



PRODUCT CATALOGUE



CNC TOOL HOLDING SPECIALISTS

QUALITY TOOLING

At Omega, we commit to providing only the highest quality tooling. We believe in excellence and refuse to compromise on the quality of our products.

COMPETITIVE PRICES

Our pricing strategy is both competitive and transparent, ensuring you receive the best value without any hidden costs.

TRUST

Integrity is fundamental to us. We stand by our word, always delivering on our promises with honesty and reliability.

CUSTOMER SERVICE

Customer satisfaction is at the heart of Omega Products. Our dedicated team prioritises your needs, as exceptional customer service is not just a department but the core of our business.

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Welcome to Omega Products, your premier source for engineering tooling in the UK.

We are proud to offer one of the nation's most extensive ranges of high-quality tooling for trade distributors, ensuring that your tooling needs are met consistently.



INDEX

TURNING TOOLS



8	DCBNR/L Turning Tools	🔄
8	DCKNR/L Turning Tools	🔄
9	DCLNR/L Turning Tools	🔄
9	DDJNR/L Turning Tools	🔄
10	DTGNR/L Turning Tools	🔄
10	DVJNR/L Turning Tools	🔄
11	DVVNN Turning Tools	🔄
11	DWLNLR/L Turning Tools	🔄
12	ETJNR/L Turning Tools	🔄
13	PCBNR/L Turning Tools	🔄
13	PCKNR/L Turning Tools	🔄
13	PCLNR/L Turning Tools	🔄
14	PDJNR/L Turning Tools	🔄
14	PSBNR/L Turning Tools	🔄
15	PSKNR/L Turning Tools	🔄
15	PSSNR/L Turning Tools	🔄
16	PWLNLR/L Turning Tools	🔄
16	SCACR/L Turning Tools	🔄
17	SCLCR/L Turning Tools	🔄
17	SCLCR/L-S Turning Tools	🔄
18	SDACR/L Turning Tools	🔄
18	SDJCR/L Turning Tools	🔄
19	SDJCR/L-S Turning Tools	🔄
19	SDNCN Turning Tools	🔄
20	SVJBR/L Turning Tools	🔄
20	SVJCR/L Turning Tools	🔄
21	SVVBN Turning Tools	🔄
21	SVVCN Turning Tools	🔄

BORING BARS



22	SCLCR/L Mini Carbide Boring Bars	🔄
23	S-SCLCR/L Boring Bars	🔄
24	A-SCLCR/L Boring Bars	🔄
25	C-SCLCR/L Boring Bars	🔄
25	E-SCLCR/L Boring Bars	🔄
26	S-SDUCR/L Boring Bars	🔄
26-27	A-SDUCR/L Boring Bars	🔄
27	C-SDUCR/L Boring Bars	🔄
28	E-SDUCR/L Boring Bars	🔄
28	S-SDQCR/L Boring Bars	🔄
29	S-SDZCR/L Boring Bars	🔄
29	S-SVUCR/L Boring Bars	🔄

30	A-SVUCR/L Boring Bars	🔄
30	S-SVJCR/L Boring Bars	🔄
31	S-DCLNR/L Boring Bars	🔄
31	A-DCLNR/L Boring Bars	🔄
32	S-DDUNR/L Boring Bars	🔄
32	S-DTFNR/L Boring Bars	🔄
33	S-DVUNR/L Boring Bars	🔄
33	S-DWLNLR/L Boring Bars	🔄
34	A-DWLNLR/L Boring Bars	🔄
34	S-PCLNR/L Boring Bars	🔄
35	S-PWLNLR/L Boring Bars	🔄
36-37	Boring Bar Sets	🔄

THREADING TOOLS



38	SER/L Threading Tools	🔄
38	CER/L Threading Tools	🔄
39	SIR/L Threading Bars	🔄
40	CNR/L Threading Bars	🔄
40	C-SIR	🔄

PARTING OFF



41	Parting Off Blocks, Blades & Inserts	🔄
----	--------------------------------------	---

INDEXABLE MILLING



42	APKT End Mills & Inserts	🔄
----	--------------------------	---

INDEXABLE DRILLING



43	WCGX U-Drills & Inserts	🔄
44	2xD SPMG U-Drills	🔄
45	3xD SPMG U-Drills	🔄
46	4xD SPMG U-Drills	🔄
47	NEW 5xD SPMG U-Drills	🔄
48	SPMG & SPGG Drilling Inserts	🔄
49	Centre & Chamfer Drills & Inserts	🔄
50-51	NEW 45° Indexable Engraving Kit / Tool Holders	🔄

CARBIDE INSERTS



52	Inserts for Aluminium	🔄
53	Inserts for Steel	🔄
54	Inserts for Stainless Steel	🔄
54	Inserts for Heat Resistant Alloys	🔄
55	Technical Insert Information	🔄
56	External Threading Inserts	🔄
57	Internal Threading Inserts	🔄



BT MAS403



58-62	BT ER Collet Chucks	🔗
63	BT OZ Collet Chucks	🔗
63	BT DMC Collet Chucks	🔗
64	BT GSK Collet Chucks	🔗
65	BT Hydraulic Expansion Chucks	🔗
66	BT Power Milling Chucks	🔗
67-69	NEW BT Shrink Fit Chucks	🔗
70	NEW BT Slim Shrink Fit Chucks	🔗
71	BT Milling Cutter Arbors	🔗
72-75	NEW BT End Mill Holders	🔗
76-78	NEW BT Face Mill Arbors	🔗
79	BT Combi Shell Mill Arbors	🔗
80	BT Morse Taper Adaptors	🔗
81	BT MLC Synchro Tapping Chucks	🔗
81	BT Quick Change Tapping Chucks	🔗
82	BT Integral Drill Chucks	🔗
83	BT Drill Chuck Adaptors	🔗
83	BT Test Arbors	🔗
83	BT Machinable Blanks	🔗

DCBT DUAL CONTACT



84	Technical Specification	
85	NEW DCBT ER Mini Nut Collet Chucks	🔗
86	NEW DCBT ER Collet Chucks	🔗
87	NEW DCBT End Mill Holders	🔗
88	NEW DCBT Face Mill Arbors	🔗
89	NEW DCBT NCDC Drill Chucks	🔗

DIN 69871



91-93	DIN69871 ER Collet Chucks	🔗
94	DIN69871 OZ Collet Chucks	🔗
94	DIN69871 DMC Collet Chucks	🔗
95	DIN69871 GSK Collet Chucks	🔗
96	DIN69871 Hydraulic Expansion Chucks	🔗
97	DIN69871 Power Milling Chucks	🔗
98-100	NEW DIN69871 Shrink Fit Chucks	🔗
101	NEW Slim Shrink Fit Chucks	🔗
102	DIN69871 Milling Cutter Arbors	🔗
103-106	NEW DIN69871 End Mill Holders	🔗
107-109	NEW DIN69871 Face Mill Arbors	🔗
110	DIN69871 Combi Shell Mill Arbors	🔗
111	DIN69871 Morse Taper Adaptors	🔗

112	DIN69871 MLC Synchro Tapping Chucks	🔗
112	DIN69871 Quick Change Tapping Chucks	🔗
113	DIN69871 Integral Drill Chucks	🔗
114	DIN69871 Drill Chuck Adaptors	🔗
114	DIN69871 Test Arbors	🔗

DIN 2080



115	DIN2080 ER Collet Chucks	🔗
116	DIN2080 End Mill Holders	🔗
117	DIN2080 Face Mill Arbors	🔗
118	DIN2080 Morse Taper Adaptors	🔗
118	DIN2080 Quick Change Tapping Chucks	🔗
119	DIN2080 Integral Drill Chucks	🔗
119	DIN2080 Drill Chuck Arbors	🔗
119	DIN2080 Machinable Blanks	🔗

HSK63A



121	HSK63A ER Collet Chucks	🔗
122	HSK63A DMC Collet Chucks	🔗
122	HSK63A Hydraulic Expansion Chucks	🔗
123-124	NEW HSK63A Shrink Fit Holders	🔗
125	NEW HSK63A Slim Shrink Fit Chucks	🔗
126	HSK63A Milling Cutter Arbors	🔗
126	HSK63A Power Milling Chucks	🔗
127	HSK63A End Mill Holders	🔗
128	HSK63A Face Mill Holders	🔗
129	NEW HSK63A Morse Taper Adaptors	🔗
130	HSK63A MLC Synchro Tapping Chucks	🔗
130	HSK63A Integral Drill Chucks	🔗
131	HSK63A Test Arbors	🔗
131	HSK63A Machinable Blanks	🔗

HSK63F



133	HSK63F ER Collet Chucks	🔗
133	HSK63F Face Mill Arbors	🔗

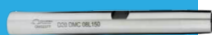
INDEX



VDI DIN69880

135	VDI Form A1, A2	🔗
136	VDI Form B1, B2	🔗
137	VDI Form B3, B4	🔗
138	VDI Form B5, B6	🔗
139	VDI Form B7, B8	🔗
140	VDI Form C1, C2	🔗
141	VDI Form C3, C4	🔗
142	VDI Form D1, D2	🔗
143	VDI Form E1	🔗
144	VDI Form E2	🔗
145	VDI Form E4	🔗
146	VDI Form E7, E8	🔗
147	VDI Form F1	🔗
148	VDI Form AR, AL	🔗
149	VDI Form ARU, ALU	🔗
150	NEW VDI Hydraulic Chucks	🔗
150	VDI Integral Drill Chucks	🔗
151	VDI Bar Pullers	🔗
152-153	VDI Spares	🔗
154-161	VDI Driven Tooling	🔗

STRAIGHT SHANK



162	Straight Shank ER Collet Chucks	🔗
163	Straight Shank Mini ER Collet Chucks	🔗
164	Straight Shank DMC Collet Chucks	🔗
165	Extension Chucks Shrink Fit	🔗
166-167	NEW Straight Shank Screw-In Holders	🔗
168	Straight Shank Tapping Chucks	🔗
169	Straight Shank Floating Reamer Holders	🔗
169	Straight Shank Integral Drill Chucks	🔗

RB BRIDGEPORT



170-171	R8 Bridgeport Tooling	🔗
---------	-----------------------	---

ER COLLETS



172	ER8 / ER11 Collets	🔗
173	ER16 Collets	🔗
174	ER20 Collets	🔗
175	ER25 Collets	🔗
176	ER32 Collets	🔗
177	ER40 Collets	🔗
178	ER50 Collets	🔗
179	ER16 / ER20 Standard Sealed Collets	🔗
180	ER25 / ER32 Standard Sealed Collets	🔗
181	ER40 Standard Sealed Collets	🔗
182	ER11 / ER16 High Pressure Sealed Collets	🔗
183	ER20 / ER25 High Pressure Sealed Collets	🔗
184	ER32 High Pressure Sealed Collets	🔗
185	ER40 High Pressure Sealed Collets	🔗
186	ER16 / ER20 Jet Coolant Sealed Collets	🔗
187	ER25 / ER32 Jet Coolant Sealed Collets	🔗
188	ER16 / ER20 Tapping Collets	🔗
189	ER25 Tapping Collets	🔗
190	ER32 Tapping Collets	🔗
191	ER40 Tapping Collets	🔗
192-193	ER Imperial Collets	🔗
194-197	ER Collet Sets	🔗

OZ COLLETS



198	OZ12 / OZ16 Collets	🔗
199	OZ25 / OZ32 Collets	🔗

GSK COLLETS



200	GSK06 / GSK10 Collets	🔗
201	GSK16 / GSK25 Collets	🔗

STRAIGHT COLLETS



202	Straight Collets	🔗
203	Hydraulic Reduction Sleeves	🔗

CHUCK CHANGE TAPPING COLLETS



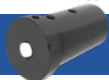
- 204 Quick Change ER16 Tapping Collets
- 205 Quick Change ER20 Tapping Collets
- 206 Quick Change ER25 Tapping Collets
- 207 Quick Change ER32 Tapping Collets
- 208-209 Quick Change ER40 Tapping Collets
- 210 Quick Change Tap Adaptors With Clutch
- 211 Quick Change Tap Adaptors Without Clutch
- 212-213 Technical Tapping Information

BORING HEADS & KITS



- 214 Boring Heads & Adaptors
- 215-216 Boring Bar Sets for Boring Heads

BORING BAR SLEEVES



- 217-219 Boring Bar Reduction Sleeves

MORSE TAPER



- 220 Morse Taper ER Collet Chucks
- 220 Turret Sockets
- 221 MT Reduction & Extension Sleeves
- 222 MT Integral Drill Chucks

TIGHTENING FIXTURES



- 223 Tightening Fixtures

PULL STUDS



- 224-231 Pull Studs

SPARE PARTS



- 232-236 Spares

WORK HOLDING



- 237 Modular Vices & Vice Jaws
- 238-239 **NEW** Revolving Centres
- 240-241 Dead Centres

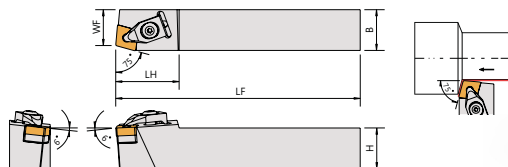


TURNING TOOLS

TURNING TOOLS

DCBNR/L 75° CNMG

- External Turning Tools



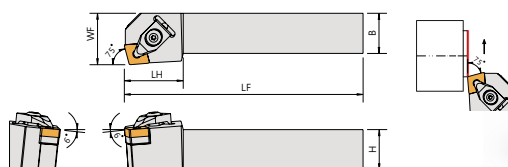
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM11230	OM11231	DCBNR/L 2020 K12	CNMG 1204	20	20	125	37	17
OM11232	OM11233	DCBNR/L 2525 M12		25	25	150	37	22
OM11234	OM11235	DCBNR/L 3225 P12		32	25	170	37	22

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...12	OM14074 (SMC-432)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

DCKNR/L 75° CNMG

- External Turning Tools



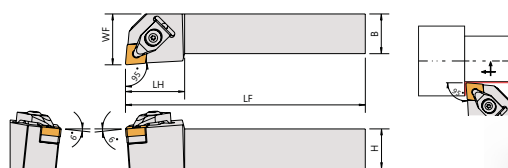
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM11236	OM11237	DCKNR/L 2020 K12	CNMG 1204	20	20	125	37	25
OM11238	OM11239	DCKNR/L 2525 M12		25	25	150	37	32
OM11240	OM11241	DCKNR/L 3225 P12		32	25	170	37	32

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...12	OM14074 (SMC-432)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

DCLNR/L 95° CNMG

- External Turning Tools



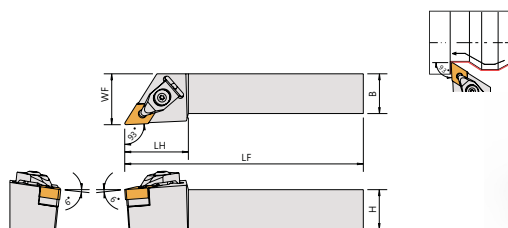
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12001	OM12002	DCLNR/L 2020 K12	CNMG 1204	20	20	125	40	25
OM12003	OM12004	DCLNR/L 2525 M12		25	25	150	36	32
OM12005	OM12006	DCLNR/L 3225 P12		32	25	170	36	32
OM11242	OM11243	DCLNR/L 3232 P12		32	32	170	36	32

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...12	OM14074 (SMC-432)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

DDJNR/L 93° DNMG

- External Turning Tools



Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12023	OM12024	DDJNR/L 1616 H11	DNMG 1104	16	16	100	36	20
OM12025	OM12026	DDJNR/L 2020 K11		20	20	125	36	25
OM12027	OM12028	DDJNR/L 2525 M11		25	25	150	36	32
OM12029	OM12030	DDJNR/L 2020 K15-06	DNMG 1506	20	20	125	43	25
OM12031	OM12032	DDJNR/L 2525 M15-06		25	25	150	43	32
OM11244	OM11245	DDJNR/L 3232 P15-06		32	32	170	43	40

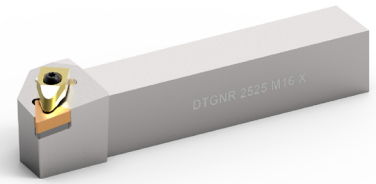
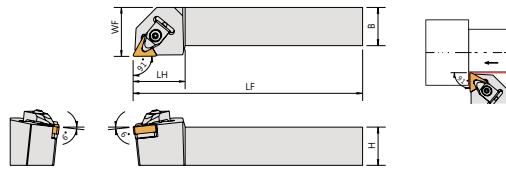
Spare Parts

- To use DNMG 1504 size insert in DNMG 1506 holders, use shim OM14083 (SMD-463)
- Tool supplied with OM14082 (SMD-443) for DNMG 1506

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...1104	OM14080 (SMD-343)	OM14039 (CSA-40075)	OM14006 (CP-D2)	OM14097 (SP-0612)	OM14044 (CSB-04150)	OM14102 (TL-15)
...1506	OM14082 (SMD-443)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)
..1504	OM14083 (SMD-463)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

DTGNR/L 91° TNMG

- External Turning Tools



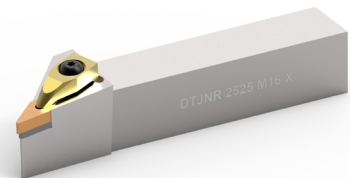
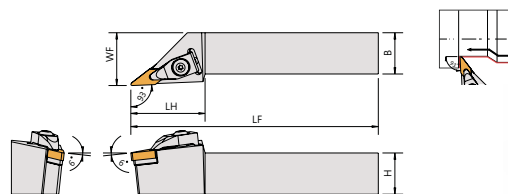
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM11246	OM11247	DTGNR/L 2020 K16	TNMG 1604	20	20	125	33	25
OM11248	OM11249	DTGNR/L 2525 M16		25	25	150	33	32

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...16	OM11224 (SMT-323)	OM14039 (CSA-40075)	OM14006 (CP-D2)	OM14097 (SP0612)	OM14044 (CSB-04150)	OM14102 (TL-15)

DVJNR/L 93° VNMG

- External Turning Tools



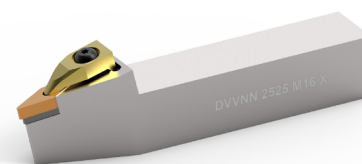
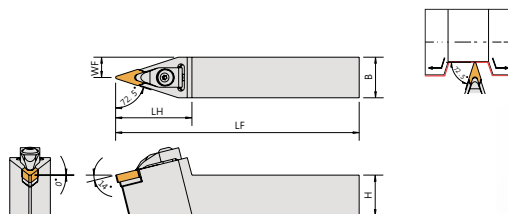
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12055	OM12056	DVJNR/L 2020 K16	VNMG 1604	20	20	125	50	25
OM12057	OM12058	DVJNR/L 2525 M16		25	25	150	46	32

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...16	OM14087 (SMV-322)	OM14039 (CSA-40075)	OM14007 (CP-D3)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

DVVNN 72.5° VNMG

- External Turning Tools



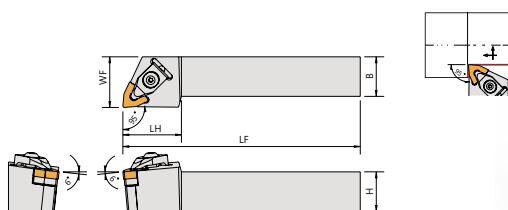
Part Number	Toolholder ISO	Insert	Dimensions (mm)				
			H	B	LF	LH	WF
OM12188	DVVNN 2020 K16	VNMG 1604	20	20	125	47	10
OM11250	DVVNN 2525 M16		25	25	150	47	12.5

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...16	OM14087 (SMW-322)	OM14039 (CSA-40075)	OM14007 (CP-D3)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

DWLNR/L 95° WNMG

- External Turning Tools



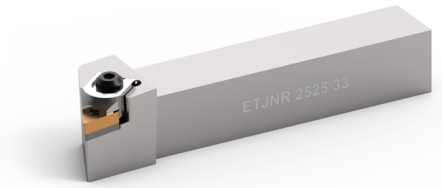
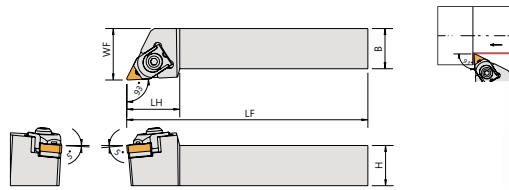
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12059	OM12060	DWLNR/L 1616 H06	WNMG 0604	16	16	100	33	20
OM12061	OM12062	DWLNR/L 2020 K06		20	20	125	33	25
OM12063	OM12064	DWLNR/L 2525 M06		25	25	150	33	32
OM12065	OM12066	DWLNR/L 2020 K08	WNMG 0804	20	20	125	40	25
OM12067	OM12068	DWLNR/L 2525 M08		25	25	150	40	32
OM12069	OM12070	DWLNR/L 3225 P08		32	25	170	40	32
OM11251	OM11252	DWLNR/L 3232 P08		32	32	170	40	32

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...06	OM14088 (SMW-321)	OM14039 (CSA-40075)	OM14006 (CP-D2)	OM14097 (SP-0612)	OM14044 (CSB-04150)	OM14102 (TL-15)
...08	OM14092 (SMW-433)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

ETJNR/L 93° TNMG

- External Turning Tools



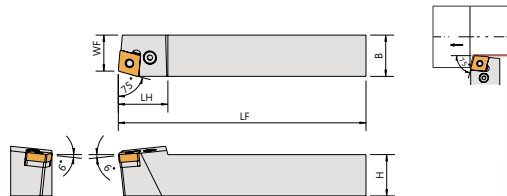
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R/H	L/H			H	B	LF	LH	WF
OM11253	OM11254	ETJNR/L 2020 K16	TNMG 1604	20	20	125	32	25
OM11255	OM11256	ETJNR/L 2525 M16		25	25	150	32	32

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Screw	Clip	Hex Key	Hex Key
...16	OM11225 (SMT-322)	OM11226 (LCS-513)	OM11227 (CPE-T16)	OM11228 (CSE8026)	OM11229 (ER31)	OM14066 (LW-025)	OM14172 (LW-050)

PCBNR/L 75° CNMG

- External Turning Tools



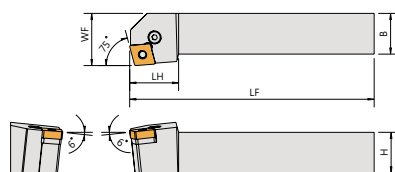
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12015	OM12016	PCBNR/L 2525 M12	CNMG 1204	25	25	150	30	22
OM12017	OM12018	PCBNR/L 3232 P12		32	32	170	30	29

Spare Parts

Designation	Insert Shim	Shim Clip	Insert Lever	Lever Screw	Hex Key
...12	OM14073 (SMC-422)	OM14023 (CS-ISP4)	OM14012 (CP-LL4)	OM14018 (CS-LS4)	OM14067 (LW-030)

PCKNR/L 75° CNMG

- External Turning



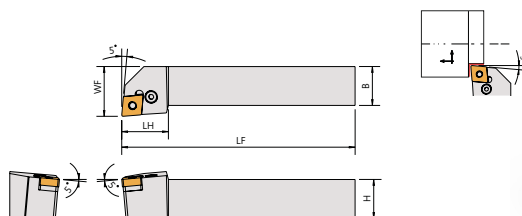
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12019	OM12020	PCKNR/L 2525 M12	CNMG 1204	25	25	150	26	32
OM12021	OM12022	PCKNR/L 3232 P12		32	32	170	40	40

Spare Parts

Designation	Insert Shim	Shim Clip	Insert Lever	Lever Screw	Hex Key
...12	OM14073 (SMC-422)	OM14023 (CS-LSP4)	OM14012 (CP-LL4)	OM14018 (CS-LS4)	OM14067 (LW-030)

PCLNR/L 95° CNMG

- External Turning Tools



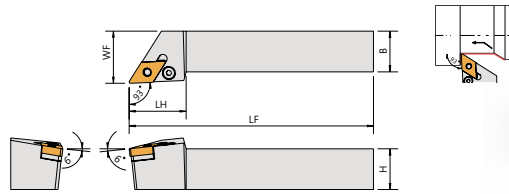
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12007	OM12008	PCLNR/L 1616 H12	CNMG 1204	16	16	100	20	20
OM12009	OM12010	PCLNR/L 2020 K12		20	20	125	26	25
OM12011	OM12012	PCLNR/L 2525 M12		25	25	150	26	32
OM12013	OM12014	PCLNR/L 3232 P12		32	32	170	33	40
OM12180	OM12179	PCLNR/L 3232 P16	CNMG 1604	32	32	170	33	40

Spare Parts

Designation	Insert Shim	Shim Clip	Insert Lever	Lever Screw	Hex Key
...12	OM14073 (SMC-422)	OM14023 (CS-LSP4)	OM14012 (CP-LL4)	OM14018 (CS-LS4)	OM14067 (LW-030)
...16	OM14116 (SMC-532)	OM14025 (CS-LSP7)	OM14015 (CP-LL7)	OM14020 (CS-LS7)	OM14067 (LW-030)

PDJNR/L 93° DNMG

- External Turning Tools



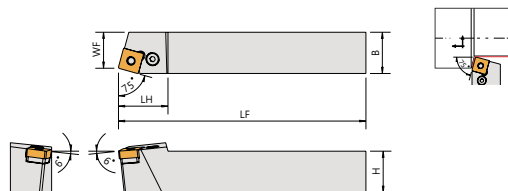
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12033	OM12034	PDJNR/L 1616 H11	DNMG 1104	16	16	100	20	20
OM12035	OM12036	PDJNR/L 2020 K11		20	20	125	35	25
OM12037	OM12038	PDJNR/L 2525 M11		25	25	150	35	32
OM12039	OM12040	PDJNR/L 2020 K15-06	DNMG 1506	20	20	150	36	25
OM12041	OM12042	PDJNR/L 2525 M15-06		25	25	150	36	32

Spare Parts

Designation	Insert Shim	Shim Clip	Insert Lever	Lever Screw	Hex Key
...1104	OM14078 (SMD-331)	OM14022 (CS-LSP3)	OM14014 (CP-LL6)	OM14017 (CS-LS3)	OM14066 (LW-025)
...1506	OM14081 (SMD-424)	OM14023 (CS-LSP4)	OM14012 (CP-LL4)	OM14018 (CS-LS4)	OM14067 (LW-030)

PSBNR/L 75° SNMG

- External Turning Tools



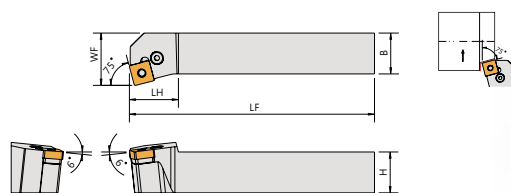
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12043	OM12044	PSBNR/L 2525 M12	SNMG 1204	25	25	150	30	22
OM12045	OM12046	PSBNR/L 3232 P12		32	32	170	35	29

Spare Parts

Designation	Insert Shim	Shim Clip	Insert Lever	Lever Screw	Hex Key
...12	OM14084 (SMS-422)	OM14023 (CS-LSP4)	OM14012 (CP-LL4)	OM14018 (CS-LS4)	OM14067 (LW-030)

PSKNR/L 75° SNMG

- External Turning Tools



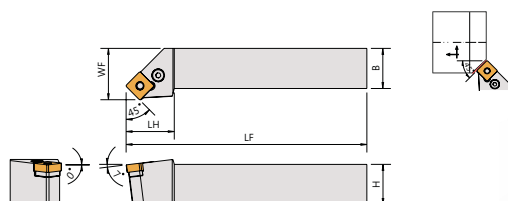
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12047	OM12048	PSKNR/L 2525 M12	SNMG 1204	25	25	150	30	32
OM12049	OM12050	PSKNR/L 3232 P12		32	32	170	30	40

Spare Parts

Designation	Insert Shim	Shim Clip	Insert Lever	Lever Screw	Hex Key
...12	OM14084 (SMS.422)	OM14023 (CS-LSP4)	OM14012 (CP-LL4)	OM14018 (CS-LS4)	OM14067 (LW.030)

PSSNR/L 45° SNMG

- External Turning Tools



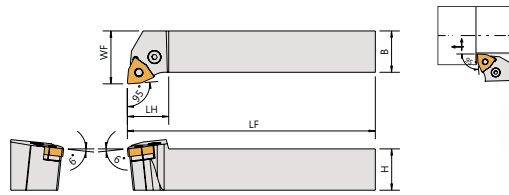
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM11257	OM11258	PSSNR/L 2020 K12	SNMG 1204	20	20	125	30	25
OM12051	OM12052	PSSNR/L 2525 M12		25	25	150	30	32
OM12053	OM12054	PSSNR/L 3232 P12		32	32	170	36	40

Spare Parts

Designation	Insert Shim	Shim Clip	Insert Lever	Lever Screw	Hex Key
...12	OM14084 (SMS.422)	OM14023 (CS-LSP4)	OM14012 (CP-LL4)	OM14018 (CS-LS4)	OM14067 (LW.030)

PWLNRL/L 95° WNMG

- External Turning Tools



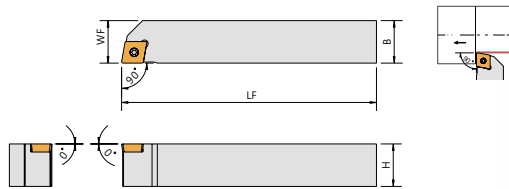
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12071	OM12072	PWLNRL/L 1616 H06	WNMG 0604	16	16	100	20	20
OM12073	OM12074	PWLNRL/L 2020 K06		20	20	125	20	25
OM12075	OM12076	PWLNRL/L 2525 M06		25	25	150	23	32
OM12077	OM12078	PWLNRL/L 2020 K08	WNMG 0804	20	20	125	20	25
OM12079	OM12080	PWLNRL/L 2525 M08		25	25	150	26	32
OM12081	OM12082	PWLNRL/L 3232 M08		32	32	170	30	40

Spare Parts

Designation	Insert Shim	Shim Clip	Insert Lever	Lever Screw	Hex Key
...06	OM14089 (SMW-322)	OM14022 (CS-ISP3)	OM14011 (CP-IL3)	OM14017 (CS-LS3)	OM14066 (LW-025)
...08	OM14090 (SMW-423)	OM14023 (CS-ISP4)	OM14012 (CP-IL4)	OM14018 (CS-LS4)	OM14067 (LW-030)

SCACRL/L 90° CCMT

- External Turning Tools



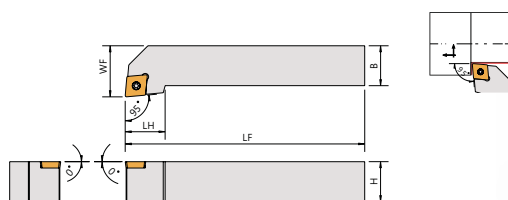
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			A	B	LF	WF
OM11259	OM11260	SCACRL/L 0808 K06	CCMT 0602	8	8	100	8
OM12083	OM12084	SCACRL/L 1010 H06		10	10	100	10
OM12085	OM12086	SCACRL/L 1212 H06		12	12	100	12
OM12087	OM12088	SCACRL/L 1616 H06		16	16	100	16

Spare Parts

Designation	Insert Screw
...06	OM14030 (CS-25060)

SCLCR/L 95° CCMT

- External Turning Tools



Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12089	OM12090	SCLCR/L 0808 H06	CCMT 0602	8	8	100	12	10
OM12091	OM12092	SCLCR/L 1010 H06		10	10	100	12	12
OM12093	OM12203	SCLCR/L 1212 H06		12	12	100	17	16
OM12094	OM12095	SCLCR/L 1212 H09	CCMT 09T3	12	12	100	17	16
OM12096	OM12097	SCLCR/L 1616 H09		16	16	100	18	20
OM12098	OM12099	SCLCR/L 2020 K09		20	20	125	22	25
OM12100	OM12101	SCLCR/L 2525 M09	CCMT 1204	25	25	150	26	32
OM12102	OM12103	SCLCR/L 2020 K12		20	20	125	22	25
OM12104	OM12105	SCLCR/L 2525 M12		25	25	150	26	32

Spare Parts

Designation	Insert Screw	Hex Key
...06	OM14030 (CS-25060)	OM14056 (FT-7)
...09	OM14035 (CS-35090)	OM14059 (FT-15)
...12	OM14042 (CS-40115)	OM14059 (FT-15)

SCLCR/L-S 95° CCMT

- External Turning Tools
- With Shim



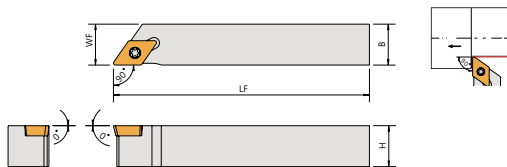
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM11386	OM11387	SCLCR/L 2020 K09-S	CCMT 09	20	20	125	22	25
OM11388	OM11389	SCLCR 2525 M09-S		25	25	150	25	32

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Lever	Lever Screw	Hex Key
...06	OM14288 (SMC-343)	OM14093 (SN-535)	OM14290 (CS-35119S)	OM14059 (FT-15)	OM14068 (LW-035)

SDACR/L 90° DCMT

- External Turning Tools



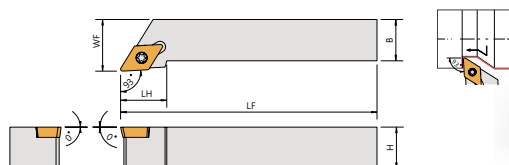
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			H	B	LF	WF
OM11261	OM11262	SDACR/L 0808 K07	DCMT 0702	8	8	100	8
OM12108	OM12109	SDACR/L 1010 K07		10	10	100	10
OM11263	OM11264	SDACR/L 1212 K07		12	12	100	12
OM12110	OM12111	SDACR/L 1212 K11	DCMT 11T3	12	12	100	12
OM12112	OM12113	SDACR/L 1616 K11		16	16	100	16

Spare Parts

Designation	Insert Screw	Hex Key
...07	OM 14030 (CS-25060)	OM14056 (FT-7)
...11	OM 14035 (CS-35090)	OM14059 (FT-15)

SDJCR/L 93° DCMT

- External Turning Tools
- Without Shim



Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12116	OM12117	SDJCR/L 0808 H07	DCMT 0702	8	8	100	12.5	10
OM12118	OM12119	SDJCR/L 1010 H07		10	10	100	15	12
OM12120	OM12121	SDJCR/L 1212 H07		12	12	100	16	16
OM12122	OM12123	SDJCR/L 1616 H07		16	16	100	18	20
OM12124	OM12125	SDJCR/L 1212 H11	DCMT 11T3	12	12	100	16	16
OM12126	OM12127	SDJCR/L 1616 H11		16	16	100	18	20
OM12128	OM12129	SDJCR/L 2020 K11		20	20	125	23	25
OM12130	OM12131	SDJCR/L 2525 M11		25	25	150	27	32

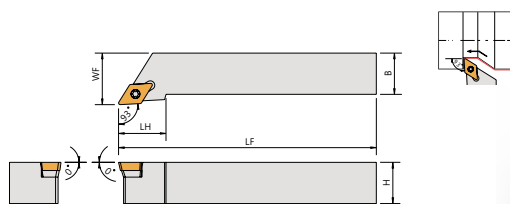
Spare Parts

Designation	Insert Screw	Hex Key
...07	OM 14030 (CS-25060)	OM14056 (FT-7)
...11	OM 14035 (CS-35090)	OM14059 (FT-15)

SDJCR/L S

93° DCMT

- External Turning Tools
- With Shim



TURNING TOOLS



Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM11265	OM11266	SDJCR/L 2020 K11-S	DCMT 11T3	20	20	125	22	25
OM11267	OM11268	SDJCR/L 2525 M11-S		25	25	150	25	32

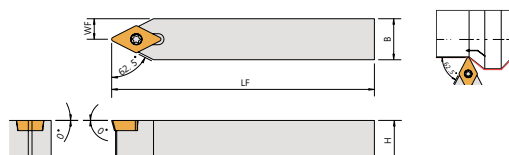
Spare Parts

Designation	Insert Shim	Shim Screw	Insert Screw	Torx Key	Hex Key
...11	OM14080 (SMD-343)	OM14093 (SN-535)	OM14038 (CS-35115)	OM14059 (FT-15)	OM14068 (LW-035)

SDNCN

62.5° DCMT

- External Turning Tools



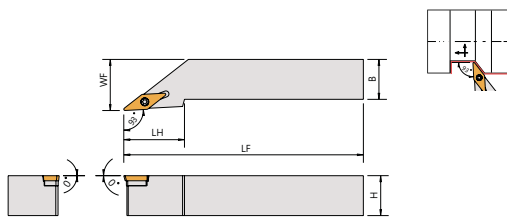
Part Number	Toolholder ISO	Insert	Dimensions (mm)			
			H	B	LF	WF
OM12132	SDNCN 1010 H07	DCMT 0702	10	10	100	5
OM12133	SDNCN 1212 F07		12	12	100	6
OM12214	SDNCN 1212 H11	DCMT 11T3	12	12	100	6
OM12134	SDNCN 1616 H11		16	16	100	8
OM11269	SDNCN 2020 K11		20	20	125	10
OM11270	SDNCN 2525 M11		25	25	150	12.5

Spare Parts

Designation	Insert Screw
...07	OM14030 (CS-25060)
...11	OM14035 (CS-35090)

SVJBR/L 93° VBMT

- External Turning Tools



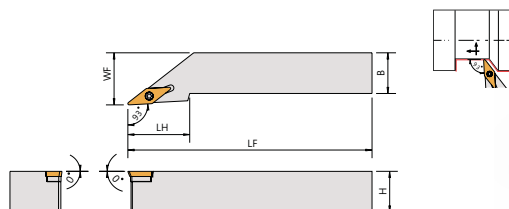
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12142	OM12143	SVJBR/L 1212 H11N	VBMT 1103	12	12	100	-	12
OM12144	OM12145	SVJBR/L 1616 H11N		16	16	100	-	16
OM12146	OM12147	SVJBR/L 2020 K11		20	20	125	22	25
OM12148	OM12149	SVJBR/L 2020 K16	VBMT 1604	20	20	125	33	25
OM12150	OM12151	SVJBR/L 2525 M16		25	25	150	38	32
OM12152	OM12153	SVJBR/L 3232 P16		32	32	170	38	42

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Screw	Torx Key	Hex Key
...11	-	-	OM14030 (CS-25060)	OM14056 (FT-7)	-
...16	OM14086 (SMV-321)	OM14093 (SN-535)	OM14038 (CS-35115)	OM14059 (FT-15)	OM14068 (LW-035)

SVJCR/L 93° VCMT

- External Turning Tools



Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM12156	OM12157	SVJCR/L 1212 H11N	VCMT 1103	12	12	125	-	12
OM12158	OM12159	SVJCR/L 1616 H11N		16	16	125	-	16
OM12160	OM12161	SVJCR/L 2020 K11		20	20	125	33	26
OM12162	OM12163	SVJCR/L 2525 M11	VCMT 1604	25	25	150	38	32
OM12164	OM12165	SVJCR/L 2020 K16		20	20	125	33	25
OM12166	OM12167	SVJCR/L 2525 M16		25	25	150	38	32
OM12186	OM12187	SVJCR/L 3232 P16		32	32	170	38	42

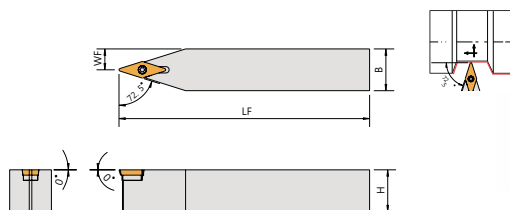
Spare Parts

Designation	Insert Shim	Shim Screw	Insert Screw	Torx Key	Hex Key
...11	-	-	OM14030 (CS-25060)	OM14056 (FT-7)	-
...16	OM14086 (SMV-321)	OM14093 (SN-535)	OM14038 (CS-35115)	OM14059 (FT-15)	OM14068 (LW-035)

SVVBN

72.5° VBMT

- External Turning Tools



TURNING TOOLS

Part Number	Toolholder ISO	Insert	Dimensions (mm)			
			H	B	LF	WF
OM12154	SVVBN 2020 K16	VBMT 1604	20	20	125	10
OM12155	SVVBN 2525 M16		25	25	150	12.5

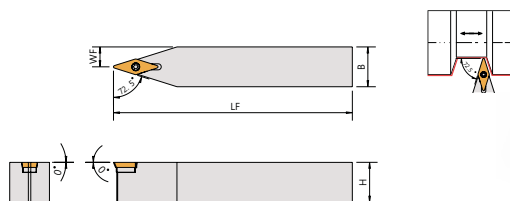
Spare Parts

Designation	Insert Shim	Shim Screw	Insert Screw	Torx Key	Hex Key
...16	OM14086 (SMV-321)	OM14093 (SN-535)	OM14038 (CS-35115)	OM14059 (FT-15)	OM14068 (LW-035)

SVVCN

72.5° VCMT

- External Turning Tools



Part Number	Toolholder ISO	Insert	Dimensions (mm)			
			H	B	LF	WF
OM12169	SVVCN 2020 K16	VCMT 1604	20	20	125	10
OM12170	SVVCN 2525 M16		25	25	150	12.5

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Screw	Torx Key	Hex Key
...16	OM14086 (SMV-321)	OM14093 (SN-535)	OM14038 (CS-35115)	OM14059 (FT-15)	OM14068 (LW-035)

BORING BARS

BORING BARS

MINI CARBIDE SHANK BORING BARS

SCLCR
95° CCGT

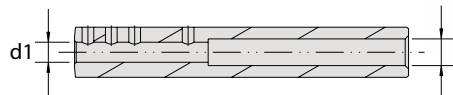
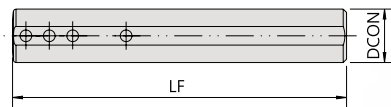
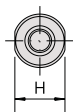
- Carbide shank without through coolant



Part Number	Toolholder ISO	Insert	Dimensions (mm)			
			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11169	C04G SCLCR 03-05	CCGT 03S1	4	2.5	90	5
OM11170	C05H SCLCR 03-06		5	3.0	100	6
OM11171	C05H SCLCR 04-06	CCGT 04T0	5	3.0	100	6
OM12189	C06J SCLCR 04-07		6	3.5	110	7
OM11173	C07K SCLCR 04-08		7	4.0	125	8

MINI CARBIDE SHANK BORING BAR HOLDERS

- Toolholder Adaptor Sleeve



Part Number	Description	Dimensions (mm)		
		d1 (Bore Dia)	DCON (Shank Dia)	LF (Length)
OM14060	HMB 1604	4	16	100
OM14061	HMB 1605	5		
OM14062	HMB 1606	6		
OM14063	HMB 1607	7		

CARBIDE INSERTS FOR MINI BORING BARS

GP15 Coated



Part Number	Description	Corner Rad (mm)	Grade
OM15002	CCGT 03S101L	0.1	GP15 Coated
OM15003	CCGT 03S102L	0.2	
OM15004	CCGT 04T001L	0.1	
OM15005	CCGT 04T002L	0.2	
OM15066	CCGT 04T004L	0.4	

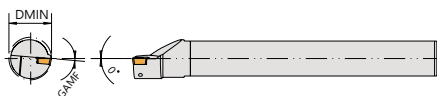
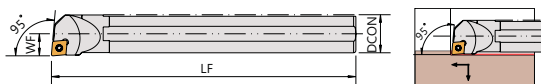
Spare Parts

Designation	Insert Screw	Torx Key
C04G SCLCR/L 03-05	OM14026 (CS-16031)	OM14055 (FT-6)
C05H SCLCR/L 03-06		
C05H SCLCR/L 04-06	OM14028 (CS-20038)	OM14055 (FT-6)
C06H SCLCR/L 04-07		
C07K SCLCR/L 04-08		

S-SCLCR/L

95° CCMT

- Steel shank without through coolant



DRILLING
BARS



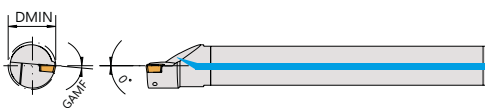
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11001	-	S07K SCLCR/06	CCMT 0602	7	4	125	11
OM11390	OM11391	S08H SCLCR/L 06-10		8	5	100	10
OM11003	OM11004	S08K SCLCR/L 06-12		8	5	125	12
OM11392	OM11393	S10K SCLCR/L 06-12		10	6	125	12
OM11005	OM11006	S10K SCLCR/L 06-14		10	7	125	14
OM11394	OM11395	S12M SCLCR/L 06-14		12	7	150	14
OM11007	OM11008	S12M SCLCR/L 06-16		12	9	150	16
OM11009	OM11010	S16R SCLCR/L 06		16	11	200	20
OM11011	OM11012	S12M SCLCR/L 09		CCMT 09T3	12	19	150
OM11396	OM11397	S16Q SCLCR/L 09-18	16		9	180	18
OM11013	OM11014	S16R SCLCR/L 09-20	16		11	200	20
OM11398	OM11399	S20R SCLCR/L 09-22	20		11	200	22
OM11015	OM11016	S20S SCLCR/L 09-25	20		13	250	25
OM11017	OM11018	S25T SCLCR/L 09	25		17	300	32
OM11019	OM11020	S25T SCLCR/L 12	CCMT 1204	25	17	300	32
OM11022	OM11023	S32U SCLCR/L 12		32	22	350	40
OM11024	OM11025	S40V SCLCR/L 12		40	27	400	50

Spare Parts

Designation	Shim	Shim Screw	Insert Screw	Torx Key	Hex Key
...06	-	-	OM14030 (CS-25060)	OM14056 (FT-7)	-
...09	-	-	OM14035 (CS-35090)	OM14059 (FT-15)	-
S25T...12	-	-	OM14042 (CS-40115)	OM14059 (FT-15)	-
S32U...12	OM14075 (SMC-453)	OM14094 (SN-630)	OM14043 (CS-40145)	OM14059 (FT-15)	OM14117 (LW-040)
S40V...12	OM14075 (SMC-453)	OM14094 (SN-630)	OM14043 (CS-40145)	OM14059 (FT-15)	OM14117 (LW-040)

