 45.0 OD X 15.0 ID	15	45	76
B45200	Type B Bushing 45.0 OD X 20.0 ID	20	45	76
B45220	Type B Bushing 45.0 OD X 22.0 ID	22	45	76
B45250	Type B Bushing 45.0 OD X 25.0 ID	25	45	76
B45300	Type B Bushing 45.0 OD X 30.0 ID	30	45	76
B45400	Type B Bushing 45.0 OD X 40.0 ID	40	45	76
B50120	Type B Bushing 50.0 OD X 12.0 ID	12	50	89
B50150	Type B Bushing 50.0 OD X 15.0 ID	15	50	89
B50200	Type B Bushing 50.0 OD X 20.0 ID	20	50	89
B50220	Type B Bushing 50.0 OD X 22.0 ID	22	50	89
B50250	Type B Bushing 50.0 OD X 25.0 ID	25	50	89
B50300	Type B Bushing 50.0 OD X 30.0 ID	30	50	89
B50400	Type B Bushing 50.0 OD X 40.0 ID	40	50	89
B50450	Type B Bushing 50.0 OD X 45.0 ID	45	50	89
B60200	Type B Bushing 60.0 O.D.X 20.0 ID	20	60	102
B60250	Type B Bushing 60.0 O.D.X 25.0 ID	25	60	102
B60300	Type B Bushing 60.0 O.D.X 30.0 ID	30	60	102
B60400	Type B Bushing 60.0 O.D.X 40.0 ID	40	60	102
B60450	Type B Bushing 60.0 O.D.X 45.0 ID	45	60	102
B60500	Type B Bushing 60.0 O.D.X 50.0 ID	50	60	102
B60550	Type B Bushing 60.0 O.D.X 55.0 ID	55	60	102

Tool Holder Bushing

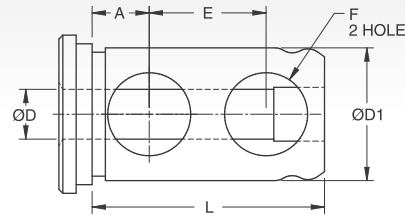
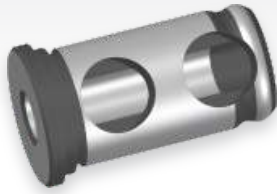
Type C