A-SCLCR/L 95° CCMT

- Steel shank with through coolant



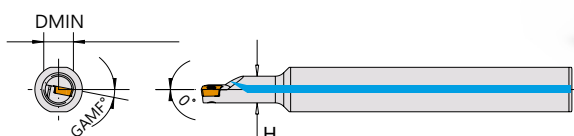
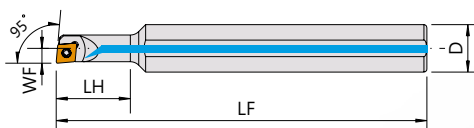
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11026	OM11027	A08K SCLCR/L 06	CCMT 0602	8	5	125	12
OM11028	OM11029	A10K SCLCR/L 06		10	7	125	14
OM11030	OM11031	A12M SCLCR/L 06		12	9	150	16
OM11032	OM11033	A16M SCLCR/L 09	CCMT 09T3	16	11	150	20
OM11034	OM11035	A20Q SCLCR/L 09		20	13	180	25
OM11036	OM11037	A25R SCLCR/L 09		25	17	200	32

Spare Parts

Designation	Insert Screw	Torx Key
...06	OM14030 (CS-25060)	OM14056 (FT-7)
...09	OM14035 (CS-35090)	OM14059 (FT-15)

A-SCLCR/L 95° CCMT

- Steel shank with through coolant
- Reinforced Shank



Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			D (Shank Dia)	DMIN (Min Bore)	H (Head Dia)	LF (Length)	LH (Length)
OM11300	OM11325	A0608H SCLCR/L 06	CCMT 0602	8	9	6	100	25
OM11301	OM11326	A0810J SCLCR/L 06		10	11	8	110	32
OM11302	OM11327	A1012K SCLCR/L 06		12	13	10	125	38
OM11303	OM11328	A1216M SCLCR/L 06		16	16	12	150	50
OM11304	OM11329	A1216M SCLCR/L 09	CCMT 09T3	16	18	12	150	36
OM11305	OM11330	A1620Q SCLCR/L 09		20	23	16	180	48
OM11306	OM11331	A2025R SCLCR/L 09		25	28	20	200	60

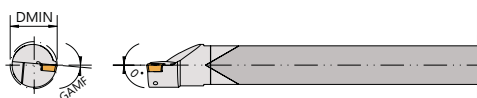
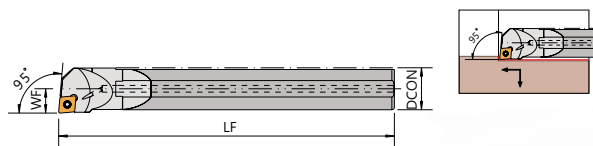
Spare Parts

Designation	Insert Screw	Torx Key
...06	OM14030 (CS-25060)	OM14057 (FT-8)
...09	OM14035 (CS-35090)	OM14059 (FT-15)

C-SCLCR/L

95° CCMT

- Carbide Shank without through coolant



BORING
BARS



Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11038	OM11039	C08K SCLCR/L 06-10	CCMT 0602	8	5	125	10
OM11040	OM11042	C10M SCLCR/L 06-12		10	6	150	12
OM11043	OM11045	C12Q SCLCR/L 06-14		12	7	180	14
OM11046	OM11049	C16R SCLCR/L 09-18	CCMT 09T3	16	9	200	18
OM11050	OM11053	C20S SCLCR/L 09-22		20	11	250	22
OM11055	OM11056	C25T SCLCR/L 09-28		25	14.5	300	28

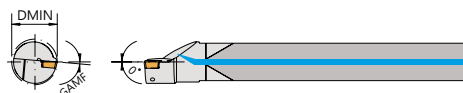
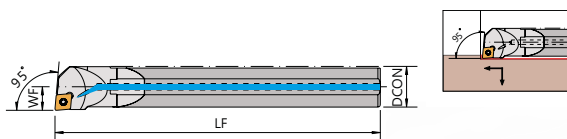
Spare Parts

Designation	Insert Screw	Torx Key
...06	OM14030 (CS-25060)	OM14056 (FT-7)
C16...09	OM11059 (CS-35075)	OM14059 (FT-15)
C20...09	OM14035 (CS-35090)	OM14059 (FT-15)
C25...09	OM14035 (CS-35090)	OM14059 (FT-15)

E-SCLCR/L

95° CCMT

- Carbide Shank with through coolant



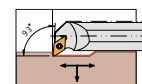
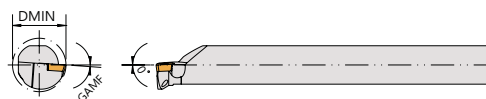
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11186	OM11187	E08K SCLCR/L 06-10	CCMT 0602	8	5	125	10
OM11057	OM11058	E08M SCLCR/L 06-10		8	5	150	10
OM11188	OM11189	E10M SCLCR/L 06-14		10	6	150	12
OM11060	OM11062	E10Q SCLCR/L 06-12		10	6	180	12
OM11190	OM11191	E12Q SCLCR/L 06-14		12	7	180	16
OM11064	OM11065	E12R SCLCR/L 06-14		12	7	200	14
OM11194	OM11195	E12R SCLCR/L 09-14	CCMT 09T3	12	7	200	14
OM11067	OM11068	E16R SCLCR/L 09-18		16	9	200	18
OM11069	OM11071	E20S SCLCR/L 09-22		20	11	250	22
OM11180	OM11181	E25T SCLCR/L 09-28		25	14.5	300	28

Spare Parts

Designation	Insert Screw	Torx Key
...06	OM14030 (CS-25060)	OM14056 (FT-7)
E12...09	OM11059 (CS-35075)	OM14056 (FT-15)
E16...09	OM11059 (CS-35075)	OM14059 (FT-15)
E20...09	OM14035 (CS-35090)	OM14059 (FT-15)
E25...09	OM14035 (CS-35090)	OM14059 (FT-15)

S-SDUCR/L 93° DCMT

- Steel shank without through coolant



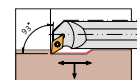
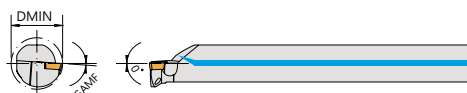
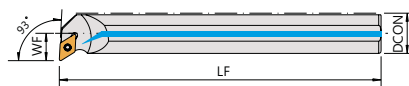
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11088	OM11089	S10M SDUCR/L 07	DCMT 0702	10	7	150	13
OM11090	OM11091	S12M SDUCR/L 07		12	9	150	16
OM11092	OM11093	S16R SDUCR/L 07		16	11	200	20
OM11094	OM11095	S16R SDUCR/L 11	DCMT 11T3	16	11	200	20
OM11096	OM11097	S20S SDUCR/L 11		20	13	250	25
OM11098	OM11099	S25T SDUCR/L 11		25	17	300	32
OM11100	OM11101	S32U SDUCR/L 11		32	22	350	39
OM11271	OM11272	S40T SDUCR/L 11		40	27	300	50

Spare Parts

Designation	Insert Screw	Torx Key
...07	OM14030 (CS-25060)	OM14056 (FT-7)
...11	OM14035 (CS-35090)	OM14059 (FT-15)

A-SDUCR/L 93° DCMT

- Steel shank with through coolant



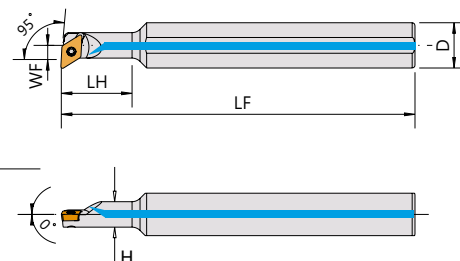
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11307	OM11314	A10J SDUCR/L 07	DCMT 0702	10	7	110	13
OM11348	OM11349	A10M SDUCR/L 07		10	7	150	13
OM11308	OM11315	A12K SDUCR/L 07		12	9	125	16
OM11350	OM11351	A12M SDUCR/L 07		12	9	150	16
OM11309	OM11316	A16M SDUCR/L 07		16	11	150	20
OM11352	OM11353	A16Q SDUCR/L 07		16	11	180	20
OM11310	OM11317	A20Q SDUCR/L 07		20	13	180	25
OM11354	OM11355	A20R SDUCR/L 11	DCMT 11T3	20	13	200	25
OM11356	OM11357	A25R SDUCR/L 11		25	17	200	32

Spare Parts

Designation	Insert Screw	Torx Key
...07	OM14030 (CS-25060)	OM14056 (FT-7)
...11	OM14035 (CS-35090)	OM14059 (FT-15)

A-SDUCR/L 93° DCMT

- Steel shank with through coolant
- Reinforced Shank



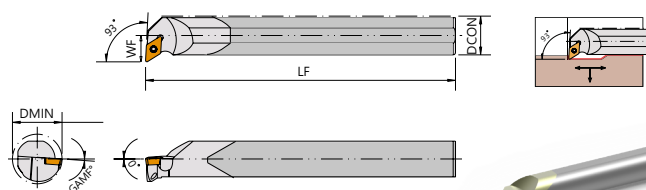
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			DCON (Shank Dia)	DMIN (Min Bore)	H (Head Dia)	LF (Length)	LH (Length)
OM11311	OM11318	A0810J SDUCR/L 07	DCMT 0702	10	13	8	110	25
OM11312	OM11319	A1012K SDUCR/L 07		12	16	10	125	32
OM11313	OM11320	A1216M SDUCR/L 07		16	20	12	150	38

Spare Parts

Designation	Insert Screw	Torx Key
07...	OM14030 (CS-25060)	OM14056 (FT-7)

C-SDUCR/L 93° DCMT

- Carbide shank without through coolant



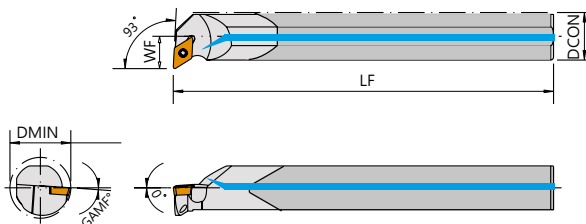
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11204	OM11209	C08K SDUCR/L 07	DCMT 0702	8	5	125	13
OM11072	OM11073	C10M SDUCR/L 07		10	7	150	13
OM11074	OM11075	C12Q SDUCR/L 07		12	9	180	16
OM11076	OM11077	C16R SDUCR/L 07		16	11	200	20
OM11078	OM11079	C20S SDUCR/L 11	DCMT 11T3	20	13	250	25
OM11182	OM11183	C25T SDUCR/L 11		25	17	300	32

Spare Parts

Designation	Insert Screw	Torx Key
...07	OM14030 (CS-25060)	OM14056 (FT-7)
...11	OM14035 (CS-35090)	OM14059 (FT-15)

E-SDUCR/L 93° DCMT

- Carbide shank with through coolant



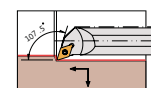
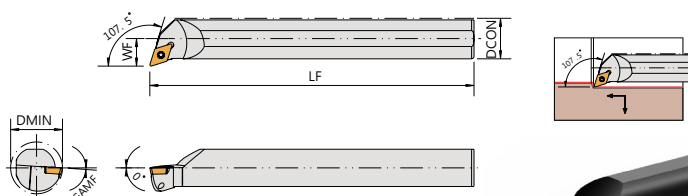
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11196	OM11198	E10M SDUCR/L 07	DCMT 0702	10	7	150	13
OM11080	OM11081	E10Q SDUCR/L 07		10	7	180	13
OM11197	OM11199	E12Q SDUCR/L 07		12	9	180	16
OM11082	OM11083	E12R SDUCR/L 07		12	9	200	16
OM11084	OM11085	E16R SDUCR/L 07		16	11	200	20
OM11086	OM11087	E20S SDUCR/L 11	DCMT 11T3	20	13	250	25
OM11184	OM11185	E25T SDUCR/L 11		25	17	300	32

Spare Parts

Designation	Insert Screw	Torx Key
...07	OM14030 (CS-25060)	OM14056 (FT-7)
...11	OM14035 (CS-35090)	OM14059 (FT-15)

S-SDQCR/L 107.5° DCMT

- Steel shank without through coolant



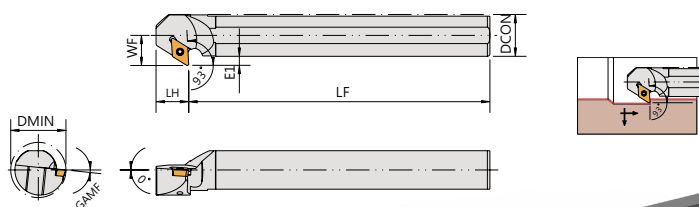
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11102	OM11103	S10M SDQCR/L 07	DCMT 0702	10	7	150	13
OM11104	OM11105	S12M SDQCR/L 07		12	9	150	16
OM11106	OM11107	S16R SDQCR/L 07		16	11	200	20
OM11108	OM11109	S20S SDQCR/L 11	DCMT 11T3	20	13	250	25
OM11273	OM11274	S25R SDQCR/L 11		25	17	200	32

Spare Parts

Designation	Insert Screw	Torx Key
...07	OM14030 (CS-25060)	OM14056 (FT-7)
...11	OM14035 (CS-35090)	OM14059 V(FT-15)

S-SDZCR/L 93° DCMT

- Steel shank without through coolant



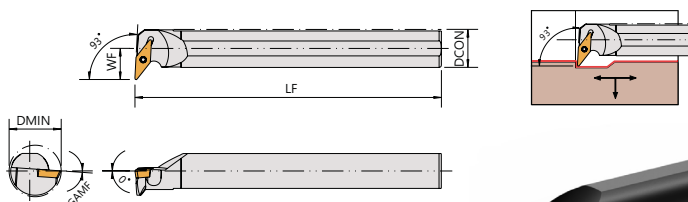
Part Number		Toolholder ISO	Insert	Dimensions (mm)					
R/H	L/H			DCON (Shank Dia)	WF	E1	LF (Length)	DMIN (Min Bore)	LH
OM11275	OM11276	S10M SDZCR/L 07	DCMT 0702	10	8.5	3.5	150	14	11
OM11277	OM11278	S12M SDZCR/L 07		12	10.5	4.5	150	17	11
OM11279	OM11280	S16Q SDZCR/L 07		16	12.5	4.5	180	21	11
OM11281	OM11282	S20R SDZCR/L 11	DCMT 11T3	20	15.5	5.5	200	26	16
OM11283	OM11284	S25R SDZCR/L 11		25	18	5.5	200	33	20

Spare Parts

Designation	Insert Screw	Torx Key
...07	OM14030 (CS-25060)	OM14056 (FT-7)
...11	OM14035 (CS-35090)	OM14059 (FT-15)

S-SVUCR/L 93° VCMT

- Steel shank without through coolant



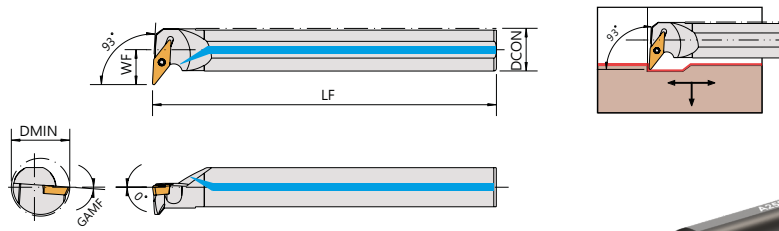
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11400	OM11401	S12M SVUCR/L 08	VCMT 0802	12	11	150	22
OM11112	OM11113	S16Q SVUCR/L 11	VCMT 1103	16	13	180	22
OM11114	OM11115	S20R SVUCR/L 11		20	15	200	27
OM11116	OM11117	S25R SVUCR/L 16	VCMT 1604	25	20.5	200	33
OM11118	OM11119	S32U SVUCR/L 16		32	22.5	350	42
OM11120	OM11121	S40V SVUCR/L 16		40	27	400	51

Spare Parts

Designation	Insert Screw	Torx Key
...08	OM14289 (CS-20047)	OM14056 (FT-7)
...11	OM14030 (CS-25060)	OM14056 (FT-7)
...16	OM14035 (CS-35090)	OM14059 (FT-15)

A-SVUCR/L 93° VCMT

- Steel shank with through coolant



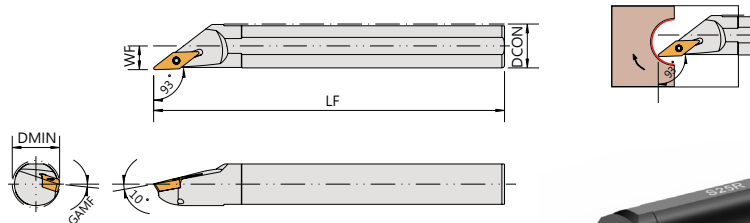
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11360	OM11361	A16Q SVUCR/L 11	VCMT 1103	16	13	180	22
OM11362	OM11363	A20R SVUCR/L 11		20	15	200	27
OM11364	OM11365	A25R SVUCR/L 16	VCMT 1604	25	20.5	200	33

Spare Parts

Designation	Insert Screw	Torx Key
...11	OM14030 (CS-25060)	OM14056 (FT-7)
...16	OM14035 (CS-35090)	OM14059 (FT-15)

S-SVJCR/L 93° VCMT

- Steel shank without through coolant



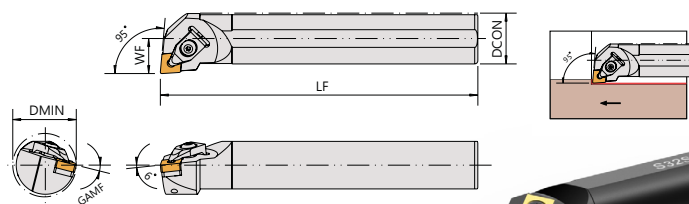
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11285	OM11286	S12M SVJCR/L 11	VCMT 1103	12	7	150	14
OM11287	OM11288	S16Q SVJCR/L 11		16	9	180	18
OM11289	OM11290	S20R SVJCR/L 16	VCMT 1604	20	10.5	200	21
OM11291	OM11292	S25R SVJCR/L 16		25	13.5	200	27

Spare Parts

Designation	Insert Screw	Torx Key
...11	OM14030 (CS-25060)	OM14056 (FT-7)
...16	OM14035 (CS-35090)	OM14059 (FT-15)

S-DCLNR/L 95° CNMG

- Steel shank without through coolant



BORING
BARS



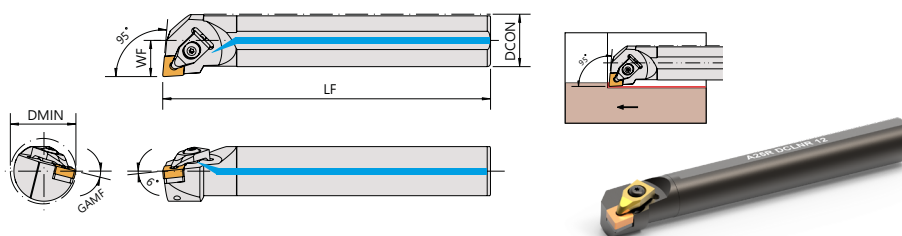
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11122	OM11123	S25T DCLNR/L 12	CNMG 1204	25	17	300	32
OM11124	OM11125	S32S DCLNR/L 12		32	22	250	40
OM11126	OM11127	S40T DCLNR/L 12		40	27	300	50
OM11178	OM11179	S50W DCLNR/L 12		50	34	450	60

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...12	OM14073 (SMC-422)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)
S50W...12	OM14278 (MC1204)	OM14280 (DSP0612)	OM14279 (DCL2612)	-	OM14105 (DM0625)	OM14103 (TL-20)

A-DCLNR/L 95° CNMG

- Steel shank with through coolant



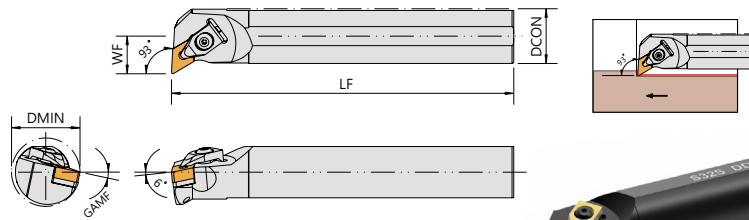
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11374	OM11375	A25R DCLNR/L 12	CNMG 1204	25	17	200	32
OM11376	OM11377	A32S DCLNR/L 12		32	22	250	40
OM11378	OM11379	A40T DCLNR/L 12		40	27	300	50

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...12	OM14073 (SMC-422)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

S-DDUNR/L 93° DNMG

- Steel shank without through coolant



Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11136	OM11137	S25R DDUNR/L 15-06	DNMG 1506	25	17	200	32
OM11138	OM11139	S32S DDUNR/L 15-06		32	22	250	40
OM11140	OM11141	S40T DDUNR/L 15-06		40	27	300	50

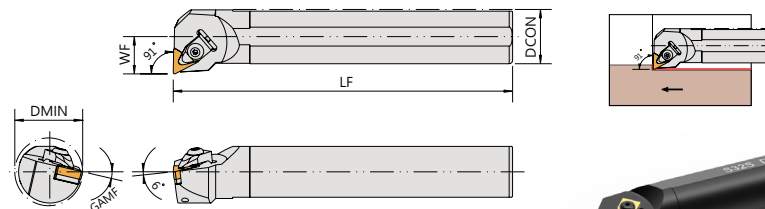
Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...15	OM14081 (SMD-424)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

For DNMG 1504 inserts use shim OM14082 (SMD-443)

S-DTFNR/L 91° TNMG

- Steel shank without through coolant



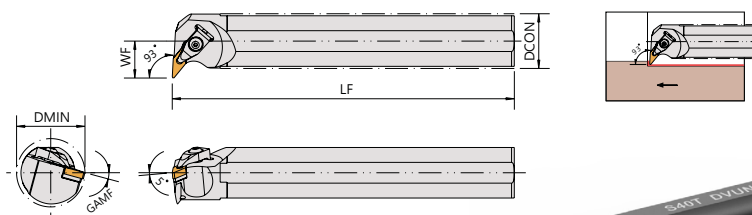
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11293	OM11294	S25R DTFNR/L 16	TNMG 1604	25	17	200	32
OM11295	OM11296	S32S DTFNR/L 16		32	22	250	40

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...16	OM11224 (SMT-323)	OM14039 (CSA-40075)	OM14006 (CP-D2)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

S-DVUNR/L 93° VNMG

- Steel shank without through coolant



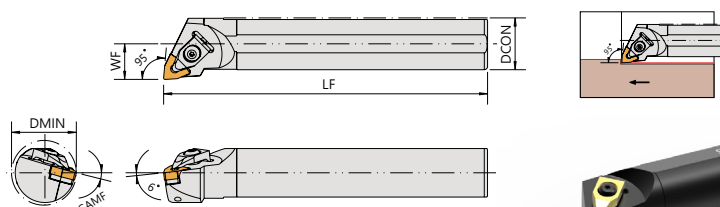
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11142	OM11143	S40T DVUNR/L 16	VNMG 16	40	27	300	50

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...16	OM14087 (SMV-322)	OM14040 (CSA-40079)	OM14007 (CP-D3)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

S-DWLNR/L 95° WNMG

- Steel shank without through coolant



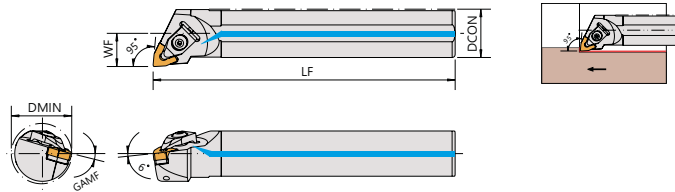
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11297	OM11298	S20R DWLNR/L 06	WNMG 0604	20	13	200	25
OM11145	OM11146	S25R DWLNR/L 06		25	17	200	32
OM11147	OM11148	S25R DWLNR/L 08	WNMG 0804	25	17	200	32
OM11149	OM11150	S32S DWLNR/L 08		32	22	250	40
OM11151	OM11152	S40T DWLNR/L 08		40	27	300	50

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...06	OM14089 (SMW-322)	OM14053 (CSA-4009F)	OM14006 (CP-D2)	OM14097 (SP-0612)	OM14044 (CSB-0415T)	OM14102 (TL-15)
...08	OM14090 (SMW-423)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

A-DWLNR/L 95° WNMG

- Steel shank with through coolant



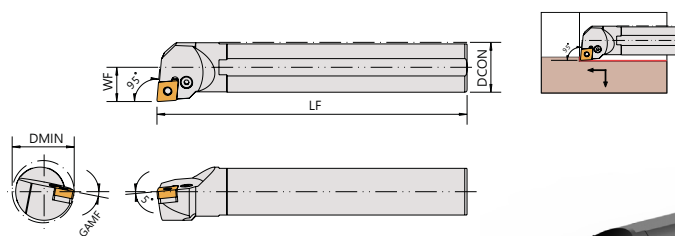
Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11368	OM11369	A20R DWLNR/L 06	WNMG 0604	20	13	200	25
OM11370	OM11371	A25R DWLNR/L 08	WNMG 0804	25	17	200	32
OM11372	OM11373	A32S DWLNR/L 08		32	22	250	40

Spare Parts

Designation	Insert Shim	Shim Screw	Insert Clamp	Clamp Spring	Clamp Screw	Torx Key
...06	-	-	OM14006 (CP-D2)	OM14097 (SP-0612)	OM14044 (CSB-0415T)	OM14102 (TL-15)
...08	OM14090 (SMW-423)	OM14054 (CSF-4010)	OM14008 (CP-D4)	OM14099 (SP-0816)	OM14046 (CSB-0620T)	OM14103 (TL-20)

S-PCLNR/L 95° CNMG

- Steel shank without through coolant



Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11128	OM11129	S25T PCLNR/L 12	CNMG 1204	25	17	300	32
OM11130	OM11131	S32U PCLNR/L 12		32	22	350	40
OM11132	OM11133	S40V PCLNR/L 12		40	27	400	50
OM11134	OM11135	S50W PCLNR/L 12		50	35	450	63

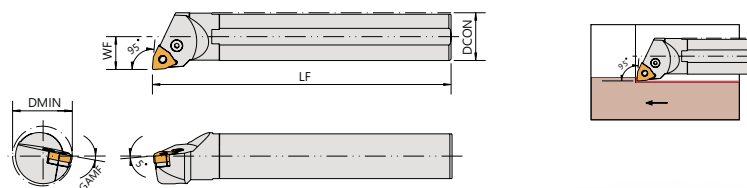
Spare Parts

Designation	Insert Shim	Shim Clip	Insert Lever	Lever Screw	Hex Key
S25 ...12	-	OM14024 (CS-LSP5)	OM14013 (CP-LL5)	OM14017 (CS-LS3)	OM14066 (LW-025)
S32, S40, S50 ...12	OM14073 (SMC-422)	OM14023 (CS-LSP4)	OM14012 (CP-LL4)	OM14018 (CS-LS4)	OM14067 (LW-030)

S-PWLNLR/L

95° WNMG

- Steel shank without through coolant



Part Number		Toolholder ISO	Insert	Dimensions (mm)			
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)
OM11153	OM11154	S16R PWLNLR/L 06	WNMG 0604	16	11	200	20
OM11155	OM11156	S20S PWLNLR/L 06		20	13	250	25
OM11157	OM11158	S25T PWLNLR/L 06		25	17	300	32
OM11159	OM11160	S32U PWLNLR/L 06		32	22	350	40
OM11161	OM11162	S25T PWLNLR/L 08	WNMG 0804	25	17	300	32
OM11163	OM11164	S32U PWLNLR/L 08		32	22	350	40
OM11165	OM11166	S40V PWLNLR/L 08		40	27	400	50
OM11167	OM11168	S50W PWLNLR/L 08		50	34	450	63

Spare Parts

Designation	Insert Shim	Shim Clip	Insert Lever	Lever Screw	Hex Key
...06	-	OM14021 (CS-LS2)	OM14010 (CP-IL2)	OM14016 (CS-LS2)	OM14065 (LW-020)
S25...08	-	OM14024 (CS-LS5)	OM14013 (CP-IL5)	OM14017 (CS-LS3)	OM14066 (LW-025)
S32, S40, S50 ...08	OM14090 (SMW-423)	OM14023 (CS-LS4)	OM14012 (CP-IL4)	OM14018 (CS-LS4)	OM14067 (LW-030)

BORING
BARS

CARBIDE BORING BAR SET

3 Piece Carbide Shank Boring Bar Set with through coolant

Includes the following boring bars:

- E08K SCLCR/L 06
- E10K SCLCR/L 06
- E12M SCLCR/L 06



Part Number		Description	Insert
R/H	L/H		
OM01007	OM01008	Carbide Shank SCLCR/L 06 Boring Bar Set	CCMT 06...

SCLCR 06 STEEL BORING BAR SET

4 Piece Steel Shank Boring Bar Set with through coolant

Includes the following:

- A0608H SCLCR 06
- A0810J SCLCR 06
- A1012K SCLCR 06
- A1216M SCLCR 06



Part Number		Description	Insert
R/H	L/H		
OM01001	OM01004	Steel Shank SCLCR/L 06 Boring Bar Set	CCMT 06...

SCLCR 09 STEEL BORING BAR SET

3 Piece Steel Shank Boring Bar Set with through coolant

Includes the following:

- A1216M SCLCR/L 09
- A1620Q SCLCR/L 09
- A2025R SCLCR/L 09



Part Number		Description	Insert
R/H	L/H		
OM01002	OM01005	Steel Shank SCLCR/L 09 Boring Bar Set	CCMT 09...

SDUCR 07 STEEL BORING BAR SET

3 Piece Steel Shank Boring Bar Set with through coolant

Includes the following:

- A0810J SDUCR/L 07
- A1012K SDUCR/L 07
- A1216M SDUCR/L 07



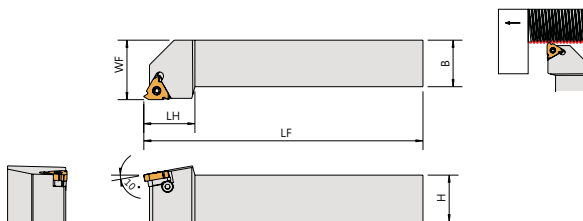
Part Number		Description	Insert
R/H	L/H		
OM01003	OM01006	Steel Shank SDUCR/L 07 Boring Bar Set	DCMT 07...

THREAD TURNING TOOLS

THREADING TOOLS

SER/L External Threading

- Size 16 Screwlock



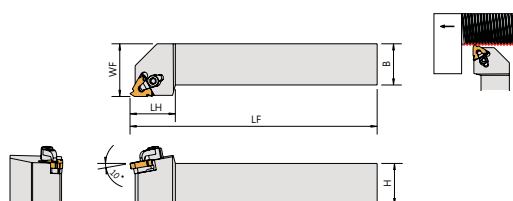
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM13001	OM13002	SER/L 1010 H16N	16ER / 16EL	10	10	100	20	10
OM13003	OM13004	SER/L 1212 H16N		12	12	100	20	12
OM13005	OM13006	SER/L 1616 H16		16	16	100	20	20
OM13007	OM13008	SER/L 2020 K16		20	20	125	20	25
OM13009	OM13010	SER/L 2525 M16		25	25	150	29	32
OM13011	OM13012	SER/L 3232 P16		32	32	170	32	40

Spare Parts

Designation	R/H Shim	L/H Shim	Shim Screw	Insert Screw	Torx Key	Hex Key
...16	OM14001 (AE16)	OM14002 (AI16)	OM14047 (CSH-0306)	OM14038 (CS35117S)	OM14059 (FT-15)	OM14066 (LW-025)

CER/L External Threading

- Size 22+27 Top Clamp



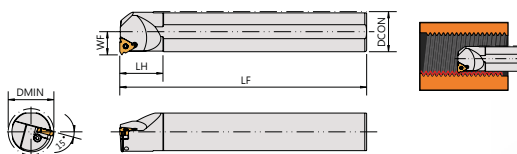
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			H	B	LF	LH	WF
OM13013	OM13014	CER/L 2020 K22	22ER / 22EL	20	20	125	22	25
OM13015	OM13016	CER/L 2525 M22		25	25	150	25	32
OM13019	OM13020	CER/L 3232 P22		32	32	170	34	40
OM13017	OM13018	CER/L 2525 M27	27ER / 27EL	25	25	150	25	32
OM13021	OM13022	CER/L 3232 P27		32	32	170	34	40
OM13023	OM13024	CER/L 4040 S27		40	40	250	42	50

Spare Parts

Designation	R/H Shim	L/H Shim	Shim Screw	Clamp Screw Assembly	Torx Key	Hex Key
...22	OM14003 (AE22)	OM14003 (AI22)	OM14048 (CSF-3008)	OM14100 (SP-CP22S)	OM14059 (FT-15)	OM14065 (LW020)
...27	OM14004 (AE27)	OM14005 (AI27)	OM14054 (CSF-4010)	OM14101 (SP-CP27S)	OM14117 (LW040)	OM14066 (LW025)

SIR/L Internal Threading

- Size 11,16+22 Screwlock



THREADING
TOOLS



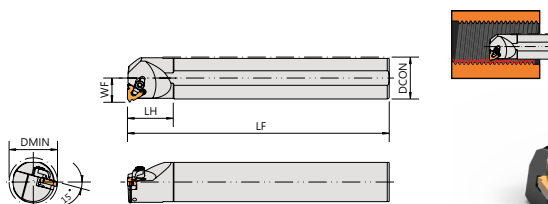
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)	LH
OM13025	OM13026	SIR/L 1010 11	11 IR/L	10	5.2	150	10	25
OM13027	OM13028	SIR/L 1012 11		12	5.2	150	10	25
OM13077	OM13078	SIR/ 1210 11		10	6.3	150	12	25
OM13071	OM13072	SIR/L 1412 11		12	7.5	150	14	25
OM13029	OM13030	SIR/L 1216 11		16	6.3	150	12	25
OM13073	OM13074	SIR/L 1516 16	16 IR/L	16	8.2	150	15	35
OM13031	OM13032	SIR/L 2016 16		16	10	150	20	35
OM13033	OM13034	SIR/L 2420S 16		20	12	180	24	35
OM13035	OM13036	SIR/L 3025S 16		25	15	200	30	35
OM13037	OM13038	SIR/L 3732S 16		32	18.5	250	37	35
OM13039	OM13040	SIR/L 4440S 16	22IR/L	40	22.5	300	44	35
OM11380	OM11381	SIR/L 5550S 16		50	28.5	350	55	35
OM13041	OM13042	SIR/L 2420 22		20	13	180	24	35

Spare Parts

Designation	R/H Shim	L/H Shim	Shim Screw	Insert Screw	Torx Key	Hex Key
...11	-	-	-	OM14033 (CS-25080)	OM14057 (FT-8)	-
...16 16	-	-	-	OM14035 (CS-35090)	OM14059 (FT-15)	-
...S 16	OM14002 (AI16)	OM14001 (AE16)	OM14047 (CSH-0306)	OM14038 (CS-35115)	OM14059 (FT-15)	OM14066 (TW025)
...2420 22	-	-	-	OM14042 (CS-40115)	OM14059 (FT-15)	-

CNR/L Internal Threading

- Size 22+27 Top Clamp



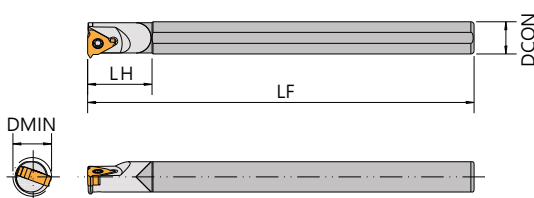
Part Number		Toolholder ISO	Insert	Dimensions (mm)				
R/H	L/H			DCON (Shank Dia)	WF	LF (Length)	DMIN (Min Bore)	LH
OM13043	OM13044	CNR/L 3025S 22	22R/L	25	16	200	30	35
OM13045	OM13046	CNR/L 3732S 22		32	19.5	250	37	35
OM13049	OM13050	CNR/L 4440S 22		40	24.5	300	45	35
OM11382	OM11383	CNR/L 5450S 22		50	30.5	350	56	35
OM13047	OM13048	CNR/L 3732 S27	27 IR/L	32	20	250	37	35
OM13051	OM13052	CNR/L 4440 S27		40	25	300	46	35
OM13053	OM13054	CNR/L 5450 S27		50	31.5	350	58	35

Spare Parts

Designation	R/H Shim	L/H Shim	Shim Screw	Clamp Screw Assembly	Torx Key	Hex Key
...22	OM14003 (AIE22)	OM14003 (AIE22)	OM14048 (CSF-3008)	OM14100 (SP-CP22S)	OM14059 (FT15)	OM14065 (LW020)
...27	OM14005 (AI27)	OM14004 (AE27)	OM14054 (CSF-4010)	OM14101 (SP-CP27S)	OM14117 (LW040)	OM14066 (LW025)

C-SIR Internal Threading

- Carbide Shank Threading Tools



Part Number	Toolholder ISO	Insert	DCON (Shank Dia)	LF (Length)	DMIN (Min Bore)	LH
OM13079	C06H SIR06-07	06 IR	6	100	7	18
OM13080	C08K SIR08-09	08 IR	8	125	9.5	18
OM13068	C10M SIR11-12	11 IR	10	150	12	18
OM13069	C12Q SIR11-14		12	180	14	25
OM13070	C16R SIR16-20	16 IR	16	200	20	35
OM13076	C20S SIR24-20S16		20	250	24	35

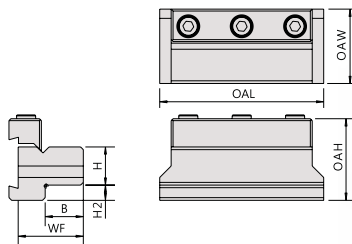
Spare Parts

Designation	Shim	Shim Screw	Insert Screw	Torx Key	Hex Key
C06	-	-	OM14028 (CS-20038)	OM14055 (FT-6)	-
C08	-	-	OM14289 (CS-20045)	OM14055 (FT-6)	-
C10/C12	-	-	OM14033 (CS-25080)	OM14057 (FT8)	-
C16	-	-	OM14035 (CS-35090)	OM14059 (FT15)	-
C20	OM14002 (AI16)	OM14047 (CSH.0306)	OM14038 (CS-35115)	OM14059 (FT15)	OM14066 (LW-025)

PARTING OFF

PART OFF BLOCKS

Removable Split Block Type

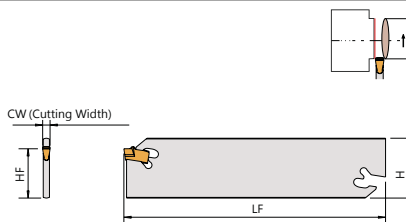


PARTING
OFF

Part Number	Description	Dimensions (mm)						
		H	B	WF	OAH	OAW	H2	OAL
OM13055	SBN 1216-26	12	16	30.5	42	35	16	86
OM13056	SBN 1616-26	16	16	30.5	42	35	12	86
OM13057	SBN 2020-26	20	20	32.5	42	39	8	86
OM13059	SBN 2520-26	25	20	34.5	42	39	3	86
OM13058	SBN 2020-32	20	20	34.5	47	40	13	110
OM13060	SBN 2520-32	25	20	34.5	47	40	8	110
OM13061	SBN 3230-32	32	30	34.5	47	50	8	110

PART OFF BLADES

26mm & 32mm Height



Part Number	Description	Insert	Dimensions (mm)			
			HW	CW	HF	LF
OM13062	SGIH 26J2	OP22	26	2.2	21.4	110
OM13075	SGIH 32M2		32	2.2	25	150
OM13063	SGIH 26J3	OP30	26	3	21.4	110
OM13064	SGIH 32M3		32	3	25	150
OM13065	SGFH 26J2	GFN2	26	2.0 / 2.2	21.4	110
OM13066	SGFH 26J3	GFN3	26	3	21.4	110
OM13067	SGFH 32M3		32	3	25	150

Spare Parts

Designation	Insert Wrench
SGIH..	OM14115 (SL4)
SGFH..	OM14287 (SL3)

PART OFF INSERTS

2mm & 3mm Neutral

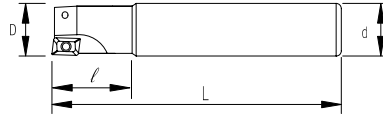
- For SGIH Part Off Blades



Part Number	Description	Size	Coating
OM15067	OP22N M20TIALN	2.2mm	M20 TiAlN
OM15068	OP30N M20TIALN	3mm	M20 TiAlN

INDEXABLE MILLING

APKT END MILLS For APKT 10.. Milling Inserts



INDEXABLE MILLING



Part Number	Toolholder ISO	Insert	Dimensions (mm)				Z
			Cutter Dia (D)	Shank Dia (d)	Length (L)	Reach (l)	
OM13205	S-E90AP1003-D16G02	APKT 1003	16	16	90	28	2
OM13206	S-E90AP1003-D20J03		20	20	110	28	3
OM13207	S-E90AP1003-D25K04		25	25	125	28	4
OM13208	S-E90AP1003-D32K05		32	32	125	28	5

Milling Inserts



Part Number	Description	Coating
OM15001	APKT1003 PDER MM OP3040	PVD Multi-Layer TiAlN

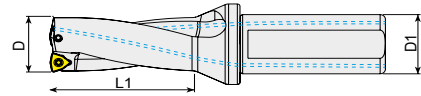
Spare Parts

Designation	Insert Screw	Torx Key
S-E90...D16	OM14031 (CS-25055)	OM14274 (SDT8)
S-E90...D20		
S-E90...D25	OM14032 (CS-25065)	OM14274 (SDT8)
S-E90...D32		

INDEXABLE DRILLING

WCGX U-DRILLS

Indexable Drills for WCGX inserts



Part Number	Description	Insert	D	D1	L1
OM14501	UD30.WC03.160.W25	WCGX 030208	16	25	52
OM14502	UD30.WC03.170.W25		17	25	55
OM14503	UD30.WC03.180.W25		18	25	58
OM14504	UD30.WC03.190.W25		19	25	61
OM14505	UD30.WC03.200.W25		20	25	64
OM14506	UD30.WC04.210.W25	WCGX 040208	21	25	67
OM14507	UD30.WC04.220.W25		22	25	70
OM14508	UD30.WC04.230.W25		23	25	73
OM14509	UD30.WC04.240.W25		24	25	76
OM14510	UD30.WC04.250.W25		25	25	79
OM14511	UD30.WC05.260.W32	WCGX 050308	26	32	83
OM14512	UD30.WC05.270.W32		27	32	86
OM14513	UD30.WC05.280.W32		28	32	89
OM14514	UD30.WC05.290.W32		29	32	92
OM14515	UD30.WC05.300.W32		30	32	95
OM14516	UD30.WC06.310.W40	WCGX 06T308	31	40	98
OM14517	UD30.WC06.320.W40		32	40	101
OM14518	UD30.WC06.330.W40		33	40	104
OM14519	UD30.WC06.340.W40		34	40	107
OM14520	UD30.WC06.350.W40		35	40	110
OM14521	UD30.WC06.360.W40		36	40	113
OM14522	UD30.WC06.370.W40		37	40	116
OM14523	UD30.WC06.380.W40		38	40	119
OM14524	UD30.WC06.390.W40		39	40	122
OM14525	UD30.WC06.400.W40		40	40	125
OM14526	UD30.WC06.410.W40	WCGX 080412	41	40	128
OM14527	UD30.WC08.420.W40		42	40	131
OM14528	UD30.WC08.430.W40		43	40	134
OM14529	UD30.WC08.440.W40		44	40	137
OM14530	UD30.WC08.450.W40		45	40	140
OM14531	UD30.WC08.460.W40		46	40	143
OM14532	UD30.WC08.470.W40		47	40	146
OM14533	UD30.WC08.480.W40		48	40	149
OM14534	UD30.WC08.490.W40		49	40	152
OM14535	UD30.WC08.500.W40		50	40	155



INDEXABLE DRILLING

WCGX U-Drill Inserts



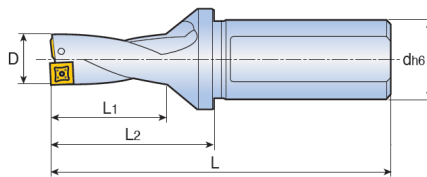
Part Number	Description	Coating
OM15069	WCGX 030208	BPG20B
OM15070	WCGX 040208	BPG20B
OM15071	WCGX 050308	BPG20B
OM15072	WCGX 06T308	BPG20B
OM15073	WCGX 080412	BPG20B

Spare Parts

Insert Screw	Torx Key
OM14032 (CS-25065)	OM14057 (FT8)
OM14032 (CS-25065)	OM14057 (FT8)
OM14034 (CS-30080)	OM14058 (FT10)
OM14035 (CS-35090)	OM14059 (FT15)
OM14041 (CS-40090)	OM14059 (FT15)

INDEXABLE DRILLS U-DRILLS - 2XD

- Excellent diameter accuracy
- Unique insert design to control chip flow
- Made from high quality H13 material



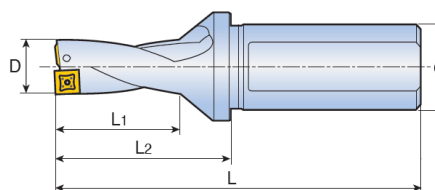
INDEXABLE DRILLING

Part Number	Description	Diameter (D)	Flute Length (L1)	Overall Length (L)	L2	Shank Size (dh6)	for Inserts	Screw Size	Torx Key
OM23701	SPMG13-S20-2D	13	26	94	44	20	SPMG 05 / SPGG 05	M2.0X5	T6
OM23703	SPMG14-S25-2D	14	28	96	46				
OM23705	SPMG15-S25-2D	15	30	99	49	25	SPMG 06 / SPGG 06	M2.2X5.5	T7
OM23707	SPMG16-S25-2D	16	32	108	52				
OM23709	SPMG17-S25-2D	17	34	110	54				
OM23711	SPMG18-S25-2D	18	36	113	57				
OM23713	SPMG19-S25-2D	19	38	115	59				
OM23715	SPMG20-S25-2D	20	40	119	63				
OM23717	SPMG21-S25-2D	21	42	121	65				
OM23719	SPMG22-S25-2D	22	44	123	67				
OM23721	SPMG23-S25-2D	23	46	131	71	SPMG 07 / SPGG 07	M2.5X8	T8	
OM23725	SPMG24-S25-2D	24	48	134	74				
OM23728	SPMG25-S32-2D	25	50	137	77	32	SPMG 09 / SPGG 09	M3.5X9	T15
OM23730	SPMG26-S32-2D	26	52	139	79				
OM23732	SPMG27-S32-2D	27	54	142	81				
OM23734	SPMG28-S32-2D	28	56	144	84				
OM23736	SPMG29-S32-2D	29	58	146	86				
OM23738	SPMG30-S32-2D	30	60	148	88				
OM23739	SPMG31-S32-2D	31	62	150	90				
OM23740	SPMG32-S32-2D	32	64	152	92				
OM23741	SPMG33-S32-2D	33	66	154	94				
OM23742	SPMG34-S32-2D	34	68	156	96				
OM23744	SPMG35-S32-2D	35	70	158	98	SPMG 11 / SPGG 11	M4.0X10	T15	
OM23746	SPMG36-S32-2D	36	72	160	100				
OM23748	SPMG37-S32-2D	37	74	162	102				
OM23750	SPMG38-S32-2D	38	76	164	104				
OM23752	SPMG39-S32-2D	39	78	166	106				
OM23754	SPMG40-S32-2D	40	80	185	115				
OM23756	SPMG41-S32-2D	41	82	187	117	40	SPMG 14 / SPGG 14	M5.0X11	T20
OM23758	SPMG42-S40-2D	42	84	189	119				
OM23759	SPMG43-S40-2D	43	86	191	121				
OM23760	SPMG44-S40-2D	44	88	193	123				
OM23761	SPMG45-S40-2D	45	90	195	125				
OM23762	SPMG46-S40-2D	46	92	197	127				
OM23763	SPMG47-S40-2D	47	94	199	129				
OM23764	SPMG48-S40-2D	48	96	201	131				
OM23765	SPMG49-S40-2D	49	98	203	133				
OM23766	SPMG50-S40-2D	50	100	205	135				