Catalog Number	Description	ØD	ØD1	C Slot Length	L Length under Head	No. of Slots
C20060	Type C Bushing 20.0 OD x 6.0 ID	6	20	38	50	1
C20080	Type C Bushing 20.0 OD x 8.0 ID	8	20	38	50	1
C20100	Type C Bushing 20.0 OD x 10.0 ID	10	20	38	50	1
C20120	Type C Bushing 20.0 OD x 12.0 ID	12	20	38	50	1
C25060	Type C Bushing 25.0 OD x 6.0 ID	6	25	60	70	1
C25080	Type C Bushing 25.0 OD x 8.0 ID	8	25	60	70	1
C25100	Type C Bushing 25.0 OD x 10.0 ID	10	25	60	70	1
C25120	Type C Bushing 25.0 OD x 12.0 ID	12	25	60	70	1
C25150	Type C Bushing 25.0 OD x 15.0 ID	15	25	60	70	1
C25200	Type C Bushing 25.0 OD x 20.0 ID	20	25	60	70	1
C30100	Type C Bushing 30.0 OD x 10.0 ID	10	30	70	85	1
C30120	Type C Bushing 30.0 OD x 12.0 ID	12	30	70	85	1
C30150	Type C Bushing 30.0 OD x 15.0 ID	15	30	70	85	1
C30200	Type C Bushing 30.0 OD x 20.0 ID	20	30	70	85	1
C30220	Type C Bushing 30.0 OD x 22.0 ID	22	30	70	85	1
C30250	Type C Bushing 30.0 OD x 25.0 ID	25	30	70	85	1
C40100	Type C Bushing 40.0 OD x 10.0 ID	10	40	76	86	1
C40120	Type C Bushing 40.0 OD x 12.0 ID	12	40	76	86	1
C40150	Type C Bushing 40.0 OD x 15.0 ID	15	40	76	86	1
C40200	Type C Bushing 40.0 OD x 20.0 ID	20	40	76	86	1
C40220	Type C Bushing 40.0 OD x 22.0 ID	22	40	76	86	1
C40250	Type C Bushing 40.0 OD x 25.0 ID	25	40	76	86	1
C40300	Type C Bushing 40.0 OD x 30.0 ID	30	40	76	86	1
C45120	Type C Bushing 45.0 OD x 12.0 ID	12	45	79	90	1
C45150	Type C Bushing 45.0 OD x 15.0 ID	15	45	79	90	1
C45200	Type C Bushing 45.0 OD x 20.0 ID	20	45	79	90	1
C45220	Type C Bushing 45.0 OD x 22.0 ID	22	45	79	90	1
C45250	Type C Bushing 45.0 OD x 25.0 ID	25	45	79	90	1
C45300	Type C Bushing 45.0 OD x 30.0 ID	30	45	79	90	1
C45400	Type C Bushing 45.0 OD x 40.0 ID	40	45	79	90	1
C50120	Type C Bushing 50.0 OD x 12.0 ID	12	50	92	105	1
C50150	Type C Bushing 50.0 OD x 15.0 ID	15	50	92	105	1
C50200	Type C Bushing 50.0 OD x 20.0 ID	20	50	92	105	1
C50220	Type C Bushing 50.0 OD x 22.0 ID	22	50	92	105	1
C50250	Type C Bushing 50.0 OD x 25.0 ID	25	50	92	105	1
C50300	Type C Bushing 50.0 OD x 30.0 ID	30	50	92	105	1
C50400	Type C Bushing 50.0 OD x 40.0 ID	40	50	92	105	1
C50450	Type C Bushing 50.0 OD x 45.0 ID	45	50	92	105	1
C60200	Type C Bushing 60.0 O.D.X 20.0 ID	20	60	105	115	1
C60250	Type C Bushing 60.0 O.D.X 25.0 ID	25	60	105	115	1
C60300	Type C Bushing 60.0 O.D.X 30.0 ID	30	60	105	115	1
C60400	Type C Bushing 60.0 O.D.X 40.0 ID	40	60	105	115	1
C60450	Type C Bushing 60.0 O.D.X 45.0 ID	45	60	105	115	1
C60500	Type C Bushing 60.0 O.D.X 50.0 ID	50	60	105	115	1
C60550	Type C Bushing 60.0 O.D.X 55.0 ID	55	60	105	115	1

Tool Holder Bushing

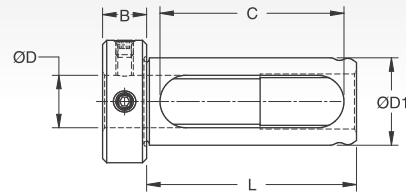
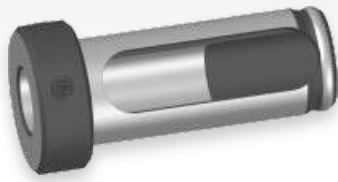
Type J



Catalog Number	Description	ØD	ØD1	L Length under Head	A Length	E Length	F Hole
J20060	Type J Bushing 20.0 OD x 6.0 ID	6	20	40	10	21	9
J20080	Type J Bushing 20.0 OD x 8.0 ID	8	20	40	10	21	9
J20100	Type J Bushing 20.0 OD x 10.0 ID	10	20	40	10	21	9
J20120	Type J Bushing 20.0 OD x 12.0 ID	12	20	40	10	21	9
J20060	Type J Bushing 25.0 OD x 6.0 ID	6	25	45	11	22	16
J20080	Type J Bushing 25.0 OD x 8.0 ID	8	25	45	11	22	16
J25100	Type J Bushing 25.0 OD x 10.0 ID	10	25	45	11	22	16
J25120	Type J Bushing 25.0 OD x 12.0 ID	12	25	45	11	22	16
J25150	Type J Bushing 25.0 OD x 15.0 ID	15	25	45	11	22	16
J25200	Type J Bushing 25.0 OD x 20.0 ID	20	25	45	11	22	16
J30100	Type J Bushing 30.0 OD x 10.0 ID	10	30	55	16	25	19
J30120	Type J Bushing 30.0 OD x 12.0 ID	12	30	55	16	25	19
J30150	Type J Bushing 30.0 OD x 15.0 ID	15	30	55	16	25	19
J30200	Type J Bushing 30.0 OD x 20.0 ID	20	30	55	16	25	19
J30220	Type J Bushing 30.0 OD x 22.0 ID	22	30	55	16	25	19
J30250	Type J Bushing 30.0 OD x 25.0 ID	25	30	55	16	25	19
J40100	Type J Bushing 40.0 OD x 10.0 ID	10	40	65	17	29	22
J40120	Type J Bushing 40.0 OD x 12.0 ID	12	40	65	17	29	22
J40150	Type J Bushing 40.0 OD x 15.0 ID	15	40	65	17	29	22
J40200	Type J Bushing 40.0 OD x 20.0 ID	20	40	65	17	29	22
J40220	Type J Bushing 40.0 OD x 22.0 ID	22	40	65	17	29	22
J40250	Type J Bushing 40.0 OD x 25.0 ID	25	40	65	17	29	22
J40300	Type J Bushing 40.0 OD x 30.0 ID	30	40	65	17	29	22
J45120	Type J Bushing 45.0 OD x 12.0 ID	12	45	80	19	32	22
J45150	Type J Bushing 45.0 OD x 15.0 ID	15	45	80	19	32	22
J45200	Type J Bushing 45.0 OD x 20.0 ID	20	45	80	19	32	22
J45220	Type J Bushing 45.0 OD x 22.0 ID	22	45	80	19	32	22
J45250	Type J Bushing 45.0 OD x 25.0 ID	25	45	80	19	32	22
J45300	Type J Bushing 45.0 OD x 30.0 ID	30	45	80	19	32	22
J45400	Type J Bushing 45.0 OD x 40.0 ID	40	45	80	19	32	22
J50120	Type J Bushing 50.0 OD x 12.0 ID	12	50	90	19	39	25
J50150	Type J Bushing 50.0 OD x 15.0 ID	15	50	90	19	39	25
J50200	Type J Bushing 50.0 OD x 20.0 ID	20	50	90	19	39	25
J50220	Type J Bushing 50.0 OD x 22.0 ID	22	50	90	19	39	25
J50250	Type J Bushing 50.0 OD x 25.0 ID	25	50	90	19	39	25
J50300	Type J Bushing 50.0 OD x 30.0 ID	30	50	90	19	39	25
J50400	Type J Bushing 50.0 OD x 40.0 ID	40	50	90	19	39	25
J50450	Type J Bushing 50.0 OD x 45.0 ID	45	50	90	19	39	25
J60200	Type J Bushing 60.0 O.D.X 20.0 ID	20	60	110	22	44	32
J60250	Type J Bushing 60.0 O.D.X 25.0 ID	25	60	110	22	44	32
J60300	Type J Bushing 60.0 O.D.X 30.0 ID	30	60	110	22	44	32
J60400	Type J Bushing 60.0 O.D.X 40.0 ID	40	60	110	22	44	32
J60450	Type J Bushing 60.0 O.D.X 45.0 ID	45	60	110	22	44	32
J60500	Type J Bushing 60.0 O.D.X 50.0 ID	50	60	110	22	44	32
J60550	Type J Bushing 60.0 O.D.X 55.0 ID	55	60	110	22	44	32