INDEXABLE DRILLS

U-DRILLS - 3XD

- Excellent diameter accuracy
- Unique insert design to control chip flow
- Made from high quality H13 material

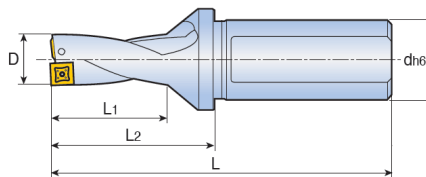


INDEXABLE DRILLING

Part Number	Description	Diameter (D)	Flute Length (L1)	Overall Length (L)	L2	Shank Size (dh6)	for Inserts	Screw Size	Torx Key		
OM23768	SPMG13-S20-3D	13	39	125	69	20	SPMG 05 / SPGG 05	M2.0X5	T6		
OM23770	SPMG14-S25-3D	14	42	128	72	25					
OM23772	SPMG15-S25-3D	15	45	131	75						
OM23774	SPMG16-S25-3D	16	48	134	78						
OM23776	SPMG17-S25-3D	17	51	137	81						
OM23778	SPMG18-S25-3D	18	54	140	84						
OM23780	SPMG19-S25-3D	19	57	143	87						
OM23782	SPMG20-S25-3D	20	60	146	90						
OM23784	SPMG21-S25-3D	21	63	158	98						
OM23786	SPMG22-S25-3D	22	66	161	101						
OM23788	SPMG23-S25-3D	23	69	164	104						
OM23792	SPMG24-S25-3D	24	72	167	107					SPMG 07 / SPGG 07	M2.5X8
OM23795	SPMG25-S32-3D	25	75	170	110						
OM23797	SPMG26-S32-3D	26	78	173	113						
OM23799	SPMG27-S32-3D	27	81	176	116						
OM23801	SPMG28-S32-3D	28	84	179	119						
OM23803	SPMG29-S32-3D	29	87	182	122						
OM23805	SPMG30-S32-3D	30	90	185	125	SPMG 09 / SPGG 09	M3.5X9	T15			
OM23806	SPMG31-S32-3D	31	93	188	128						
OM23807	SPMG32-S32-3D	32	96	191	131						
OM23808	SPMG33-S32-3D	33	99	194	134						
OM23809	SPMG34-S32-3D	34	102	197	137						
OM23811	SPMG35-S32-3D	35	105	200	140						
OM23813	SPMG36-S32-3D	36	108	203	143						
OM23815	SPMG37-S32-3D	37	111	206	146						
OM23817	SPMG38-S32-3D	38	114	209	149						
OM23819	SPMG39-S32-3D	39	117	212	152						
OM23821	SPMG40-S32-3D	40	120	215	155						
OM23823	SPMG41-S32-3D	41	123	218	158				SPMG 11 / SPGG 11	M4.0X10	T15
OM23825	SPMG42-S40-3D	42	126	221	161						
OM23826	SPMG43-S40-3D	43	129	239	169						
OM23827	SPMG44-S40-3D	44	132	242	172						
OM23828	SPMG45-S40-3D	45	135	245	175						
OM23829	SPMG46-S40-3D	46	138	248	178						
OM23830	SPMG47-S40-3D	47	141	251	181						
OM23831	SPMG48-S40-3D	48	144	254	184						
OM23832	SPMG49-S40-3D	49	147	257	187						
OM23833	SPMG50-S40-3D	50	150	260	190	SPMG 14 / SPGG 14	M5.0X11	T20			
OM23825	SPMG42-S40-3D	42	126	221	161						
OM23826	SPMG43-S40-3D	43	129	239	169						
OM23827	SPMG44-S40-3D	44	132	242	172						
OM23828	SPMG45-S40-3D	45	135	245	175						
OM23829	SPMG46-S40-3D	46	138	248	178						
OM23830	SPMG47-S40-3D	47	141	251	181						
OM23831	SPMG48-S40-3D	48	144	254	184						
OM23832	SPMG49-S40-3D	49	147	257	187						
OM23833	SPMG50-S40-3D	50	150	260	190						

INDEXABLE DRILLS U-DRILLS - 4XD

- Excellent hole diameter accuracy
- Unique insert design to control chip flow
- Made from high quality H13 material



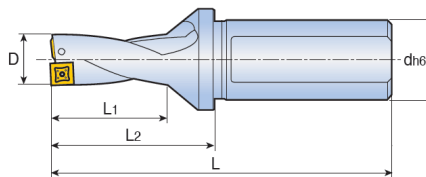
INDEXABLE DRILLING

Part Number	Description	Diameter (D)	Flute Length (L1)	Overall Length (L)	L2	Shank Size (dh6)	for Inserts	Screw Size	Torx Key
OM23835	SPMG13-S20-4D	13	52	138	82	20	SPMG 05 / SPGG 05	M2.0X5	T6
OM23837	SPMG14-S25-4D	14	56	142	86				
OM23839	SPMG15-S25-4D	15	60	146	90	25	SPMG 06 / SPGG 06	M2.2X5.5	T7
OM23841	SPMG16-S25-4D	16	64	150	94				
OM23843	SPMG17-S25-4D	17	68	154	98				
OM23845	SPMG18-S25-4D	18	72	158	102				
OM23847	SPMG19-S25-4D	19	76	162	106				
OM23849	SPMG20-S25-4D	20	80	166	110				
OM23851	SPMG21-S25-4D	21	84	179	119				
OM23853	SPMG22-S25-4D	22	88	183	123	SPMG 07 / SPGG 07	M2.5X8	T8	
OM23855	SPMG23-S25-4D	23	92	187	127				
OM23859	SPMG24-S25-4D	24	96	191	131				
OM23862	SPMG25-S32-4D	25	100	195	135	32	SPMG 09 / SPGG 09	M3.5X9	T15
OM23864	SPMG26-S32-4D	26	104	199	139				
OM23866	SPMG27-S32-4D	27	108	203	143				
OM23868	SPMG28-S32-4D	28	112	207	147				
OM23870	SPMG29-S32-4D	29	116	211	151				
OM23872	SPMG30-S32-4D	30	120	215	155				
OM23873	SPMG31-S32-4D	31	124	219	159				
OM23874	SPMG32-S32-4D	32	128	223	163				
OM23875	SPMG33-S32-4D	33	132	227	167				
OM23876	SPMG34-S32-4D	34	136	231	171				
OM23878	SPMG35-S32-4D	35	140	235	175	SPMG 11 / SPGG 11	M4.0X10	T15	
OM23880	SPMG36-S32-4D	36	144	239	179				
OM23882	SPMG37-S32-4D	37	148	243	183				
OM23884	SPMG38-S32-4D	38	152	247	187				
OM23886	SPMG39-S32-4D	39	156	251	191				
OM23888	SPMG40-S32-4D	40	160	255	195				
OM23890	SPMG41-S32-4D	41	164	259	199	40	SPMG 14 / SPGG 14	M5.0X11	T20
OM23892	SPMG42-S40-4D	42	168	263	203				
OM23893	SPMG43-S40-4D	43	172	282	212				
OM23894	SPMG44-S40-4D	44	176	286	216				
OM23895	SPMG45-S40-4D	45	180	290	220				
OM23896	SPMG46-S40-4D	46	184	294	224				
OM23897	SPMG47-S40-4D	47	188	298	228				
OM23898	SPMG48-S40-4D	48	192	302	232				
OM23899	SPMG49-S40-4D	49	196	306	236				
OM23900	SPMG50-S40-4D	50	200	310	240				

INDEXABLE DRILLS **NEW**

U-DRILLS - 5XD

- Excellent hole diameter accuracy
- Unique insert design to control chip flow
- Made from high quality H13 material



INDEXABLE DRILLING

Part Number	Description	Diameter (D)	Flute Length (L1)	Overall Length (L)	L2	Shank Size (dh6)	for Inserts	Screw Size	Torx Key	
OM23906	SPMG15-S25-5D	15	75	161	105	25	SPMG 05 / SPGG 05	M2.0X5	T6	
OM23908	SPMG16-S25-5D	16	80	166	110					
OM23910	SPMG17-S25-5D	17	85	171	115					
OM23912	SPMG18-S25-5D	18	90	176	120		32	SPMG 06 / SPGG 06	M2.2X5.5	T7
OM23914	SPMG19-S25-5D	19	95	181	125					
OM23916	SPMG20-S25-5D	20	100	186	130					
OM23918	SPMG21-S25-5D	21	105	200	135			SPMG 07 / SPGG 07	M2.5X8	T8
OM23920	SPMG22-S25-5D	22	110	205	140					
OM23923	SPMG23-S25-5D	23	115	210	145					
OM23925	SPMG24-S25-5D	24	120	215	150	40	SPMG 09 / SPGG 09	M3.5X9	T15	
OM23929	SPMG25-S32-5D	25	125	220	155					
OM23931	SPMG26-S32-5D	26	130	225	160					
OM23933	SPMG27-S32-5D	27	135	230	165		SPMG 11 / SPGG 11	M4.0X10	T15	
OM23935	SPMG28-S32-5D	28	140	235	170					
OM23937	SPMG29-S32-5D	29	145	240	175					
OM23939	SPMG30-S32-5D	30	150	245	180		40	SPMG 14 / SPGG 14	M5.0 X 11	T20
OM23940	SPMG31-S32-5D	31	155	250	185					
OM23941	SPMG32-S32-5D	32	160	255	190					
OM23942	SPMG33-S32-5D	33	165	260	195					
OM23943	SPMG34-S32-5D	34	170	265	200					
OM23945	SPMG35-S32-5D	35	175	270	205					
OM23947	SPMG36-S32-5D	36	180	275	210					
OM23949	SPMG37-S32-5D	37	185	280	215					
OM23951	SPMG38-S32-5D	38	190	285	220					
OM23953	SPMG39-S32-5D	39	195	290	225					
OM23955	SPMG40-S32-5D	40	200	295	230					
OM23957	SPMG41-S32-5D	41	205	300	235					
OM23959	SPMG42-S40-5D	42	210	305	240					
OM23960	SPMG43-S40-5D	43	215	310	245					
OM23961	SPMG44-S40-5D	44	220	315	250					
OM23962	SPMG45-S40-5D	45	225	320	255					
OM23963	SPMG46-S40-5D	46	230	325	260					
OM23964	SPMG47-S40-5D	47	235	330	265					
OM23965	SPMG48-S40-5D	48	240	335	270					
OM23966	SPMG49-S40-5D	49	245	340	275					
OM23967	SPMG50-S40-5D	50	250	345	280					

SPMG DRILLING INSERTS

For Steels & Stainless Steel

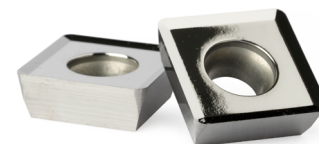


Part Number	Description
OM23968	SPMG 050204 OP3040
OM23969	SPMG 060204 OP3040
OM23970	SPMG 07T308 OP3040
OM23971	SPMG 090408 OP3040
OM23972	SPMG 110408 OP3040
OM23973	SPMG 140512 OP3040

INDEXABLE DRILLING

SPGG DRILLING INSERTS

For Aluminium & Non-Ferrous Materials



Part Number	Description
OM23974	SPGG 050204 AL K10
OM23975	SPGG 060204 AL K10
OM23976	SPGG 07T308 AL K10
OM23977	SPGG 090408 AL K10
OM23978	SPGG 110408 AL K10
OM23979	SPGG 140512 AL K10

Spare Screws

Part Number	Description
OM23980	M2.0x5 Screw for SPMG 05
OM23981	M2.2x5.5 Screw for SPMG 06
OM23982	M2.5x8 Screw for SPMG 07
OM23983	M3.5x9 Screw for SPMG 09
OM23984	M4x10 Screw for SPMG 11
OM23985	M5.0x11 Screw for SPMG 14

Cutting Data for SPMG Drills

Material	Speed (m/min)	Feed (mm/rev)								
		Ø12.5-Ø15	Ø15.5-Ø21.5	Ø22-Ø27.5	Ø28-Ø33	Ø34-Ø41	Ø42-Ø50	Ø50-Ø60	Ø60-Ø75	Ø75-Ø80
Unalloyed steel	180-250	0.05-0.08	0.06-0.10	0.06-0.12	0.07-0.13	0.08-0.15	0.08-0.16	0.06-0.12	0.08-0.12	0.08-0.12
Low alloy steel	160-220	0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.22	0.12-0.24	0.13-0.25	0.10-0.14	0.12-0.18	0.11-0.18
Low alloy steel	150-220	0.06-0.12	0.08-0.14	0.10-0.18	0.12-0.22	0.12-0.23	0.13-0.24	0.08-0.15	0.10-0.18	0.10-0.18
High alloy steel	130-180	0.06-0.10	0.08-0.15	0.10-0.20	0.12-0.23	0.12-0.24	0.13-0.25	0.08-0.14	0.09-0.15	0.09-0.14
Stainless steel	170-240	0.05-0.10	0.06-0.12	0.08-0.15	0.09-0.16	0.10-0.17	0.11-0.19	0.06-0.13	0.08-0.15	0.08-0.14
Grey Cast iron	180-250	0.06-0.12	0.08-0.16	0.12-0.20	0.15-0.25	0.16-0.28	0.18-0.30	0.12-0.20	0.15-0.20	0.15-0.20
Cast Iron Nodular	130-200	0.06-0.10	0.08-0.15	0.10-0.18	0.12-0.20	0.15-0.23	0.16-0.25	0.10-0.15	0.09-0.18	0.10-0.18
Aluminium forging alloys	330-380	0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26	0.14-0.20	0.14-0.23	0.15-0.23
Super-alloys and titanium	30-60	0.05-0.10	0.06-0.14	0.08-0.18	0.10-0.22	0.12-0.22	0.14-0.24	0.10-0.15	0.1-0.15	0.1-0.15

CENTRE & CHAMFER DRILL WITH 6 INSERTS

One tool for multiple applications

- Set includes:
- 1x CMN-1411100-S16 Holder Centre and Chamfer Drill 16x100
- 6x XDBP11T308-P Inserts CC Drill Insert for Alloy Steel



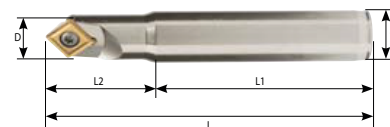
Part Number	Description	Insert
OM14308	Centre & Chamfer Drill with 6 inserts	XDBP 11T3..



INDEXABLE DRILLING

CENTRE & CHAMFER DRILL HOLDERS

One tool for multiple applications



Part Number	Description	Dimensions (mm)					Insert
		D	d	L	L1	L2	
OM14301	CMN-1411100-S12	14	12	100	67	33	XDBP 11T3...
OM14302	CMN-1411100-S16	14	16	100	67	33	
OM14303	CMN-1411150-S16	14	16	150	117	33	
OM14304	CMN-1411220-S16	14	16	220	187	33	

CHAMFER & CENTRE DRILL INSERTS

4 cutting edges per insert

- Maximum recommended cutting depth for centering & chamfering is 7mm



Part Number	Description	Corner Radius (mm)	Application
OM14334	XDBP11T303-P	0.3	Alloy Steel
OM14305	XDBP11T308-P	0.8	
OM14335	XDBP11T303-S	0.3	Stainless Steel
OM14306	XDBP11T308-S	0.8	
OM14337	XDBP11T304-N	0.4	Non Ferrous
OM14333	XDBP11T308-N	0.8	
OM14336	XDBP11T303-C	0.3	Cast Iron
OM14307	XDBP11T308-C	0.8	

Spares

Part Number	Insert Screw
OM14311	TSB-3508

Cutting Data

Material	Cutting Speed m/min	Feed per rev. mm/rev
Carbon Steel	120-150	0.05
Alloy Steel	100-120	0.04
High Alloy Steel	60-80	0.03
Hard Steel HRC40°	60-80	0.03
Hard Steel HRC40° < HRC < 48°	50-60	0.03
Stainless Steel	50-60	0.03
Cast Iron	80-102	0.05

45° INDEXABLE ENGRAVING KIT **NEW**

1 Holder & 3 Inserts

- Long Tool Life, High Speed, High Feed Rate



INDEXABLE
DRILLING

Part Number	Description	Holder	Contents	Grade
OM14354	CET 0206040 P SET	CET-0206040	1x Holder, 1x T6 Wrench & 3x Inserts	Alloy Steel
OM14355	CET 0206040 M SET			Stainless Steel
OM14356	CET 0206040 N SET			Aluminium

45° ENGRAVING TOOL HOLDERS **NEW**

- Carbide shank holders designed for shrink-fit holders, engraving machines & high speed cutting
- 100mm length application is only Al, Al-alloy cutting, unbalanced <0.6gm



Part Number	Holder	d (mm)	L (mm)	Screw	Wrench
OM14351	CET 0206040	6	40	"OM14357 (TSB-22045)"	"OM14055 (T6)"
OM14352	CET 0206065C		65		
OM14353	CET 0206100C		100		

45 ° CARBIDE ENGRAVING INSERTS **NEW**

Inserts sold individually



Part Number	Description	Dimensions (mm)			W		T		Grade
		D	d	L	Wmin	Wmax	Tmin	Tmax	
OM14348	VPGT 060202-45P	6.4	2	0.2	0.65	2.1	0.20	2.0	Alloy Steel
OM14349	VPGT 060202-45M				0.65		0.20		Stainless Steel
OM14350	VPGT 060202-45N				0.45		0.05		Aluminium

INDEXABLE DRILLING

Recommended Cutting Data

Material	S RPM	Feed (mm/rev)	Insert Grade	
"P (Steel)"	<30HRC	5,000-20,000	0.02-0.05	VPGT 060202-45M
	30-45HRC	5,000-20,000	0.01-0.02	VPGT 060202-45P
"M (Stainless Steel)"	<40HRC	5,000-20,000	0.02-0.05	VPGT 060202-45M
"K (Cast Iron)"	30-45HRC	5,000-20,000	0.01-0.02	VPGT 060202-45P
"N (Non Ferrous)"	Al, Al-alloy	5,000-20,000	0.02-0.08	VPGT 060202-45N

Material	Speed (m/min)	AP								
		1st	2nd	3rd	4th	5th	6th	~	Fine finishing	Tmax.
"P (Steel)"	Carbon Steel C < 0.3%	0.6	0.4	0.3	0.2	0.2	0.2	0.1	0.1	2
	Carbon Steel C > 0.3%	0.8	0.6	0.3	0.2	0.1	-	-	0.1	2
	Low Alloy Steel C < 0.3%	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	2
	High Alloy Steel C > 0.3%	0.3	0.3	0.2	0.2	0.15	0.15	0.1	0.05	1.4
	Alloy Steel 30-45HRC	0.2	0.2	0.15	0.15	0.1	0.1	0.1	0.05	1
"M (Stainless Steel)"	Stainless Steel	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.05	2
"K (Cast Iron)"	Cast Iron	0.8	0.6	0.3	0.2	0.1	-	-	0.1	2
"N (Non Ferrous)"	Non Ferrous	1	0.8	0.2	-	-	-	-	0.1	2

CARBIDE INSERTS

ISO CARBIDE TURNING INSERTS

For Aluminium & Non-Ferrous

Positive Inserts
Uncoated



Part Number	Description
OM15012	CCGT 060202 AL K10
OM15014	CCGT 060204 AL K10
OM15016	CCGT 09T302 AL K10
OM15018	CCGT 09T304 AL K10
OM15020	CCGT 09T308 AL K10
OM15022	CCGT 120402 AL K10
OM15024	CCGT 120404 AL K10
OM15026	CCGT 120408 AL K10
OM15028	DCGT 070202 AL K10
OM15030	DCGT 070204 AL K10
OM15032	DCGT 11T302 AL K10
OM15034	DCGT 11T304 AL K10
OM15036	DCGT 11T308 AL K10
OM15038	RCGT 0803MO AL K10
OM15040	RCGT 1003MO AL K10
OM15042	SCGT 09T308 AL K10
OM15044	SCGT 120404 AL K10
OM15046	SCGT 120408 AL K10
OM15048	TCGT 090204 AL K10
OM15050	TCGT 110204 AL K10
OM15052	TCGT 16T304 AL K10
OM15054	TCGT 16T308 AL K10
OM15056	VCGT 110302 AL K10
OM15058	VCGT 110304 AL K10
OM21108	VCGT160402 AL K10
OM15060	VCGT 160404 AL K10
OM15062	VCGT 160408 AL K10
OM15064	VCGT 160412 AL K10

Tin Coated



Part Number	Description
OM15013	CCGT 060202 AL TIN
OM15015	CCGT 060204 AL TIN
OM15017	CCGT 09T302 AL TIN
OM15019	CCGT 09T304 AL TIN
OM15021	CCGT 09T308 AL TIN
OM15023	CCGT 120402 AL TIN
OM15025	CCGT 120404 AL TIN
OM15027	CCGT 120408 AL TIN
OM15029	DCGT 070202 AL TIN
OM15031	DCGT 070204 AL TIN
OM15033	DCGT 11T302 AL TIN
OM15035	DCGT 11T304 AL TIN
OM15037	DCGT 11T308 AL TIN
OM15039	RCGT 0803MO AL TIN
OM15041	RCGT 1003MO AL TIN
OM15043	SCGT 09T308 AL TIN
OM15045	SCGT 120404 AL TIN
OM15047	SCGT 120408 AL TIN
OM15049	TCGT 090204 AL TIN
OM15051	TCGT 110204 AL TIN
OM15053	TCGT 16T304 AL TIN
OM15055	TCGT 16T308 AL TIN
OM15057	VCGT 110302 AL TIN
OM15059	VCGT 110304 AL TIN
OM15061	VCGT 160404 AL TIN
OM15063	VCGT 160408 AL TIN
OM15065	VCGT 160412 AL TIN

Negative Inserts for Aluminium
Uncoated



Part Number	Description
OM21065	CNMG 120404-LH BU810
OM21066	CNMG 120408-LH BU810
OM21067	DNMG 150604-LH BU810
OM21068	DNMG 150608-LH BU810
OM21069	VNMG 160404-LH BU810
OM21070	WNMG 060404-LH BU810
OM21071	WNMG 080404-LH BU810
OM21072	WNMG 080408-LH BU810



ISO CARBIDE TURNING INSERTS

For Steel

Positive Inserts



Part Number	Description
OM21000	CCMT 060202-FW BPS101
OM21001	CCMT 060204-FW BPS101
OM21093	CCMT 060204-FW BPS251
OM21096	CCMT 060204-MD BPS251
OM21002	CCMT 09T302-FW BPS101
OM21003	CCMT 09T304-FW BPS101
OM21004	CCMT 09T308-MD BPS251
OM21005	CCMT 120404-MD BPS251
OM21006	CCMT 120408-MD BPS251
OM21007	DCMT 070202-FW BPS101
OM21008	DCMT 070204-FW BPS101
OM21009	DCMT 11T302-FW BPS101
OM21010	DCMT 11T304-FW BPS101
OM21011	DCMT 11T308-MD BPS251
OM21094	TCMT 110204-MD BPS101
OM21013	TCMT 16T304-FW BPS101
OM21014	TCMT 16T308-MD BPS251
OM21101	VBMT 110304-MD BPS101
OM21016	VBMT 160404-FW BPS101
OM21017	VBMT 160408-MD BPS251
OM21095	VCMT 110304-MD BPS101
OM21088	VCMT 160404-MD BPS101
OM21020	VCMT 160408-MD BPS251



CARBIDE
INSERTS

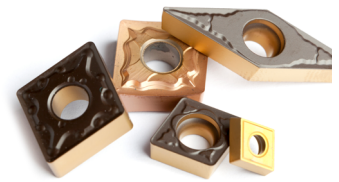
Negative Inserts



Part Number	Description
OM21021	CNMG 120404-FW BPS101
OM21022	CNMG 120404-MA BPS251
OM21023	CNMG 120408-MA BPS251
OM21024	CNMG 120412-MA BPS251
OM21089	DNMG 110404-MD BPS251
OM21098	DNMG 110408-MD BPS251
OM21027	DNMG 150604-MA BPS251
OM21028	DNMG 150608-MA BPS251
OM21099	SNMG 120408-MD BPS251
OM21110	TNMG 160404-MD BPS251
OM21111	TNMG 160408-MD BPS251
OM21030	VNMG 160404-MA BPS251
OM21031	VNMG 160408-MA BPS251
OM21032	WNMG 060404-MD BPS251
OM21033	WNMG 060408-MD BPS251
OM21034	WNMG 080404-MA BPS251
OM21035	WNMG 080408-MA BPS251

ISO CARBIDE TURNING INSERTS

For Stainless Steel



Positive Inserts



Part Number	Description
OM21036	CCMT 060202-FW BPG20B
OM21112	CCMT 060204-MX BPU207
OM21039	CCMT 09T302-FW BPG20B
OM21040	CCMT 09T304-FW BPG20B
OM21041	CCMT 09T304-MD BPG20B
OM21042	DCMT 070202-FW BPG20B
OM21043	DCMT 070204-FW BPG20B
OM21044	DCMT 11T302-FW BPG20B
OM21045	DCMT 11T304-FW BPG20B
OM21046	DCMT 11T304-MD BPG20B
OM21047	VCMT 110304-MD BPG20B
OM21048	VCMT 160404-MD BPG20B
OM21049	VCMT 160408-MD BPG20B

Negative Inserts



Part Number	Description
OM21050	CNMG 120404E-LH BPU10B
OM21051	CNMG 120404-MA BPG20B
OM21052	CNMG 120408E-LH BPG05B
OM21053	CNMG 120408-MA BPG20B
OM21055	DNMG 150604-MA BPG20B
OM21057	DNMG 150608-MA BPG20B
OM21058	SNMG 120408-MA BPG20B
OM21059	VNMG 160404-MA BPG20B
OM21060	WNMG 060404E-LH BPG05B
OM21062	WNMG 080404E-LH BPG05B
OM21063	WNMG 080408-MA BPG20B

CARBIDE
INSERTS

ISO CARBIDE TURNING INSERTS

For Heat Resistant Alloys



Positive Inserts



Part Number	Description
OM21073	CCGT 060202-SL BPG118
OM21074	CCGT 060204-SL BPG118
OM21075	CCGT 09T304-SL BPG118
OM21076	DCGT 070202-SL BPG118
OM21077	DCGT 070204-SL BPG118
OM21078	DCGT 11T304-SL BPG118
OM21079	VCGT 110304-SL BPG118
OM21080	VCGT 160404-SL BPG118

Negative Inserts



Part Number	Description
OM21082	CNGG 120404E-LHC BPG118
OM21083	CNGG 120408E-LHC BPG118
OM21084	DNGG 150604E-LHC BPG118
OM21085	WNGG 060404E-LHC BPG118
OM21086	WNGG 080404E-LHC BPG118
OM21087	WNMG 080408E-LHC BPG118

TECHNICAL INSERT INFORMATION

Aluminium	
Geometry	Application
AL	Positive ground edge inserts suitable for most applications on non-ferrous materials
LH	Negative inserts suitable for most applications on non-ferrous materials
Grade	Application
K10	Uncoated Sub-micron grade for continuous and interrupted machining of non-ferrous metals. ISO K10
TIN	Coated grade for enhanced tool life and cutting speeds on non-ferrous metals. Also can be utilized for finish machining of steel and stainless. ISO K10/15
BU810	Uncoated Sub-micron grade for continuous and interrupted machining of non-ferrous metals. ISO K15
Steel	
Geometry	Application
FW	Finishing on most ferrous materials
MD	Positive geometry for wide range of medium turning on ferrous materials
MA	Universal geometry for most applications on ferrous materials
Grade	Application
BPS1 01	Black/yellow CVD coated grade. Good wear resistance suitable for continuous and light interrupted cutting. Mainly finishing applications. ISO P15/K15
BPS251	Black/yellow CVD coated grade. Universal grade for continuous and interrupted cutting. Wide application range. Can be used for Stainless steel. ISO P25/M20
Stainless	
Geometry	Application
FW	Finish turning geometry for most applications on stainless steel
LH	Sharp edge positive geometry for finishing stainless steel
MD	Medium machining geometry for stainless steel
MA	Universal geometry for medium/rough machining of stainless steel
Grade	Application
BPG05B	Dark blue/grey PVD coated grade. High speed cutting and finishing of stainless. ISO M10
BPG20B	Dark blue/grey PVD coated grade. Wide application for medium machining of stainless. ISO M25
Heat Resistant Alloys	
Geometry	Application
SL	High positive sharp ground edge geometry for finish machining of heat resistant and titanium alloys.
LHC	Sharp ground edge geometry for negative inserts. Low cutting forces on aerospace alloys.
Grade	Application
BPG118	Dark gold PVD coated grade for finish machining heat resistant alloys. Good resistance to built up edge and plastic deformation.

EXTERNAL THREADING INSERTS



Metric Full Form (60°) External



Part Number	Metric Full Form (60°) External
OM15101	16ER 0.5 ISO
OM15102	16ER 0.7 ISO
OM15103	16ER 0.75 ISO
OM15104	16ER 0.8 ISO
OM15105	16ER 1.0 ISO
OM15106	16ER 1.25 ISO
OM15107	16ER 1.5 ISO
OM15108	16ER 1.75 ISO
OM15109	16ER 2.0 ISO
OM15110	16ER 2.5 ISO
OM15111	16ER 3.0 ISO
OM15112	22ER 3.5 ISO
OM15113	22ER 4.0 ISO
OM15114	22ER 4.5 ISO
OM15115	22ER 5.0 ISO

UN Full Form (60°) External



Part Number	UN Full Form (60°) External
OM15146	16ER 32 UN
OM15147	16ER 28 UN
OM15148	16ER 24 UN
OM15149	16ER 20 UN
OM15150	16ER 18 UN
OM15151	16ER 16 UN
OM15152	16ER 14 UN
OM15153	16ER 12 UN
OM15154	16ER 10 UN
OM15155	16ER 8 UN
OM15156	22ER 7 UN
OM15157	22ER 6 UN
OM15158	22ER 5 UN

Whitworth/BSP Full Form (55°) External



Part Number	Whitworth/BSP Full Form (55°) External
OM15176	16ER 28 W
OM15177	16ER 24 W
OM15178	16ER 20 W
OM15179	16ER 19 W
OM15180	16ER 14 W
OM15181	16ER 11 W
OM15182	16ER 8 W
OM15183	22ER 7 W
OM15184	22ER 6 W
OM15185	22ER 5 W

Partial Profile External (60°)



Part Number	Partial Profile External (60°)
OM15195	16ER AG 60
OM15196	16ER G 60
OM15205	22ER AG 60 OP2130

Partial Profile External (55°)



Part Number	Partial Profile External (55°)
OM15197	16ER AG 55
OM15198	16ER G 55
OM15206	22ER AG 55 OP2130





INTERNAL THREADING INSERTS

Metric Full Form (60°) Internal



Part Number	Metric Full Form (60°) Internal
OM15116	11IR 0.5 ISO
OM15117	11IR 0.7 ISO
OM15118	11IR 0.75 ISO
OM15119	11IR 0.8 ISO
OM15120	11IR 1.0 ISO
OM15121	11IR 1.25 ISO
OM15122	11IR 1.5 ISO
OM15123	11IR 1.75 ISO
OM15124	11IR 2.0 ISO
OM15125	16IR 0.5 ISO
OM15126	16IR 0.7 ISO
OM15127	16IR 0.75 ISO
OM15128	16IR 0.8 ISO
OM15129	16IR 1.0 ISO
OM15130	16IR 1.25 ISO
OM15131	16IR 1.5 ISO
OM15132	16IR 1.75 ISO
OM15133	16IR 2.0 ISO
OM15134	16IR 2.5 ISO
OM15135	16IR 3.0 ISO
OM15136	22IR 3.5 ISO
OM15137	22IR 4.0 ISO
OM15138	22IR 4.5 ISO
OM15139	22IR 5.0 ISO

Whitworth/BSP Full Form (55°) Internal



Part Number	Whitworth/BSP Full Form (55°) Internal
OM15171	11IR 28 W
OM15172	11IR 24 W
OM15173	11IR 20 W
OM15174	11IR 19 W
OM15175	11IR 14 W
OM15186	16IR 24 W
OM15187	16IR 20 W
OM15188	16IR 19 W
OM15189	16IR 14 W
OM15190	16IR 11 W
OM15191	16IR 8 W
OM15192	22IR 7 W
OM15193	22IR 6 W
OM15194	22IR 5 W

UN Full Form (60°) Internal



Part Number	UN Full Form (60°) Internal
OM15140	11IR 28 UN
OM15141	11IR 24 UN
OM15142	11IR 20 UN
OM15143	11IR 18 UN
OM15144	11IR 16 UN
OM15145	11IR 14 UN
OM15159	16IR 28 UN
OM15160	16IR 24 UN
OM15161	16IR 20 UN
OM15162	16IR 18 UN
OM15163	16IR 16 UN
OM15164	16IR 14 UN
OM15165	16IR 12 UN
OM15166	16IR 10 UN
OM15167	16IR 8 UN
OM15168	22IR 7 UN
OM15169	22IR 6 UN
OM15170	22IR 5 UN

Partial Profile Internal (60°)



Part Number	Partial Profile Internal (60°)
OM15199	11IR A 60
OM15200	16IR AG 60
OM15201	16IR G 60

Partial Profile Internal (55°)



Part Number	Partial Profile Internal (55°)
OM15202	11IR A 55
OM15203	16IR AG 55
OM15204	16IR G 55

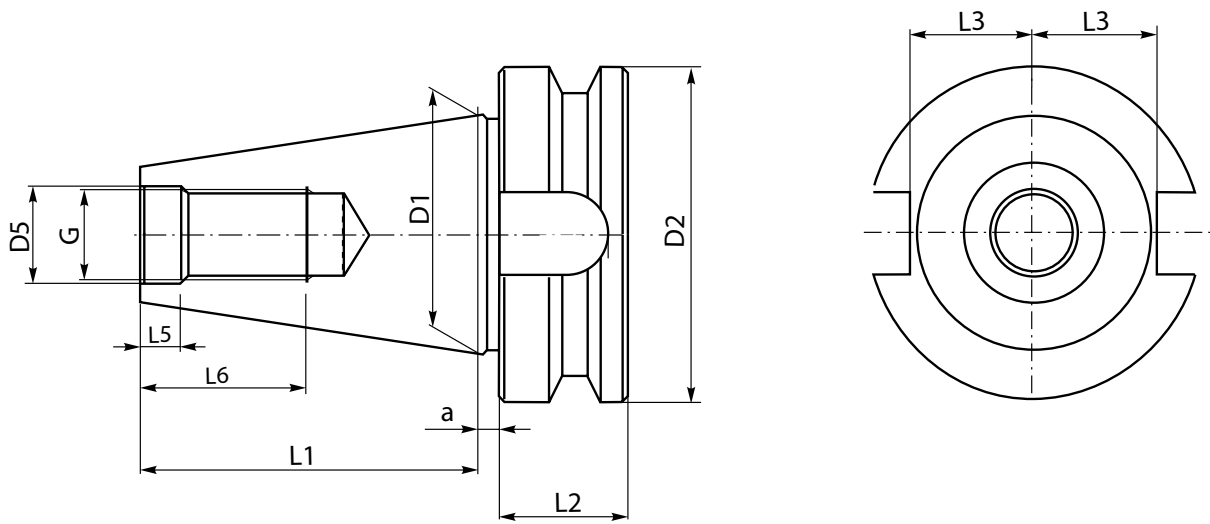
CARBIDE INSERTS

BT MAS403

BT MAS403 (JIS 6399) TECHNICAL SPECIFICATION

- Manufactured with Casehardening Steel
- Surface Hardened HRC 60+2
- Hardening Depth 0.8mm+0.2mm
- Taper Angle Tolerance AT3

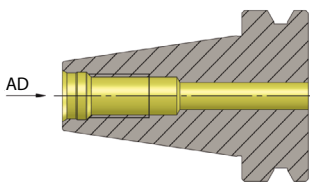
BT (MAS403)



Taper	D1	G	D5	D2	a	L1	L2	L3	L5	L6
30	31.75	M12	12.5	46	2	48.4	22	16.3	7.0	24
40	44.45	M16	17.0	63	2	65.4	27	22.5	8.2	32
50	69.85	M24	25.0	100	3	101.8	38	35.3	11.0	47

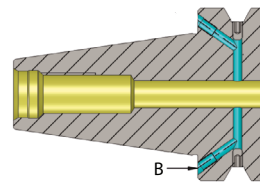
Form AD

Through Spindle Coolant



Form AD/B

Through Spindle Coolant & Through Flange Coolant



ER MINI NUT COLLET CHUCKS

BT30 & BT40

- BT MAS403 (JIS 6339)
- MINI Nut ER Collet Chucks
- Slimline Extended Mini Chucks
- [ER Collets – Pg. 172](#)
- [Spares – Pg. 232](#)



Part Number	Description	Gauge Length (mm)	Form	Nut	Balance
OM30283	BT30 ER11 MINI	70	AD	ER 11 Mini (OM31414)	G2.5 @20,000 RPM
OM30284		100	AD		G2.5 @20,000 RPM
OM31971	BT30 ER16 MINI	60	AD	ER 16 Mini (OM31415)	G2.5 @20,000 RPM
OM30366		100	AD		G2.5 @20,000 RPM
OM30367		150	AD		G2.5 @20,000 RPM

OM31334	BT40 ER11 MINI	70	AD	ER 11 Mini (OM31414)	G2.5 @20,000 RPM
OM31636		70	AD/B		G2.5 @25,000 RPM
OM31335		100	AD		G2.5 @20,000 RPM
OM31637		100	AD/B		G2.5 @25,000 RPM
OM31638		160	AD/B		G2.5 @25,000 RPM
OM30298	BT40 ER16 MINI	70	AD	ER 16 Mini (OM31415)	G2.5 @20,000 RPM
OM31639		70	AD/B		G2.5 @25,000 RPM
OM31336		100	AD		G2.5 @20,000 RPM
OM31640		100	AD/B		G2.5 @25,000 RPM
OM31641		160	AD/B		G2.5 @25,000 RPM
OM30287		200	AD		G2.5 @20,000 RPM



BT (MAS403)

SHORT ER COLLET CHUCK

BT40

- BT MAS403 (JIS 6339)
- Very Short for maximum rigidity
- ER Collets - Pg. 176
- Spares - Pg. 232



Part Number	Description	Collet Type	Gauge Length (mm)	Form	Balance
OM31538	BT40 N ER32 SHORT	ER32	35	AD	G2.5 @25,000 RPM



BT (MAS403)

ER COLLET CHUCKS

BT30

- BT MAS403 (JIS 6339)
- Standard Nut Collet Chucks
- ER Collet System
- ER Collets - Pg. 172
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Form	Nut	Balance
OM31005	BT30 ER16	70	AD	ER16 Hexagon (OM31426)	G2.5 @25,000 RPM
OM31560		100	AD		G2.5 @25,000 RPM
OM31006	BT30 ER25	70	AD	ER25 Castellated (OM31421)	G2.5 @25,000 RPM
OM31561		100	AD		G2.5 @25,000 RPM
OM31007	BT30 ER32	70	AD	ER32 Castellated (OM31422)	G2.5 @25,000 RPM
OM31562		100	AD		G2.5 @25,000 RPM
OM31008	BT30 ER40	80	AD	ER40 Castellated (OM31423)	G2.5 @25,000 RPM



ER COLLET CHUCKS

BT40

- BT MAS403 (JIS 6339)
- Standard Nut Collet Chucks
- ER Collet System
- Wide range of gauge lengths available
- ER Collets - Pg. 172
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Form	Nut	Balance
OM31042	BT40 ER16	70	AD	ER16 Hexagon (OM31426)	G2.5 @20,000 RPM
OM31642		70	AD/B		G2.5 @25,000 RPM
OM31038		100	AD		G2.5 @20,000 RPM
OM31643		100	AD/B		G2.5 @25,000 RPM
OM31535		120	AD/B		G2.5 @25,000 RPM
OM31039		150	AD		G2.5 @20,000 RPM
OM31040		160	AD		G2.5 @20,000 RPM
OM31644		160	AD/B		G2.5 @25,000 RPM
OM31342		200	AD		G2.5 @20,000 RPM
OM31645		200	AD/B		G2.5 @25,000 RPM
OM31045	BT40 ER20	70	AD	ER20 Castellated (OM31420)	G2.5 @20,000 RPM
OM31043		100	AD		G2.5 @20,000 RPM
OM31954		120	AD		G2.5 @20,000 RPM
OM31044		150	AD		G2.5 @20,000 RPM
OM31050	BT40 ER25	70	AD	ER25 Castellated (OM31421)	G2.5 @20,000 RPM
OM34005		70	AD/B		G2.5 @25,000 RPM
OM31046		100	AD		G2.5 @20,000 RPM
OM31646		100	AD/B		G2.5 @25,000 RPM
OM34007		120	AD		G2.5 @20,000 RPM
OM31047		150	AD		G2.5 @20,000 RPM
OM31048		160	AD		G2.5 @20,000 RPM
OM31647		160	AD/B		G2.5 @25,000 RPM
OM31343		200	AD		G2.5 @20,000 RPM
OM31648		200	AD/B		G2.5 @25,000 RPM
OM31056	BT40 ER32	70	AD	ER32 Castellated (OM31422)	G2.5 @20,000 RPM
OM34004		70	AD/B		G2.5 @25,000 RPM
OM31051		100	AD		G2.5 @20,000 RPM
OM31536		100	AD/B		G2.5 @25,000 RPM
OM31052		120	AD		G2.5 @20,000 RPM
OM34006		120	AD/B		G2.5 @25,000 RPM
OM31053		150	AD		G2.5 @20,000 RPM
OM31054		160	AD		G2.5 @20,000 RPM
OM31537		160	AD/B		G2.5 @25,000 RPM
OM31344		200	AD		G6.3 @15,000 RPM
OM31345	250	AD	G6.3 @15,000 RPM		
OM31346	300	AD	G6.3 @15,000 RPM		
OM31059	BT40 ER40	80	AD	ER40 Castellated (OM31423)	G2.5 @20,000 RPM
OM31649		80	AD/B		G2.5 @25,000 RPM
OM31057		100	AD		G2.5 @20,000 RPM
OM31650		100	AD/B		G2.5 @25,000 RPM
OM31058		150	AD		G6.3 @15,000 RPM
OM31952		160	AD/B		G2.5 @25,000 RPM
OM31060	BT40 ER50	100	AD	ER50 Castellated (OM31424)	G2.5 @20,000 RPM

BT1 (MAS403)

ER COLLET CHUCKS

BT50

- BT MAS403 (JIS 6339)
- Standard Nut Collet Chucks
- ER Collet System
- Wide range of gauge lengths available
- ER Collets - Pg. 172
- Spares - Pg. 232



BT (MAS403)

Part Number	Description	Gauge Length (mm)	Form	Nut	Balance
OM31115	BT50 ER16	70	AD	ER16 Hexagon (OM31426)	G6.3 @15,000 RPM
OM31777		80	AD/B		G2.5 @25,000 RPM
OM31347		100	AD		G6.3 @15,000 RPM
OM31778		100	AD/B		G2.5 @25,000 RPM
OM31779		160	AD/B		G2.5 @25,000 RPM
OM31780		200	AD/B		G2.5 @25,000 RPM
OM31121	BT50 ER25	80	AD	ER25 Castellated (OM31421)	G6.3 @15,000 RPM
OM31781		80	AD/B		G2.5 @25,000 RPM
OM31116		100	AD		G6.3 @15,000 RPM
OM31782		100	AD/B		G2.5 @25,000 RPM
OM31119		160	AD		G6.3 @15,000 RPM
OM31783		160	AD/B		G2.5 @25,000 RPM
OM31784		200	AD/B		G2.5 @25,000 RPM
OM31785	250	AD/B	G2.5 @25,000 RPM		
OM31127	BT50 ER32	70	AD	ER32 Castellated (OM31422)	G6.3 @15,000 RPM
OM31128		80	AD		G6.3 @15,000 RPM
OM31786		80	AD/B		G2.5 @25,000 RPM
OM31122		100	AD		G6.3 @15,000 RPM
OM31787		100	AD/B		G2.5 @25,000 RPM
OM31123		150	AD		G6.3 @15,000 RPM
OM31124		160	AD		G6.3 @15,000 RPM
OM31788		160	AD/B		G2.5 @25,000 RPM
OM31125		200	AD		G6.3 @15,000 RPM
OM31789		200	AD/B		G2.5 @25,000 RPM
OM31126		250	AD		G6.3 @15,000 RPM
OM31790		250	AD/B		G2.5 @25,000 RPM
OM31132	BT50 ER40	80	AD	ER40 Castellated (OM31423)	G6.3 @15,000 RPM
OM31791		80	AD/B		G2.5 @25,000 RPM
OM31348		100	AD		G6.3 @15,000 RPM
OM31792		100	AD/B		G2.5 @25,000 RPM
OM31130		160	AD		G6.3 @15,000 RPM
OM31793		160	AD/B		G2.5 @25,000 RPM
OM31794	200	AD/B	G2.5 @25,000 RPM		
OM31133	BT50 ER50	100	AD	ER50 Castellated (OM31424)	G6.3 @15,000 RPM
OM31795		100	AD/B		G2.5 @25,000 RPM