Tool Holder Bushing

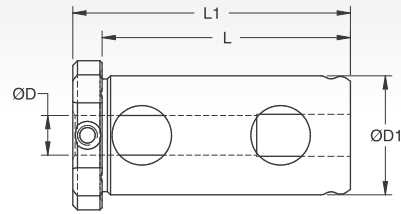
Type Z



Catalog Number	Description	ØD	ØD1	C Slot Length	B Head Thickness	L Length under Head
Z20060	Type Z Bushing 20.0 OD X 6.0 ID	6	20	60	13	64
Z20080	Type Z Bushing 20.0 OD X 8.0 ID	8	20	60	13	64
Z20100	Type Z Bushing 20.0 OD X 10.0 ID	10	20	60	13	64
Z20120	Type Z Bushing 20.0 OD X 12.0 ID	12	20	60	13	64
Z25060	Type Z Bushing 25.0 OD X 6.0 ID	6	25	60	13	70
Z25080	Type Z Bushing 25.0 OD X 8.0 ID	8	25	60	13	70
Z25100	Type Z Bushing 25.0 OD X 10.0 ID	10	25	60	13	70
Z25120	Type Z Bushing 25.0 OD X 12.0 ID	12	25	60	13	70
Z25150	Type Z Bushing 25.0 OD X 15.0 ID	15	25	60	13	70
Z25200	Type Z Bushing 25.0 OD X 20.0 ID	20	25	60	13	70
Z30100	Type Z Bushing 30.0 OD X 10.0 ID	10	30	67	16	76
Z30120	Type Z Bushing 30.0 OD X 12.0ID	12	30	67	16	76
Z30150	Type Z Bushing 30.0 OD X 15.0ID	15	30	67	16	76
Z30200	Type Z Bushing 30.0 OD X 20.0ID	20	30	67	16	76
Z30220	Type Z Bushing 30.0 OD X 22.0ID	22	30	67	16	76
Z30250	Type Z Bushing 30.0 OD X 25.0ID	25	30	67	16	76
Z40100	Type Z Bushing 40.0 OD X 10.0 ID	10	40	73	19	83
Z40120	Type Z Bushing 40.0 OD X 12.0 ID	12	40	73	19	83
Z40150	Type Z Bushing 40.0 OD X 15.0 ID	15	40	73	19	83
Z40200	Type Z Bushing 40.0 OD X 20.0 ID	20	40	73	19	83
Z40220	Type Z Bushing 40.0 OD X 22.0 ID	22	40	73	19	83
Z40250	Type Z Bushing 40.0 OD X 25.0 ID	25	40	73	19	83
Z40300	Type Z Bushing 40.0 OD X 30.0 ID	30	40	73	19	83
Z45120	Type Z Bushing 45.0 OD X 12.0 ID	12	45	79	19	89
Z45150	Type Z Bushing 45.0 OD X 15.0 ID	15	45	79	19	89
Z45200	Type Z Bushing 45.0 OD X 20.0 ID	20	45	79	19	89
Z45220	Type Z Bushing 45.0 OD X 22.0 ID	22	45	79	19	89
Z45250	Type Z Bushing 45.0 OD X 25.0 ID	25	45	79	19	89
Z45300	Type Z Bushing 45.0 OD X 30.0 ID	30	45	79	19	89
Z45400	Type Z Bushing 45.0 OD X 40.0 ID	40	45	79	19	89
Z50120	Type Z Bushing 50.0 OD X 12.0 ID	12	50	86	19	95
Z50150	Type Z Bushing 50.0 OD X 15.0 ID	15	50	86	19	95
Z50200	Type Z Bushing 50.0 OD X 20.0 ID	20	50	86	19	95
Z50220	Type Z Bushing 50.0 OD X 22.0 ID	22	50	86	19	95
Z50250	Type Z Bushing 50.0 OD X 25.0 ID	25	50	86	19	95
Z50300	Type Z Bushing 50.0 OD X 30.0 ID	30	50	86	19	95
Z50400	Type Z Bushing 50.0 OD X 40.0 ID	40	50	86	19	95
Z50450	Type Z Bushing 50.0 OD X 45.0 ID	45	50	86	19	95
Z60200	Type Z Bushing 60.0 O.D.X 20.0 ID	20	60	98	25	108
Z60250	Type Z Bushing 60.0 O.D.X 25.0 ID	25	60	98	25	108
Z60300	Type Z Bushing 60.0 O.D.X 30.0 ID	30	60	98	25	108
Z60400	Type Z Bushing 60.0 O.D.X 40.0 ID	40	60	98	25	108
Z60450	Type Z Bushing 60.0 O.D.X 45.0 ID	45	60	98	25	108
Z60500	Type Z Bushing 60.0 O.D.X 50.0 ID	50	60	98	25	108
Z60550	Type Z Bushing 60.0 O.D.X 55.0 ID	55	60	98	25	108