OZ COLLET CHUCKS

BT40

- BT MAS403 (JIS 6339)
- OZ Collet System (DIN6388)
- Balanced G6.3 @ 15,000 RPM
- OZ Collets - Pg. 199
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Form
OM31572	BT40 OZ 25 70	70	AD
OM31573	BT40 OZ 32 80	80	AD

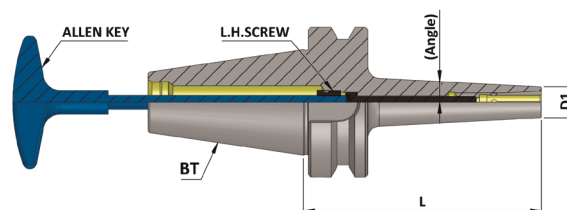


BT (MAS403)

DMC COLLET CHUCKS

BT30, BT40 & BT50

- BT MAS403 (JIS 6339)
- Drawback Collet Style
- Ultra Precision DMC Slim Collet Chucks
- High Accuracy <0.005mm
- Balanced to G2.5 @ 25,000 RPM
- DMC Collets - Pg. 202
- Hex Keys - Pg. 235



Part Number	Description	Dimensions (mm)			Angle	Collet	Screw	Allen Key
		Clamping Range	D1	L				
OM32290	BT30 DMC 06	3-6	13	90	3°	DMC 06	M5	4X200

OM32291	BT40 DMC 06	3-6	13	60	3°	DMC 06	M5	4X200
OM32292		3-6	13	90	3°	DMC 06	M5	4X200
OM32293		3-6	13	120	3°	DMC 06	M5	4X200
OM32294		3-6	13	160	3°	DMC 06	M5	4X200
OM32295	BT40 DMC 08	3-8	22	90	3°	DMC 08	M6	5X200
OM32296		3-8	22	120	3°	DMC 08	M6	5X200
OM32297	BT40 DMC 10	4-10	28	90	3°	DMC 10	M8	6X200
OM32298		4-10	28	120	3°	DMC 10	M8	6X200

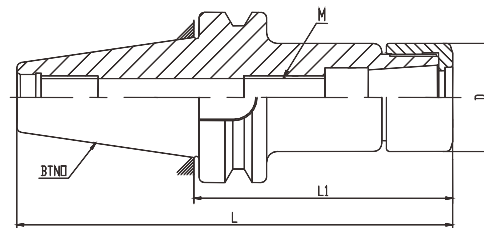
OM32325	BT50 DMC 10	4-10	28	150	3°	DMC 10	M8	6X200
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GSK COLLET CHUCKS

BT30 & BT40

- BT MAS403 (JIS 6339)
- High Accuracy GSK Collet Chucks
- Excellent for use in high speed cutting and precise milling
- Balanced to G2.5 25,000 RPM
- GSK Collets - Pg. 200
- Spares - Pg. 232



Part Number	Description	Dimensions (mm)		
		Gauge Length L1	D	M
OM30400	BT30 GSK 06	60	19.5	M8 x 1
OM30401		90		
OM30402		120		
OM30403		150		
OM30404	BT30 GSK 10	60	27	M11 x 1
OM30405		90		
OM30406	BT30 GSK 16	60	40	M18 x 1.5
OM30407		90		
OM30408	BT30 GSK 25	75	55	M28 x 1.5



OM30415	BT40 GSK 06	60	19.5	M8 x 1
OM30409		90		
OM30475		120		
OM30410		150		
OM30411	BT40 GSK 10	60	27	M11 x 1
OM30412		90		
OM30413		120		
OM30414		150		
OM30416	BT40 GSK 16	60	40	M18 x 1.5
OM30417		90		
OM30418		120		
OM30419		150		
OM30420		200		
OM30421	BT40 GSK 25	90	55	M28 x 1.5
OM30422		120		
OM30423		150		

HYDRAULIC EXPANSION CHUCKS

BT30, BT40 & BT50

- BT MAS403 (JIS 6339)
- Ultra Precision Hydraulic Chucks
- High Accuracy <0.005mm
- Balanced to G2.5 @ 25,000 RPM
- Spares - Pg. 232
- Reduction Sleeves -Pg. 203

Figure 1

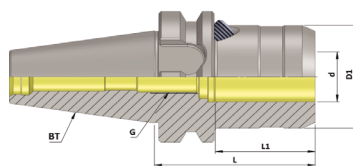
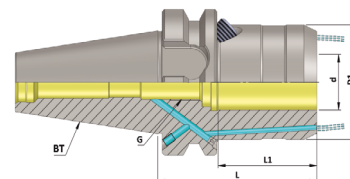


Figure 2



Part Number	Description	Dimensions (mm)					Form	Fig.
		d	D1	G	L	L1		
OM32103	BT30 HC12S	12	42	M10	69	40	AD	Fig. 1
OM32149		12	42	M10	69	40	AD/B + Cool	Fig. 2
OM32104	BT30 HC20S	20	50	M16	90	42	AD	Fig. 1
OM32150		20	50	M16	90	42	AD/B + Cool	Fig. 2

OM32105	BT40 HC12S	12	42	M10	58	40	AD	Fig. 1
OM32151		12	42	M10	58	40	AD/B + Cool	Fig. 2
OM32106	BT40 HC20S	20	50	M16	72.5	42	AD	Fig. 1
OM32152		20	50	M16	72.5	42	AD/B + Cool	Fig. 2

OM32107	BT50 HC12S	12	42	M10	69	40	AD	Fig. 1
OM32153		12	42	M10	69	40	AD/B + Cool	Fig. 2
OM32108	BT50 HC20S	20	50	M16	83	42	AD	Fig. 1
OM32154		20	50	M16	83	42	AD/B + Cool	Fig. 2
OM32109	BT50 HC32S	32	72	M16	90	55	AD	Fig. 1
OM32155		32	72	M16	90	55	AD/B + Cool	Fig. 2



BT (MAS403)

HYDRAULIC CHUCK KIT



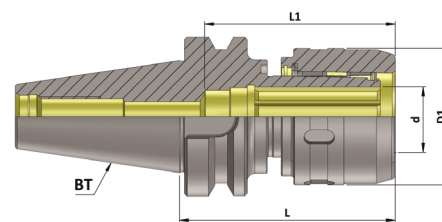
Part Number	Description
OM36183	BT40 HC20 Kit BT40 20mm Chuck + 5 Collets: 6, 8, 10, 12, & 16mm Collets



PREMIUM POWER MILLING CHUCKS

BT40 & BT50

- BT MAS403 (JIS 6339)
- High Accuracy <0.005mm
- Power Milling Chucks are subjected to sub-zero treatment (-90° C). This helps prevent any deformation, increasing tool life
- Balanced G6.3 @ 15,000 RPM
- Straight Collets - Pg. 203
- Spares - Pg. 232



Part Number	Description	Dimensions (mm)			
		d	D1	L	L1
OM30797	BT40 UPMC 20	20	54	80	70
OM30798	BT40 UPMC 32	32	72	90	100

OM30799	BT50 UPMC 20	20	54	105	70
OM30915	BT50 UPMC 32	32	72	105	100



STANDARD POWER MILLING CHUCKS

BT40 & BT50

- BT MAS403 (JIS 6339)
- Balanced G6.3 @ 12,000 RPM
- Economy chuck for general engineering applications
- Straight Collets - Pg. 202
- Spares - Pg. 232



Part Number	Description	Clamping Size (mm)	Gauge Length (mm)
OM31077	BT40 SC20	20	80
OM31349	BT40 SC25	25	100
OM31350	BT40 SC32	32	105

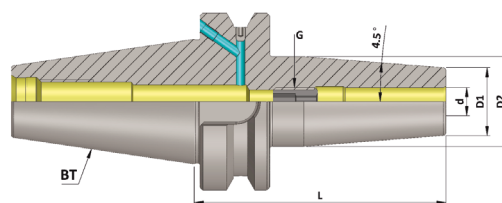
OM31632	BT50 SC25	25	110
OM31633	BT50 SC32	32	115



SHRINK FIT CHUCKS

BT40

- BT MAS403 (JIS 6339)
- Superior Clamping Strength & Rigidity
- Form AD/B
- 4.5 Degree
- Balanced G2.5 @ 25,000 RPM



Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM30871	BT40 SF03	3mm	10	20	-	90
OM30872			10	20	-	120
OM30873			10	20	-	160
OM30800	BT40 SF04	4mm	15	22	-	90
OM30874			15	22	-	120
OM30875			15	22	-	160
OM30876	BT40 SF05	5mm	15	22	-	90
OM30877			15	22	-	120
OM30878			15	22	-	160
OM30801	BT40 SF06	6mm	21	27	M5	90
OM30802			21	27	M5	120
OM30803			21	27	M5	160
OM34291			21	27	M5	200
OM30804	BT40 SF08	8mm	21	27	M6	90
OM30805			21	27	M6	120
OM30806			21	27	M6	160
OM34292			21	27	M6	200
OM30807	BT40 SF10	10mm	24	31	M8	90
OM30808			24	31	M8	120
OM30809			24	31	M8	160
OM34293			24	31	M8	200
OM30810	BT40 SF12	12mm	24	31	M10	90
OM30811			24	31	M10	120
OM30812			24	31	M10	160
OM34294			24	31	M10	200
OM30879	BT40 SF14	14mm	27	34	M10	90
OM30880			27	34	M10	120
OM30881			27	34	M10	160
OM30813	BT40 SF16	16mm	27	34	M12	90
OM30814			27	34	M12	120
OM30815			27	34	M12	160
OM34296			27	34	M12	200
OM30882	BT40 SF18	18mm	33	40	M12	90
OM30883			33	40	M12	120
OM30884			33	40	M12	160
OM30816	BT40 SF20	20mm	33	40	M16	90
OM30817			33	40	M16	120
OM30818			33	40	M16	160
OM34298			33	40	M16	200
OM30819	BT40 SF25	25mm	44	53	M16	100
OM30820			44	53	M16	120
OM30821			44	53	M16	160
OM30822	BT40 SF32	32mm	44	53	M16	100
OM30885			44	53	M16	120
OM30823			44	53	M16	160

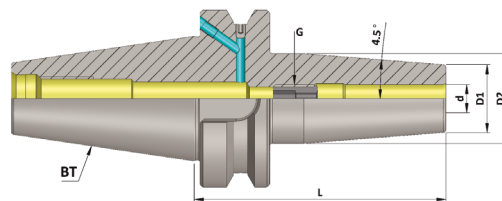


BT (MAS403)

SHRINK FIT CHUCKS **NEW**

BT50

- BT MAS403 (JIS 6339)
- Superior Clamping Strength & Rigidity
- Form AD/B
- 4.5 Degree
- Balanced G2.5 @ 25,000 RPM



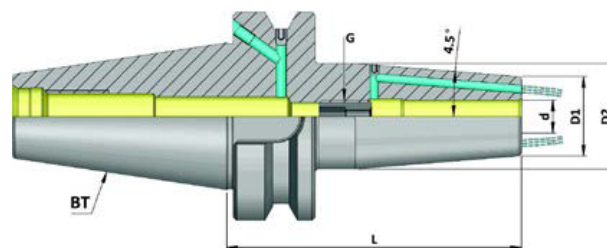
Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM33700	BT50 SF03	3mm	10	20	-	100
OM33701			10	20	-	120
OM33702			10	20	-	160
OM33703	BT50 SF04	4mm	15	22	-	100
OM33704			15	22	-	120
OM33705			15	22	-	160
OM33706	BT50 SF05	5mm	15	22	-	100
OM33707			15	22	-	120
OM33708			15	22	-	160
OM33709	BT50 SF06	6mm	21	27	M5	100
OM33710			21	27	M5	120
OM33711			21	27	M5	160
OM33712	BT50 SF08	8mm	21	27	M6	100
OM33713			21	27	M6	120
OM33714			21	27	M6	160
OM33715	BT50 SF10	10mm	24	31	M8	100
OM33716			24	31	M8	120
OM33717			24	31	M8	160
OM33718	BT50 SF12	12mm	24	31	M10	100
OM33719			24	31	M10	120
OM33720			24	31	M10	160
OM33721	BT50 SF14	14mm	27	34	M10	100
OM33722			27	34	M10	120
OM33723			27	34	M10	160
OM33724	BT50 SF16	16mm	27	34	M12	100
OM33725			27	34	M12	120
OM33726			27	34	M12	160
OM33727	BT50 SF18	18mm	33	40	M12	100
OM33728			33	40	M12	120
OM33729			33	40	M12	160
OM33730	BT50 SF20	20mm	33	40	M16	100
OM33731			33	40	M16	120
OM33732			33	40	M16	160
OM33733	BT50 SF25	25mm	44	53	M16	110
OM33734			44	53	M16	120
OM33735			44	53	M16	160
OM33736	BT50 SF32	32mm	44	53	M16	110
OM33737			44	53	M16	120
OM33738			44	53	M16	160

BT (MAS403)

SHRINK FIT CHUCKS WITH FRONT FACE COOLANT **NEW**

BT40

- BT MAS403 (JIS 6339)
- Superior Clamping Strength & Rigidity
- Form AD/B + Front Coolant Channels
- 4.5 Degree
- Balanced G2.5 @ 25,000 RPM



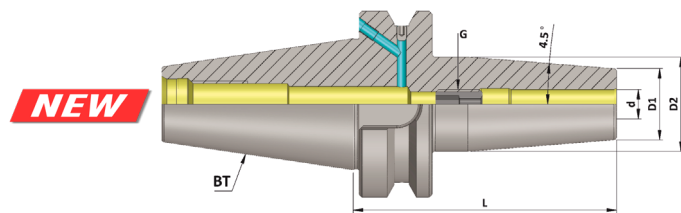
Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM36711	BT40 SF03 FCC	3mm	10	20	-	90
OM36712			10	20	-	120
OM36713			10	20	-	160
OM36714	BT40 SF04 FCC	4mm	15	22	-	90
OM36715			15	22	-	120
OM36716			15	22	-	160
OM36717	BT40 SF05 FCC	5mm	15	22	-	90
OM36718			15	22	-	120
OM36719			15	22	-	160
OM36720	BT40 SF06 FCC	6mm	21	27	M5	90
OM36721			21	27	M5	120
OM36722			21	27	M5	160
OM36723	BT40 SF08 FCC	8mm	21	27	M6	90
OM36724			21	27	M6	120
OM36725			21	27	M6	160
OM36726	BT40 SF10 FCC	10mm	24	31	M8	90
OM36727			24	31	M8	120
OM36728			24	31	M8	160
OM36729	BT40 SF12 FCC	12mm	24	31	M10	90
OM36730			24	31	M10	120
OM36731			24	31	M10	160
OM36732	BT40 SF14 FCC	14mm	27	34	M10	90
OM36733			27	34	M10	120
OM36734			27	34	M10	160
OM36735	BT40 SF16 FCC	16mm	27	34	M12	90
OM36736			27	34	M12	120
OM36737			27	34	M12	160
OM36738	BT40 SF18 FCC	18mm	33	40	M12	90
OM36739			33	40	M12	120
OM36740			33	40	M12	160
OM36741	BT40 SF20 FCC	20mm	33	40	M16	90
OM36742			33	40	M16	120
OM36743			33	40	M16	160
OM36744	BT40 SF25 FCC	25mm	44	53	M16	100
OM36745			44	53	M16	120
OM36746			44	53	M16	160
OM36747	BT40 SF32 FCC	32mm	44	53	M16	100
OM36748			44	53	M16	120
OM36749			44	53	M16	160



BT (MAS403)

SLIM SHRINK FIT CHUCKS

BT40



- BT MAS403 (JIS 6339)
- Superior Clamping Strength & Rigidity
- Form AD/B
- 3 Degree
- Balanced G2.5 @ 25,000 RPM



Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM36811	BT40 SF03 SLIM	3mm	9	15	-	90
OM36812			9	18	-	120
OM36813	BT40 SF04 SLIM	4mm	10	16	-	90
OM36814			10	19	-	120
OM36815	BT40 SF05 SLIM	5mm	11	17	-	90
OM36816			11	20	-	120
OM36817	BT40 SF06 SLIM	6mm	12	18	M5	90
OM36818			12	21	M5	120
OM36819			12	25	M5	160
OM36820	BT40 SF08 SLIM	8mm	14	20	M6	90
OM36821			14	23	M6	120
OM36822			14	27	M6	160
OM36823	BT40 SF10 SLIM	10mm	16	22	M8	90
OM36824			16	25	M8	120
OM36825			16	29	M8	160
OM36826	BT40 SF12 SLIM	12mm	18	24	M10	90
OM36827			18	27	M10	120
OM36828			18	31	M10	160
OM36829	BT40 SF14 SLIM	14mm	20	26	M10	90
OM36830			20	29	M10	120
OM36831			20	32	M10	160
OM36832	BT40 SF16 SLIM	16mm	22	28	M12	90
OM36833			22	31	M12	120
OM36834			22	34	M12	160
OM36835	BT40 SF18 SLIM	18mm	24	30	M12	90
OM36836			24	33	M12	120
OM36837			24	36	M12	160
OM36838	BT40 SF20 SLIM	20mm	26	32	M16	90
OM36839			26	35	M16	120
OM36840			26	38	M16	160

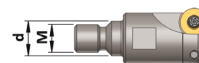
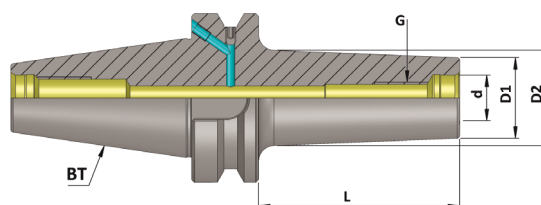


BT (MAS403)

MILLING CUTTER ARBORS

BT40 & BT50

- BT MAS403 (JIS 6339)
- Arbors for Screw Type Modular Milling Cutters
- Balanced to G2.5 @ 25,000RPM
- MCAP=Parallel



SCREW-TYPE
MODULAR MILLING CUTTER

Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM30916	BT40 MCA 06	6.5	10	13	M6	25
OM30917		6.5	10	20		50
OM30918		6.5	10	23		75
OM30919	BT40 MCA 08	8.5	13	15	M8	25
OM30920		8.5	13	23		50
OM30921		8.5	13	23		75
OM30922		8.5	13	25		100
OM30923	BT40 MCA 10	10.5	18	20	M10	25
OM30924		10.5	18	23		50
OM30925		10.5	18	28		75
OM30926		10.5	18	32		100
OM30927	BT40 MCA 12	12.5	21	24	M12	25
OM30928		12.5	21	24		50
OM30929		12.5	21	31		75
OM30930		12.5	21	33		100
OM30931		12.5	21	36		125
OM30932		BT40 MCA 16	17	29		29
OM30933	17		29	34	50	
OM30934	17		29	34	75	
OM30935	17		29	36	100	
OM30936	17		29	40	125	

OM30938	BT50 MCA 08	8.5	13	23	M8	50
OM30939		8.5	13	25		100
OM30940		8.5	13	30		150
OM30941	BT50 MCA 10	10.5	18	23	M10	50
OM30942		10.5	18	32		100
OM30943		10.5	18	36.5		150
OM30944	BT50 MCA 12	12.5	21	24	M12	50
OM30945		12.5	21	33		100
OM30946		12.5	21	40		150
OM30947	BT50 MCA 16	17	29	34	M16	50
OM30948		17	29	36		100
OM30949		17	29	42.5		150

Parallel Milling Cutter Arbors

OM34702	BT40 MCAP 08	8.5	13.8	13.8	M8	50
OM34705	BT40 MCAP 10	10.5	18	18	M10	50
OM34706		10.5	18	18		75
OM34707		10.5	18	18		100
OM34709	BT40 MCAP 12	12.5	21	21	M12	50
OM34710		12.5	21	21		75
OM34711		12.5	21	21		100
OM34713	BT40 MCAP 16	17	29	29	M16	50
OM34714		17	29	29		75
OM34715		17	29	29		100



BT (MAS403)

71

END MILL HOLDERS

BT30

- BT MAS403 (JIS 6339)
- For mounting straight shank tools with weldon flat
- Spare Clamp Screws - Pg. 236



Part Number	Description	Bore Size	Gauge Length (mm)	Form	Balance
OM31017	BT30 S/L 06	6mm	50	AD	G2.5 @20,000 RPM
OM31018	BT30 S/L 08	8mm	50	AD	G2.5 @20,000 RPM
OM31019	BT30 S/L 10	10mm	50	AD	G2.5 @20,000 RPM
OM31020	BT30 S/L 12	12mm	63	AD	G2.5 @20,000 RPM
OM31021	BT30 S/L 16	16mm	63	AD	G2.5 @20,000 RPM
OM31022	BT30 S/L 20	20mm	63	AD	G2.5 @20,000 RPM



BT (MAS403)

END MILL HOLDERS

BT40

- BT MAS403 (JIS 6339)
- For mounting straight shank tools with weldon flat
- Wide range of gauge lengths available
- Spare Clamp Screws - Pg. 236



Part Number	Description	Bore Size	Gauge Length (mm)	Form	Balance
OM31078	BT40 S/L 06	6mm	50	AD	G2.5 @20,000 RPM
OM31651			50	AD/B	G2.5 @25,000 RPM
OM31079			100	AD	G2.5 @20,000 RPM
OM31652			100	AD/B	G2.5 @25,000 RPM
OM31653			160	AD/B	G2.5 @25,000 RPM
OM36200			200	AD	G6.3 @15,000 RPM
OM31080	BT40 S/L 08	8mm	50	AD	G2.5 @20,000 RPM
OM31655			50	AD/B	G2.5 @25,000 RPM
OM31081			100	AD	G2.5 @20,000 RPM
OM31656			100	AD/B	G2.5 @25,000 RPM
OM31657			160	AD/B	G2.5 @25,000 RPM
OM36201			200	AD	G6.3 @15,000 RPM
OM31082	BT40 S/L 10	10mm	63	AD	G2.5 @20,000 RPM
OM31659			63	AD/B	G2.5 @25,000 RPM
OM31660			100	AD/B	G2.5 @25,000 RPM
OM31661			160	AD/B	G2.5 @25,000 RPM
OM36202			200	AD	G6.3 @15,000 RPM



END MILL HOLDERS

BT40



Part Number	Description	Bore Size	Gauge Length (mm)	Form	Balance
OM31084	BT40 S/L 12	12mm	63	AD	G2.5 @20,000 RPM
OM31663			63	AD/B	G2.5 @25,000 RPM
OM31085			100	AD	G2.5 @20,000 RPM
OM31664			100	AD/B	G2.5 @25,000 RPM
OM31665			160	AD/B	G2.5 @25,000 RPM
OM36203			200	AD	G6.3 @15,000 RPM
OM31553	BT40 S/L 14	14mm	63	AD	G2.5 @20,000 RPM
OM31559			100	AD	G2.5 @20,000 RPM
OM31351	BT40 S/L 16	16mm	35	AD	G2.5 @20,000 RPM
OM31086			63	AD	G2.5 @20,000 RPM
OM31539			63	AD/B	G2.5 @25,000 RPM
OM31087			100	AD	G2.5 @20,000 RPM
OM31667			100	AD/B	G2.5 @25,000 RPM
OM30197			160	AD	G2.5 @20,000 RPM
OM31668			160	AD/B	G2.5 @25,000 RPM
OM30198			200	AD	G2.5 @20,000 RPM
OM31088	BT40 S/L 18	18mm	63	AD	G2.5 @20,000 RPM
OM30199			100	AD	G2.5 @20,000 RPM
OM30254			160	AD	G2.5 @20,000 RPM
OM31352	BT40 S/L 20	20mm	35	AD	G2.5 @20,000 RPM
OM31090			63	AD	G2.5 @20,000 RPM
OM31541			63	AD/B	G2.5 @25,000 RPM
OM31089			100	AD	G2.5 @20,000 RPM
OM31670			100	AD/B	G2.5 @25,000 RPM
OM30255			160	AD	G2.5 @20,000 RPM
OM31671			160	AD/B	G2.5 @25,000 RPM
OM30256			200	AD	G2.5 @20,000 RPM
OM31353	BT40 S/L 25	25mm	35	AD	G2.5 @20,000 RPM
OM31093			70	AD	G2.5 @20,000 RPM
OM31673			70	AD/B	G2.5 @25,000 RPM
OM31094			90	AD	G2.5 @20,000 RPM
OM31549			100	AD	G2.5 @20,000 RPM
OM31674			100	AD/B	G2.5 @25,000 RPM
OM31675			160	AD/B	G2.5 @25,000 RPM
OM30781			200	AD	G2.5 @20,000 RPM
OM31354	BT40 S/L 32	32mm	65	AD	G2.5 @20,000 RPM
OM31095			100	AD	G2.5 @20,000 RPM
OM31677			100	AD/B	G2.5 @25,000 RPM
OM31678			160	AD/B	G2.5 @25,000 RPM
OM36204			200	AD	G6.3 @15,000 RPM
OM31096	BT40 S/L 40	40mm	120	AD	G2.5 @20,000 RPM



BT (MAS403)

END MILL HOLDERS

BT50

- BT MAS403 (JIS 6339)
- For mounting straight shank tools with weldon flat
- Wide range of gauge lengths available
- Spare Clamp Screws - Pg. 236



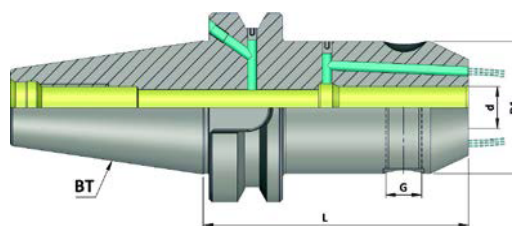
Part Number	Description	Bore Size	Gauge Length (mm)	Form	Balance
OM31153	BT50 S/L 06	6mm	63	AD	G6.3 @15,000 RPM
OM31796			63	AD/B	G2.5 @25,000 RPM
OM31797			100	AD/B	G2.5 @25,000 RPM
OM31798			160	AD/B	G2.5 @25,000 RPM
OM31154	BT50 S/L 08	8mm	63	AD	G6.3 @15,000 RPM
OM31800			63	AD/B	G2.5 @25,000 RPM
OM31801			100	AD/B	G2.5 @25,000 RPM
OM31802			160	AD/B	G2.5 @25,000 RPM
OM31156	BT50 S/L 10	10mm	63	AD	G6.3 @15,000 RPM
OM31804			63	AD/B	G2.5 @25,000 RPM
OM31805			100	AD/B	G2.5 @25,000 RPM
OM31806			160	AD/B	G2.5 @25,000 RPM
OM31157	BT50 S/L 12	12mm	80	AD	G6.3 @15,000 RPM
OM31808			80	AD/B	G2.5 @25,000 RPM
OM31809			100	AD/B	G2.5 @25,000 RPM
OM31810			160	AD/B	G2.5 @25,000 RPM
OM36208			200	AD	G6.3 @15,000 RPM
OM31159	BT50 S/L 16	16mm	80	AD	G6.3 @15,000 RPM
OM31812			80	AD/B	G2.5 @25,000 RPM
OM31813			100	AD/B	G2.5 @25,000 RPM
OM31814			160	AD/B	G2.5 @25,000 RPM
OM36209			200	AD	G6.3 @15,000 RPM
OM31160	BT50 S/L 20	20mm	80	AD	G6.3 @15,000 RPM
OM31816			80	AD/B	G2.5 @25,000 RPM
OM31817			100	AD/B	G2.5 @25,000 RPM
OM31818			160	AD/B	G2.5 @25,000 RPM
OM36210			200	AD	G6.3 @15,000 RPM
OM31162	BT50 S/L 25	25mm	100	AD	G6.3 @15,000 RPM
OM31820			100	AD/B	G2.5 @25,000 RPM
OM31821			160	AD/B	G2.5 @25,000 RPM
OM36211			200	AD	G6.3 @15,000 RPM
OM31164	BT50 S/L 32	32mm	100	AD	G6.3 @15,000 RPM
OM31823			100	AD/B	G2.5 @25,000 RPM
OM31824			160	AD/B	G2.5 @25,000 RPM
OM36212			200	AD	G6.3 @15,000 RPM
OM31167	BT50 S/L 40	40mm	110	AD	G6.3 @15,000 RPM
OM31826			110	AD/B	G2.5 @25,000 RPM
OM36213			160	AD	G6.3 @15,000 RPM
OM30187	BT50 S/L 50	50mm	120	AD	G6.3 @15,000 RPM



END MILL HOLDERS WITH COOLANT CHANNELS **NEW**

BT40 & BT50

- BT MAS403 (JIS 6339)
- For mounting straight shank tools with weldon flat
- With Front Face Coolant Channels
- Form AD/B
- Balanced G2.5 @25,000RPM
- Spare Clamp Screws - Pg. 236



Part Number	Description	"Bore Size (mm)"	D1	G	Gauge Length (L)
OM30757	BT40 S/L 06 50 AD/B FCC	6	25	M6	50
OM36233	BT40 S/L 06 100 AD/B FCC				100
OM36234	BT40 S/L 06 160 AD/B FCC				160
OM30758	BT40 S/L 08 50 AD/B FCC	8	28	M8	50
OM36235	BT40 S/L 08 100 AD/B FCC				100
OM36236	BT40 S/L 08 160 AD/B FCC				160
OM30759	BT40 S/L10 63 AD/B FCC	10	35	M10	63
OM36237	BT40 S/L 10 100 AD/B FCC				100
OM36238	BT40 S/L 10 160 AD/B FCC				160
OM30760	BT40 S/L 12 63 AD/B FCC	12	42	M12	63
OM36239	BT40 S/L 12 100 AD/B FCC				100
OM36240	BT40 S/L 12 160 AD/B FCC				160
OM36241	BT40 S/L 14 63 AD/B FCC	14	44	M12	63
OM36242	BT40 S/L 14 100 AD/B FCC				100
OM36243	BT40 S/L 14 160 AD/B FCC				160
OM30761	BT40 S/L 16 63 AD/B FCC	16	48	M14	63
OM36244	BT40 S/L 16 100 AD/B FCC				100
OM36245	BT40 S/L 16 160 AD/B FCC				160
OM36246	BT40 S/L 18 63 AD/B FCC	18	50	M14	63
OM36247	BT40 S/L 18 100 AD/B FCC				100
OM36248	BT40 S/L 18 160 AD/B FCC				160
OM30762	BT40 S/L 20 63 AD/B FCC	20	52	M16	63
OM36249	BT40 S/L 20 100 AD/B FCC				100
OM36250	BT40 S/L 20 160 AD/B FCC				160
OM36251	BT40 S/L 25 90 AD/B FCC	25	65	M18x2	90
OM36252	BT40 S/L 25 160 AD/B FCC				160
OM36253	BT40 S/L 32 100 AD/B FCC	32	72	M20x2	100
OM36254	BT40 S/L 32 160 AD/B FCC				160
OM36255	BT40 S/L 40 105 AD/B FCC	40	80	M20x2	105
OM36256	BT40 S/L 40 160 AD/B FCC				160

Part Number	Description	"Bore Size (mm)"	D1	G	Gauge Length (L)
OM36351	BT50 S/L 06 63 AD/B FCC	6	25	M6	63
OM36352	BT50 S/L 06 100 AD/B FCC				100
OM36353	BT50 S/L 06 160 AD/B FCC				160
OM36354	BT50 S/L 08 63 AD/B FCC	8	28	M8	63
OM36355	BT50 S/L 08 100 AD/B FCC				100
OM36356	BT50 S/L 08 160 AD/B FCC				160
OM36357	BT50 S/L 10 80 AD/B FCC	10	35	M10	80
OM36358	BT50 S/L 10 100 AD/B FCC				100
OM36359	BT50 S/L 10 160 AD/B FCC				160
OM36360	BT50 S/L 12 80 AD/B FCC	12	42	M12	80
OM36361	BT50 S/L 12 100 AD/B FCC				100
OM36362	BT50 S/L 12 160 AD/B FCC				160
OM36363	BT50 S/L 14 80 AD/B FCC	14	44	M12	80
OM36364	BT50 S/L 14 100 AD/B FCC				100
OM36365	BT50 S/L 14 160 AD/B FCC				160
OM36366	BT50 S/L 16 80 AD/B FCC	16	48	M14	80
OM36367	BT50 S/L 16 100 AD/B FCC				100
OM36368	BT50 S/L 16 160 AD/B FCC				160
OM36369	BT50 S/L 18 80 AD/B FCC	18	50	M14	80
OM36370	BT50 S/L 18 100 AD/B FCC				100
OM36371	BT50 S/L 18 160 AD/B FCC				160
OM36372	BT50 S/L 20 80 AD/B FCC	20	52	M16	80
OM36373	BT50 S/L 20 100 AD/B FCC				100
OM36374	BT50 S/L 20 160 AD/B FCC				160
OM36375	BT50 S/L 25 100 AD/B FCC	25	65	M18x2	100
OM36376	BT50 S/L 25 160 AD/B FCC				160
OM36377	BT50 S/L 32 105 AD/B FCC	32	72	M20x2	105
OM36378	BT50 S/L 32 160 AD/B FCC				160
OM36379	BT50 S/L 40 115 AD/B FCC	40	80	M20x2	115
OM36380	BT50 S/L 40 160 AD/B FCC				160
OM36381	BT50 S/L 50 125 AD/B FCC	50	100	M24x2	125

BT (MAS403)

STANDARD FACE MILL ARBORS

BT30, BT40 & BT50

- BT MAS403 (JIS 6339)
- Non Through Coolant
- For Mounting Face Mill Cutters



Part Number	Description	Spigot Size	Gauge Length (mm)	Balance
OM31979	BT30 FMB 16	16mm	40	G2.5 @20,000 RPM
OM31009	BT30 FMB 22	22mm	40	G2.5 @20,000 RPM
OM31011	BT30 FMB 27	27mm	45	G2.5 @20,000 RPM
OM31012	BT30 FMB 32	32mm	45	G2.5 @20,000 RPM

OM31063	BT40 FMB 16	16mm	45	G6.3 @15,000 RPM
OM31062			100	G6.3 @15,000 RPM
OM31355			160	G6.3 @15,000 RPM
OM30193			200	G6.3 @15,000 RPM
OM31065	BT40 FMB 22	22mm	45	G6.3 @15,000 RPM
OM31064			100	G6.3 @15,000 RPM
OM31356			160	G6.3 @15,000 RPM
OM31634			200	G6.3 @15,000 RPM
OM30194			250	G6.3 @15,000 RPM
OM30195			300	G6.3 @15,000 RPM
OM31067	BT40 FMB 27	27mm	45	G6.3 @15,000 RPM
OM31066			100	G6.3 @15,000 RPM
OM31357			160	G6.3 @15,000 RPM
OM30783			200	G6.3 @15,000 RPM
OM30784			250	G6.3 @15,000 RPM
OM30196			300	G6.3 @15,000 RPM
OM31068	BT40 FMB 32	32mm	45	G6.3 @15,000 RPM
OM31070	BT40 FMB 40	40mm	60	G6.3 @15,000 RPM

OM33687	BT50 FMB 22	22mm	60	G6.3 @15,000 RPM
OM31135			100	G6.3 @15,000 RPM
OM31136			150	G6.3 @15,000 RPM
OM31141	BT50 FMB 27	27mm	60	G6.3 @15,000 RPM
OM31138			100	G6.3 @15,000 RPM
OM31139			150	G6.3 @15,000 RPM
OM31144	BT50 FMB 32	32mm	60	G6.3 @15,000 RPM
OM31142			100	G6.3 @15,000 RPM
OM31146	BT50 FMB 40	40mm	60	G6.3 @15,000 RPM
OM31145			100	G6.3 @15,000 RPM



THROUGH COOLANT FACE MILL ARBORS

BT40 & BT50

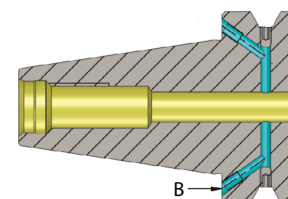
- BT MAS403 (JIS 6339)
- For Mounting Face Mill Cutters
- Wide range of gauge lengths available
- AD/B + Cool Holders allow for coolant through flange and through centre



Part Number	Description	Spigot Size	Gauge Length (mm)	Form	Balance
OM31680	BT40 FMB 16	16mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31681			100	AD/B + Cool	G2.5 @25,000 RPM
OM31682			160	AD/B + Cool	G2.5 @25,000 RPM
OM31684	BT40 FMB 22	22mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31685			100	AD/B + Cool	G2.5 @25,000 RPM
OM31686			160	AD/B + Cool	G2.5 @25,000 RPM
OM31687			200	AD/B + Cool	G6.3 @15,000 RPM
OM31688	BT40 FMB 27	27mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31689			100	AD/B + Cool	G2.5 @25,000 RPM
OM31690			160	AD/B + Cool	G2.5 @25,000 RPM
OM31692	BT40 FMB 32	32mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31693			100	AD/B + Cool	G2.5 @25,000 RPM
OM31694			160	AD/B + Cool	G2.5 @25,000 RPM
OM31695			200	AD/B + Cool	G6.3 @15,000 RPM
OM31696	BT40 FMB 40	40mm	60	AD/B + Cool	G2.5 @25,000 RPM
OM31697			100	AD/B + Cool	G2.5 @25,000 RPM
OM31698			160	AD/B + Cool	G6.3 @15,000 RPM

OM31829	BT50 FMB 16	16mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31830			100	AD/B + Cool	G2.5 @25,000 RPM
OM31831			160	AD/B + Cool	G2.5 @25,000 RPM
OM31832			200	AD/B + Cool	G2.5 @25,000 RPM
OM31836	BT50 FMB 22	22mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31837			100	AD/B + Cool	G2.5 @25,000 RPM
OM31838			160	AD/B + Cool	G2.5 @25,000 RPM
OM31839			200	AD/B + Cool	G2.5 @25,000 RPM
OM31843	BT50 FMB 27	27mm	50	AD/B + Cool	G2.5 @25,000 RPM
OM31844			100	AD/B + Cool	G2.5 @25,000 RPM
OM31845			160	AD/B + Cool	G2.5 @25,000 RPM
OM31846			200	AD/B + Cool	G2.5 @25,000 RPM
OM31850	BT50 FMB 32	32mm	50	AD/B + Cool	G2.5 @25,000 RPM
OM31851			100	AD/B + Cool	G2.5 @25,000 RPM
OM31852			160	AD/B + Cool	G2.5 @25,000 RPM
OM31853			200	AD/B + Cool	G6.3 @15,000 RPM
OM31857	BT50 FMB 40	40mm	60	AD/B + Cool	G2.5 @25,000 RPM
OM31858			100	AD/B + Cool	G2.5 @25,000 RPM
OM31859			160	AD/B + Cool	G6.3 @15,000 RPM

Through Spindle Coolant & Through Flange Coolant

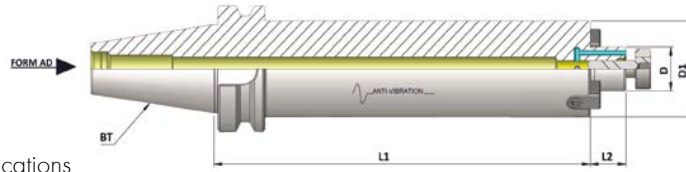


BT (MAS403)

ANTI-VIBRATION FACE MILL ARBORS **NEW**

BT40 & BT50

- BT MAS403 (JIS 6339)
- For Mounting Face Mill Cutters
- Form AD - Through Spindle Coolant
- Damped tool holders for long reach applications



Part Number	Description	Spigot Size (D)	D1	Gauge Length (L1)	L2	Balance
OM33750	BT40 FMB AV 16	16mm	38	200	17	G6.3 @8,000 RPM
OM36453				250		G6.3 @8,000 RPM
OM33751				300		G6.3 @8,000 RPM
OM33752	BT40 FMB AV 22	22mm	48	200	19	G6.3 @8,000 RPM
OM36454				250		G6.3 @8,000 RPM
OM33753				300		G6.3 @8,000 RPM
OM33754	BT40 FMB AV 27	27mm	58	200	21	G6.3 @8,000 RPM
OM36455				250		G6.3 @8,000 RPM
OM36456				300		G6.3 @8,000 RPM

OM33755	BT50 FMB AV 16	16mm	38	200	17	G6.3 @8,000 RPM
OM36457				250		G6.3 @8,000 RPM
OM33756				300		G6.3 @8,000 RPM
OM36458				350		G6.3 @8,000 RPM
OM33757				400		G6.3 @8,000 RPM
OM33758	BT50 FMB AV 22	22mm	48	200	19	G6.3 @8,000 RPM
OM36459				250		G6.3 @8,000 RPM
OM33759				300		G6.3 @8,000 RPM
OM36460				350		G6.3 @8,000 RPM
OM33760				400		G6.3 @8,000 RPM
OM33761	BT50 FMB AV 27	27mm	58	200	21	G6.3 @8,000 RPM
OM36461				250		G6.3 @8,000 RPM
OM33762				300		G6.3 @8,000 RPM
OM36462				350		G6.3 @8,000 RPM
OM33763				400		G6.3 @8,000 RPM
OM36463	BT50 FMB AV 32	32mm	78	200	24	G6.3 @8,000 RPM
OM36464				250		G6.3 @8,000 RPM
OM33764				300		G6.3 @8,000 RPM
OM36465				350		G6.3 @8,000 RPM
OM36466				400		G6.3 @8,000 RPM

COMBI SHELL MILL ARBORS

BT30, BT40 & BT50

- BT MAS403 (JIS 6339)
- For Mounting Face Mills & Side/Face Cutters
- G6.3 @ 15,000 RPM



Part Number	Description	Spigot Size	Gauge Length (mm)
OM31001	BT30 COMBI 16	16mm	55
OM31002	BT30 COMBI 22	22mm	55
OM31003	BT30 COMBI 27	27mm	55

OM31031	BT40 COMBI 16	16mm	55
OM31030			100
OM31033	BT40 COMBI 22	22mm	55
OM31032			100
OM31035	BT40 COMBI 27	27mm	55
OM31034			100
OM31036	BT40 COMBI 32	32mm	60
OM31037	BT40 COMBI 40	40mm	60

OM31104	BT50 COMBI 16	16mm	70
OM31105	BT50 COMBI 22	22mm	70
OM31527	BT50 COMBI 27	27mm	70
OM31110	BT50 COMBI 32	32mm	75
OM31113	BT50 COMBI 40	40mm	75



BT (MAS403)

MORSE TAPER ADAPTORS

BT30, BT40 & BT50

- BT MAS403 (JIS 6339)
- For Tools with Morse Taper Shank & Tang
- G2.5 @ 20,000 RPM



Part Number	Description	Gauge Length (mm)	Form	Balance
OM31014	BT30 MTA 1	45	AD	G2.5 @ 20,000 RPM
OM31015	BT30 MTA 2	60	AD	G2.5 @ 20,000 RPM
OM31016	BT30 MTA 3	75	AD	G2.5 @ 20,000 RPM

OM31073	BT40 MTA 1	50	AD	G2.5 @ 20,000 RPM
OM31074	BT40 MTA 2	50	AD	G2.5 @ 20,000 RPM
OM31075	BT40 MTA 3	70	AD	G2.5 @ 20,000 RPM
OM31076	BT40 MTA 4	95	AD	G2.5 @ 20,000 RPM

OM31148	BT50 MTA 1	45	AD	G6.3 @ 15,000 RPM
OM31149	BT50 MTA 2	50	AD	G6.3 @ 15,000 RPM
OM31150	BT50 MTA 3	65	AD	G6.3 @ 15,000 RPM
OM31151	BT50 MTA 4	95	AD	G6.3 @ 15,000 RPM
OM31152	BT50 MTA 5	105	AD	G6.3 @ 15,000 RPM



MORSE TAPER ADAPTORS WITH DRAWBAR THREAD

BT40

- BT MAS403 (JIS 6339)
- For Tools with Morse Taper & Drawbar Thread
- G6.3 @ 15,000 RPM
- Includes internal cap head bolt to retain tool



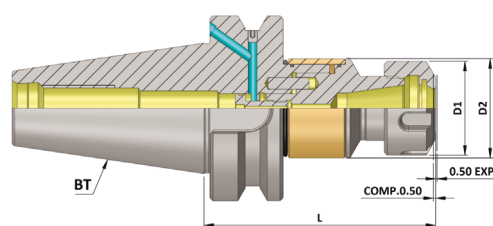
Part Number	Description	Gauge Length (mm)
OM30269	BT40 MTB 1	45
OM30270	BT40 MTB 2	60
OM30271	BT40 MTB 3	75
OM30272	BT40 MTB 4	100



SYNCHRO TAPPING CHUCKS

BT30, BT40 & BT50

- BT MAS403 (JIS 6339)
- Minimum Length Compensation Tapping Chucks
- +/-0.5mm Compression & Expansion
- High Concentricity Enables High Speed Tapping
- Recommended for use with QCTC Type Collets
- [QCTC Collets - Pg. 204](#)
- [Spares - Pg. 232](#)



Part Number	Description	Capacity	Clamping Range (mm)	Collet Nut	Form	Dimensions (mm)				
						D1	D2	L	Comp.	Exp.
OM32382	BT30 MLC ER16	M3-M12	1-10	ER16	AD	32	34	79	0.5	0.5
OM32383	BT30 MLC ER20	M3-M16	3.5-10	ER20	AD	35	34	80	0.5	0.5

OM32384	BT40 MLC ER16	M3-M12	1-10	ER16	AD/B	32	34	79	0.5	0.5
OM32385	BT40 MLC ER20	M3-M16	3.5-10	ER20	AD/B	35	34	85	0.5	0.5
OM32386	BT40 MLC ER25	M3-M20	3.5-16	ER25	AD/B	42	34	89	0.5	0.5
OM32418	BT40 MLC ER32	M4-M27	3.5-20	ER32	AD/B	50	45	110	0.5	0.5
OM32433	BT40 MLC ER40	M6-M33	6-26	ER40	AD/B	63	62	115	0.5	0.5

OM32434	BT50 MLC ER16	M3-M12	1-10	ER16	AD/B	32	34	95	0.5	0.5
OM32435	BT50 MLC ER20	M3-M16	3.5-10	ER20	AD/B	35	34	100	0.5	0.5
OM32436	BT50 MLC ER25	M3-M20	3.5-16	ER25	AD/B	42	34	110	0.5	0.5
OM32437	BT50 MLC ER32	M4-M27	3.5-20	ER32	AD/B	50	45	120	0.5	0.5
OM32438	BT50 MLC ER40	M6-M33	6-26	ER40	AD/B	63	62	120	0.5	0.5



BT (MAS403)

QUICK CHANGE TAPPING CHUCKS

BT40 & BT50

- BT MAS403 (JIS 6339)
- Axial Length Compensation
- With Tension & Compression
- Quick change tap adaptors available in 3 sizes
- [QC Tap Adaptors - Pg. 210](#)



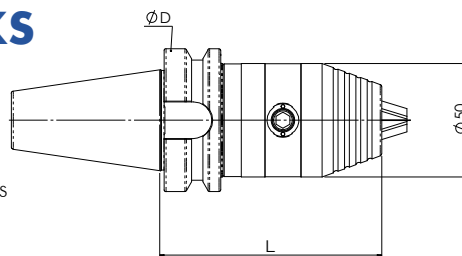
Part Number	Description	Gauge Length (mm)	Tapping Range
OM31097	BT40 Size 1 (TC312-65)	65	M3 - M12
OM31098	BT40 Size 2 (TC820-93)	93	M6 - M20
OM31385	BT40 Size 3 (TC1433-142)	142	M14 - M36

OM31386	BT50 Size 1 (TC312-100)	100	M3 - M12
OM31387	BT50 Size 2 (TC820-100)	100	M6 - M20
OM31388	BT50 Size 3 (TC1433-142)	142	M14 - M36



HEX KEY PREMIUM DRILL CHUCKS BT40 & BT50

- BT MAS403 (JIS 6339)
- Premium Drill Chuck
- Strong Clamping Force in both clockwise & anti-clockwise operations
- Increased wear-resistance with TIN Coated Jaws
- Spare Hex Key - Pg. 235

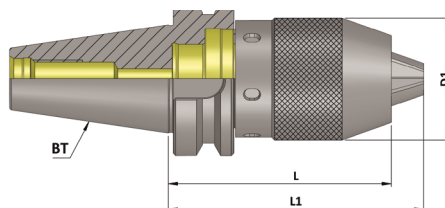


Part Number	Description	Dimensions (mm)		
		Capacity	L	D
OM33658	BT40 GHK 13 98	0.3-13	98	63
OM33659	BT40 GHK 16 103	1.5-16	103	63
OM33660	BT50 GHK 13 109	0.3-13	109	100
OM33661	BT50 GHK 16 114	1.5-16	114	100

BT (MAS403)

NCDC DRILL CHUCKS BT30, BT40 & BT50

- BT MAS403 (JIS 6339)
- High Accuracy Drill Chuck
- Maximum Rigidity
- NCDC Spanner - Pg. 235



Part Number	Description	Dimensions (mm)			
		Capacity	D1	L	L1
OM33652	BT30 NCDC 1-13mm	1-13mm	50	112.5	125
OM33653	BT40 NCDC 1-13mm	1-13mm	50	92.5	105
OM33654	BT50 NCDC 1-13mm	1-13mm	50	107.5	120

APU KEYLESS DRILL CHUCKS BT30, BT40 & BT50

- BT MAS403 (JIS 6339)
- Economy drill chuck for general engineering applications
- APU Spanner - Pg. 235



Part Number	Description	Gauge Length (mm)	Capacity
OM31000	BT30 APU13 1-13mm	110	1-13mm
OM31026	BT40 APU13 1-13mm	100	1-13mm
OM31028	BT40 APU16 3-16mm	120	3-16mm
OM31100	BT50 APU13 1-13mm	100	1-13mm
OM31101	BT50 APU16 3-16mm	120	3-16mm



DRILL CHUCK ADAPTORS BT30, BT40 & BT50

- BT MAS403 (JIS 6339)
- For Mounting Drill Chucks
- Drill Chucks - Pg. 222



Part Number	Description	Balance
OM31013	BT30 JT6	G6.3 @ 12,000 RPM
OM31532	BT30 B16	G6.3 @ 12,000 RPM
OM31072	BT40 JT6	G6.3 @ 12,000 RPM
OM31029	BT40 B16	G6.3 @ 12,000 RPM
OM31147	BT50 JT6	G6.3 @ 12,000 RPM
OM31533	BT50 B16	G6.3 @ 12,000 RPM



BT (MAS403)

TEST ARBORS BT30, BT40 & BT50

- BT MAS403 (JIS 6339)
- Master Mandrel
- Supplied with protective wooden case



Part Number	Description	Diameter (mm)	Gauge Length (mm)
OM33741	BT30 Test Arbor	32	250
OM33742	BT40 Test Arbor	40	300
OM33743	BT50 Test Arbor	50	350



MACHINABLE BORING BAR BLANK BT40 & BT50

- BT MAS403 (JIS 6339)
- Machinable Boring Bar Blank



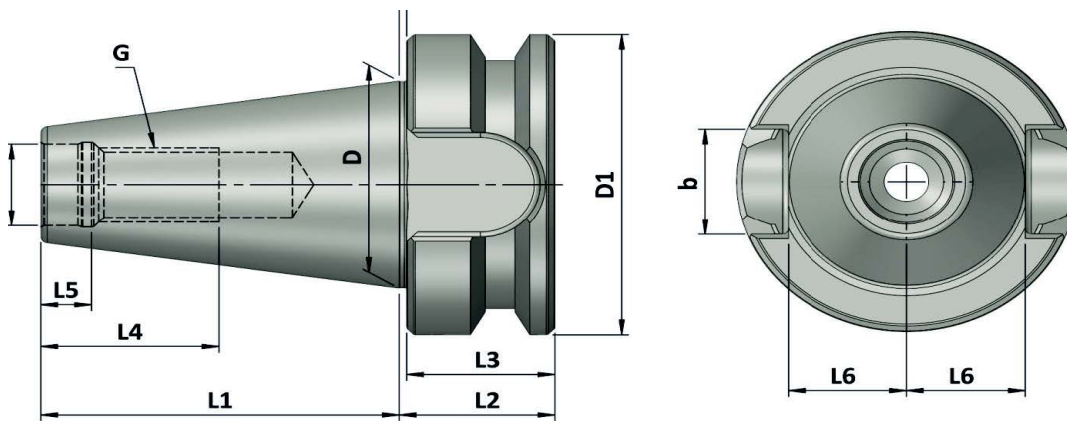
Part Number	Description	Diameter (mm)	Gauge Length (mm)
OM30291	BT40 BLANK 63 250	63	250
OM30292	BT50 BLANK 97 315	97	315



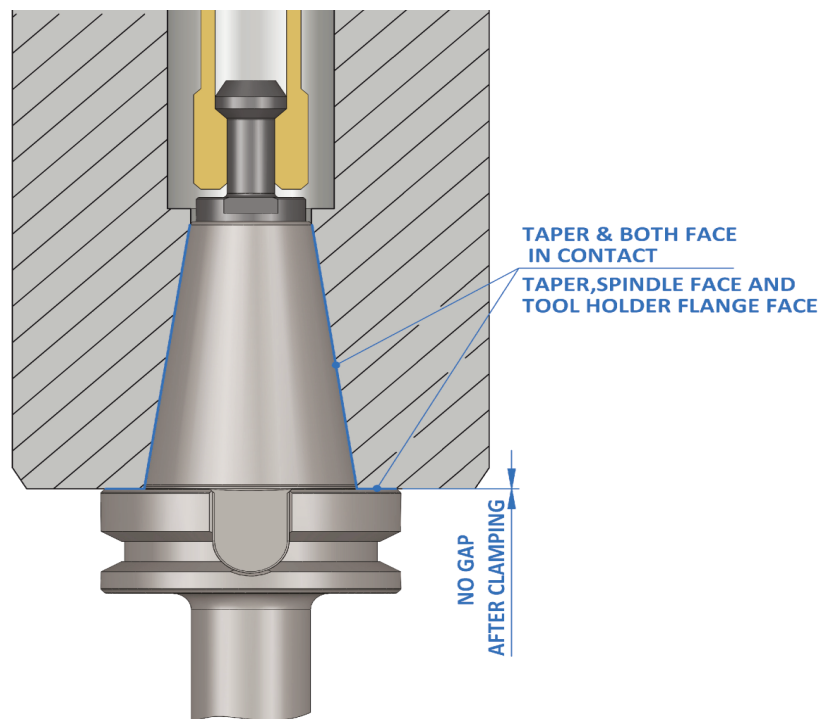
DCBT DUAL CONTACT HOLDERS **NEW**

DCBT TECHNICAL SPECIFICATION

- DCBT Face & Taper Contact Tool Holders would maintain greater rigidity than standard BT Tool Holders
- Achieves Higher 'Radial Rigidity'
- Manufactured with case hardened steel, core tensile strength min. 950 N/mm²
- Tolerance AT3



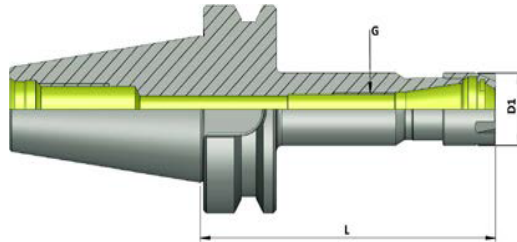
ISO	d	D	D1	α	b	G	L1	L2	L3	L4	L5	L6
30	12.5	31.75	46	1	16.1	M12	48.4	21	20	24	7.0	16.3
40	17	44.45	63	1	16.1	M16	65.4	27	26	32	9.0	22.6
50	25	69.85	100	1.5	25.7	M24	101.8	38	36.5	47	13.0	35.4



ER MINI NUT COLLET CHUCKS **NEW**

DCBT40

- BBT MAS403
- Face & Taper Contact
- MINI Nut ER Collet Chucks
- Form AD
- Balanced to G2.5 @ 25,000RPM
- ER Collets - Pg. 172
- Spares - Pg. 232



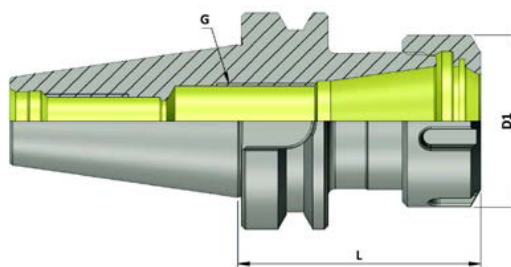
Part Number	Description	Collet	Dimensions (mm)			Nut
			D1	G	L	
OM34581	DCBT40 ER11 Mini	ER11	16	M6x1	70	ER11 Mini (OM31414)
OM34582		ER11	16	M6x1	100	
OM34583		ER11	16	M6x1	160	
OM34584	DCBT40 ER16 Mini	ER16	22	M10x1	70	ER16 Mini (OM31415)
OM34585		ER16	22	M10x1	100	
OM34587		ER16	22	M10x1	160	

DCBT

ER COLLET CHUCKS **NEW**

DCBT30, DCBT40 & DCBT50

- BBT MAS403
- Face & Taper Contact
- Standard Nut Collet Chucks
- Form AD
- Balanced to G2.5 @ 25,000RPM
- [ER Collets - Pg. 172](#)
- [Spares - Pg. 232](#)

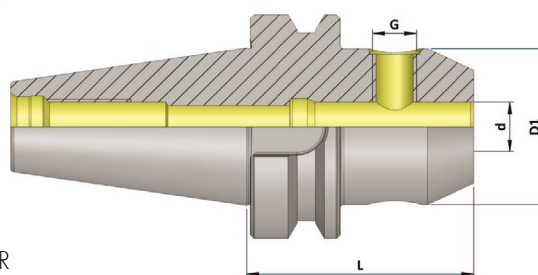


Part Number	Description	Collet	Dimensions (mm)			Nut
			D1	G	L	
OM34540	DCBT30 ER16	ER16	32	M10x1	60	ER16 Hexagon (OM31426)
OM34541		ER16	32	M10x1	100	
OM34544	DCBT30 ER25	ER25	42	M18x1	60	ER25 Castellated (OM31421)
OM34545		ER25	42	M18x1	100	
OM34546	DCBT30 ER32	ER32	50	M22x1.5	60	ER32 Castellated (OM31422)
OM34547		ER32	50	M22x1.5	100	
OM34549	DCBT40 ER16	ER16	32	M10x1	70	ER16 Hexagon (OM31426)
OM34550		ER16	32	M10x1	100	
OM34551		ER16	32	M10x1	160	
OM34555	DCBT40 ER25	ER25	42	M18x1	70	ER25 Castellated (OM31421)
OM34556		ER25	42	M18x1	100	
OM34557		ER25	42	M18x1	160	
OM34558	DCBT40 ER32	ER32	50	M22x1.5	70	ER32 Castellated (OM31422)
OM34559		ER32	50	M22x1.5	100	
OM34560		ER32	50	M22x1.5	160	
OM34561	DCBT40 ER40	ER40	63	M30x1.5	70	"ER40 Castellated (OM31423)"
OM34562		ER40	63	M30x1.5	100	
OM34570	DCBT50 ER25	ER25	42	M18x1	80	ER25 Castellated (OM31421)
OM34571		ER25	42	M18x1	100	
OM34572		ER25	42	M18x1	160	
OM34573	DCBT50 ER32	ER32	50	M22x1.5	80	ER32 Castellated (OM31422)
OM34574		ER32	50	M22x1.5	100	
OM34575		ER32	50	M22x1.5	160	
OM34576	DCBT50 ER40	ER40	63	M30x1.5	80	ER40 Castellated (OM31423)
OM34577		ER40	63	M30x1.5	100	
OM34578		ER40	63	M30x1.5	160	
OM34579	DCBT50 ER50	ER50	78	M16x2	100	"ER50 Castellated (OM31424)"
OM34562		ER40	63	M30x1.5	100	

END MILL HOLDERS **NEW**

DCBT30 & DCBT40

- BBT MAS403
- Face & Taper Contact
- Standard Nut Collet Chucks
- Form AD
- Balanced to G2.5 @ 25,000RPM
- For mounting straight shank tools with weldon flat ER
- Spare Clamp Screws - Pg. 236



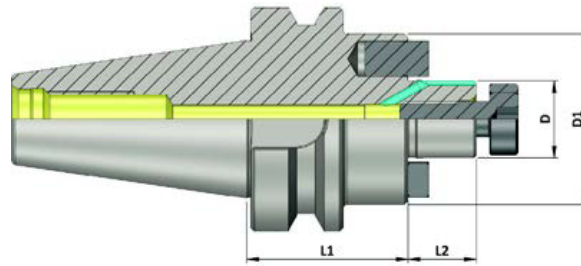
Part Number	Description	Dimensions (mm)			
		d	D1	G	L
OM34595	DCBT30 S/L 06	6	25	M6	50
OM34596	DCBT30 S/L 08	8	28	M8	50
OM34597	DCBT30 S/L 10	10	35	M10	50
OM34598	DCBT30 S/L 12	12	42	M12	55
OM34599	DCBT30 S/L 14	14	44	M12	55
OM34600	DCBT30 S/L 16	16	48	M14	63
OM34601	DCBT30 S/L 18	18	50	M14	63
OM34602	DCBT30 S/L 20	20	52	M16	70
OM34611	DCBT40 S/L 06	6	25	M6	50
OM34614	DCBT40 S/L 08	8	28	M8	50
OM34617	DCBT40 S/L 10	10	35	M10	63
OM34620	DCBT40 S/L 12	12	42	M12	63
OM34626	DCBT40 S/L 16	16	48	M14	63
OM34629	DCBT40 S/L 18	18	50	M14	63
OM34632	DCBT40 S/L 20	20	52	M16	63
OM34635	DCBT40 S/L 25	25	65	M18x2	90
OM34637	DCBT40 S/L 32	32	72	M20x2	100
OM34639	DCBT40 S/L 40	40	80	M20x2	105

DCBT

THROUGH COOLANT FACE MILL ARBORS **NEW**

DCBT30 & DCBT40

- BBT MAS403
- For Mounting Face Mill Cutters
- Balanced to G2.5 @ 25,000RPM
- DCBT30 - Non Through Coolant



Part Number	Description	Collet	Dimensions (mm)		
			D1	G	L
OM34811	DCBT30 FMB 16	16	38	35	17
OM34812	DCBT30 FMB 22	22	48	40	19
OM34813	DCBT30 FMB 27	27	58	40	21

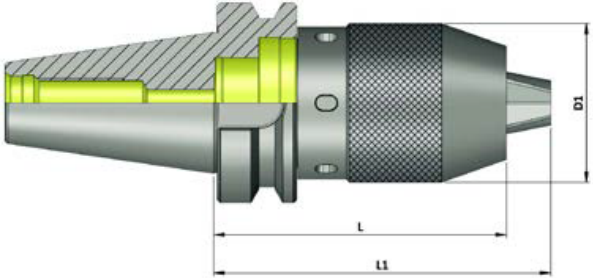
OM34844	DCBT40 FMB 16	16	38	45	17
OM34845		16	38	100	17
OM34846		16	38	160	17
OM34847	DCBT40 FMB 22	22	48	45	19
OM34848		22	48	100	19
OM34849		22	48	160	19
OM34850	DCBT40 FMB 27	27	58	45	21
OM34851		27	58	100	21
OM34852		27	58	160	21
OM34853	DCBT40 FMB 32	32	78	50	24
OM34856	DCBT40 FMB 40	40	88	55	27

DCBT

NCDC DRILL CHUCKS **NEW**

DCBT30 & DCBT40

- BBT MAS403
- High Accuracy Drill Chuck
- Maximum Rigidity
- NCDC Spanner - Pg. 235



Part Number	Description	Dimensions (mm)		
		D1	L	L1
OM34934	DCBT30 NCDC 1-13mm	50	112.5	125
OM34935	DCBT40 NCDC 1-13mm	50	92.5	105

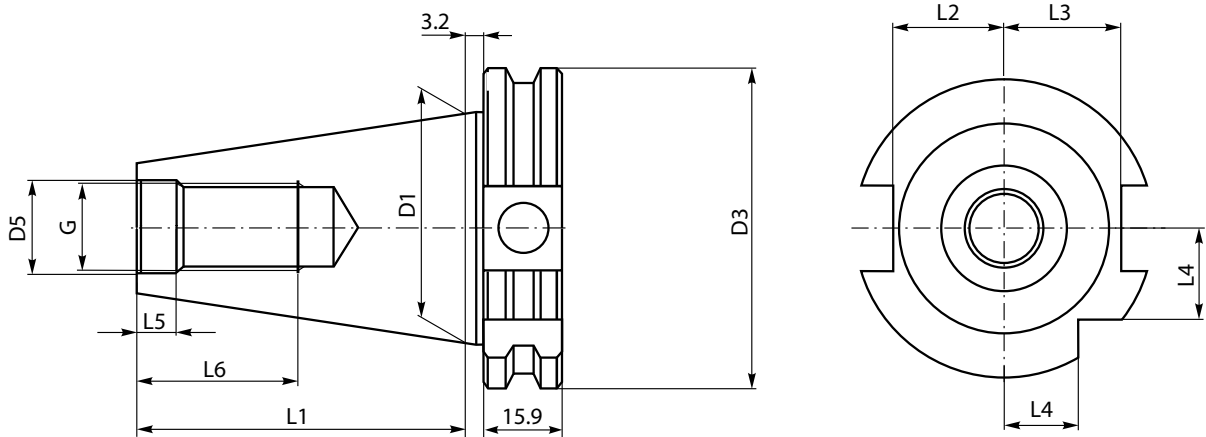
DCBT

DIN 69871

DIN 69871 TECHNICAL SPECIFICATION

- Manufactured with Casehardening Steel
- Surface Hardened HRC 60+2
- Hardening Depth 0.8mm+0.2mm
- Taper Anlge Tolerance AT3

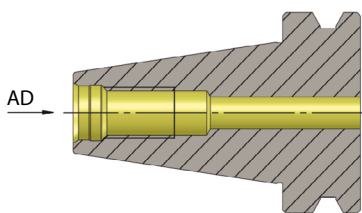
DIN 69871



Taper	D1	G	D5	D3	L1	L2	L3	L4	L5	L6
30	31.75	M12	12.5	50.00	47.80	16.4	19.0	15.0	5.5	24
40	44.45	M16	17.0	63.55	68.40	22.8	25.0	18.5	8.2	32
50	69.85	M24	25.0	97.50	101.75	35.5	37.7	30.0	11.5	47

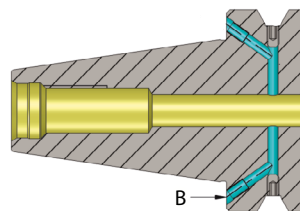
Form AD

Through Spindle Coolant



Form AD/B

Through Spindle Coolant & Through Flange Coolant



ER MINI NUT COLLET CHUCKS

DV40

- DIN 69871
- MINI Nut ER Collet Chucks
- Slimline Extended Mini Chucks
- ER Collets - Pg. 172
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Form	Nut	Balance
OM30285	DV40 ER11 MINI	70	AD	ER11 Mini (OM31414)	G2.5 @20,000 RPM
OM31700		70	AD/B		G2.5 @25,000 RPM
OM31550		100	AD		G6.3 @15,000 RPM
OM31701		100	AD/B		G2.5 @25,000 RPM
OM31702		160	AD/B		G2.5 @25,000 RPM
OM30286	DV40 ER16 MINI	70	AD	ER16 Mini (OM31415)	G2.5 @20,000 RPM
OM31703		70	AD/B		G2.5 @25,000 RPM
OM31551		100	AD		G6.3 @15,000 RPM
OM31704		100	AD/B		G2.5 @25,000 RPM
OM31705		160	AD/B		G2.5 @25,000 RPM
OM30288		200	AD		G2.5 @20,000 RPM



DIN 69871

SHORT ER COLLET CHUCK

DV40

- DIN 69871
- Very Short for maximum rigidity
- ER32 Collets - Pg. 176
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Form	Balance
OM30295	DV40 N ER32 SHORT	35	AD	G2.5 @25,000 RPM



ER COLLET CHUCKS

DV30

- DIN 69871
- Standard Nut Collet Chucks
- ER Collet System
- ER Collets - Pg. 172
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Form	Nut	Balance
OM30299	DV30 ER16	70	AD	ER16 Hexagon (OM31426)	G2.5 @20,000 RPM
OM30468	DV30 ER25	70	AD	ER25 Castellated (OM31421)	G2.5 @20,000 RPM
OM30309	DV30 ER32	70	AD	ER32 Castellated (OM31422)	G2.5 @20,000 RPM



ER COLLET CHUCKS

DV40

- DIN 69871
- Standard Nut Collet Chucks
- ER Collet System
- Wide Range of gauge lengths available
- ER Collets - Pg. 172
- Spares - Pg. 232



DIN 69871

Part Number	Description	Gauge Length (mm)	Form	Nut	Balance
OM31180	DV40 ER16	70	AD	ER16 Hexagon (OM31426)	G2.5 @20,000 RPM
OM31706		70	AD/B		G2.5 @25,000 RPM
OM31179		100	AD		G2.5 @20,000 RPM
OM31707		100	AD/B		G2.5 @25,000 RPM
OM31708		120	AD/B		G2.5 @25,000 RPM
OM31447		160	AD		G2.5 @20,000 RPM
OM31709		160	AD/B		G2.5 @25,000 RPM
OM31710		200	AD/B		G2.5 @25,000 RPM
OM31568	DV40 ER20	70	AD	ER20 Castellated (OM31420)	G6.3 @15,000 RPM
OM31569		100	AD		G6.3 @15,000 RPM
OM31570		160	AD		G6.3 @15,000 RPM
OM31184	DV40 ER25	70	AD	ER25 Castellated (OM31421)	G2.5 @20,000 RPM
OM31711		70	AD/B		G2.5 @25,000 RPM
OM31181		100	AD		G2.5 @20,000 RPM
OM31712		100	AD/B		G2.5 @25,000 RPM
OM31713		120	AD/B		G2.5 @25,000 RPM
OM31182		150	AD		G2.5 @20,000 RPM
OM31714		160	AD/B		G2.5 @25,000 RPM
OM31715		200	AD/B		G2.5 @25,000 RPM
OM31188	DV40 ER32	70	AD	ER32 Castellated (OM31422)	G2.5 @20,000 RPM
OM31716		70	AD/B		G2.5 @25,000 RPM
OM31185		100	AD		G2.5 @20,000 RPM
OM31717		100	AD/B		G2.5 @25,000 RPM
OM31718		120	AD/B		G2.5 @25,000 RPM
OM31186		150	AD		G2.5 @20,000 RPM
OM31187		160	AD		G2.5 @20,000 RPM
OM31719		160	AD/B		G2.5 @25,000 RPM
OM31478		200	AD		G2.5 @20,000 RPM
OM31720		200	AD/B		G2.5 @25,000 RPM
OM31721		250	AD/B		G2.5 @25,000 RPM
OM31722	300	AD/B	G2.5 @25,000 RPM		
OM31191	DV40 ER40	80	AD	ER40 Castellated (OM31423)	G2.5 @20,000 RPM
OM31723		80	AD/B		G2.5 @25,000 RPM
OM31724		100	AD/B		G2.5 @25,000 RPM
OM31725		160	AD/B		G2.5 @25,000 RPM
OM31726	DV40 ER50	100	AD/B	ER50 Castellated (OM31424)	G2.5 @25,000 RPM

ER COLLET CHUCKS

DV50

- DIN 69871
- Standard Nut Collet Chucks
- ER Collet System
- Wide range of gauge lengths available
- ER Collets - Pg. 172
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Form	Nut	Balance
OM31232	DV50 ER16	70	AD	ER16 Hexagon (OM31426)	G6.3 @15,000 RPM
OM31864		70	AD/B		G2.5 @25,000 RPM
OM31479		100	AD		G6.3 @15,000 RPM
OM31865		100	AD/B		G2.5 @25,000 RPM
OM31481		160	AD		G6.3 @15,000 RPM
OM31866		160	AD/B		G2.5 @25,000 RPM
OM31867		200	AD/B		G2.5 @25,000 RPM
OM31235	DV50 ER25	70	AD	ER25 Castellated (OM31421)	G6.3 @15,000 RPM
OM31868		70	AD/B		G2.5 @25,000 RPM
OM31471		100	AD		G6.3 @15,000 RPM
OM31869		100	AD/B		G2.5 @25,000 RPM
OM31233		160	AD		G6.3 @15,000 RPM
OM31870		160	AD/B		G2.5 @25,000 RPM
OM31473		200	AD		G6.3 @15,000 RPM
OM31871		200	AD/B		G2.5 @25,000 RPM
OM31872	250	AD/B	G2.5 @25,000 RPM		
OM31237	DV50 ER32	80	AD	ER32 Castellated (OM31422)	G6.3 @15,000 RPM
OM31873		80	AD/B		G2.5 @25,000 RPM
OM31450		100	AD		G6.3 @15,000 RPM
OM31874		100	AD/B		G2.5 @25,000 RPM
OM31236		160	AD		G6.3 @15,000 RPM
OM31875		160	AD/B		G2.5 @25,000 RPM
OM31474		200	AD		G6.3 @15,000 RPM
OM31876		200	AD/B		G2.5 @25,000 RPM
OM31877		250	AD/B		G2.5 @25,000 RPM
OM31238	DV50 ER40	80	AD	ER40 Castellated (OM31423)	G6.3 @15,000 RPM
OM31878		80	AD/B		G2.5 @25,000 RPM
OM31475		100	AD		G6.3 @15,000 RPM
OM31879		100	AD/B		G2.5 @25,000 RPM
OM31880		160	AD/B		G2.5 @25,000 RPM
OM31881		200	AD/B		G2.5 @25,000 RPM
OM31882	DV50 ER50	100	AD/B	ER50 Castellated (OM31424)	G2.5 @25,000 RPM



DIN 69871

OZ COLLET CHUCKS DV40

- DIN 69871
- OZ Collet System (DIN6388)
- Balanced G6.3 @ 15,000 RPM
- OZ Collets - Pg. 199
- Spares - Pg. 232



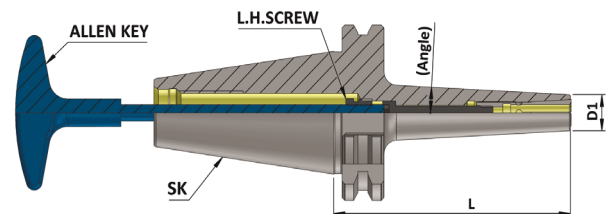
Part Number	Description	Gauge Length (mm)	Form
OM30289	DV40 OZ 25	80	AD
OM30290	DV40 OZ 32	90	AD



DIN 69871

DMC COLLET CHUCKS DV40 & DV50

- DIN69871
- Drawback Collet Style
- Ultra Precision DMC Slim Collet Chucks
- High Accuracy <0.005mm
- Balanced to G2.5 @ 25,000 RPM
- DMC Collets - Pg. 202
- Hex Keys - Pg. 235



Part Number	Description	Dimensions (mm)			Angle	Collet	Screw	Allen Key
		Clamping Range	D1	L				
OM32357	DV40 DMC 06	3-6	13	60	3°	DMC 06	M5	4X200
OM32358		3-6	13	90	3°	DMC 06	M5	4X200
OM32359		3-6	13	120	3°	DMC 06	M5	4X200
OM32360		3-6	13	160	3°	DMC 06	M5	4X200
OM32361	DV40 DMC 08	3-8	22	90	3°	DMC 08	M6	5X200
OM32362		3-8	22	120	3°	DMC 08	M6	5X200
OM32363		3-8	22	160	3°	DMC 08	M6	5X200
OM32364	DV40 DMC 10	4-10	28	90	3°	DMC 10	M8	6X200
OM32365		4-10	28	120	3°	DMC 10	M8	6X200

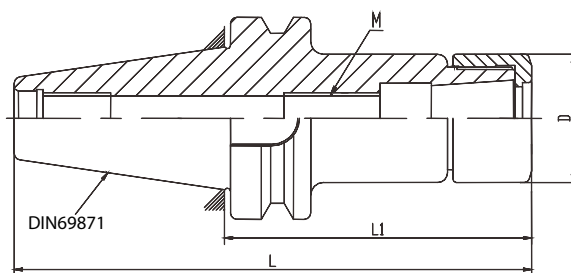
OM32366	DV50 DMC 10	4-10	28	150	3°	DMC 10	M8	6X200
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GSK COLLET CHUCKS

DV40

- DIN69871
- High Accuracy GSK Collet Chucks
- Excellent for use in high speed cutting and precise milling
- Balanced to G2.5 25,000 RPM
- GSK Collets - Pg. 200
- Spares - Pg. 232



Part Number	Description	Dimensions (mm)		
		Gauge Length	D	M
OM30449	DV40 GSK 06	60	19.5	M8 x 1
OM30443		90		
OM30498		120		
OM30444		150		
OM30445	DV40 GSK 10	60	27	M11 x 1
OM30446		90		
OM30447		120		
OM30448		150		
OM30450	DV40 GSK 16	60	40	M18 x 1.5
OM30451		90		
OM30452		120		
OM30453		150		
OM30454		200		
OM30455	DV40 GSK 25	90	55	M28 x 1.5
OM30456		120		
OM30457		150		



DIN69871

HYDRAULIC EXPANSION CHUCKS

DV40 & DV50

- DIN69871
- Ultra Precision Hydraulic Chucks
- High Accuracy <0.005mm
- Balanced to G2.5 @ 25,000 RPM
- Spares - Pg. 232
- Reduction Sleeves- Pg.203

Figure 1

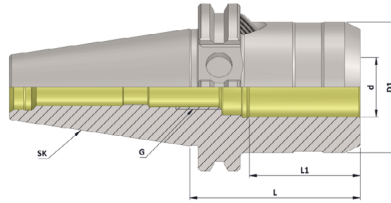
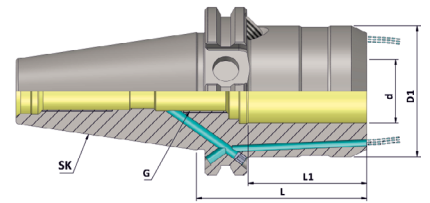


Figure 2



Part Number	Description	Dimensions (mm)					Form	Fig.
		d	D1	G	L	L1		
OM32156	DV40 HC12S	12	42	M10	50	40	AD	Fig. 1
OM32161		12	42	M10	50	40	AD/B + Cool	Fig. 2
OM32157	DV40 HC20S	20	50	M16	64.5	42	AD	Fig. 1
OM32162		20	50	M16	64.5	42	AD/B + Cool	Fig. 2

OM32158	DV50 HC12S	12	42	M10	50.5	40	AD	Fig. 1
OM32163		12	42	M10	50	40	AD/B + Cool	Fig. 2
OM32159	DV50 HC20S	20	50	M16	64.5	42	AD	Fig. 1
OM32164		20	50	M16	64.5	42	AD/B + Cool	Fig. 2
OM32160	DV50 HC32S	32	72	M16	81	55	AD	Fig. 1
OM32165		32	72	M16	81	55	AD/B + Cool	Fig. 2



Hydraulic Chuck Kit



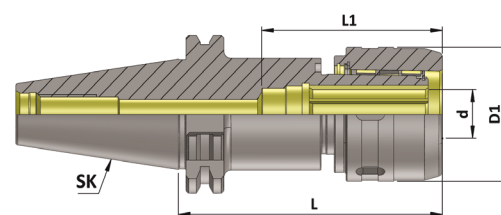
Part Number	Description
OM36188	DV40 HC20 Kit DV40 20mm Chuck + 5 Collets: 6, 8, 10, 12 & 16mm Collets



PREMIUM POWER MILLING CHUCKS

DV40 & DV50

- DIN 69871
- High Accuracy <0.005mm
- Power Milling Chucks are subjected to sub-zero treatment (-90° C). This helps prevent any deformation, increasing tool life
- Balanced G6.3 @ 15,000 RPM
- Straight Collets - Pg. 203
- Spares - Pg. 232



Part Number	Description	Dimensions (mm)			
		d	D1	L	L1
OM31091	DV40 UPMC 20	20	54	105	70
OM31092	DV40 UPMC 32	32	72	105	70

OM31189	DV50 UPMC 20	20	54	105	100
OM31190	DV50 UPMC 32	32	72	105	100



DIN 69871

STANDARD POWER MILLING CHUCKS

DV40 & DV50

- DIN 69871
- Economy chuck for general engineering applications
- Straight Collets - Pg. 202
- Spares - Pg. 232



Part Number	Description	Clamping Size (mm)	Gauge Length (mm)
OM31389	DV40 SC 20mm	20	80
OM31390	DV40 SC 25mm	25	80
OM31391	DV40 SC 32mm	32	105

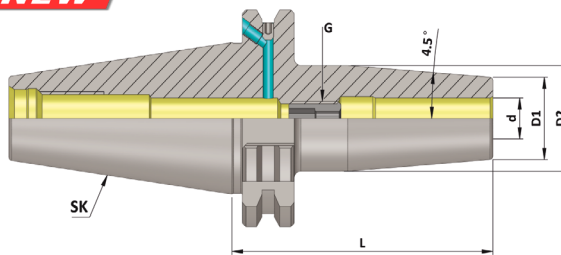
OM30296	DV50 SC 25mm	25	110
OM30297	DV50 SC 32mm	32	110



SHRINK FIT CHUCKS **NEW**

DV40

- DIN 69871
- Superior Clamping Strength & Rigidity
- Form AD/B
- 4.5 Degree
- Balanced G2.5 @ 25,000 RPM



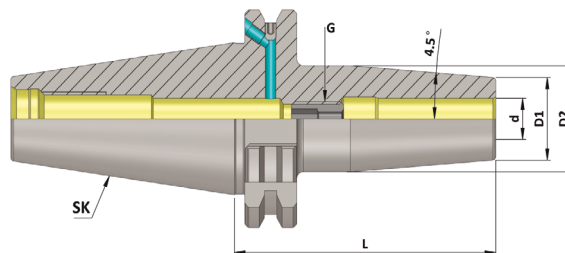
Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM30886	DV40 SF03	3mm	10	20	-	80
OM30887			10	20	-	120
OM30888			10	20	-	160
OM30824	DV40 SF04	4mm	15	22	-	80
OM30889			15	22	-	120
OM30890			15	22	-	160
OM30891	DV40 SF05	5mm	15	22	-	80
OM30892			15	22	-	120
OM30893			15	22	-	160
OM30825	DV40 SF06	6mm	21	27	M5	80
OM30826			21	27	M5	120
OM30827			21	27	M5	160
OM34343			21	27	M5	200
OM30828	DV40 SF08	8mm	21	27	M6	80
OM30829			21	27	M6	120
OM30830			21	27	M6	160
OM34344			21	27	M6	200
OM30831	DV40 SF10	10mm	24	31	M8	80
OM30832			24	31	M8	120
OM30833			24	31	M8	160
OM34345			24	31	M8	200
OM30834	DV40 SF12	12mm	24	31	M10	80
OM30835			24	31	M10	120
OM30836			24	31	M10	160
OM34346			24	31	M10	200
OM30894	DV40 SF14	14mm	27	34	M10	80
OM30895			27	34	M10	120
OM30896			27	34	M10	160
OM30837	DV40 SF16	16mm	27	34	M12	80
OM30838			27	34	M12	120
OM30839			27	34	M12	160
OM34348			27	34	M12	200
OM30897	DV40 SF18	18mm	33	40	M12	80
OM30898			33	40	M12	120
OM30899			33	40	M12	160
OM30840	DV40 SF20	20mm	33	40	M16	80
OM30841			33	40	M16	120
OM30842			33	40	M16	160
OM34350			33	40	M16	200
OM30843	DV40 SF25	25mm	44	53	M16	100
OM30844			44	53	M16	120
OM30845			44	53	M16	160
OM30846	DV40 SF32	32mm	44	53	M16	100
OM30900			44	53	M16	120
OM30847			44	53	M16	160

DIN 69871

SHRINK FIT CHUCKS **NEW**

DV50

- DIN 69871
- Superior Clamping Strength & Rigidity
- Form AD/B + Front Coolant Channels
- 4.5 Degree
- Balanced G2.5 @ 25,000 RPM



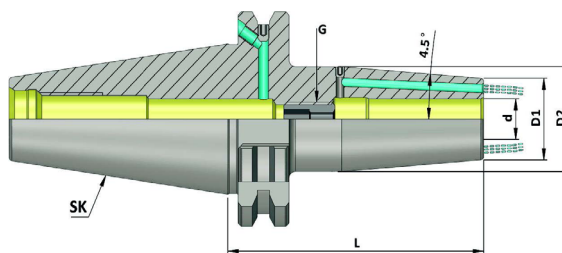
Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM36414	DV50 SF03	3mm	10	20	-	80
OM36415			10	20	-	120
OM36416			10	20	-	160
OM36417	DV50 SF04	4mm	15	22	-	80
OM36418			15	22	-	120
OM36419			15	22	-	160
OM36420	DV50 SF05	5mm	15	22	-	80
OM36421			15	22	-	120
OM36422			15	22	-	160
OM36423	DV50 SF06	6mm	21	27	M5	80
OM36424			21	27	M5	120
OM36425			21	27	M5	160
OM36426	DV50 SF08	8mm	21	27	M6	80
OM36427			21	27	M6	120
OM36428			21	27	M6	160
OM36429	DV50 SF10	10mm	24	31	M8	80
OM36430			24	31	M8	120
OM36431			24	31	M8	160
OM36432	DV50 SF12	12mm	24	31	M10	80
OM36433			24	31	M10	120
OM36434			24	31	M10	160
OM36435	DV50 SF14	14mm	27	34	M10	80
OM36436			27	34	M10	120
OM36437			27	34	M10	160
OM36438	DV50 SF16	16mm	27	34	M12	80
OM36439			27	34	M12	120
OM36440			27	34	M12	160
OM36441	DV50 SF18	18mm	33	40	M12	80
OM36442			33	40	M12	120
OM36443			33	40	M12	160
OM36444	DV50 SF20	20mm	33	40	M16	80
OM36445			33	40	M16	120
OM36446			33	40	M16	160
OM36447	DV50 SF25	25mm	44	53	M16	100
OM36448			44	53	M16	120
OM36449			44	53	M16	160
OM36450	DV50 SF32	32mm	44	53	M16	100
OM36451			44	53	M16	120
OM36452			44	53	M16	160

DIN 69871

SHRINK FIT CHUCKS WITH FRONT FACE COOLANT **NEW**

DV40

- DIN 69871
- Superior Clamping Strength & Rigidity
- Form AD/B + Front Coolant Channels
- 4.5 Degree
- Balanced G2.5 @ 25,000 RPM



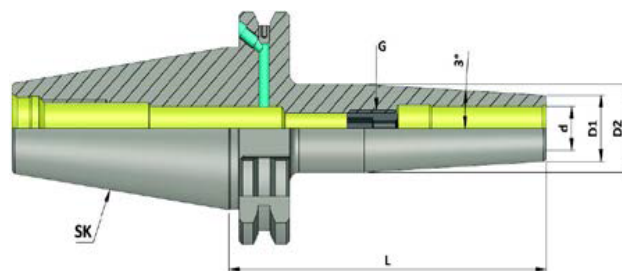
Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM36871	DV40 SF03 FCC	3mm	10	20	-	80
OM36872			10	20	-	120
OM36873			10	20	-	160
OM36874	DV40 SF04 FCC	4mm	15	22	-	80
OM36875			15	22	-	120
OM36876			15	22	-	160
OM36877	DV40 SF05 FCC	5mm	15	22	-	80
OM36878			15	22	-	120
OM36879			15	22	-	160
OM36880	DV40 SF06 FCC	6mm	21	27	M5	80
OM36881			21	27	M5	120
OM36882			21	27	M5	160
OM36883	DV40 SF08 FCC	8mm	21	27	M6	80
OM36884			21	27	M6	120
OM36885			21	27	M6	160
OM36886	DV40 SF10 FCC	10mm	24	31	M8	80
OM36887			24	31	M8	120
OM36888			24	31	M8	160
OM36889	DV40 SF12 FCC	12mm	24	31	M10	80
OM36890			24	31	M10	120
OM36891			24	31	M10	160
OM36892	DV40 SF14 FCC	14mm	27	34	M10	80
OM36893			27	34	M10	120
OM36894			27	34	M10	160
OM36895	DV40 SF16 FCC	16mm	27	34	M12	80
OM36896			27	34	M12	120
OM36897			27	34	M12	160
OM36898	DV40 SF18 FCC	18mm	33	40	M12	80
OM36899			33	40	M12	120
OM36900			33	40	M12	160
OM36901	DV40 SF20 FCC	20mm	33	40	M16	80
OM36902			33	40	M16	120
OM36903			33	40	M16	160
OM36904	DV40 SF25 FCC	25mm	44	53	M16	100
OM36905			44	53	M16	120
OM36906			44	53	M16	160
OM36907	DV40 SF32 FCC	32mm	44	53	M16	100
OM36908			44	53	M16	120
OM36909			44	53	M16	160

DIN 69871

SLIM SHRINK FIT CHUCKS **NEW**

DV40

- DIN 69871
- Superior Clamping Strength & Rigidity
- Form AD/B
- 3 Degree
- Balanced G2.5 @ 25,000 RPM



Part Number	Description	Dimensions (mm)				
		d	D1	D2	L	
OM36949	DV40 SF03 SLIM	3mm	9	14	-	80
OM36950			9	18	-	120
OM36951			9	19	-	160
OM36952	DV40 SF04 SLIM	4mm	10	15	-	80
OM36953			10	19	-	120
OM36954			10	20	-	160
OM36955	DV40 SF05 SLIM	5mm	11	16	-	80
OM36956			11	20	-	120
OM36957			11	21	-	160
OM36958	DV40 SF06 SLIM	6mm	12	17	M5	80
OM36959			12	21	M5	120
OM36960			12	25	M5	160
OM36961	DV40 SF08 SLIM	8mm	14	19	M6	80
OM36962			14	23	M6	120
OM36963			14	27	M6	160
OM36964	DV40 SF10 SLIM	10mm	16	21	M8	80
OM36965			16	25	M8	120
OM36966			16	29	M8	160
OM36967	DV40 SF12 SLIM	12mm	18	23	M10	80
OM36968			18	27	M10	120
OM36969			18	31	M10	160
OM36970	DV40 SF14 SLIM	14mm	20	26	M10	80
OM36971			20	29	M10	120
OM36972			20	32	M10	160
OM36973	DV40 SF16 SLIM	16mm	22	28	M12	80
OM36974			22	31	M12	120
OM36975			22	34	M12	160
OM36976	DV40 SF18 SLIM	18mm	24	30	M12	80
OM36977			24	33	M12	120
OM36978			24	36	M12	160
OM36979	DV40 SF20 SLIM	20mm	26	32	M16	80
OM36980			26	35	M16	120
OM36981			26	38	M16	160

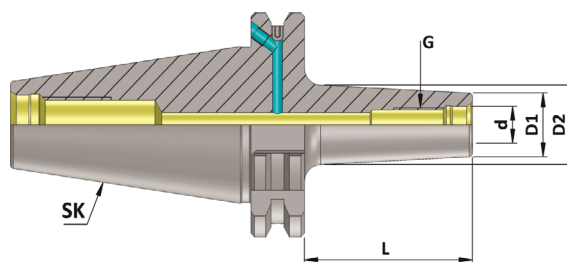


DIN 69871

MILLING CUTTER ARBORS

DV40 & DV50

- DIN 69871
- Arbors for Screw Type Modular Milling Cutters
- Balanced to G2.5 @ 25,000RPM
- MCAP= Parallel



Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM30950	DV40 MCA 06	6.5	10	13	M6	25
OM30951		6.5	10	20		50
OM30952		6.5	10	23		75
OM30953	DV40 MCA 08	8.5	13	15	M8	25
OM30954		8.5	13	23		50
OM30955		8.5	13	23		75
OM30956		8.5	13	25		100
OM30957	DV40 MCA 10	10.5	18	20	M10	25
OM30958		10.5	18	23		50
OM30959		10.5	18	28		75
OM30960		10.5	18	32		100
OM30961	DV40 MCA 12	12.5	21	24	M12	25
OM30962		12.5	21	24		50
OM30963		12.5	21	31		75
OM30964		12.5	21	33		100
OM30965		12.5	21	36		125
OM30966		17	29	29		M16
OM30967	17	29	34	50		
OM30968	17	29	34	75		
OM30969	17	29	36	100		
OM30970	17	29	40	125		
OM30971	17	29	42.5	150		
OM30972	DV50 MCA 08	8.5	13	23	M8	50
OM30973		8.5	13	25		100
OM30974		8.5	13	30		150
OM30975	DV50 MCA 10	10.5	18	23	M10	50
OM30976		10.5	18	32		100
OM30977		10.5	18	36.5		150
OM30978	DV50 MCA 12	12.5	21	24	M12	50
OM30979		12.5	21	33		100
OM30980		12.5	21	40		150
OM30981	DV50 MCA 16	17	29	34	M16	50
OM30982		17	29	36		100
OM30983		17	29	42.5		150