Tool Holder Bushing

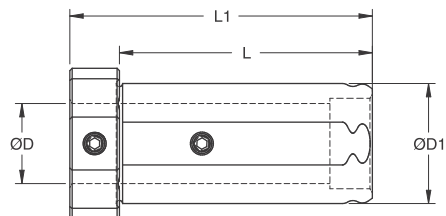
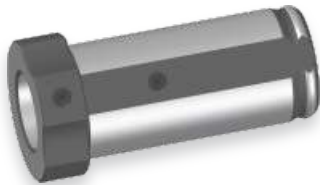
Type LB



Catalog Number	Description	ØD	ØD1	L Length under Head	L1
LB40060	Type LB Bushing 40.0 OD x 6.0 ID	40	6	80	96
LB40100	Type LB Bushing 40.0 OD x 10.0 ID	40	10	80	96
LB40120	Type LB Bushing 40.0 OD x 12.0 ID	40	12	80	96
LB40150	Type LB Bushing 40.0 OD x 15.0 ID	40	15	80	96
LB40200	Type LB Bushing 40.0 OD x 20.0 ID	40	20	80	96
LB40220	Type LB Bushing 40.0 OD x 22.0 ID	40	22	80	96
LB40250	Type LB Bushing 40.0 OD x 25.0 ID	40	25	80	96
LB40300	Type LB Bushing 40.0 OD x 30.0 ID	40	30	80	96

Tool Holder Bushing

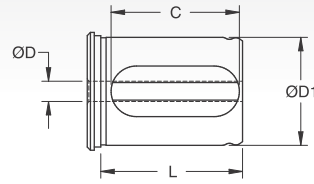
Type LBF



Catalog Number	Description	ØD	ØD1	L Length under Head	L1
LBF40060	Type LBF Bushing 40.0 OD x 6.0 ID	40	6	80	96
LBF40100	Type LBF Bushing 40.0 OD x 10.0 ID	40	10	80	96
LBF40120	Type LBF Bushing 40.0 OD x 12.0 ID	40	12	80	96
LBF40150	Type LBF Bushing 40.0 OD x 15.0 ID	40	15	80	96
LBF40200	Type LBF Bushing 40.0 OD x 20.0 ID	40	20	80	96
LBF40220	Type LBF Bushing 40.0 OD x 22.0 ID	40	22	80	96
LBF40250	Type LBF Bushing 40.0 OD x 25.0 ID	40	25	80	96
LBF40300	Type LBF Bushing 40.0 OD x 30.0 ID	40	30	80	96