Parallel Milling Cutter Arbors

OM34725	DV40 MCAP 08	8.5	13.8	13.8	M8	50
OM34728	DV40 MCAP 10	10.5	18	18	M10	50
OM34729		10.5	18	18		75
OM34730		10.5	18	18		100
OM34731	DV40 MCAP 12	12.5	21	21	M12	50
OM34732		12.5	21	21		75
OM34733		12.5	21	21		100
OM34735	DV40 MCAP 16	17	29	29	M16	50
OM34736		17	29	29		75
OM34737		17	29	29		100

END MILL HOLDERS

DV40

- DIN 69871
- For mounting straight shank tools with weldon flat
- Spare Clamp Screws - Pg. 236



Part Number	Description	Bore Size	Gauge Length (mm)	Form	Balance
OM31206	DV40 S/L 06	6mm	50	AD	G2.5 @20,000 RPM
OM31727			50	AD/B	G2.5 @25,000 RPM
OM31461			100	AD	G2.5 @20,000 RPM
OM31728			100	AD/B	G2.5 @25,000 RPM
OM31729			160	AD/B	G2.5 @25,000 RPM
OM36214			200	AD	G6.3 @15,000 RPM
OM31207	DV40 S/L 08	8mm	50	AD	G2.5 @20,000 RPM
OM31731			50	AD/B	G2.5 @25,000 RPM
OM31462			100	AD	G2.5 @20,000 RPM
OM31732			100	AD/B	G2.5 @25,000 RPM
OM31733			160	AD/B	G2.5 @25,000 RPM
OM36215			200	AD	G6.3 @15,000 RPM
OM31208	DV40 S/L 10	10mm	63	AD	G2.5 @20,000 RPM
OM31735			63	AD/B	G2.5 @25,000 RPM
OM31463			100	AD	G2.5 @20,000 RPM
OM31736			100	AD/B	G2.5 @25,000 RPM
OM31737			160	AD/B	G2.5 @25,000 RPM
OM36216			200	AD	G6.3 @15,000 RPM
OM31209	DV40 S/L 12	12mm	63	AD	G2.5 @20,000 RPM
OM31739			63	AD/B	G2.5 @25,000 RPM
OM31464			100	AD	G2.5 @20,000 RPM
OM31740			100	AD/B	G2.5 @25,000 RPM
OM31741			160	AD/B	G2.5 @25,000 RPM
OM36217			200	AD	G6.3 @15,000 RPM
OM31980	DV40 S/L 14	14mm	63	AD	G2.5 @20,000 RPM
OM30372			100	AD	G2.5 @20,000 RPM
OM31467	DV40 S/L 16	16mm	35	AD	G2.5 @20,000 RPM
OM31211			63	AD	G2.5 @20,000 RPM
OM31744			100	AD/B	G2.5 @25,000 RPM
OM30257			160	AD	G2.5 @20,000 RPM
OM31745			160	AD/B	G2.5 @25,000 RPM
OM30258			200	AD	G2.5 @20,000 RPM
OM30782			100	AD	G2.5 @20,000 RPM

DIN 69871

END MILL HOLDERS DV40 (Continued)



Part Number	Description	Bore Size	Gauge Length (mm)	Form	Balance
OM31468	DV40 S/L 20	20mm	35	AD	G2.5 @20,000 RPM
OM31212			63	AD	G2.5 @20,000 RPM
OM31747			63	AD/B	G2.5 @25,000 RPM
OM31466			100	AD	G2.5 @20,000 RPM
OM31748			100	AD/B	G2.5 @25,000 RPM
OM30999			160	AD	G2.5 @20,000 RPM
OM31749			160	AD/B	G2.5 @25,000 RPM
OM30259			200	AD	G2.5 @20,000 RPM
OM31469			DV40 S/L 25	25mm	35
OM30260	70	AD			G2.5 @20,000 RPM
OM31214	90	AD			G2.5 @20,000 RPM
OM31213	100	AD			G2.5 @20,000 RPM
OM31751	100	AD/B			G2.5 @25,000 RPM
OM30261	160	AD			G2.5 @20,000 RPM
OM31752	160	AD/B			G2.5 @25,000 RPM
OM30262	200	AD			G2.5 @20,000 RPM
OM31470	DV40 S/L 32	32mm	65	AD	G2.5 @20,000 RPM
OM31215			100	AD	G2.5 @20,000 RPM
OM31754			100	AD/B	G2.5 @25,000 RPM
OM30263			160	AD	G2.5 @20,000 RPM
OM31755			160	AD/B	G2.5 @25,000 RPM
OM36218			200	AD	G6.3 @15,000 RPM
OM31216	DV40 S/L 40	40mm	115	AD	G2.5 @20,000 RPM



DIN 69871

END MILL HOLDERS

DV50

- DIN 69871
- For mounting straight shank tools with weldon flat
- Spare Clamp Screws - Pg. 236



Part Number	Description	Bore Size	Gauge Length (mm)	Form	Balance
OM31629	DV50 S/L 06	6mm	63	AD/B	G2.5 @25,000 RPM
OM31883			100	AD/B	G2.5 @25,000 RPM
OM31884			160	AD/B	G2.5 @25,000 RPM
OM31630	DV50 S/L 08	8mm	63	AD/B	G2.5 @25,000 RPM
OM31886			100	AD/B	G2.5 @25,000 RPM
OM31887			160	AD/B	G2.5 @25,000 RPM
OM31245	DV50 S/L 10	10mm	63	AD	G6.3 @15,000 RPM
OM31889			63	AD/B	G2.5 @25,000 RPM
OM31890			100	AD/B	G2.5 @25,000 RPM
OM31891			160	AD/B	G2.5 @25,000 RPM
OM31246	DV50 S/L 12	12mm	63	AD	G6.3 @15,000 RPM
OM31893			63	AD/B	G2.5 @25,000 RPM
OM31894			100	AD/B	G2.5 @25,000 RPM
OM31895			160	AD/B	G2.5 @25,000 RPM
OM36222			200	AD	G6.3 @15,000 RPM
OM31247	DV50 S/L 16	16mm	63	AD	G6.3 @15,000 RPM
OM31897			63	AD/B	G2.5 @25,000 RPM
OM31248			100	AD	G6.3 @15,000 RPM
OM31898			100	AD/B	G2.5 @25,000 RPM
OM31899			160	AD/B	G2.5 @25,000 RPM
OM36223			200	AD	G6.3 @15,000 RPM
OM31249	DV50 S/L 20	20mm	63	AD	G6.3 @15,000 RPM
OM31901			63	AD/B	G2.5 @25,000 RPM
OM31250			100	AD	G6.3 @15,000 RPM
OM31902			100	AD/B	G2.5 @25,000 RPM
OM31903			160	AD/B	G2.5 @25,000 RPM
OM36224			200	AD	G6.3 @15,000 RPM
OM31251	DV50 S/L 25	25mm	80	AD	G6.3 @15,000 RPM
OM31905			80	AD/B	G2.5 @25,000 RPM
OM31252			100	AD	G6.3 @15,000 RPM
OM31906			100	AD/B	G2.5 @25,000 RPM
OM31907			160	AD/B	G2.5 @25,000 RPM
OM36225			200	AD	G6.3 @15,000 RPM
OM31253	DV50 S/L 32	32mm	100	AD	G6.3 @15,000 RPM
OM31909			100	AD/B	G2.5 @25,000 RPM
OM31910			160	AD/B	G2.5 @25,000 RPM
OM36226			200	AD	G6.3 @15,000 RPM
OM31255	DV50 S/L 40	40mm	120	AD	G6.3 @15,000 RPM
OM31912			120	AD/B	G2.5 @25,000 RPM
OM31913			160	AD/B	G2.5 @25,000 RPM
OM31915	DV50 S/L 50	50mm	120	AD	G6.3 @15,000 RPM

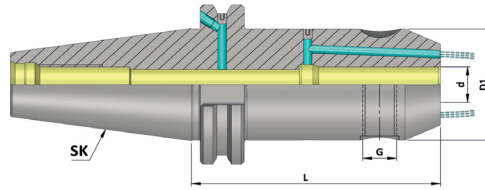


DIN 69871

END MILL HOLDERS WITH COOLANT CHANNELS **NEW**

DV40

- DIN 69871
- For mounting straight shank tools with weldon flat
- With Front Face Coolant Channels



Part Number	Description	Bore Size (mm)	Gauge Length (mm)	Form	Balance	Part Number	Description	Bore Size (mm)	Gauge Length (mm)	Form	Balance
OM36227	DV40 S/L 06 50 AD/B FCC	6	25	M6	50	OM36382	DV50 S/L 06 63 AD/B FCC	6	25	M6	63
OM36257	DV40 S/L 06 100 AD/B FCC				100	OM36383	DV50 S/L 06 100 AD/B FCC				100
OM36258	DV40 S/L 06 160 AD/B FCC				160	OM36384	DV50 S/L 06 160 AD/B FCC				160
OM36228	DV40 S/L 08 50 AD/B FCC	8	28	M8	50	OM36385	DV50 S/L 08 63 AD/B FCC	8	28	M8	63
OM36259	DV40 S/L 08 100 AD/B FCC				100	OM36386	DV50 S/L 08 100 AD/B FCC				100
OM36260	DV40 S/L 08 160 AD/B FCC				160	OM36387	DV50 S/L 08 160 AD/B FCC				160
OM36229	DV40 S/L 10 50 AD/B FCC	10	35	M10	50	OM36388	DV50 S/L 10 63 AD/B FCC	10	35	M10	63
OM36261	DV40 S/L 10 100 AD/B FCC				100	OM36389	DV50 S/L 10 100 AD/B FCC				100
OM36262	DV40 S/L 10 160 AD/B FCC				160	OM36390	DV50 S/L 10 160 AD/B FCC				160
OM36230	DV40 S/L 12 50 AD/B FCC	12	42	M12	50	OM36391	DV50 S/L 12 63 AD/B FCC	12	42	M12	63
OM36263	DV40 S/L 12 100 AD/B FCC				100	OM36392	DV50 S/L 12 100 AD/B FCC				100
OM36264	DV40 S/L 12 160 AD/B FCC				160	OM36393	DV50 S/L 12 160 AD/B FCC				160
OM36265	DV40 S/L 14 50 AD/B FCC	14	44	M12	50	OM36394	DV50 S/L 14 63 AD/B FCC	14	44	M12	63
OM36266	DV40 S/L 14 100 AD/B FCC				100	OM36395	DV50 S/L 14 100 AD/B FCC				100
OM36267	DV40 S/L 14 160 AD/B FCC				160	OM36396	DV50 S/L 14 160 AD/B FCC				160
OM36231	DV40 S/L 16 63 AD/B FCC	16	48	M14	63	OM36397	DV50 S/L 16 63 AD/B FCC	16	48	M14	63
OM36268	DV40 S/L 16 100 AD/B FCC				100	OM36398	DV50 S/L 16 100 AD/B FCC				100
OM36269	DV40 S/L 16 160 AD/B FCC				160	OM36399	DV50 S/L 16 160 AD/B FCC				160
OM36270	DV40 S/L 18 63 AD/B FCC	18	50	M14	63	OM36400	DV50 S/L 18 63 AD/B FCC	18	50	M14	63
OM36271	DV40 S/L 18 100 AD/B FCC				100	OM36401	DV50 S/L 18 100 AD/B FCC				100
OM36272	DV40 S/L 18 160 AD/B FCC				160	OM36402	DV50 S/L 18 160 AD/B FCC				160
OM36232	DV40 S/L 20 63 AD/B FCC	20	52	M16	63	OM36403	DV50 S/L 20 63 AD/B FCC	20	52	M16	63
OM36273	DV40 S/L 20 100 AD/B FCC				100	OM36404	DV50 S/L 20 100 AD/B FCC				100
OM36274	DV40 S/L 20 160 AD/B FCC				160	OM36405	DV50 S/L 20 160 AD/B FCC				160
OM36275	DV40 S/L 25 100 AD/B FCC	25	65	M18x2	100	OM36406	DV50 S/L 25 80 AD/B FCC	25	65	M18x2	80
OM36276	DV40 S/L 25 160 AD/B FCC				160	OM36407	DV50 S/L 25 100 AD/B FCC				100
OM36277	DV40 S/L 32 100 AD/B FCC				100	OM36408	DV50 S/L 25 160 AD/B FCC				160
OM36278	DV40 S/L 32 160 AD/B FCC	32	72	M20x2	100	OM36409	DV50 S/L 32 100 AD/B FCC	32	72	M20x2	105
OM36279	DV40 S/L 40 115 AD/B FCC				115	OM36410	DV50 S/L 32 160 AD/B FCC				160
OM36280	DV40 S/L 40 160 AD/B FCC				160	OM36411	DV50 S/L 40 120 AD/B FCC				120
		40	80	M20x2		OM36412	DV50 S/L 40 160 AD/B FCC	40	80	M20x2	160
											OM36413

DIN 69871

STANDARD FACE MILL ARBORS

DV40 & DV50

- DIN 69871
- Non Through Coolant
- For Mounting Face Mill Cutters



Part Number	Description	Spigot Size	Gauge Length (mm)	Balance
OM31193	DV40 FMB 16	16mm	35	G2.5 @20,000 RPM
OM31489			100	G2.5 @20,000 RPM
OM31490			160	G6.3 @15,000 RPM
OM30785			200	G6.3 @15,000 RPM
OM31195	DV40 FMB 22	22mm	45	G2.5 @20,000 RPM
OM31491			100	G2.5 @20,000 RPM
OM31492			160	G6.3 @15,000 RPM
OM30786			200	G6.3 @15,000 RPM
OM31198	DV40 FMB 27	27mm	45	G2.5 @20,000 RPM
OM31493			100	G2.5 @20,000 RPM
OM31494			160	G6.3 @15,000 RPM
OM30787			200	G6.3 @15,000 RPM
OM31199	DV40 FMB 32	32mm	50	G2.5 @20,000 RPM
OM31200	DV40 FMB 40	40mm	60	G2.5 @20,000 RPM

OM31392	DV50 FMB 22	22mm	45	G6.3 @15,000 RPM
OM31528	DV50 FMB 27	27mm	45	G6.3 @15,000 RPM
OM33689	DV50 FMB 32	32mm	50	G6.3 @15,000 RPM
OM33690	DV50 FMB 40	40mm	55	G6.3 @15,000 RPM



DIN 69871

THROUGH COOLANT FACE MILL ARBORS DV40 & DV50

- DIN 69871
- For Mounting Face Mill Cutters
- Wide range of gauge lengths available
- AD/B + Cool Holders allow for coolant through flange and through centre



DIN 69871

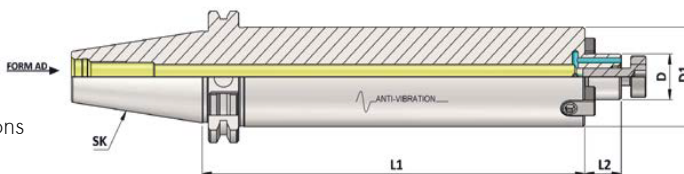
Part Number	Description	Spigot Size	Gauge Length (mm)	Form	Balance
OM31757	DV40 FMB 16	16mm	35	AD/B + Cool	G2.5 @25,000 RPM
OM31758			100	AD/B + Cool	G2.5 @25,000 RPM
OM31759			160	AD/B + Cool	G2.5 @25,000 RPM
OM31761	DV40 FMB 22	22mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31762			100	AD/B + Cool	G2.5 @25,000 RPM
OM31763			160	AD/B + Cool	G2.5 @25,000 RPM
OM31764			200	AD/B + Cool	G6.3 @15,000 RPM
OM31765	DV40 FMB 27	27mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31766			100	AD/B + Cool	G2.5 @25,000 RPM
OM31767			160	AD/B + Cool	G2.5 @25,000 RPM
OM31768			200	AD/B + Cool	G6.3 @15,000 RPM
OM31769	DV40 FMB 32	32mm	50	AD/B + Cool	G2.5 @25,000 RPM
OM31770			100	AD/B + Cool	G2.5 @25,000 RPM
OM31771			160	AD/B + Cool	G2.5 @25,000 RPM
OM31772			200	AD/B + Cool	G6.3 @15,000 RPM
OM31773	DV40 FMB 40	40mm	60	AD/B + Cool	G2.5 @25,000 RPM
OM31774			100	AD/B + Cool	G2.5 @25,000 RPM
OM31775			160	AD/B + Cool	G6.3 @15,000 RPM

OM31917	DV50 FMB 16	16mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31918			100	AD/B + Cool	G2.5 @25,000 RPM
OM31919			160	AD/B + Cool	G2.5 @25,000 RPM
OM31920			200	AD/B + Cool	G2.5 @25,000 RPM
OM31924	DV50 FMB 22	22mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31925			100	AD/B + Cool	G2.5 @25,000 RPM
OM31926			160	AD/B + Cool	G2.5 @25,000 RPM
OM31927			200	AD/B + Cool	G2.5 @25,000 RPM
OM31931	DV50 FMB 27	27mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31932			100	AD/B + Cool	G2.5 @25,000 RPM
OM31933			160	AD/B + Cool	G2.5 @25,000 RPM
OM31934			200	AD/B + Cool	G2.5 @25,000 RPM
OM31938	DV50 FMB 32	32mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31939			100	AD/B + Cool	G2.5 @25,000 RPM
OM31940			160	AD/B + Cool	G2.5 @25,000 RPM
OM31945	DV50 FMB 40	40mm	45	AD/B + Cool	G2.5 @25,000 RPM
OM31946			100	AD/B + Cool	G2.5 @25,000 RPM
OM31947			160	AD/B + Cool	G6.3 @15,000 RPM

ANTI-VIBRATION FACE MILL ARBORS **NEW**

DV40 & DV50

- DIN 69871
- For Mounting Face Mill Cutters
- Damped tool holders for long reach applications
- Form AD - Through Spindle Coolant



Part Number	Description	Spigot Size (D)	D1	Gauge Length (L1)	L2	Balance
OM33765	DV40 FMB AV 16	16mm	38	200	17	G6.3 @8,000 RPM
OM36467				250		G6.3 @8,000 RPM
OM33766				300		G6.3 @8,000 RPM
OM33767	DV40 FMB AV 22	22mm	48	200	19	G6.3 @8,000 RPM
OM36468				250		G6.3 @8,000 RPM
OM33768				300		G6.3 @8,000 RPM
OM33769	DV40 FMB AV 27	27mm	58	200	21	G6.3 @8,000 RPM
OM36469				250		G6.3 @8,000 RPM
OM36470				300		G6.3 @8,000 RPM



DIN 69871

OM33770	DV50 FMB AV 16	16mm	38	200	17	G6.3 @8,000 RPM
OM36471				250		G6.3 @8,000 RPM
OM33771				300		G6.3 @8,000 RPM
OM36472				350		G6.3 @8,000 RPM
OM33772				400		G6.3 @8,000 RPM
OM33773	DV50 FMB AV 22	22mm	48	200	19	G6.3 @8,000 RPM
OM36473				250		G6.3 @8,000 RPM
OM33774				300		G6.3 @8,000 RPM
OM36474				350		G6.3 @8,000 RPM
OM33775				400		G6.3 @8,000 RPM
OM33776	DV50 FMB AV 27	27mm	58	200	21	G6.3 @8,000 RPM
OM36475				250		G6.3 @8,000 RPM
OM33777				300		G6.3 @8,000 RPM
OM36476				350		G6.3 @8,000 RPM
OM33778				400		G6.3 @8,000 RPM
OM36477	DV50 FMB AV 32	32mm	78	200	24	G6.3 @8,000 RPM
OM36478				250		G6.3 @8,000 RPM
OM33779				300		G6.3 @8,000 RPM
OM36479				350		G6.3 @8,000 RPM
OM36480				400		G6.3 @8,000 RPM

COMBI SHELL MILL ARBORS DV40 & DV50

- DIN 69871
- For Mounting Face Mills & Side/Face Cutters



Part Number	Description	Spigot Size	Gauge Length (mm)	Form
OM31172	DV40 COMBI 16	16mm	55	AD
OM31171			100	AD
OM31174	DV40 COMBI 22	22mm	55	AD
OM31173			100	AD
OM31176	DV40 COMBI 27	27mm	55	AD
OM31175			100	AD
OM31177	DV40 COMBI 32	32mm	60	AD
OM31178	DV40 COMBI 40	40mm	60	AD

OM31220	DV50 COMBI 16	16mm	55	AD
OM31222	DV50 COMBI 22	22mm	55	AD
OM31221			100	AD
OM31225	DV50 COMBI 27	27mm	55	AD
OM31224			100	AD
OM31228	DV50 COMBI 32	32mm	55	AD
OM31227			100	AD
OM31231	DV50 COMBI 40	40mm	60	AD
OM31229			100	AD



MORSE TAPER ADAPTORS

DV40 & DV50

- DIN 69871
- For Tools with Morse Taper Shank & Tang



Part Number	Description	Gauge Length (mm)	Form	Balance
OM31202	DV40 MTA 1	50	AD	G2.5 @20,000 RPM
OM31203	DV40 MTA 2	50	AD	G2.5 @20,000 RPM
OM31204	DV40 MTA 3	70	AD	G2.5 @20,000 RPM
OM31205	DV40 MTA 4	95	AD	G2.5 @20,000 RPM

OM31240	DV50 MTA 1	60	AD	G6.3 @15,000 RPM
OM31241	DV50 MTA 2	60	AD	G6.3 @15,000 RPM
OM31242	DV50 MTA 3	65	AD	G6.3 @15,000 RPM
OM31243	DV50 MTA 4	95	AD	G6.3 @15,000 RPM
OM31244	DV50 MTA 5	105	AD	G6.3 @15,000 RPM



DIN 69871

MORSE TAPER ADAPTORS WITH DRAWBAR THREAD

DV40

- DIN69871
- For Tools with Morse Taper & Drawbar Thread
- G6.3 @ 15,000 RPM

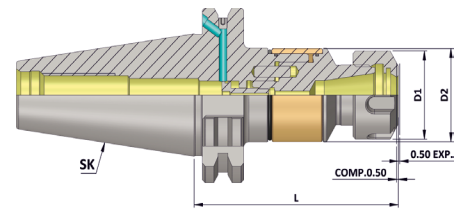


Part Number	Description	Gauge Length (mm)
OM30273	DV40 MTB 1	45
OM30274	DV40 MTB 2	60
OM30275	DV40 MTB 3	80
OM30276	DV40 MTB 4	100



MLC SYNCHRO TAPPING CHUCKS DV40 & DV50

- DIN69871
- Minimum Length Compensation Tapping Chucks
- +/-0.5mm Compression & Expansion
- High Concentricity Enables High Speed Tapping
- Recommended for use with QCTC Type Collets
- [QCTC Collets - Pg. 204](#)
- [Spares - Pg. 232](#)



Part Number	Description	Capacity	Clamping Range (mm)	Collet Nut	Dimensions (mm)				
					D1	D2	L	Comp.	Exp.
OM32439	DV40 MLC ER16	M3-M12	1-10	ER16	32	34	79	0.5	0.5
OM32440	DV40 MLC ER20	M3-M16	3.5-10	ER20	35	34	80	0.5	0.5
OM32441	DV40 MLC ER25	M3-M20	3.5-16	ER25	42	34	84	0.5	0.5
OM32442	DV40 MLC ER32	M4-M27	3.5-20	ER32	50	45	95	0.5	0.5
OM32443	DV40 MLC ER40	M6-M33	6-26	ER40	63	62	120	0.5	0.5

OM32444	DV50 MLC ER16	M3-M12	1-10	ER16	32	34	79	0.5	0.5
OM32445	DV50 MLC ER20	M3-M16	3.5-10	ER20	35	34	80	0.5	0.5
OM32460	DV50 MLC ER25	M3-M20	3.5-16	ER25	42	34	84	0.5	0.5
OM32470	DV50 MLC ER32	M4-M27	3.5-20	ER32	50	45	95	0.5	0.5
OM32471	DV50 MLC ER40	M6-M33	6-26	ER40	63	62	105	0.5	0.5

QUICK CHANGE TAPPING CHUCKS DV40 & DV50

- DIN 69871
- Axial Length Compensation
- With Tension & Compression
- Quick change tap adaptors available in 3 sizes
- [QC Tap Adaptors - Pg. 210](#)



Part Number	Description	Gauge Length (mm)	Tapping Range
OM31379	DV40 Size 1 (TC312-59)	59	M3 - M12
OM31380	DV40 Size 2 (TC820-97)	97	M6 - M20
OM31381	DV40 Size 3 (TC1433-156)	156	M14 - M36

OM31382	DV50 Size 1 (TC312-63)	63	M3 - M12
OM31383	DV50 Size 2 (TC820-97)	97	M6 - M20
OM31384	DV50 Size 3 (TC1433-140)	140	M14 - M36



DIN 69871

HEX KEY PREMIUM DRILL CHUCKS

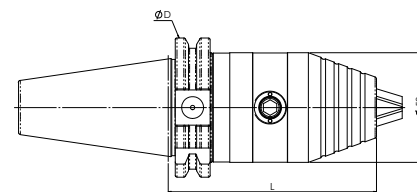
DV40 & DV50

- DIN 69871
- Premium Drill Chuck
- Strong Clamping Force in both clockwise & anti-clockwise operations
- Increased wear-resistance with TIN Coated Jaws
- Spare Hex Key - Pg. 235



Part Number	Description	Capacity (mm)	L	D
OM33662	DV40 GHK 13 90	0.3-13	90	63.55
OM33663	DV40 GHK 16 95	1.5-16	95	63.55

OM33664	DV50 GHK 13 90	0.3-13	90	97.5
OM33665	DV50 GHK 16 95	1.5-16	95	97.5



DIN 69871

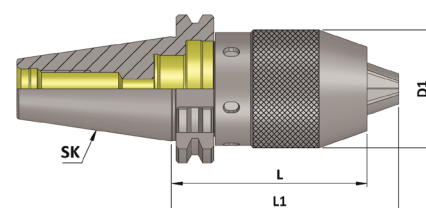
NCDC DRILL CHUCKS

DV40 & DV50

- DIN 69871
- High Accuracy Drill Chuck
- Maximum Rigidity
- NCDC Spanner - Pg. 235



Part Number	Description	Dimensions (mm)			
		Capacity	D1	L	L1
OM33655	DV40 NCDC 1-13mm	1-13mm	50	86	98.5
OM33656	DV50 NCDC 1-13mm	1-13mm	50	108	120.5



APU KEYLESS DRILL CHUCKS

DV40 & DV50

- DIN 69871
- Economy drill chuck for general engineering applications
- APU Spanner - Pg. 235



Part Number	Description	Gauge Length (mm)	Capacity
OM31170	DV40 APU 13 1-13mm	100	1-13mm
OM31571	DV40 APU 16 3-16mm	120	3-16mm

OM31218	DV50 APU 13 1-13mm	100	1-13mm
OM31219	DV50 APU 16 3-16mm	105	3-16mm



DRILL CHUCK ARBORS

DV40 & DV50

- DIN 69871
- For Mounting Drill Chucks
- Drill Chucks - Pg. 222



Part Number	Description	Balance
OM31201	DV40 JT6	G6.3 @ 12,000 RPM
OM31448	DV40 B16	G6.3 @ 12,000 RPM

OM31239	DV50 JT6	G6.3 @ 12,000 RPM
OM31534	DV50 B16	G6.3 @ 12,000 RPM



DIN 69871

TEST ARBORS

DV40 & DV50

- DIN 69871
- Master Mandrel
- Supplied with protective wooden case



Part Number	Description	Diameter (mm)	Gauge Length (mm)
OM33744	DV40 Test Arbor	40	300
OM33745	DV50 Test Arbor	50	350



MACHINABLE BORING BAR BLANKS

DV40 & DV50

- DIN 69871
- machinable Boring Bar Blanks



Part Number	Description	Diameter (mm)	Gauge Length (mm)
OM30293	DV40 BLANK 63 250	63	250

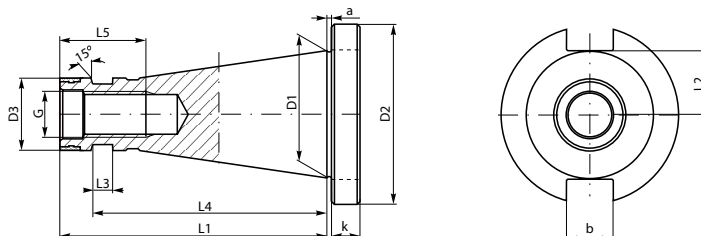
OM30294	DV50 BLANK 97 315	97	315
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DIN 2080

DIN 2080 TECHNICAL SPECIFICATION

- Manufactured with Casehardening Steel
- Surface Hardened HRC 60+-2
- Hardening Depth 0.8mm+0.2mm
- Taper Anlge Tolerance AT3



Taper	D1	a	b	k	G	D2	D3	L1	L2	L3	L4	L5
30	31.8	1.6	16.1	8	M12	50.0	17.5	68.4	16.2	-	-	24
40	44.5	1.6	16.1	10	M16	63.0	25.0	93.4	22.5	7	82	32
50	69.9	3.2	25.7	12	M24	97.5	39.2	126.8	35.3	13	115	47

ER COLLET CHUCKS ISO 40 & ISO 50

- DIN2080
- Standard Nut Collet Chucks
- ER Collets - Pg. 172
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Form	Nut	Balance
OM31258	DIN2080 40 ER16	70	AD	ER16 Hexagon (OM31426)	G6.3 @ 15,000 RPM
OM31963		100	AD		G6.3 @ 15,000 RPM
OM30334		160	AD		G6.3 @ 15,000 RPM
OM30335		200	AD		G6.3 @ 15,000 RPM
OM31259	DIN2080 40 ER25	60	AD	ER25 Castellated (OM31421)	G6.3 @ 15,000 RPM
OM31964		100	AD		G6.3 @ 15,000 RPM
OM30336		160	AD		G6.3 @ 15,000 RPM
OM30337		200	AD		G6.3 @ 15,000 RPM
OM31260	DIN2080 40 ER32	70	AD	ER32 Castellated (OM31422)	G6.3 @ 15,000 RPM
OM31965		100	AD		G6.3 @ 15,000 RPM
OM30338		160	AD		G6.3 @ 15,000 RPM
OM30339		200	AD		G6.3 @ 15,000 RPM
OM31333	DIN2080 40 ER40	80	AD	ER40 Castellated (OM31423)	G6.3 @ 15,000 RPM
OM30340		100	AD		G6.3 @ 15,000 RPM
OM30341		160	AD		G6.3 @ 15,000 RPM
OM30342		200	AD		G6.3 @ 15,000 RPM

OM31279	DIN2080 50 ER32	70	AD	ER32 Castellated (OM31422)	G6.3 @ 15,000 RPM
OM31280	DIN2080 50 ER40	70	AD	ER40 Castellated (OM31423)	G6.3 @ 15,000 RPM



END MILL HOLDERS

ISO 40 & ISO 50

- DIN2080
- For mounting straight shank tools with weldon flat
- Spare Clamp Screws - Pg. 236



Part Number	Description	Bore Size	Gauge Length (mm)	Balance
OM31270	DIN2080 40 S/L 06	6mm	50	G6.3 @ 15,000 RPM
OM30343			100	G6.3 @ 15,000 RPM
OM31271	DIN2080 40 S/L 08	8mm	50	G6.3 @ 15,000 RPM
OM30344			100	G6.3 @ 15,000 RPM
OM31272	DIN2080 40 S/L 10	10mm	63	G6.3 @ 15,000 RPM
OM30345			100	G6.3 @ 15,000 RPM
OM31273	DIN2080 40 S/L 12	12mm	63	G6.3 @ 15,000 RPM
OM30346			100	G6.3 @ 15,000 RPM
OM31274	DIN2080 40 S/L 16	16mm	63	G6.3 @ 15,000 RPM
OM30347			100	G6.3 @ 15,000 RPM
OM31275	DIN2080 40 S/L 20	20mm	63	G6.3 @ 15,000 RPM
OM30348			100	G6.3 @ 15,000 RPM
OM31276	DIN2080 40 S/L 25	25mm	90	G6.3 @ 15,000 RPM
OM31277	DIN2080 40 S/L 32	32mm	100	G6.3 @ 15,000 RPM
OM31278	DIN2080 40 S/L 40	40mm	90	G6.3 @ 15,000 RPM

OM31290	DIN2080 50 S/L 16	16mm	63	G6.3 @ 15,000 RPM
OM31291	DIN2080 50 S/L 20	20mm	63	G6.3 @ 15,000 RPM
OM31292	DIN2080 50 S/L 25	25mm	90	G6.3 @ 15,000 RPM
OM31293	DIN2080 50 S/L 32	32mm	100	G6.3 @ 15,000 RPM
OM31294	DIN2080 50 S/L 40	40mm	100	G6.3 @ 15,000 RPM



FACE MILL ARBORS

ISO 40 & ISO 50

- DIN2080
- For Mounting Face Mill Cutters



Part Number	Description	Spigot Size	Gauge Length (mm)	Balance
OM31261	DIN2080 40 FMB 16	16mm	45	G6.3 @ 15,000 RPM
OM30349			100	G6.3 @ 15,000 RPM
OM30350			160	G6.3 @ 15,000 RPM
OM30351			200	G6.3 @ 15,000 RPM
OM31262	DIN2080 40 FMB 22	22mm	45	G6.3 @ 15,000 RPM
OM30352			100	G6.3 @ 15,000 RPM
OM30353			160	G6.3 @ 15,000 RPM
OM30354			200	G6.3 @ 15,000 RPM
OM31263	DIN2080 40 FMB 27	27mm	45	G6.3 @ 15,000 RPM
OM30355			100	G6.3 @ 15,000 RPM
OM30356			160	G6.3 @ 15,000 RPM
OM30357			200	G6.3 @ 15,000 RPM
OM31264	DIN2080 40 FMB 32	32mm	60	G6.3 @ 15,000 RPM
OM30358			100	G6.3 @ 15,000 RPM
OM30359			160	G6.3 @ 15,000 RPM
OM30360			200	G6.3 @ 15,000 RPM
OM31984	DIN2080 40 FMB 40	40mm	60	G6.3 @ 15,000 RPM
OM30361			100	G6.3 @ 15,000 RPM
OM30362			160	G6.3 @ 15,000 RPM
OM30363			200	G6.3 @ 15,000 RPM

OM31281	DIN2080 50 FMB 22	22mm	45	G6.3 @ 15,000 RPM
OM31282	DIN2080 50 FMB 27	27mm	45	G6.3 @ 15,000 RPM
OM31283	DIN2080 50 FMB 32	32mm	60	G6.3 @ 15,000 RPM
OM31284	DIN2080 50 FMB 40	40mm	60	G6.3 @ 15,000 RPM



DIN 2080

MORSE TAPER ADAPTORS

ISO 40 & ISO 50

- DIN 2080
- For Tools with Morse Taper Shank & Tang



Part Number	Description	Gauge Length (mm)	Balance
OM31266	DIN2080 40 MTA 1	45	G6.3 @ 15,000 RPM
OM31267	DIN2080 40 MTA 2	60	G6.3 @ 15,000 RPM
OM31268	DIN2080 40 MTA 3	60	G6.3 @ 15,000 RPM
OM31269	DIN2080 40 MTA 4	95	G6.3 @ 15,000 RPM

OM31286	DIN2080 50 MTA 2	45	G6.3 @ 15,000 RPM
OM31287	DIN2080 50 MTA 3	60	G6.3 @ 15,000 RPM
OM31288	DIN2080 50 MTA 4	90	G6.3 @ 15,000 RPM
OM31289	DIN2080 50 MTA 5	105	G6.3 @ 15,000 RPM



DIN 2080

QUICK CHANGE TAPPING CHUCKS

ISO 40 & ISO 50

- DIN 2080
- Axial Length Compensation
- With Tension & Compression
- Quick change tap adaptors available in 3 sizes
- QC Tap Adaptors - Pg. 210



Part Number	Description	Gauge Length (mm)	Tapping Range
OM31373	DIN2080 40 Size 1 (TC312-55)	55	M3 - M12
OM31374	DIN2080 40 Size 2 (TC820-86)	86	M6 - M20
OM31375	DIN2080 40 Size 3 (TC1433-132)	132	M14 - M36

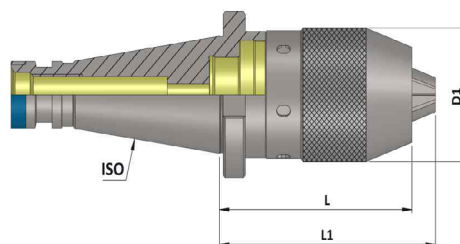
OM31376	DIN2080 50 Size 1 (TC312-62)	62	M3 - M12
OM31377	DIN2080 50 Size 2 (TC820-90)	90	M6 - M20
OM31378	DIN2080 50 Size 3 (TC1433-117)	117	M14 - M36



NCDC DRILL CHUCKS

ISO 40 & ISO 50

- DIN 2080
- High Accuracy Drill Chuck, <0.05mm
- Maximum Rigidity
- NCDC Spanner - Pg. 235



Part Number	Description	Dimensions (mm)			
		Capacity	D1	L	L1
OM31546	DIN2080 40 NCDC 1-13mm	1-13mm	50	88.5	101

OM31547	DIN2080 50 NCDC 1-13mm	1-13mm	50	88.5	101
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APU KEYLESS DRILL CHUCKS

ISO 40 & ISO 50

- DIN 2080
- Keyless drill chuck can be tightened with wrench
- APU Spanner - Pg. 235



Part Number	Description	Gauge Length (mm)	Balance
OM31358	DIN2080 40 APU13 1-13mm	100	G6.3 @ 15,000RPM

OM31359	DIN2080 50 APU16 1-16mm	105	G6.3 @ 15,000RPM
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DIN 2080

DRILL CHUCK ARBORS

ISO 40 & ISO 50

- DIN 2080
- For Mounting Drill Chucks
- Drill Chucks - Pg. 235



Part Number	Description	Gauge Length (mm)	Balance
OM31265	DIN2080 40 JT6	45	G6.3 @ 15,000RPM
OM31985	DIN2080 40 B16	45	G6.3 @ 15,000RPM

OM31285	DIN2080 50 JT6	45	G6.3 @ 15,000RPM
OM31986	DIN2080 50 B16	45	G6.3 @ 15,000RPM



MACHINABLE BORING BAR BLANKS

ISO 40 & ISO 50

- DIN 2080



Part Number	Description	Diameter (mm)	Gauge Length (mm)
OM31049	DIN2080 40 BLANK 63 250	63	250

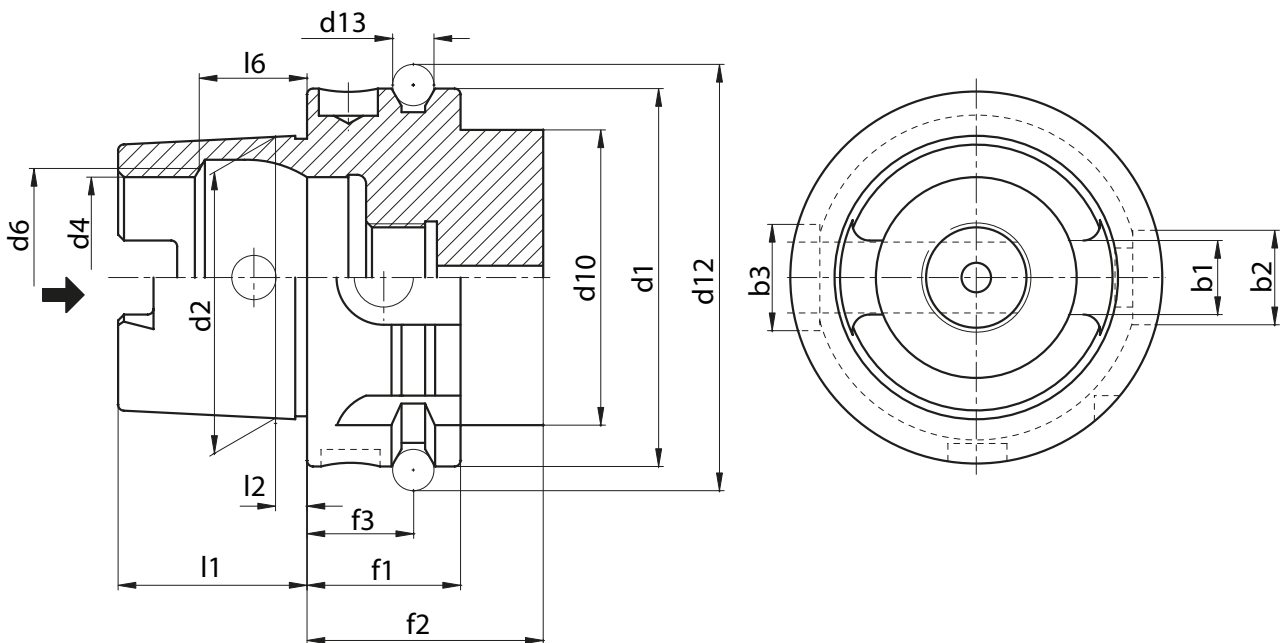
OM31055	DIN2080 50 BLANK 97 315	97	315
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HSK63A

HSK63A (DIN69893 A+C) TECHNICAL SPECIFICATION

- Manufactured with Casehardening Steel
- Surface Hardened HRC 60+2
- Hardening Depth 0.8mm+0.2mm



	HSK 32	HSK 40	HSK 50	HSK 63	HSK 100	HSK 125
b1	7.05	8.05	10.54	12.54	20.02	25.02
b2	7	9	12.0	16	20.00	25.0
b3	9	11	14.0	18	22.00	28.0
d1	32	40	50	63	100	125
d2	24	30	38	48	75	95
d4	17	21	26	34	53	67
d6	19	23	29	37	58	73
d10	26	34	42	53	88	111
d12	37	45	59.3	72.3	109.75	134.75
d13	4	4	7	7	7	7
f1	20	20	26	26	29	29
f2	35	35	42	42	45	45
f3	16	16	18	18	20	20
l1	16	20	25	32	50	63
l2	3.2	4	5	6.3	10	12.5
l6	8.92	11.42	14.13	18.13	28.56	36.27

ER MINI COLLET CHUCKS

HSK63A

- HSK63A (DIN 69893)
- MINI Nut ER Collet Chucks
- Slimline Extended Mini Chucks
- ER Collets - Pg. 172
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Nut	Balance
OM30364	HSK63A ER11 MINI	100	ER11 Mini (OM31414)	G2.5 @ 25,000 RPM
OM30796		160		G2.5 @ 25,000 RPM
OM30396	HSK63A ER16 MINI	100	ER16 Mini (OM31415)	G2.5 @ 25,000 RPM
OM31996		160		G2.5 @ 25,000 RPM



ER COLLET CHUCKS

HSK63A

- HSK63A (DIN 69893)
- Standard Nut Collet Chucks
- ER Collets - Pg. 172
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Nut	Balance
OM31500	HSK63A ER16	75	ER16 Hexagon (OM31426)	G6.3 @ 20,000 RPM
OM31501		100		G6.3 @ 20,000 RPM
OM31987		160		G6.3 @ 20,000 RPM
OM30374		200		G6.3 @ 20,000 RPM
OM31502	HSK63A ER25	75	ER25 Castellated (OM31421)	G6.3 @ 20,000 RPM
OM31503		100		G6.3 @ 20,000 RPM
OM31988		160		G6.3 @ 20,000 RPM
OM30375		200		G6.3 @ 20,000 RPM
OM31504	HSK63A ER32	75	ER32 Castellated (OM31422)	G6.3 @ 20,000 RPM
OM31505		100		G6.3 @ 20,000 RPM
OM31989		160		G6.3 @ 20,000 RPM
OM30376		200		G6.3 @ 20,000 RPM
OM30278	HSK63A ER40	80	ER40 Castellated (OM31423)	G6.3 @ 20,000 RPM
OM30769		120		G6.3 @ 20,000 RPM

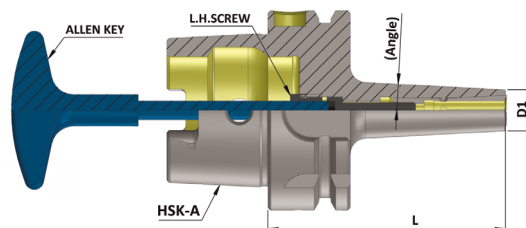


HSK63A

DIE & MOULD COLLET CHUCKS

HSK63A

- HSK63A (DIN69893)
- Drawback Collet Style
- Ultra Precision DMC Slim Collet Chucks
- High Accuracy <0.005mm
- Balanced to G2.5 @ 25,000 RPM
- DMC Collets - Pg. 202
- Hex Keys - Pg. 235



Part Number	Description	Dimensions (mm)			Angle	Collet	Screw	Allen Key
		Clamping Range	D1	L				
OM32367	HSK63A DMC 06	3-6	13	75	3°	DMC 06	M5	4X200
OM32368		3-6	13	95	3°	DMC 06	M5	4X200
OM32369		3-6	13	120	3°	DMC 06	M5	4X200
OM32370		3-6	13	160	3°	DMC 06	M5	4X200
OM32371	HSK63A DMC 08	3-8	22	100	3°	DMC 08	M6	5X200
OM32372		3-8	22	160	3°	DMC 08	M6	5X200
OM32373	HSK63A DMC 10	4-10	28	110	3°	DMC 10	M8	6X200



HYDRAULIC EXPANSION CHUCKS

HSK63A

- HSK63A (DIN69893)
- Ultra Precision Hydraulic Chucks
- High Accuracy <0.005mm
- Balanced to G2.5 @ 25,000 RPM
- Spares - Pg. 232
- Reduction Sleeves- Pg.203

Figure 1

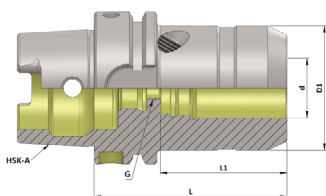
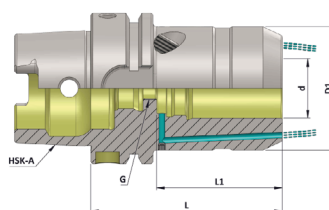


Figure 2

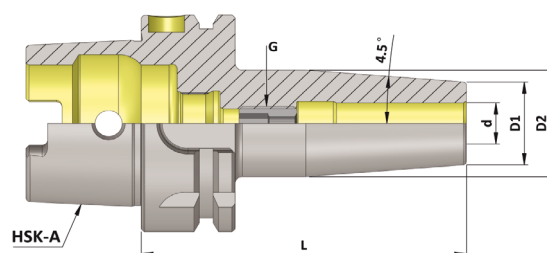


Part Number	Description	Dimensions (mm)					Fig.
		d	D1	G	L	L1	
OM32206	HSK63A HC12S	12	42	M10	80	40	Fig. 1
OM32208		12	42	M10	80	40	Fig. 2
OM32207	HSK63A HC20S	20	50	M16	80	42	Fig. 1
OM32209		20	50	M16	80	42	Fig. 2

SHRINK FIT HOLDERS

HSK63A

- HSK63A (DIN 69893)
- Superior Clamping Strength & Rigidity
- Form AD/B
- 4.5 Degree
- Balanced G2.5 @ 25,000RPM



Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM30901	HSK63A SF 03	3mm	10	20	-	80
OM30902			10	20	-	120
OM30903			10	20	-	160
OM30848	HSK63A SF 04	4mm	15	22	-	80
OM30904			15	22	-	120
OM30905			15	22	-	160
OM30906	HSK63A SF 05	5mm	15	22	-	80
OM30907			15	22	-	120
OM30908			15	22	-	160
OM30849	HSK63A SF 06	6mm	21	27	M5	80
OM30850			21	27	M5	120
OM30851			21	27	M5	160
OM30852	HSK63A SF 08	8mm	21	27	M6	80
OM30853			21	27	M6	120
OM30854			21	27	M6	160
OM30855	HSK63A SF 10	10mm	24	31	M8	85
OM30856			24	31	M8	120
OM30857			24	31	M8	160
OM30858	HSK63A SF 12	12mm	24	31	M10	90
OM30859			24	31	M10	120
OM30860			24	31	M10	160
OM30909	HSK63A SF 14	14mm	27	34	M10	90
OM30910			27	34	M10	120
OM30911			27	34	M10	160
OM30861	HSK63A SF 16	16mm	27	34	M12	95
OM30862			27	34	M12	120
OM30863			27	34	M12	160
OM30912	HSK63A SF 18	18mm	33	40	M12	95
OM30913			33	40	M12	120
OM30914			33	40	M12	160
OM30864	HSK63A SF 20	20mm	33	40	M16	100
OM30865			33	40	M16	120
OM30866			33	40	M16	160
OM30867	HSK63A SF 25	25mm	44	44	M16	115
OM30868			44	44	M16	160
OM30869	HSK63A SF 32	32mm	44	44	M16	120
OM30870			44	44	M16	160



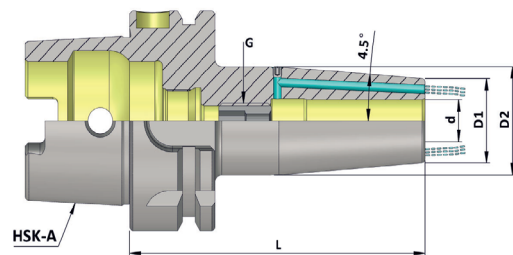
HSK63A

123

SHRINK FIT HOLDERS WITH FRONT FACE COOLANT NEW

HSK63A

- HSK63A (DIN 69893)
- Superior Clamping Strength & Rigidity
- 4.5 Degree
- Balanced G2.5 @ 25,000RPM
- Front Coolant Channels



Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM37012	HSK63A SF03 FCC	3mm	10	20	-	80
OM37013			10	20	-	120
OM37014			10	20	-	160
OM37015	HSK63A SF04 FCC	4mm	15	22	-	80
OM37016			15	22	-	120
OM37017			15	22	-	160
OM37018	HSK63A SF05 FCC	5mm	15	22	-	80
OM37019			15	22	-	120
OM37020			15	22	-	160
OM37021	HSK63A SF06 FCC	6mm	21	27	M5	80
OM37022			21	27	M5	120
OM37023			21	27	M5	160
OM37024	HSK63A SF08 FCC	8mm	21	27	M6	80
OM37025			21	27	M6	120
OM37026			21	27	M6	160
OM37027	HSK63A SF10 FCC	10mm	24	31	M8	85
OM37028			24	31	M8	120
OM37029			24	31	M8	160
OM37030	HSK63A SF12 FCC	12mm	24	31	M10	90
OM37031			24	31	M10	120
OM37032			24	31	M10	160
OM37033	HSK63A SF14 FCC	14mm	27	34	M10	90
OM37034			27	34	M10	120
OM37035			27	34	M10	160
OM37036	HSK63A SF16 FCC	16mm	27	34	M12	95
OM37037			27	34	M12	120
OM37038			27	34	M12	160
OM37039	HSK63A SF18 FCC	18mm	33	40	M12	95
OM37040			33	40	M12	120
OM37041			33	40	M12	160
OM37042	HSK63A SF20 FCC	20mm	33	40	M16	100
OM37043			33	40	M16	120
OM37044			33	40	M16	160
OM37045	HSK63A SF25 FCC	25mm	44	53	M16	115
OM37046			44	53	M16	120
OM37047			44	53	M16	160
OM37048	HSK63A SF32 FCC	32mm	44	53	M16	120
OM37049			44	53	M16	160

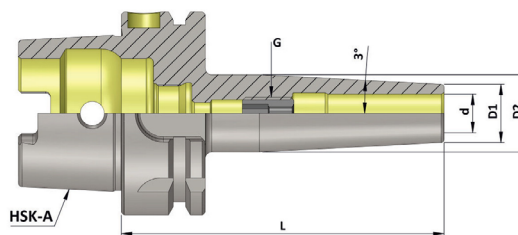


HSK63A

SLIM SHRINK FIT CHUCKS **NEW**

HSK63A

- HSK63A (DIN 69893)
- Superior Clamping Strength & Rigidity
- Form AD/B
- 3 Degree
- Balanced G2.5 @ 25,000RPM



Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM37050	HSK63A SF03 SLIM	3mm	9	14	-	80
OM37051			9	18	-	120
OM37052			9	19	-	160
OM37053	HSK63A SF04 SLIM	4mm	10	15	-	80
OM37054			10	19	-	120
OM37055			10	23	-	160
OM37056	HSK63A SF05 SLIM	5mm	11	16	-	80
OM37057			11	20	-	120
OM37058			11	24	-	160
OM37059	HSK63A SF06 SLIM	6mm	12	17	M5	80
OM37060			12	21	M5	120
OM37061			12	25	M5	160
OM37062	HSK63A SF08 SLIM	8mm	14	19	M6	80
OM37063			14	23	M6	120
OM37064			14	27	M6	160
OM37065	HSK63A SF10 SLIM	10mm	16	21.5	M8	85
OM37066			16	25	M8	120
OM37067			16	29	M8	160
OM37068	HSK63A SF12 SLIM	12mm	18	24	M10	90
OM37069			18	27	M10	120
OM37070			18	31	M10	160
OM37071	HSK63A SF14 SLIM	14mm	20	26	M10	90
OM37072			20	29	M10	120
OM37073			20	32	M10	160
OM37074	HSK63A SF16 SLIM	16mm	22	28	M12	95
OM37075			22	31	M12	120
OM37076			22	34	M12	160
OM37077	HSK63A SF18 SLIM	18mm	24	30	M12	95
OM37078			24	33	M12	120
OM37079			24	36	M12	160
OM37080	HSK63A SF20 SLIM	20mm	26	32	M16	100
OM37081			26	35	M16	120
OM37082			26	38	M16	160

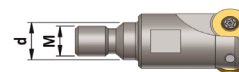
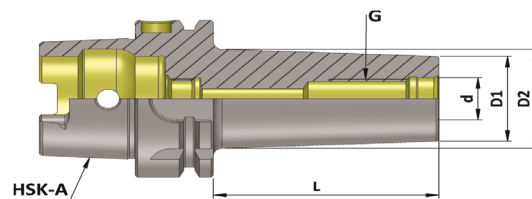


HSK63A

MILLING CUTTER ARBORS

HSK63A

- HSK63A (DIN69893)
- Arbors for Screw Type Modular Milling Cutters
- Balanced to G2.5 @ 25,000RPM



SCREW-TYPE
MODULAR MILLING CUTTER

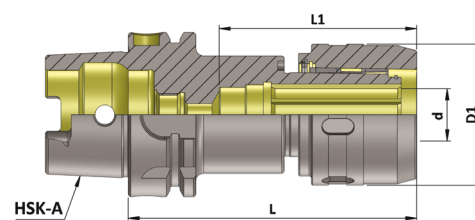


Part Number	Description	Dimensions (mm)				
		d	D1	D2	G	L
OM30984	HSK63A MCA 06	6.5	10	13	M6	25
OM30985	HSK63A MCA 08	8.5	13	15	M8	25
OM30986		8.5	13	23		50
OM30987		8.5	13	23		75
OM30988		8.5	13	23		100
OM30989		10.5	18	20		M10
OM30990	10.5	18	23	50		
OM30991	HSK63A MCA 10	10.5	18	28	75	
OM30992	10.5	18	32	100		
OM30993	10.5	18	36.5	150		
OM30994	HSK63A MCA 12	12.5	21	24	M12	25
OM30995		12.5	21	24		50
OM30996		12.5	21	31		75
OM30997		12.5	21	33		100
OM30998		12.5	21	40		150
OM30776	HSK63A MCA 16	17	29	29	M16	25
OM30777		17	29	34		50
OM30778		17	29	34		75
OM30779		17	29	36		100
OM30780		17	29	42.5		150

POWER MILLING CHUCKS

HSK63A

- HSK63A (DIN69893)
- High Accuracy <0.005mm
- Power Milling Chucks are subjected to sub-zero treatment (-90° C). This helps prevent any deformation, increasing tool life
- Balanced G6.3 @ 20,000 RPM
- [Straight Collets - Pg. 203](#)
- [Spares - Pg. 232](#)



Part Number	Description	Dimensions (mm)			
		d	D1	L	L1
OM31196	HSK63A UPMC 20	20	54	105	70
OM31197	HSK63A UPMC 32	32	72	130	100



END MILL HOLDERS

HSK63A

- HSK63A (DIN 69893)
- For mounting straight shank tools with weldon flat
- Balanced G6.3 @ 20,000 RPM
- Spare Clamp Screws Pg. 236



Part Number	Description	Bore Size	Gauge Length (mm)
OM30751	HSK63A S/L 06	6mm	65
OM30753			100
OM30755			160
OM30752	HSK63A S/L 08	8mm	65
OM30754			100
OM30756			160
OM31506	HSK63A S/L 10	10mm	65
OM31991			100
OM30377			160
OM31507	HSK63A S/L 12	12mm	80
OM31992			100
OM30378			160
OM31508	HSK63A S/L 16	16mm	80
OM31993			100
OM30379			160
OM31509	HSK63A S/L 20	20mm	80
OM31994			100
OM30380			160
OM31510	HSK63A S/L 25	25mm	110
OM30381			160
OM31995	HSK63A S/L 32	32mm	110
OM30382			160
OM30365	HSK63A S/L 40	40mm	125
OM30383			160



HSK63A

STANDARD FACE MILL HOLDERS

HSK63A

- HSK63A (DIN 69893)
- For Mounting Face Mill Cutters
- Balanced G2.5 @ 20,000 RPM



Part Number	Description	Spigot Size	Gauge Length (mm)
OM31511	HSK63A FMB 16	16mm	50
OM30384			100
OM30385			160
OM31512	HSK63A FMB 22	22mm	50
OM30386			100
OM30387			160
OM31513	HSK63A FMB 27	27mm	60
OM30388			100
OM30389			160
OM31514	HSK63A FMB 32	32mm	60
OM30390			100
OM30391			160
OM30392	HSK63A FMB 40	40mm	60
OM30393			100
OM30394			160



THROUGH COOLANT FACE MILL ARBORS

HSK63A (DIN 69893)

- For Mounting Face Mill Cutters
- With Front Face Coolant Channels
- Balanced G2.5 @ 20,000 RPM



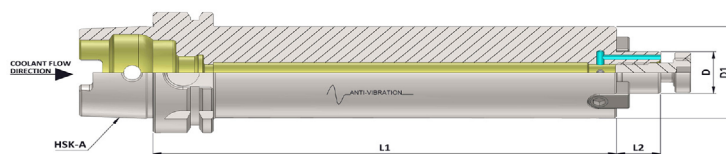
Part Number	Description	Spigot Size	Gauge Length (mm)
OM34482	HSK63A FMB 16	16mm	45
OM34483			100
OM34484			160
OM34485	HSK63A FMB 22	22mm	50
OM34486			100
OM34487			160
OM34488	HSK63A FMB 27	27mm	55
OM34489			100
OM34490			160
OM34491	HSK63A FMB 32	32mm	60
OM34492			100
OM34493			160



ANTI-VIBRATION FACE MILL ARBORS **NEW**

HSK63A

- HSK63A (DIN 69893)
- For Mounting Face Mill Cutters
- With Front Face Coolant Channels
- Damped tool holders for long reach applications



Part Number	Description	Spigot Size (D)	D1	Gauge Length (L2)	L2
OM33780	HSK63A FMB AV 16	16mm	38	200	17
OM36481				250	
OM33781				300	
OM33782	HSK63A FMB AV 22	22mm	48	200	19
OM36482				250	
OM33783				300	
OM33784	HSK63A FMB AV 27	27mm	58	200	21
OM36483				250	
OM36484				300	

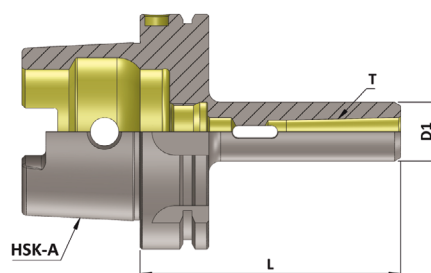


HSK63A

MORSE TAPER ADAPTORS

HSK63A

- HSK63A (DIN 69893)
- For Tools with Morse Taper Shank & Tang
- Balanced G6.3 @ 20,000 RPM



Part Number	Description	D1	L
OM33495	HSK63A MTA 1	25	100
OM33496	HSK63A MTA 2	32	115
OM33497	HSK63A MTA 3	40	135
OM33498	HSK63A MTA 4	48	160



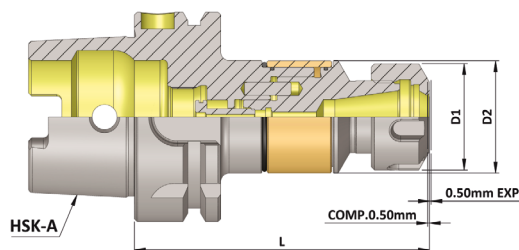
MLC SYNCHRO TAPPING CHUCKS

HSK63A

- HSK63A (DIN69893)
- Minimum Length Compensation Tapping Chucks
- +/-0.5mm Compression & Expansion
- High Concentricity Enables High Speed Tapping
- Recommended for use with QCTC Type Collets
- QCTC Collets - Pg. 204
- Spares - Pg. 232



Part Number	Description	Capacity	Clamping Range (mm)	Collet Nut	Dimensions (mm)				
					D1	D2	L	Comp.	Exp.
OM32472	HSK63A ER16 MLC	M3-M12	1-10	ER16	32	34	89	0.5	0.5
OM32473	HSK63A ER20 MLC	M3-M16	3.5-10	ER20	35	34	90	0.5	0.5
OM32474	HSK63A ER25 MLC	M3-M20	3.5-16	ER25	42	34	94	0.5	0.5
OM32475	HSK63A ER32 MLC	M4-M27	3.5-20	ER32	50	45	105	0.5	0.5
OM32476	HSK63A ER40 MLC	M6-M33	6-26	ER40	63	62	133.5	0.5	0.5



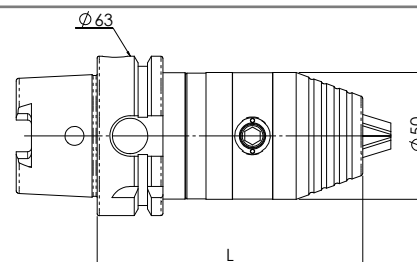
HEX KEY PREMIUM DRILL CHUCKS

HSK63A

- Premium Drill Chuck
- Strong Clamping Force in both clockwise & anti-clockwise operations
- Increased wear-resistance with TIN Coated Jaws
- Spare Hex Key - Pg. 235



Part Number	Description	Capacity (mm)	L
OM33666	HSK63A GHK 13-105	0.3-13	105
OM33667	HSK63A GHK 16-110	1.5-16	110



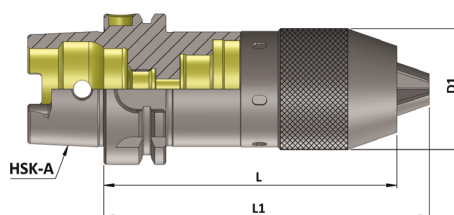
NCDC DRILL CHUCKS

HSK63A

- HSK63A (DIN 69893)
- High Accuracy Drill Chuck, <0.05mm
- NCDC Spanner - Pg. 235



Part Number	Description	Dimensions (mm)			
		Capacity	D1	L	L1
OM33657	HSK63A NCDC 1-13mm	1-13mm	50	122.5	135



TEST ARBORS

HSK63A

- HSK63A (DIN 69893)
- Master Mandrel



Part Number	Description	Diameter (mm)	Gauge Length (mm)
OM33747	HSK63A Test Arbor	40	300



HSK63A

MACHINEABLE BORING BAR BLANK

HSK63A

- HSK63A (DIN 69893)
- Machinable Boring Bar Blank



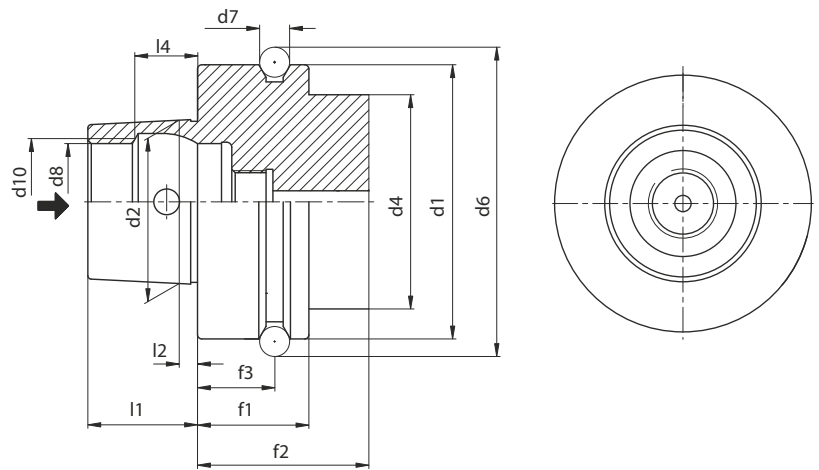
Part Number	Description	Diameter (mm)	Gauge Length (mm)
OM34683	HSK63A BLANK 63 250	63	250
OM34684	HSK63A BLANK 80 250	80	250



HSK63F

HSK63F (DIN69893F) TECHNICAL SPECIFICATION

	HSK 50	HSK 63
d1	50	63
d2	30	38
d4	42	53
d6	59.3	72.3
d7	7	7
d8	21	26
d10	23	29
f1	26	26
f2	42	42
f3	18	18
l1	20	25
l2	4	5
l4	11.42	14.13



HSK63F

ER COLLET CHUCKS

HSK63F

- HSK63F (DIN 69893F)
- Standard Nut Collet Chucks
- ER Collets - Pg. 172
- Spares - Pg. 232



Part Number	Description	Gauge Length (mm)	Nut	Balance
OM31974	HSK63F ER16	60	ER16 Hexagon (OM31426)	G2.5 @ 25,000 RPM
OM31515		100		G2.5 @ 25,000 RPM
OM31516		160		G2.5 @ 25,000 RPM
OM31975	HSK63F ER25	75	ER25 Castellated (OM31421)	G2.5 @ 25,000 RPM
OM31519		100		G2.5 @ 25,000 RPM
OM31520		160		G2.5 @ 25,000 RPM
OM31976	HSK63F ER32	75	ER32 Castellated (OM31422)	G2.5 @ 25,000 RPM
OM31521		100		G2.5 @ 25,000 RPM
OM31522		160		G2.5 @ 25,000 RPM



HSK63F

THROUGH COOLANT FACE MILL ARBORS

HSK63F

- HSK63F (DIN 69893F)
- For Mounting Face Mill Cutters
- With Front Face Coolant Channels
- Balanced G2.5 @ 25,000 RPM

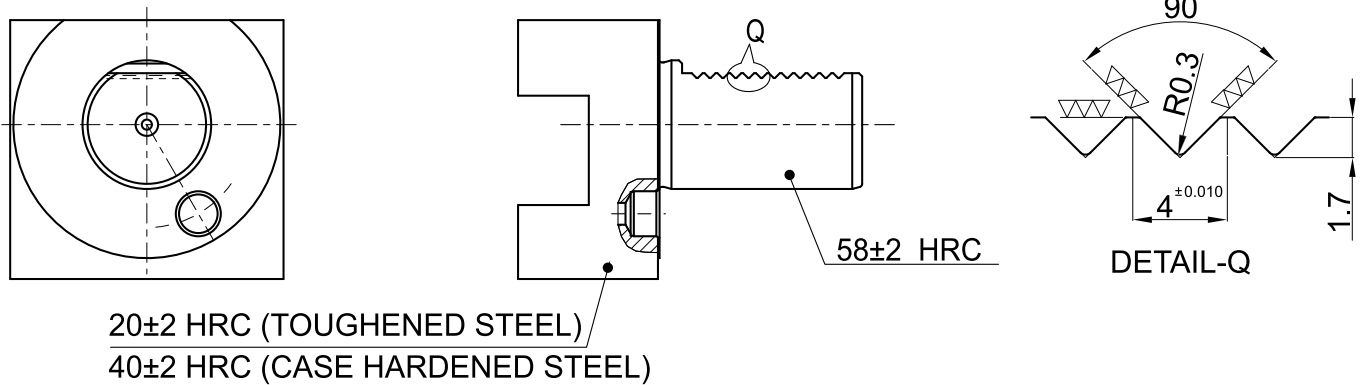


Part Number	Description	Spigot Size (mm)	Gauge Length (mm)
OM34691	HSK63F FMB K16	16	45
OM34692	HSK63F FMB K22	22	50
OM34693	HSK63F FMB K27	27	55



VDI (DIN69880)

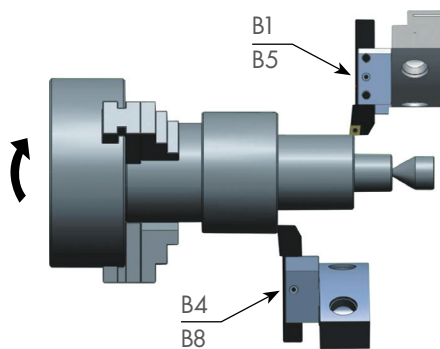
VDI (DIN69880) TECHNICAL SPECIFICATION



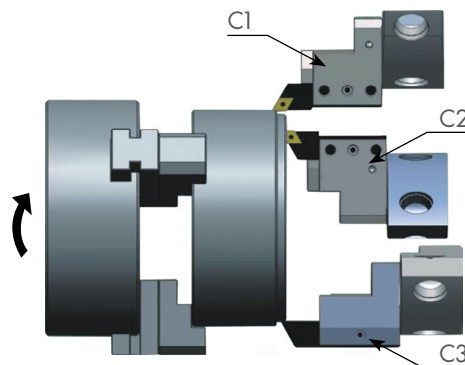
20±2 HRC (TOUGHENED STEEL)
40±2 HRC (CASE HARDENED STEEL)

03869N(C) IDA

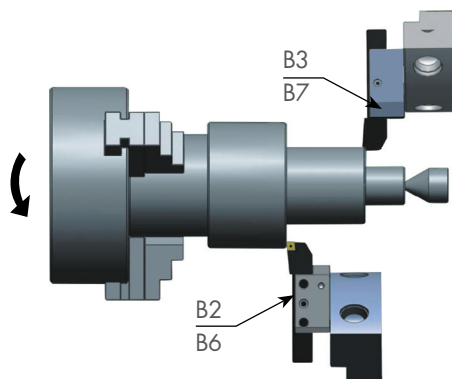
- VDI tool holders are manufactured to DIN69880 standard
- Form A, B, C, D, E1, E2 & Z holders are manufactured with toughened steel C-45
- Form E4 & F holders are manufactured with case hardened steel 20MnCr5
- All standard tool holders are fully blackened
- Tool holder shanks are heat treated to 58HRC and the teeth ground



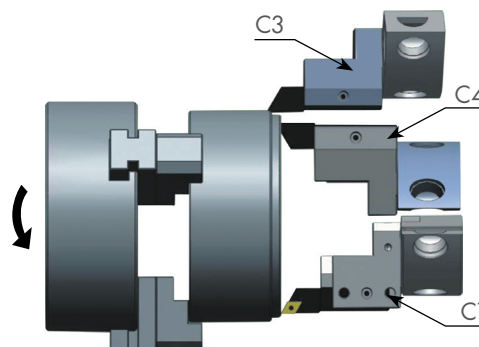
Spindle Rotation - Clockwise
application of OD Turn & Face



Spindle Rotation - Clockwise
application of Face & ID Bore



Spindle Rotation - Anticlockwise
application of OD Turn & Face



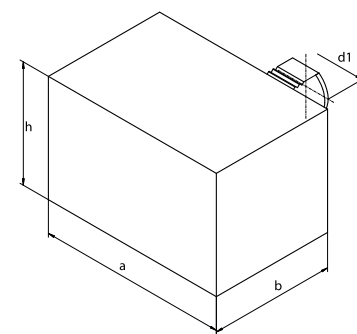
Spindle Rotation - Anticlockwise
application of Face & ID Bore

VDI A1 MACHINABLE TOOL BLANK

- VDI - DIN 69880 (ISO 10889)
- Rectangular Form



Part Number	Description	Dimensions (mm)			
		d1	a	b	h
OM33298	VDI16 A1 - 44 x 78 x 44	16	78	44	44
OM33210	VDI20 A1 - 65 x 100 x 60	20	100	65	60
OM33299	VDI25 A1 - 75 x 100 x 60	25	100	75	60
OM33211	VDI30 A1 - 85 x 130 x 60	30	130	85	60
OM33212	VDI40 A1 - 100 x 151 x 96	40	151	100	96
OM33213	VDI50 A1 - 125 x 160 x 120	50	160	125	120
OM33300	VDI60 A1 - 160 x 165 x 125	60	165	160	125

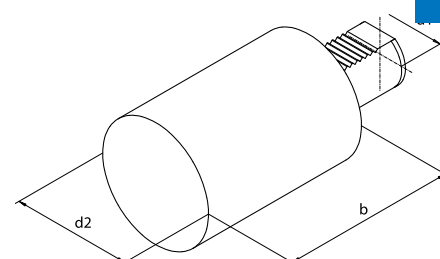


VDI A2 MACHINEABLE TOOL BLANK

- VDI - DIN 69880 (ISO 10889)
- Cylindrical Form



Part Number	Description	Dimensions (mm)		
		d1	b	d2
OM33301	VDI16 A2 - 40 x 60	16	60	40
OM33214	VDI20 A2 - 50 x 70	20	70	50
OM33302	VDI25 A2 - 58 x 80	25	80	58
OM33215	VDI30 A2 - 68 x 100	30	100	68
OM33216	VDI40 A2 - 83 x 120	40	120	83
OM33217	VDI50 A2 - 98 x 135	50	135	98
OM33303	VDI60 A2 - 123 x 150	60	150	123



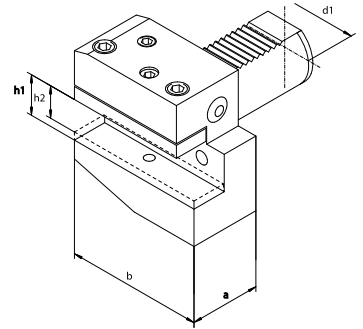
VDI
(DIN69880)

VDI B1 RADIAL HOLDERS, RIGHT HAND, SHORT

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33304	VDI16 B1 - 12 x 24	16	24	42	12	10
OM33100	VDI20 B1 - 16 x 30	20	30	55	16	12
OM33305	VDI25 B1 - 16 x 30	25	30	55	16	12
OM33101	VDI30 B1 - 20 x 40	30	40	70	20	16
OM33102	VDI40 B1 - 25 x 44	40	44	85	25	20
OM33103	VDI50 B1 - 32 x 55	50	55	100	32	25
OM33306	VDI60 B1 - 32 x 60	60	60	125	32	25



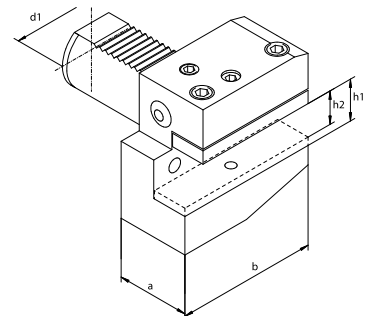
108869N1C1 / IDA

VDI B2 RADIAL HOLDERS, LEFT HAND, SHORT

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33307	VDI16 B2 - 12 x 24	16	24	42	12	10
OM33104	VDI20 B2 - 16 x 30	20	30	55	16	12
OM33308	VDI25 B2 - 16 x 30	25	30	55	16	12
OM33105	VDI30 B2 - 20 x 40	30	40	70	20	16
OM33106	VDI40 B2 - 25 x 44	40	44	85	25	20
OM33107	VDI50 B2 - 32 x 55	50	55	100	32	25
OM33309	VDI60 B2 - 32 x 60	60	60	125	32	25



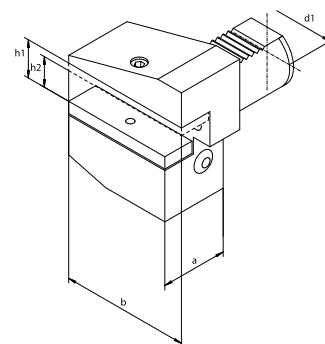
VDI B3

RADIAL OVERHEAD HOLDERS, RIGHT HAND, SHORT

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33310	VDI16 B3 - 12 x 24	16	24	42	12	10
OM33108	VDI20 B3 - 16 x 30	20	30	55	16	12
OM33311	VDI25 B3 - 16 x 30	25	30	55	16	12
OM33109	VDI30 B3 - 20 x 40	30	40	70	20	16
OM33110	VDI40 B3 - 25 x 44	40	44	85	25	20
OM33111	VDI50 B3 - 32 x 55	50	55	100	32	25
OM33312	VDI60 B3 - 32 x 60	60	60	125	32	25



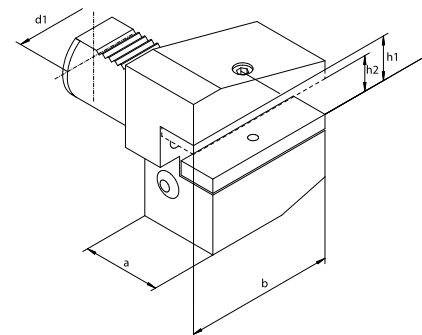
VDI B4

RADIAL OVERHEAD HOLDERS, LEFT HAND, SHORT

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33313	VDI16 B4 - 12 x 24	16	24	42	12	10
OM33112	VDI20 B4 - 16 x 30	20	30	55	16	12
OM33314	VDI25 B4 - 16 x 30	25	30	55	16	12
OM33113	VDI30 B4 - 20 x 40	30	40	70	20	16
OM33114	VDI40 B4 - 25 x 44	40	44	85	25	20
OM33115	VDI50 B4 - 32 x 55	50	55	100	32	25
OM33315	VDI60 B4 - 32 x 60	60	60	125	32	25



VDI
(DIN69880)

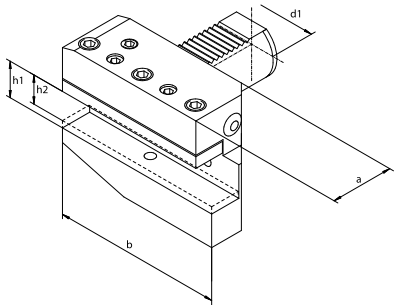
VDI B5

RADIAL HOLDERS, RIGHT HAND HAND, LONG

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33316	VDI16 B5 - 12 x 24	16	24	58	12	10
OM33116	VDI20 B5 - 16 x 30	20	30	75	16	12
OM33317	VDI25 B5 - 16 x 30	25	30	75	16	12
OM33117	VDI30 B5 - 20 x 40	30	40	100	20	16
OM33118	VDI40 B5 - 25 x 44	40	44	118	25	20
OM33119	VDI50 B5 - 32 x 55	50	55	130	32	25
OM33318	VDI60 B5 - 32 x 60	60	60	145	32	25



018869N(C) IDA

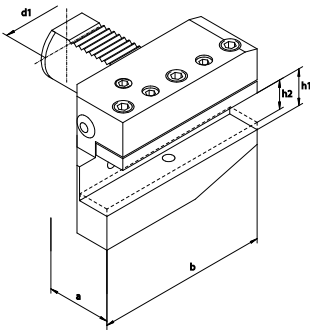
VDI B6

RADIAL HOLDERS, LEFT HAND HAND, LONG

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33319	VDI16 B6 - 12 x 24	16	24	58	12	10
OM33120	VDI20 B6 - 16 x 30	20	30	75	16	12
OM33320	VDI25 B6 - 16 x 30	25	30	75	16	12
OM33121	VDI30 B6 - 20 x 40	30	40	100	20	16
OM33122	VDI40 B6 - 25 x 44	40	44	118	25	20
OM33123	VDI50 B6 - 32 x 55	50	55	130	32	25
OM33321	VDI60 B6 - 32 x 60	60	60	145	32	25



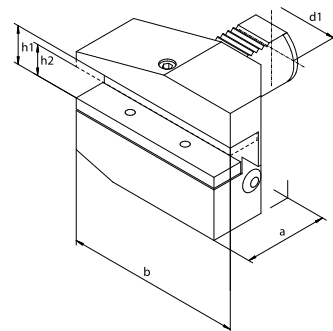
VDI B7

RADIAL OVERHEAD HOLDERS, RIGHT HAND HAND, LONG

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33322	VDI16 B7 - 12 x 24	16	24	58	12	10
OM33124	VDI20 B7 - 16 x 30	20	30	75	16	12
OM33323	VDI25 B7 - 16 x 30	25	30	75	16	12
OM33125	VDI30 B7 - 20 x 40	30	40	100	20	16
OM33126	VDI40 B7 - 25 x 44	40	44	118	25	20
OM33127	VDI50 B7 - 32 x 55	50	55	130	32	25
OM33324	VDI60 B7 - 32 x 60	60	60	145	32	25



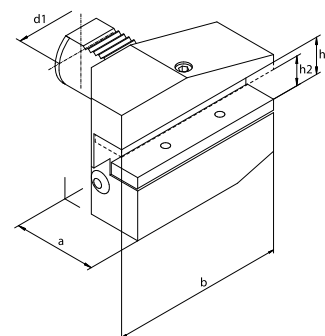
VDI B8

RADIAL OVERHEAD HOLDERS, LEFT HAND HAND, LONG

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33325	VDI16 B8 - 12 x 24	16	24	58	12	10
OM33128	VDI20 B8 - 16 x 30	20	30	75	16	12
OM33326	VDI25 B8 - 16 x 30	25	30	75	16	12
OM33129	VDI30 B8 - 20 x 40	30	40	100	20	16
OM33130	VDI40 B8 - 25 x 44	40	44	118	25	20
OM33131	VDI50 B8 - 32 x 55	50	55	130	32	25
OM33327	VDI60 B8 - 32 x 60	60	60	145	32	25



VDI

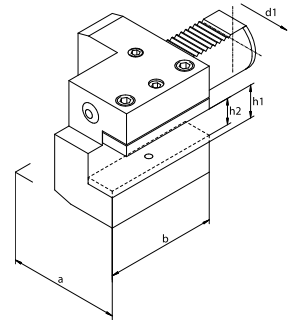
(DIN 69880)

VDI C1 AXIAL HOLDERS, RIGHT HAND

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33328	VDI16 C1 - 12 x 44	16	43	44	12	10
OM33132	VDI20 C1 - 16 x 55	20	52	55	16	12
OM33329	VDI25 C1 - 16 x 55	25	58	55	16	12
OM33133	VDI30 C1 - 20 x 70	30	70	70	20	16
OM33134	VDI40 C1 - 25 x 85	40	85	85	25	20
OM33135	VDI50 C1 - 32 x 100	50	100	100	32	25
OM33330	VDI60 C1 - 32 x 125	60	125	125	32	25



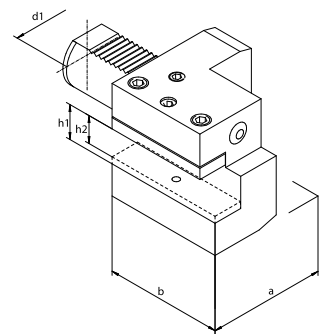
108869N(C1)
IDA

VDI C2 AXIAL HOLDERS, LEFT HAND

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33331	VDI16 C2 - 12 x 44	16	43	44	12	10
OM33136	VDI20 C2 - 16 x 55	20	57	55	16	12
OM33332	VDI25 C2 - 16 x 55	25	58	55	16	12
OM33137	VDI30 C2 - 20 x 70	30	76	70	20	16
OM33138	VDI40 C2 - 25 x 85	40	90	85	25	20
OM33139	VDI50 C2 - 32 x 100	50	105	100	32	25
OM33333	VDI60 C2 - 32 x 125	60	125	125	32	25

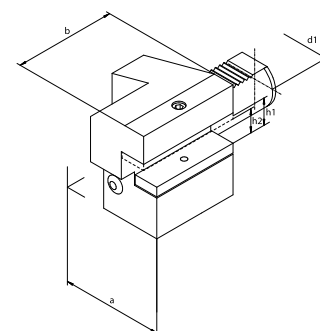


VDI C3 AXIAL OVERHEAD HOLDERS, RIGHT HAND

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33334	VDI16 C3 - 12 x 44	16	43	44	12	10
OM33140	VDI20 C3 - 16 x 55	20	52	55	16	12
OM33335	VDI25 C3 - 16 x 55	25	58	55	16	12
OM33141	VDI30 C3 - 20 x 70	30	70	70	20	16
OM33142	VDI40 C3 - 25 x 85	40	85	85	25	20
OM33143	VDI50 C3 - 32 x 100	50	100	100	32	25
OM33336	VDI60 C3 - 32 x 125	60	125	125	32	25



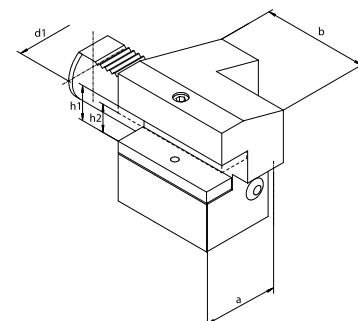
VDI
(DIN69880)

VDI C4 AXIAL OVERHEAD HOLDERS, LEFT HAND

- VDI - DIN 69880 (ISO 10889)
- For Square Shank Tools



Part Number	Description	Dimensions (mm)				
		d1	a	b	h1	h2
OM33337	VDI16 C4 - 12 x 44	16	43	44	12	10
OM33144	VDI20 C4 - 16 x 55	20	57	55	16	12
OM33338	VDI25 C4 - 16 x 55	25	58	55	16	12
OM33145	VDI30 C4 - 20 x 70	30	76	70	20	16
OM33146	VDI40 C4 - 25 x 85	40	90	85	25	20
OM33147	VDI50 C4 - 32 x 100	50	105	100	32	25
OM33339	VDI60 C4 - 32 x 125	60	125	125	32	25

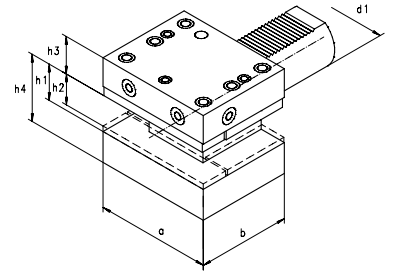


VDI D1 MULTIPLE SQUARE SEAT HOLDERS

- VDI - DIN 69880 (ISO 10889)



Part Number	Description	Dimensions (mm)						
		d1	a	b	h1	h2	h3	h4
OM33340	VDI25 D1 - 16 x 48	25	66	48	16	12	25	30
OM33240	VDI30 D1 - 20 x 60	30	76	60	20	16	28	38
OM33241	VDI40 D1 - 25 x 72	40	90	72	25	20	32.5	48
OM33242	VDI50 D1 - 32 x 85	50	105	85	32	25	35	60
OM33341	VDI60 D1 - 32 x 110	60	115	110	32	25	42.5	62.5



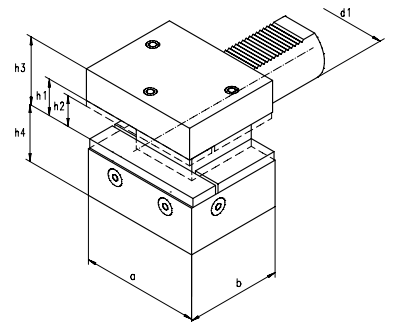
018869N(D)
IDA

VDI D2 MULTIPLE SQUARE SEAT HOLDERS

- VDI - DIN 69880 (ISO 10889)

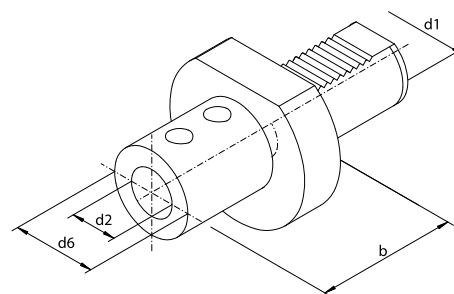


Part Number	Description	Dimensions (mm)						
		d1	a	b	h1	h2	h3	h4
OM33342	VDI25 D2 - 16 x 48	25	66	48	16	12	30	25
OM33243	VDI30 D2 - 20 x 60	30	76	60	20	16	38	35
OM33244	VDI40 D2 - 25 x 72	40	90	72	25	20	48	42.5
OM33245	VDI50 D2 - 32 x 85	50	105	85	32	25	60	50
OM33343	VDI60 D2 - 32 x 110	60	115	110	32	25	62.5	62.5



VDI E1 INDEXABLE DRILL HOLDER

- VDI - DIN 69880 (ISO 10889)
- For Clamping Indexable Drills



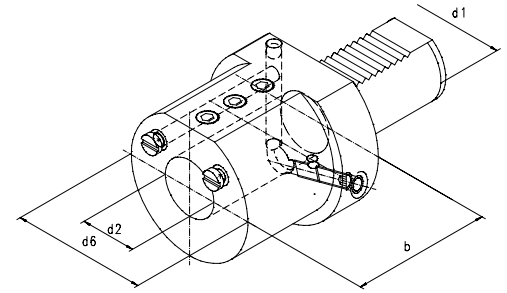
Part Number	Description	Dimensions (mm)			
		d1	d2	d6	b
OM33148	VDI20 E1	20	20	40	67
OM33149			25	45	71
OM33344	VDI25 E1	25	20	40	67
OM33345			25	45	71
OM33150	VDI30 E1	30	20	40	67
OM33151			25	45	71
OM33152			32	52	75
OM33153	VDI40 E1	40	20	40	67
OM33154			25	45	75
OM33155			32	52	75
OM33156			40	65	90
OM33157	VDI50 E1	50	20	40	67
OM33158			25	45	80
OM33159			32	52	80
OM33160			40	65	90
OM33161			50	75	100
OM33346	VDI60 E1	60	20	40	80
OM33347			25	45	80
OM33348			32	52	80
OM33349			40	65	90
OM33350			50	75	100



VDI
(DIN 69880)

VDI E2 BORING BAR HOLDER

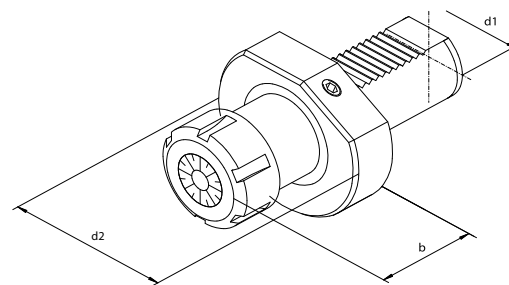
- VDI - DIN 69880 (ISO 10889)
- For clamping Boring Bars



Part Number	Description	Dimensions (mm)			
		d1	d2	d6	b
OM33351	VDI16 E2	16	6	40	44
OM33352			8	40	44
OM33353			10	40	44
OM33354			12	40	44
OM33355			16	40	44
OM33162	VDI20 E2	20	8	40	50
OM33163			10	40	50
OM33164			12	40	50
OM33165			16	40	50
OM33166			20	50	50
OM33167		25	50	60	
OM33356	VDI25 E2	25	8	40	50
OM33357			10	40	50
OM33358			12	40	50
OM33359			16	40	50
OM33360			20	58	50
OM33361		25	58	60	
OM33168	VDI30 E2	30	8	55	60
OM33169			10	55	60
OM33170			12	55	60
OM33171			16	55	60
OM33172			20	55	60
OM33173		25	55	60	
OM33174		32	68	75	
OM33175	VDI40 E2	40	8	55	75
OM33176			10	55	75
OM33177			12	55	75
OM33178			16	55	75
OM33179			20	55	75
OM33180		25	55	75	
OM33181		32	83	75	
OM33182		40	83	90	
OM33183	VDI50 E2	50	12	68	90
OM33184			16	68	90
OM33185			20	68	90
OM33186			25	68	90
OM33187			32	68	90
OM33188		40	98	90	
OM33189		50	98	100	
OM33362	VDI60 E2	60	16	68	90
OM33363			20	68	90
OM33364			25	68	90
OM33365			32	68	90
OM33366			40	98	90
OM33367		50	98	100	