Tool Holder Bushing

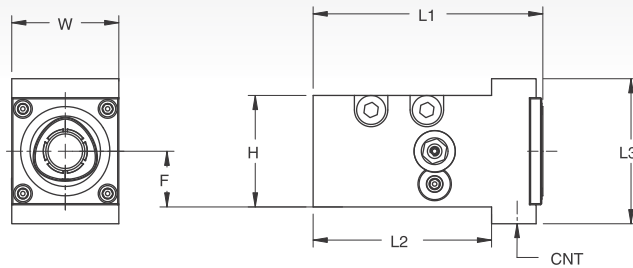
Type CS



Catalog Number	Description	ØD	ØD1	C Slot Length	L Length under Head	No. of Slots
CS20060	Type CS Bushing 20.0 OD X 6.0 ID	6	20	29	40	1
CS20080	Type CS Bushing 20.0 OD X 8.0 ID	8	20	29	40	1
CS20100	Type CS Bushing 20.0 OD X 10.0 ID	10	20	29	40	1
CS20120	Type CS Bushing 20.0 OD X 12.0 ID	12	20	29	40	1
CS25060	Type CS Bushing 25.0 OD X 6.0 ID	6	25	35	45	1
CS25080	Type CS Bushing 25.0 OD X 8.0 ID	8	25	35	45	1
CS25100	Type CS Bushing 25.0 OD X 10.0 ID	10	25	35	45	1
CS25120	Type CS Bushing 25.0 OD X 12.0 ID	12	25	35	45	1
CS25150	Type CS Bushing 25.0 OD X 15.0 ID	15	25	35	45	1
CS25200	Type CS Bushing 25.0 OD X 20.0 ID	20	25	35	45	1
CS30100	Type CS Bushing 30.0 OD X 10.0 ID	10	30	45	55	1
CS30120	Type CS Bushing 30.0 OD X 12.0 ID	12	30	50	55	1
CS30150	Type CS Bushing 30.0 OD X 15.0 ID	15	30	45	55	1
CS30200	Type CS Bushing 30.0 OD X 20.0 ID	20	30	45	55	1
CS30220	Type CS Bushing 30.0 OD X 22.0 ID	22	30	45	55	1
CS30250	Type CS Bushing 30.0 OD X 25.0 ID	25	30	45	55	1
CS40100	Type CS Bushing 40.0 OD X 10.0 ID	10	40	55	65	1
CS40120	Type CS Bushing 40.0 OD X 12.0 ID	12	40	55	65	1
CS40150	Type CS Bushing 40.0 OD X 15.0 ID	15	40	55	65	1
CS40200	Type CS Bushing 40.0 OD X 20.0 ID	20	40	55	65	1
CS40220	Type CS Bushing 40.0 OD X 22.0 ID	22	40	55	65	1
CS40250	Type CS Bushing 40.0 OD X 25.0 ID	25	40	55	65	1
CS40300	Type CS Bushing 40.0 OD X 30.0 ID	30	40	55	65	1
CS45120	Type CS Bushing 45.0 OD X 12.0 ID	12	45	67	77	1
CS45150	Type CS Bushing 45.0 OD X 15.0 ID	15	45	67	77	1
CS45200	Type CS Bushing 45.0 OD X 20.0 ID	20	45	67	77	1
CS45220	Type CS Bushing 45.0 OD X 22.0 ID	22	45	67	77	1
CS45250	Type CS Bushing 45.0 OD X 25.0 ID	25	45	67	77	1
CS45300	Type CS Bushing 45.0 OD X 30.0 ID	30	45	67	77	1
CS45400	Type CS Bushing 45.0 OD X 40.0 ID	40	45	67	77	1
CS50120	Type CS Bushing 50.0 OD X 12.0 ID	12	50	77	90	1
CS50150	Type CS Bushing 50.0 OD X 15.0 ID	15	50	77	90	1
CS50200	Type CS Bushing 50.0 OD X 20.0 ID	20	50	77	90	1
CS50220	Type CS Bushing 50.0 OD X 22.0 ID	22	50	77	90	1
CS50250	Type CS Bushing 50.0 OD X 25.0 ID	25	50	77	90	1
CS50300	Type CS Bushing 50.0 OD X 30.0 ID	30	50	77	90	1
CS50400	Type CS Bushing 50.0 OD X 40.0 ID	40	50	77	90	1
CS50450	Type CS Bushing 50.0 OD X 45.0 ID	45	50	77	90	1
CS60200	Type CS Bushing 60.0 O.D.X 20.0 ID	20	60	85	100	1
CS60250	Type CS Bushing 60.0 O.D.X 25.0 ID	25	60	85	100	1
CS60300	Type CS Bushing 60.0 O.D.X 30.0 ID	30	60	85	100	1
CS60400	Type CS Bushing 60.0 O.D.X 40.0 ID	40	60	85	100	1
CS60450	Type CS Bushing 60.0 O.D.X 45.0 ID	45	60	85	100	1
CS60500	Type CS Bushing 60.0 O.D.X 50.0 ID	50	60	85	100	1
CS60550	Type CS Bushing 60.0 O.D.X 55.0 ID	55	60	85	100	1

Static Tool Holder

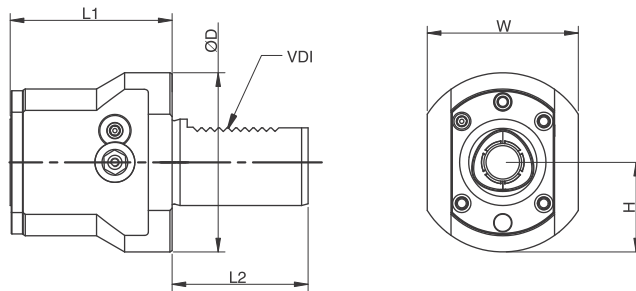
Square Shank



Catalog Number	Description	Hand	PTI	L1	L2	L3	W	F	H	Collant CNT
31467485001	SQUARE SHANK- PTI-40 HOLDER	L	40	103.00	80.00	65.00	48.00	25.00	50.00	G1/8
31467485002	SQUARE SHANK- PTI-40 HOLDER	R	40	103.00	80.00	65.00	48.00	25.00	50.00	G1/8
31467646401	SQUARE SHANK- PTI-40 HOLDER	L	40	103.00	80.00	64.00	64.00	32.00	64.00	G1/8
31467646402	SQUARE SHANK- PTI-40 HOLDER	R	40	103.00	80.00	64.00	64.00	32.00	64.00	G1/8
31467485101	SQUARE SHANK- PTI-40 HOLDER	L	40	103.00	80.00	65.00	48.00	25.40	50.80	G1/8
31467485102	SQUARE SHANK- PTI-40 HOLDER	R	40	103.00	80.00	65.00	48.00	25.40	50.80	G1/8
31467646351	SQUARE SHANK- PTI-40 HOLDER	L	40	103.00	80.00	64.00	64.00	31.80	63.50	G1/8
31467646352	SQUARE SHANK- PTI-40 HOLDER	R	40	103.00	80.00	64.00	64.00	31.80	63.50	G1/8
31568646401	SQUARE SHANK- PTI-50 HOLDER	L	50	103.00	80.00	72.00	64.00	32.00	64.00	G1/8
31568646402	SQUARE SHANK- PTI-50 HOLDER	R	50	103.00	80.00	72.00	64.00	32.00	64.00	G1/8
31568646351	SQUARE SHANK- PTI-50 HOLDER	L	50	103.00	80.00	72.00	64.00	31.80	63.50	G1/8
31568646352	SQUARE SHANK- PTI-50 HOLDER	R	50	103.00	80.00	72.00	64.00	31.80	63.50	G1/8

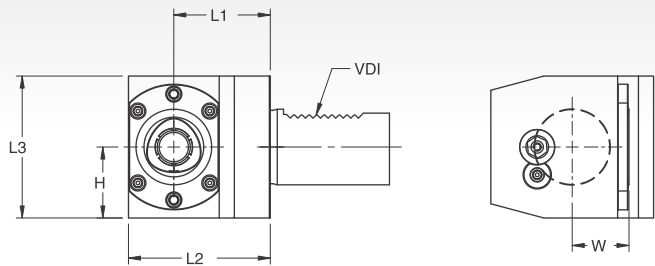
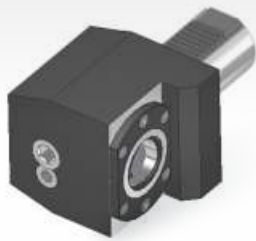
Static Tool Holder

Axial Static Tool Holder



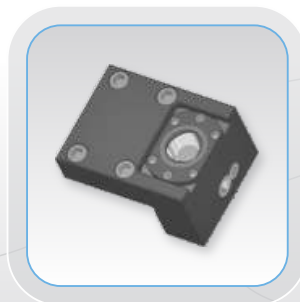
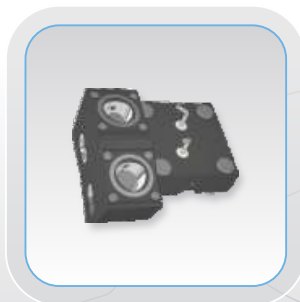
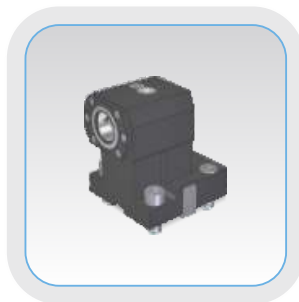
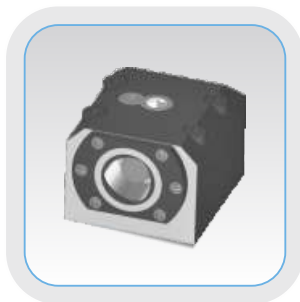
Catalog Number	Description	Hand	PTI	L1	L2	ØD	W	H	VDI
3146782401	VDI-PTI-40 Holder	L	40	75.00	63.00	82.00	70.00	41.00	40
3146782402	VDI-PTI-40 Holder	R	40	75.00	63.00	82.00	70.00	41.00	40
3146798501	VDI-PTI-40 Holder	L	40	65.00	78.00	98.00	70.00	49.00	50
3146782502	VDI-PTI-40 Holder	R	40	65.00	78.00	98.00	70.00	49.00	50
3156882401	VDI-PTI-50 Holder	L	50	85.00	63.00	82.00	75.00	41.00	40
3156882402	VDI-PTI-50 Holder	R	50	85.00	63.00	82.00	75.00	41.00	40
3156898501	VDI-PTI-50 Holder	L	50	85.00	78.00	98.00	85.00	49.00	50
3156898502	VDI-PTI-50 Holder	R	50	85.00	78.00	98.00	85.00	49.00	50
31568116601	VDI-PTI-50 Holder	L	50	75.00	94.00	116.00	85.00	58.00	60
31568116602	VDI-PTI-50 Holder	R	50	75.00	94.00	116.00	85.00	58.00	60

Radial Static Tool Holder



Catalog Number	Description	Hand	PTI	L1	L2	L3	W	H	VDI
316730401	VDI-PTI-40 Holder	L	40	51	75	75	30	38	40
316730402	VDI-PTI-40 Holder	R	40	51	75	75	30	38	40
316740401	VDI-PTI-40 Holder	L	40	51	75	75	40	38	40
316740402	VDI-PTI-40 Holder	R	40	51	75	75	40	38	40
316830401	VDI-PTI-50 Holder	L	50	53	85	82	30	41	40
316830402	VDI-PTI-50 Holder	R	50	53	85	82	30	41	40
316840401	VDI-PTI-50 Holder	L	50	53	85	82	40	41	40
316840402	VDI-PTI-50 Holder	R	50	53	85	82	40	41	40
316830501	VDI-PTI-50 Holder	L	50	53	85	82	30	41	50
316830501	VDI-PTI-50 Holder	R	50	53	85	82	30	41	50
316840501	VDI-PTI-50 Holder	L	50	53	85	82	40	41	50
316840502	VDI-PTI-50 Holder	R	50	53	85	82	40	41	50
316840601	VDI-PTI-50 Holder	L	50	53	85	82	40	41	60
316840602	VDI-PTI-50 Holder	R	50	53	85	82	40	41	60

NOTE - SPECIAL STATIC TOOL HOLDERS CAN BE MANUFACTURED AS PER CUSTOMER'S REQUEST.





TOOLS & APPLIANCES CORPORATION

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