VDI E4 ER COLLET CHUCKS

- VDI - DIN 69880 (ISO 10889)
- Standard ER Collet System



Part Number	Description	Collet Size	Dimensions (mm)		
			d1	d2	b
OM33368	VDI16 E4	ER16	16	40	34.5
OM33369		ER20		40	44
OM33429	VDI20 E4	ER16	20	50	44
OM33190		ER25		50	44
OM33191		ER32		50	50
OM33370	VDI25 E4	ER20	25	58	44
OM33371		ER25		58	57
OM33372		ER32		58	62
OM33192	VDI30 E4	ER25	30	68	57
OM33193		ER32		68	62.5
OM33194		ER40		68	70
OM33430	VDI40 E4	ER25	40	83	62
OM33195		ER32		83	62
OM33196		ER40		83	75
OM33431	VDI50 E4	ER32	50	98	75
OM33197		ER40		98	75
OM33373	VDI60 E4	ER32	60	123	75
OM33374		ER40		123	75

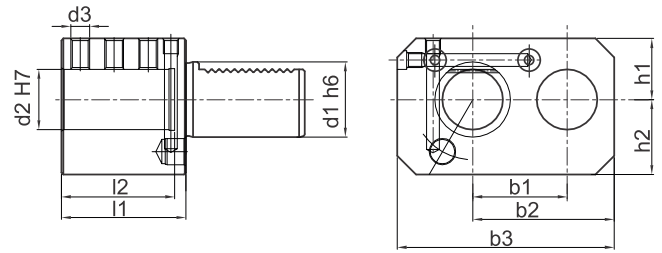


VDI
(DIN 69880)

VDI E7

DOUBLE BORING BAR HOLDER, RIGHT HAND

- VDI - DIN 69880 (ISO 10889)



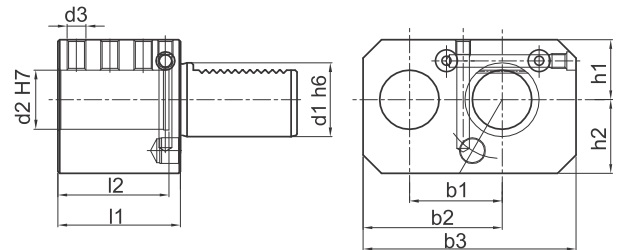
Part Number	Description	Dimensions (mm)									
		d1	d2	h1	h2	l1	l2	b1	b2	b3	d3
OM33218	VDI20 E7	20	16	25	25	45	42	32	51	76	M8
OM33219			20	25	25	45	42	32	51	76	M8
OM33220	VDI30 E7	30	25	28	32	56	52	45	65	95	M8
OM33221			32	28	32	66	60	50	75	110	M8
OM33222	VDI40 E7	40	32	32.5	40	66	60	50	75	115	M10
OM33223			40	32.5	40	90	80	50	75	115	M10
OM33224	VDI50 E7	50	32	32.5	47.5	66	60	50	75	115	M12
OM33225			40	32.5	47.5	90	80	50	75	115	M12
OM33226			50	35	49	115	100	68	103	154	M12

018869N101 IDA

VDI E8

DOUBLE BORING BAR HOLDER, LEFT HAND

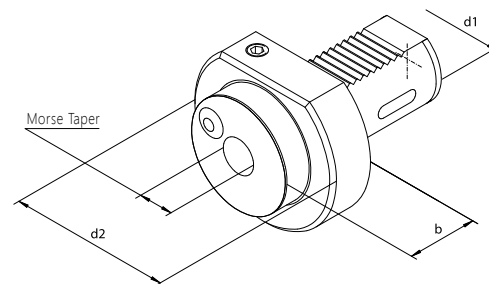
- VDI - DIN 69880 (ISO 10889)



Part Number	Description	Dimensions (mm)									
		d1	d2	h1	h2	l1	l2	b1	b2	b3	d3
OM33227	VDI20 E8	20	16	25	25	45	42	32	51	76	M8
OM33228			20	25	25	45	42	32	51	76	M8
OM33229	VDI30 E8	30	25	28	32	56	52	50	65	95	M8
OM33230			32	28	32	66	60	50	75	110	M8
OM33231	VDI40 E8	40	32	32.5	40	66	60	50	75	115	M10
OM33232			40	32.5	40	90	80	50	75	115	M10
OM33233	VDI50 E8	50	32	32.5	47.5	66	60	50	75	115	M12
OM33234			40	32.5	47.5	90	80	50	75	115	M12
OM33235			50	35	49	115	100	68	103	152	M12

VDI F1 MORSE TAPER SHANK ADAPTOR

- VDI - DIN 69880 (ISO 10889)
- For Tools with Morse Taper Shank

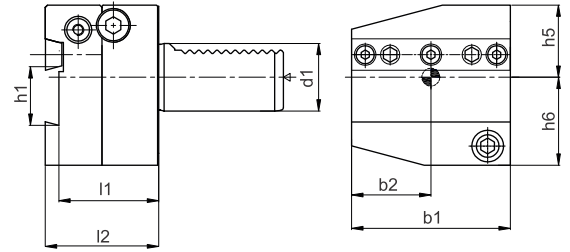


Part Number	Description	Morse Taper	Dimensions (mm)		
			d1	d2	b
OM33375	VDI16 F1	1	16	40	50
OM33376		2		40	87
OM33198	VDI20 F1	1	20	50	23
OM33377		2		50	61
OM33378	VDI25 F1	1	25	58	23
OM33379		2		58	27
OM33199	VDI30 F1	1	30	68	27
OM33200		2		68	27
OM33380		3		68	73
OM33381	VDI40 F1	1	40	83	36
OM33201		2		83	36
OM33202		3		83	36
OM33203		4		83	80
OM33382	VDI50 F1	1	50	98	36
OM33204		2		98	36
OM33205		3		98	36
OM33206		4		98	50
OM33383		5		98	169
OM33384	VDI60 F1	2	60	123	36
OM33385		3		123	36
OM33386		4		123	50
OM33387		5		123	63

VDI
(DIN69880)

VDI AR PART OFF BLADE TOOLHOLDER

- VDI - DIN 69880 (ISO 10889)
- Right Hand

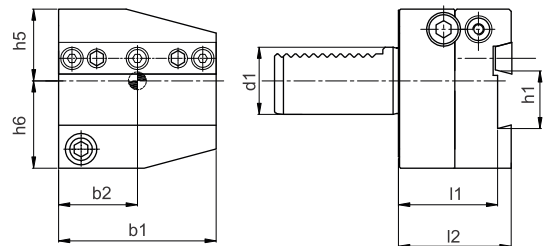


Part Number	Description	Dimensions (mm)							
		d1	b1	b2	h1	h5	h6	l1	l2
OM33392	VDI20 AR 20 x 26	20	60	30	26	28	36	44	50
OM33393	VDI25 AR 25 x 26	25	60	30	26	28	36	44	50
OM33394	VDI30 AR 30 x 26	30	70	35	26	32	39	44	50
OM33395	VDI30 AR 30 x 32	30	70	35	32	32	39	44	50
OM33396	VDI40 AR 40 x 26	40	85	42.5	26	43	41.5	44	50
OM33397	VDI40 AR 40 x 32	40	85	42.5	32	43	41.5	44	50
OM33398	VDI50 AR 50 x 26	50	100	50	26	43	45	44	50
OM33399	VDI50 AR 50 x 32	50	100	50	32	43	45	44	50
OM33400	VDI60 AR 60 x 32	60	125	62.5	32	48	55	44	50

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VDI AL PART OFF BLADE TOOLHOLDER

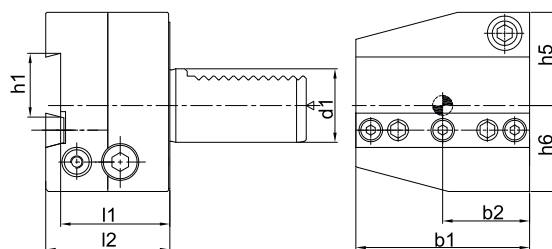
- VDI - DIN 69880 (ISO 10889)
- Left Hand



Part Number	Description	Dimensions (mm)							
		d1	b1	b2	h1	h5	h6	l1	l2
OM33401	VDI20 AL 20 x 26	20	60	30	26	28	36	44	50
OM33402	VDI25 AL 25 x 26	25	60	30	26	28	36	44	50
OM33403	VDI30 AL 30 x 26	30	70	35	26	32	39	44	50
OM33404	VDI30 AL 30 x 32	30	70	35	32	32	39	44	50
OM33405	VDI40 AL 40 x 26	40	85	42.5	26	43	41.5	44	50
OM33406	VDI40 AL 40 x 32	40	85	42.5	32	43	41.5	44	50
OM33407	VDI50 AL 50 x 26	50	100	50	26	43	45	44	50
OM33408	VDI50 AL 50 x 32	50	100	50	32	43	45	44	50
OM33409	VDI60 AL 60 x 32	60	125	62.5	32	48	55	44	50

VDI ARU PART OFF BLADE TOOLHOLDER

- VDI - DIN 69880 (ISO 10889)
- Right Hand, Upside Down

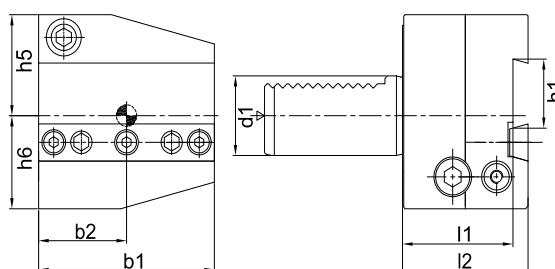


Part Number	Description	Dimensions (mm)							
		d1	b1	b2	h1	h5	h6	l1	l2
OM33410	VDI20 ARU 20 x 26	20	50	30	26	36	28	44	50
OM33411	VDI25 ARU 25 x 26	25	60	30	26	36	28	44	50
OM33412	VDI30 ARU 30 x 26	30	70	35	26	38	35	44	50
OM33413	VDI30 ARU 30 x 32	30	70	35	32	38	35	44	50
OM33414	VDI40 ARU 40 x 26	40	85	42.5	26	43	41.5	44	50
OM33415	VDI40 ARU 40 x 32	40	85	42.5	32	43	41.5	44	50
OM33416	VDI50 ARU 50 x 26	50	100	50	26	43	45	44	50
OM33417	VDI50 ARU 50 x 32	50	100	50	32	43	45	44	50
OM33418	VDI60 ARU 60 x 32	60	125	62.5	32	48	55	44	50



VDI ALU PART OFF BLADE TOOLHOLDER

- VDI - DIN 69880 (ISO 10889)
- Left Hand, Upside Down



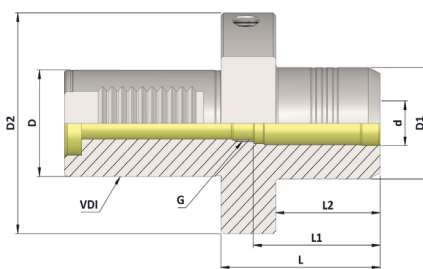
Part Number	Description	Dimensions (mm)							
		d1	b1	b2	h1	h5	h6	l1	l2
OM33419	VDI20 ALU 20 x 26	20	50	30	26	36	28	44	50
OM33420	VDI25 ALU 25 x 26	25	60	30	26	36	28	44	50
OM33421	VDI30 ALU 30 x 26	30	70	35	26	38	35	44	50
OM33422	VDI30 ALU 30 x 32	30	70	35	32	38	35	44	50
OM33423	VDI40 ALU 40 x 26	40	85	42.5	26	43	41.5	44	50
OM33424	VDI40 ALU 40 x 32	40	85	42.5	32	43	41.5	44	50
OM33425	VDI50 ALU 50 x 26	50	100	50	26	43	45	44	50
OM33426	VDI50 ALU 50 x 32	50	100	50	32	43	45	44	50
OM33427	VDI60 ALU 60 x 32	60	125	62.5	32	48	55	44	50



VDI
(DIN 69880)

VDI HC HYDRAULIC EXPANSION CHUCK

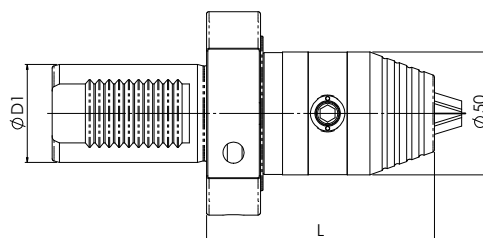
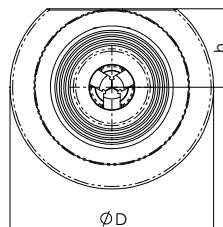
- VDI - DIN 69880 (ISO 10889)
- Ultra Precision Hydraulic Chucks
- High Accuracy <0.003mm
- Spares - Pg. 234



Part Number	Description	Dimensions (mm)								
		VDI	d	D	D1	D2	G	L	L1	L2
OM32210	VDI30 HC20	30	20	30	42	68	M16	64	51	42
OM32211	VDI40 HC20	40	20	40	42	83	M20	64	51	42
OM32212	VDI30 HC32	30	32	30	64	68	-	86	-	64
OM32213	VDI40 HC32	40	32	40	64	83	-	86	-	64

VDI DC HEX KEY DRILL CHUCK

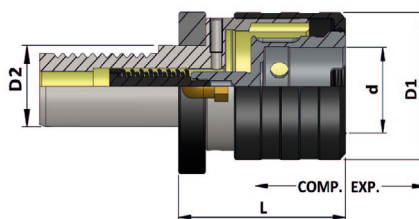
- VDI - DIN 69880 (ISO 10889)
- High Accuracy Premium Drill Chuck
- Strong Clamping Force
- Increased wear-resistance with TIN Coated Jaws
- Spare Hex Key - Pg. 235



Part Number	Description	Capacity (mm)	Dimensions (mm)			
			L	D	h	D1
OM33668	VDI30 GHK 13 93	0.3-13	93	68	28	30
OM33669	VDI40 GHK 13 93	0.3-13	93	83	32	40

VDI QC **NEW** QUICK CHANGE TAPPING CHUCKS

- VDI - DIN 69880 (ISO 10889)
- Axial Length Compensation
- With Tension & Compression
- Quick change tap adaptors available in 3 sizes
- QC Tap Adaptors - Pg. 210

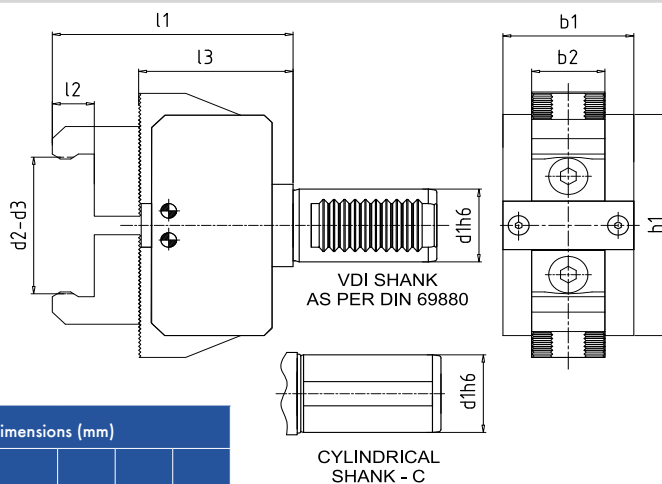


Part Number	Description	Capacity	Size	Dimensions (mm)					
				Comp.	Exp.	d	D1	D2	L
OM36291	VDI30 KWFLK1	M3-M12	Size 1	7.5	7.5	19	36	30	55
OM36292	VDI40 KWFLK1			7.5	7.5	19	36	40	55
OM36293	VDI30 KWFLK2	M8-M20	Size 2	12.5	12.5	31	53	30	76
OM36294	VDI40 KWFLK2			12.5	12.5	31	53	40	76

BAR PULLER

VDI & CYLINDRICAL SHANK

- Spring Tensioned Bar Puller
- Supplied with both Short & Long Jaws
- C = Cylindrical Shank



Part Number	Description	d1	Range		Dimensions (mm)					
			d2-d3 Short Jaws	d2-d3 Long Jaws	b1	b2	h1	l1	l2	l3
OM34032	VDI25 BP25	25	8-60	54-110	50	28	72	84	16	51
OM34036	C25 BP25	25	8-60	54-110	50	28	72	84	16	51
OM34033	VDI30 BP30	30	8-60	54-110	50	28	72	92	16	59
OM34037	C32 BP30	32	8-60	54-110	50	28	72	92	16	59
OM34034	VDI40 BP40	40	8-66	54-110	60	28	110	94	16	61
OM34038	C40 BP40	40	8-66	54-110	60	28	110	94	16	61
OM34035	VDI50 BP50	50	8-75	60-125	65	28	130	114	16	81
OM34039	C50 BP50	50	8-75	60-125	65	28	130	114	16	81

SPARE JAWS FOR BAR PULLER



Part Number	Description
OM34747	Short Jaws For Bar Puller
OM34748	Long Jaws For Bar Puller



VDI
(DIN 69880)

VDI Z2 STEEL & PLASTIC PROTECTION PLUGS

- VDI - DIN 69880 (ISO 10889)



Part Number	VDI (d1)	Material
OM33388	VDI16 Z2	Steel
OM33246	VDI20 Z2	
OM33389	VDI 25 Z2	
OM33247	VDI30 Z2	
OM33248	VDI40 Z2	
OM33249	VDI50 Z2	
OM33390	VDI60 Z2	
OM33391	VDI25 Z2	Plastic
OM33250	VDI30 Z2	
OM33251	VDI40 Z2	
OM33252	VDI50 Z2	



018869N1C1 / IDA

VDI SPARES

VDI Clamp Plates



Part Number	Specification	Clamp Plate Suits
OM32009	CP16-36x10x4	VDI16 B1-B4, C1-C4
OM32010	CP20-47x13x5	VDI20 B1-B4, C1-C4
OM32011	CP25-47x13x5	VDI25 B1-B4, C1-C4
OM32012	CP30-59x17x8	VDI30 B1-B4, C1-C4
OM32013	CP40-71.5x21x8	VDI40 B1-B4, C1-C4
OM32014	CP50-83x24x8	VDI50 B1-B4, C1-C4
OM32015	CP60-108x29x8	VDI60 B1-B4, C1-C4
OM32070	CP16-52x10x4	VDI16 B5-B8
OM32091	CP20-67x13x5	VDI20 B5-B8
OM32092	CP25-67x13x5	VDI25 B5-B8
OM32093	CP30-89x17x8	VDI30 B5-B8
OM32094	CP40-104.5x21x8	VDI40 B5-B8
OM32095	CP50-113x24x8	VDI50 B5-B8
OM32096	CP60-128x29x8	VDI60 B5-B8



VDI Shim Plates



Part Number	Specification	Shim Plate Suits
OM32016	SP20-54x13x4	VDI20 B1-B4 C1-C4
OM32017	SP25-54x13x4	VDI25 B1-B4 C1-C4
OM32028	SP30-69x17x4	VDI30 B1-B4 C1-C4
OM32043	SP40-84x21x5	VDI40 B1-B4 C1-C4
OM32044	SP50-99x24x7	VDI50 B1-B4 C1-C4
OM32045	SP60-124x29x7	VDI60 B1-B4 C1-C4
OM32097	SP20-74x13x4	VDI20 B5-B8
OM32098	SP25-74x13x4	VDI25 B5-B8
OM32099	SP30-99x17x4	VDI30 B5-B8
OM32100	SP40-117x21x5	VDI40 B5-B8
OM32101	SP50-129x24x7	VDI50 B5-B8
OM32102	SP60-144x29x7	VDI60 B5-B8



VDI Coolant Nozzles



Part Number	Specification	Coolant Nozzle Suits
OM32046	MB10xM4	VDI16
OM32047	MB12xM5	VDI20/25/30
OM32048	MB14xM6	VDI40/50/60



VDI
(DIN69880)

VDI O-Rings



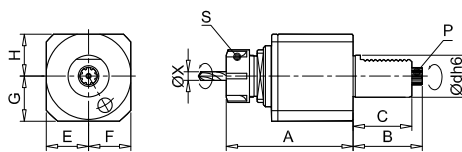
Part Number	Specification	O-Ring Suits
OM32049	ZSRS-15x1.5	VDI16
OM32050	ZSRS-18.77x1.78	VDI20
OM32051	ZSRS-23.52x1.78	VDI25
OM32052	ZSRS-28.30x1.78	VDI30
OM32053	ZSRS-37.77x2.62	VDI40
OM32054	ZSRS-47.29x2.62	VDI50
OM32055	ZSRS-56.74x3.53	VDI60



VDI ATH

Axial Tool Head - Square

- DIN 5482
- VDI Driven Tool Holders

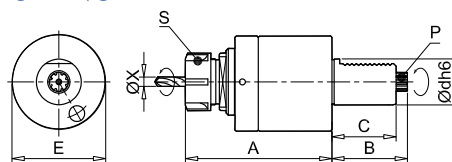


Part Number	Dimensions (mm)									i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	E	F	G	H	ØX					
OM33432	30	94	55	45	30	30	30	28	1-13	1:1	6000	ER20	40	B15x12-9b
OM33238	30	98.5	55	45	30	30	30	28	1-13	1:1	6000	ER25	40	B15x12-9b
OM33433	40	123	63	53	41	41	43	40	1-13	1:1	5000	ER32	70	B17x14-9b

VDI ATH

Axial Tool Head - Round, External Nut

- DIN 5482
- VDI Driven Tool Holders

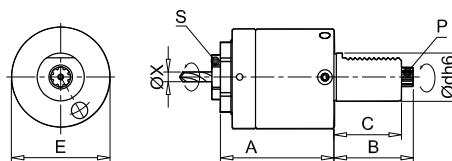


Part Number	Dimensions (mm)					i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	ØX					
OM33434	30	98.5	55	45	68	1:1	6000	ER25	40	B15x12-9b
OM33435	40	120.5	63	53	83	1:1	5000	ER32	70	B17x14-9b

VDI ATH

Axial Tool Head - Round, Internal Nut

- DIN 5482
- VDI Driven Tool Holders

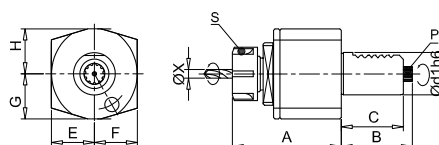


Part Number	Dimensions (mm)					i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	ØX					
OM33436	30	80	55	45	1-16	1:1	6000	ER25	40	B15x12-9b
OM33437	40	95	63	53	1-20	1:1	5000	ER32	70	B17x14-9b

VDI ATH

Axial Tool Head - Short

- DIN 5482
- VDI Driven Tool Holders

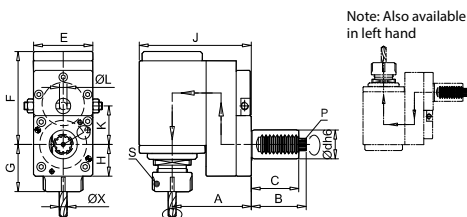


Part Number	Dimensions (mm)									i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	E	F	G	H	ØX					
OM33438	30	78	55	45	35	35	33	33	1-13	1:1	4000	ER20	40	B15x12-9b
OM33439	40	85	63	53	42.5	42.5	38	38	1-20	1:1	4000	ER32	70	B17x14-9b

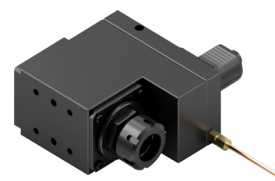
RTH

Radial Tool Head

- DIN 5482
- VDI Driven Tool Holders



Note: Also available in left hand

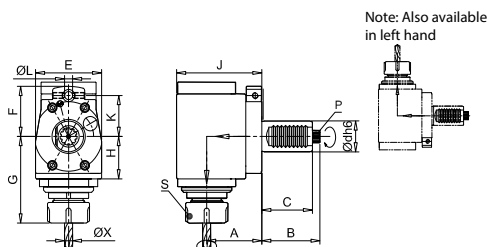


Part Number		Dimensions (mm)											i	N _{max} RPM	S	T N _m	P	
R/H	L/H	Ødh6	A	B	C	E	F	G	H	J	K	ØL						ØX
OM33237	OM33479	30	89	55	45	63	96.5	49	33	124	40	8	1-16	1:1	6000	ER25	40	B15x12-9b
OM33440	OM33480	40	98	63	53	80	108.5	43	43	138	63	10	1-20	1:1	5000	ER32	70	B17x14-9b

RTH

Radial Tool Head - Direct

- DIN 5482
- VDI Driven Tool Holders



Note: Also available in left hand

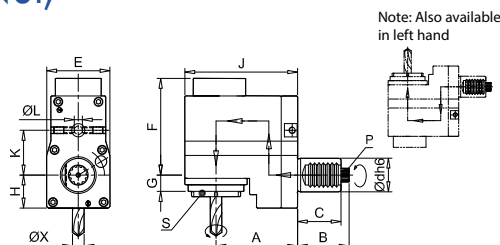


Part Number		Dimensions (mm)											i	N _{max} RPM	S	T N _m	P	
R/H	L/H	Ødh6	A	B	C	E	F	G	H	J	K	ØL						ØX
OM33441	OM33481	30	55	55	45	66	53	84.5	41.5	85	40	8	1-16	1:1	6000	ER25	40	B15x12-9b
OM33442	OM33482	40	64	63	53	76	74	90	43	98	63	10	1-20	1:1	5000	ER32	70	B17x14-9b

RTH

Radial Tool Head - Internal Nut, Through Coolant

- DIN 5482
- VDI Driven Tool Holders



Note: Also available in left hand



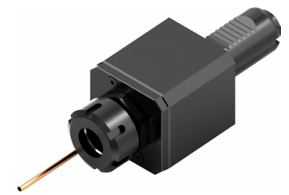
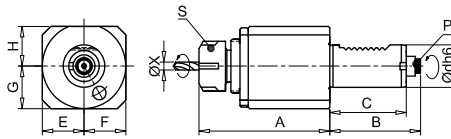
Part Number		Dimensions (mm)											i	N _{max} RPM	S	T N _m	P	
R/H	L/H	Ødh6	A	B	C	E	F	G	H	J	K	ØL						ØX
OM33443	OM33483	40	99.5	63	53	77	115.5	33	39.5	137.5	63	10	1-20	1:1	5000	ER32	70	B17x14-9b

VDI (DIN69880)

VDI ATH

Axial Tool Head - Square, External Nut

- DIN 5480
- VDI Driven Tool Holders

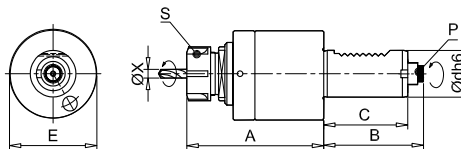


Part Number	Dimensions (mm)									i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	E	F	G	H	ØX					
OM33444	16	65	42	32	21	25	21	21	1-7	1:1	6000	ER11	6.3	W8x0.8x30°x18-9b
OM33207	20	94	51	40	30	30	27	28	1-13	1:1	6000	ER20	10	W10x0.8x30°x11-9b
OM33445	30	94	67	55	30	30	30	28	1-13	1:1	6000	ER20	40	W16x0.8x30°x18-9b
OM33297	30	98.5	67	55	30	30	30	28	1-16	1:1	6000	ER25	40	W16x0.8x30°x18-9b
OM33236	40	123	75	63	41	41	43	40	1-20	1:1	5000	ER32	70	W20x0.8x30°x24-9b

VDI ATH

Axial Tool Head - Round, External Nut

- DIN 5480
- VDI Driven Tool Holders

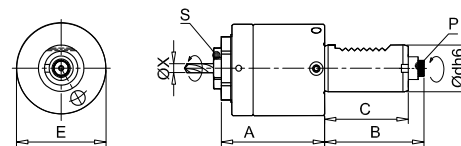


Part Number	Dimensions (mm)						i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	E	ØX					
OM33446	30	99.5	67	55	68	1-16	1:1	6000	ER25	40	W16x0.8x30°x18-9b
OM33447	40	120.5	75	63	83	1-20	1:1	5000	ER32	70	W20x0.8x30°x24-9b

VDI ATH

Axial Tool Head - Round, Internal Nut

- DIN 5480
- VDI Driven Tool Holders

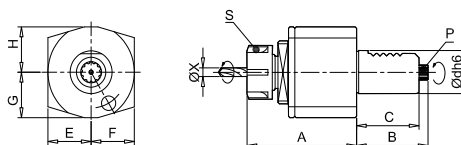


Part Number	Dimensions (mm)						i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	E	ØX					
OM33448	30	80	67	55	68	1-16	1:1	6000	ER25	40	W16x0.8x30°x18-9b
OM33449	40	95	75	63	83	1-20	1:1	5000	ER32	70	W20x0.8x30°x24-9b

VDI ATH

Axial Tool Head - Short

- DIN 5480
- VDI Driven Tool Holders



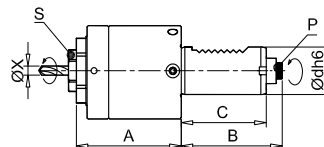
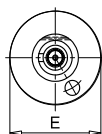
Part Number	Dimensions (mm)									i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	E	F	G	H	ØX					
OM33450	20	76	51	40	31	31	35	28	1-10	1:1	4000	ER16	10	W10x0.8x30°x11-9b

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ATH

Axial Tool Head - Internal Nut, Through Coolant

- DIN 5480
- VDI Driven Tool Holders

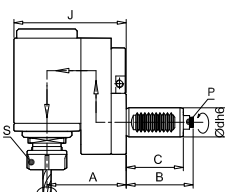
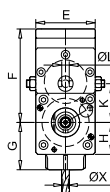


Part Number	Dimensions (mm)						i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	E	ØX					
OM33451	30	80	67	55	68	1-16	1:1	6000	ER25	40	W16x0.8x30°x18-9b
OM33452	40	95	75	83	83	1-20	1:1	5000	ER32	70	W20x0.8x30°x24-9b

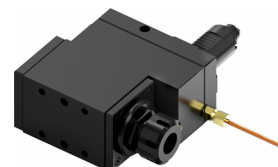
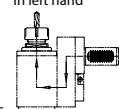
RTH

Radial Tool Head

- DIN 5480
- VDI Driven Tool Holders



Note: Also available in left hand



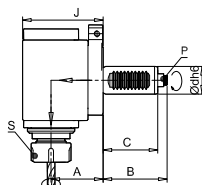
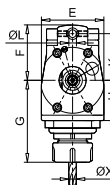
VDI
(DIN69880)

Part Number		Dimensions (mm)											i	Nmax RPM	S	T Nm	P	
R/H	L/H	Ødh6	A	B	C	E	F	G	H	J	K	ØL						ØX
OM33453	OM33484	20	57	51	40	50	70	49	33	119	40	8	1-16	1:1	6000	ER25	10	W10x-0.8x30°x11-9b
OM33454	OM33485	30	89	67	55	63	96.5	49	33	124	48	8	1-16	1:1	6000	ER25	40	W16x-0.8x30°x18-9b
OM33455	OM33486	40	98	75	63	80	108.5	43	43	138	56	10	1-20	1:1	5000	ER32	70	W20x-0.8x30°x24-9b

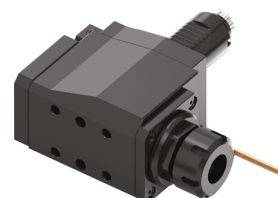
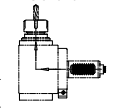
RTH

Radial Tool Head - Direct

- DIN 5480
- VDI Driven Tool Holders



Note - Also available in left hand

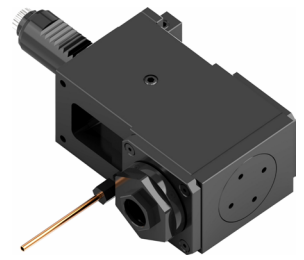
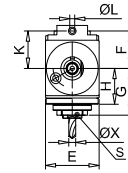
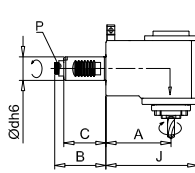


Part Number		Dimensions (mm)											i	Nmax RPM	S	T Nm	P	
R/H	L/H	Ødh6	A	B	C	E	F	G	H	J	K	ØL						ØX
OM33456	OM33487	16	34	42	32	42	61	46	25	50	54	8	1-7	1:1	6000	ER11	6.3	W8x-0.8x30°x18-9b
OM33457	OM33488	30	55	67	55	66	53	84.5	41.5	85	48	8	1-16	1:1	6000	ER25	40	W16x-0.8x30°x18-9b
OM33458	OM33489	40	64	75	63	76	69	90	43	98	56	10	1-20	1:1	5000	ER32	70	W20x-0.8x30°x24-9b

VDI ATH

Axial Tool Head, For Radial Disc Single End

- DIN 5480
- VDI Driven Tool Holders

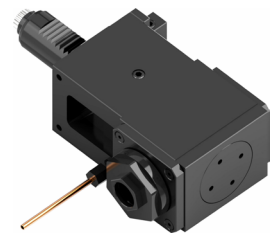
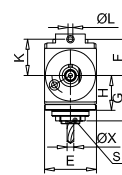
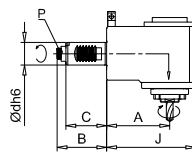


Part Number	Dimensions (mm)												i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX					
OM33459	30	85	67	55	70	49.5	64.5	45.5	120	48	8	1-16	1:1	6000	ER25	40	W16x0.8x30°x18-9b
OM33460	40	100	75	63	76	54	74.5	53	144	56	10	1-20	1:1	5000	ER32	70	W20x0.8x30°x24-9b

VDI ATH

Axial Tool Head, For Radial Disc Single End - Through Coolant

- DIN 5480
- VDI Driven Tool Holders

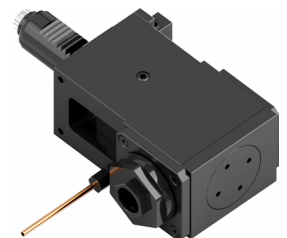
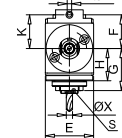
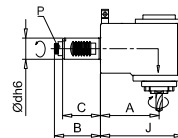


Part Number	Dimensions (mm)												i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX					
OM33461	30	85	67	55	70	58.5	64.5	45.5	120	48	8	1-16	1:1	6000	ER25	40	W16x0.8x30°x18-9b
OM33462	40	100	75	63	76	64.5	74.5	53	144	56	10	1-20	1:1	5000	ER32	70	W20x0.8x30°x24-9b

VDI ATH

Axial Tool Head, For Radial Disc Single End - Double Serration

- DIN 5480
- VDI Driven Tool Holders

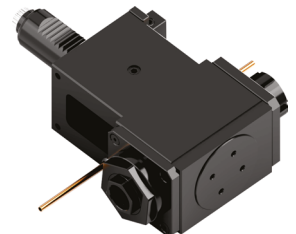
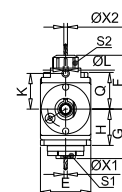
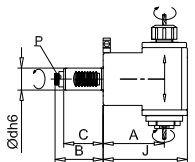


Part Number	Dimensions (mm)												i	Nmax RPM	S	T Nm	P
	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX					
OM33463	30	100	67	55	62	49.5	64.5	45.5	132	48	8	1-16	1:1	6000	ER25	40	W16x0.8x30°x18-9b

VDI ATH

Axial Tool Head, For Radial Disc Double End

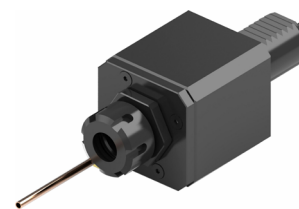
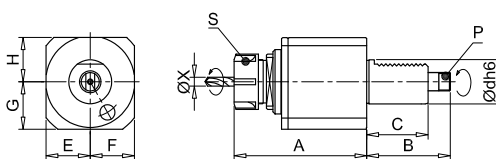
- DIN 5480
- VDI Driven Tool Holders



Part Number	Dimensions (mm)												S1	S2	i	Nmax RPM	T Nm	P	
	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX1							ØX2
OM33464	30	85	67	55	70	75.5	68.5	49.5	117	48	8	1-16	1-13	ER25	ER20	1:1	6000	40	W16x0.8x30°x18-9b
OM33465	30	100	67	55	62	75.5	68.5	49.5	132	48	8	1-16	1-13	ER25	ER20	1:1	6000	40	W16x0.8x30°x18-9b
OM33466	40	100	75	63	76	78.5	74.5	53	141	56	10	1-20	1-13	ER32	ER20	1:1	5000	70	W20x0.8x30°x24-9b
OM33467	40	120	75	63	76	78.5	74.5	53	161	56	10	1-20	1-13	ER32	ER20	1:1	5000	70	W20x0.8x30°x24-9b

ATH Axial Tool Head

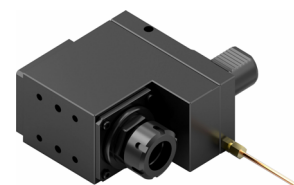
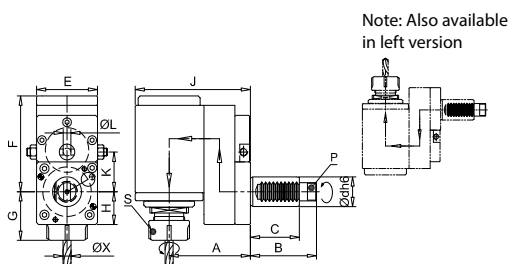
- DIN 1809
- VDI Driven Tool Holders



Part Number	Dimensions (mm)									i	Nmax RPM	S	T Nm	P	Turret Type
	Ødh6	A	B	C	E	F	G	H	ØX						
OM33468	30	94	62	50.5	30	30	30	28	1-13	1:1	6000	ER20	40	Ø12x6x7	Duplomatic
OM33469	30	98.5	62	50.5	30	30	30	28	1-16	1:1	6000	ER25	40	Ø12x6x7	Duplomatic
OM33470	30	98.5	66.5	55	30	30	30	28	1-16	1:1	6000	ER25	40	Ø13.5x8x7	EWS
OM33471	40	123	72	56	41	41	43	40	1-20	1:1	5000	ER32	70	Ø14x8x6.5	Duplomatic

RTH Radial Tool Head

- DIN 1809
- VDI Driven Tool Holders

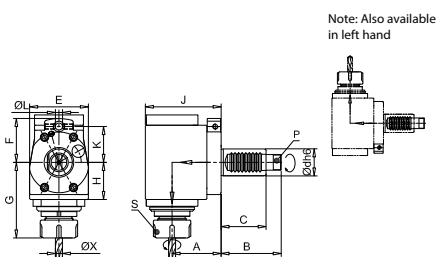


VDI
(DIN69880)

Part Number		Dimensions (mm)												i	Nmax RPM	S	T Nm	P	Turret Type
R/H	L/H	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX						
OM33472	OM33490	30	84	62	50.5	63	96.5	49	33	119	40	8	1-16	1:1	6000	ER25	40	Ø12x6x7	Duplomatic
OM33473	OM33491	30	84	66.5	55	63	96.5	49	33	119	40	8	1-16	1:1	6000	ER25	40	Ø13.5x8x7	EWS
OM33474	OM33492	40	91	72	56	80	106.5	43	43	131	63	10	1-20	1:1	5000	ER32	70	Ø14x8x6.5	Duplomatic

RTH Radial Tool Head - Direct

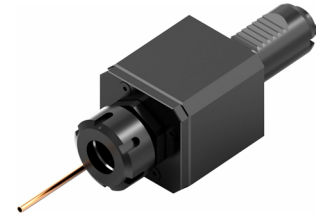
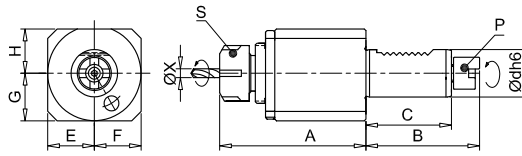
- DIN 1809
- VDI Driven Tool Holders



Part Number		Dimensions (mm)												i	Nmax RPM	S	T Nm	P	Turret Type
R/H	L/H	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX						
OM33475	OM33493	30	55	62	50.5	66	53	84.5	41.5	85	40	8	1-16	1:1	6000	ER25	40	Ø12x6x7	Duplomatic

ATH TOEM Axial Tool Head

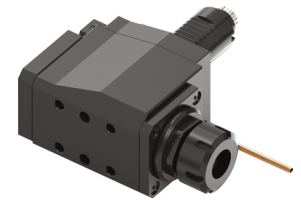
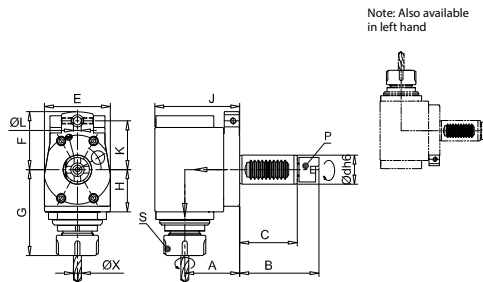
- TOEM Coupling For Baruffaldi Turret
- VDI Driven Tool Holders



Part Number	Dimensions (mm)									i	Nmax RPM	S	T Nm	P	Turret Type
	Ødh6	A	B	C	E	F	G	H	ØX						
OM33476	16	65	48	35	21	25	21	21	1-7	1:1	6000	ER11	6.3	Ø14.5x4x4	Baruffaldi
OM33477	30	98.5	59	45	30	30	30	28	1-16	01:01	6000	ER25	40	Ø24x6x3.2	Baruffaldi

RTH DIRECT TOEM Radial Tool Head

- TOEM Coupling For Baruffaldi Turret
- VDI Driven Tool Holders



Part Number		Dimensions (mm)												i	Nmax RPM	S	T Nm	P	Turret Type
R/H	L/H	Ødh6	A	B	C	E	F	G	H	J	K	ØL	ØX						
OM33478	OM33494	16	34	48	35	42	61	46	25	50	54	8	1-7	1:1	6000	ER11	6.3	Ø14.5x4x4	Baruffaldi

018869N1G1 (VDI)

VDI COUPLING TYPES

- Listed below are the four most common coupling types
- Any coupling can be manufactured as a special, to any customer specific requirement

DIN 5480



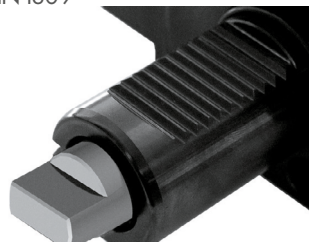
DIN 5482



BARUFFALDI



DIN 1809



STRAIGHT SHANK

STRAIGHT SHANK COLLET CHUCKS ER COLLET EXTENSIONS

- Standard = Castle Nut
- A = Hexagon Nut
- ER Collets - Pg. 172
- Spares - Pg. 232



Part Number	Description	Shank Diameter (mm)	Collet Type	Shank Length (mm)	
OM30010	C16 ER11A x 150	16	ER11	150	
OM30014	C16 ER16A x 50		ER16	50	
OM30012	C16 ER16A x 100		ER16	100	
OM30013	C16 ER16A x 150		ER16	150	
OM30020	C20 ER16A x 50	20	ER16	50	
OM30018	C20 ER16A x 100		ER16	100	
OM30019	C20 ER16A x 150		ER16	150	
OM30027	C20 ER20 x 50		ER20	50	
OM30025	C20 ER20 x 100		ER20	100	
OM30026	C20 ER20 x 150		ER20	150	
OM30030	C20 ER25 x 50		ER25	50	
OM30029	C20 ER25 x 100		ER25	100	
OM30032	C20 ER32 x 50		ER32	50	
OM30031	C20 ER32 x 100		ER32	100	
OM30033	C25 ER16 x 150		25	ER16	150
OM30037	C25 ER20 x 150			ER20	150
OM30039	C25 ER25 x 50	ER25		50	
OM30038	C25 ER25 x 100	ER25		100	
OM30265	C25 ER25 X 150	ER25		150	
OM30137	C25 ER25 x 200	ER25		200	
OM30041	C25 ER32 x 50	ER32		50	
OM30040	C25 ER32 x 100	ER32		100	
OM30497	C25 ER32 x 200	ER32		200	
OM30042	C25 ER40 x 50	ER40		50	
OM30170	C32 ER25 X 80	32	ER25	80	
OM30171	C32 ER25 x 100		ER25	100	
OM30044	C32 ER32 x 50		ER32	50	
OM30045	C32 ER32 x 60		ER32	60	
OM30043	C32 ER32 x 100		ER32	100	
OM30046	C32 ER40 x 50		ER40	50	
OM30369	C40 ER25 x 100		40	ER25	100
OM30048	C40 ER32 x 85	ER32		85	
OM30047	C40 ER32 x 100	ER32		100	



MINI STRAIGHT SHANK COLLET CHUCKS

ER COLLET EXTENSIONS

- Mini Nut
- ER Collets - Pg.172
- Spares - Pg. 232



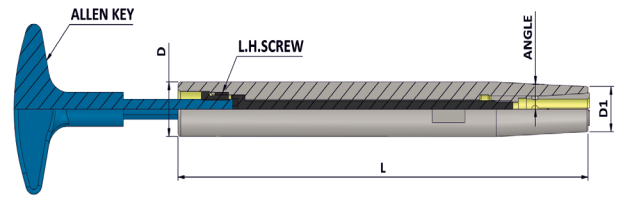
Part Number	Description	Shank Diameter (mm)	Collet Type	Shank Length (mm)
OM30001	C08 ER8M x 55	8	ER8	55
OM30494	C08 ER8M x 100		ER8	100
OM30002	C10 ER8M x 100	10	ER8	100
OM30003	C10 ER8M x 150		ER8	150
OM30495	C10 ER11M x 100		ER11	100
OM30006	C12 ER8M x 55	12	ER8	55
OM30005	C12 ER8M x 120		ER8	120
OM30175	C12 ER8M x 150		ER8	150
OM30176	C12 ER8M x 200		ER8	200
OM30004	C12 ER11M x 80		ER11	80
OM30136	C12 ER11M x 150		ER11	150
OM30147	C12 ER11M x 200		ER11	200
OM30009	C16 ER11M x 50	16	ER11	50
OM30007	C16 ER11M x 100		ER11	100
OM30008	C16 ER11M x 150		ER11	150
OM30011	C16 ER16M x 50		ER16	50
OM30496	C16 ER16M x 100	20	ER16	100
OM30097	C3/4 ER16 MINI x 21/2"		ER16	2.1/2"
OM30017	C20 ER16M x 60		ER16	60
OM30015	C20 ER16M x 100		ER16	100
OM30016	C20 ER16M x 150		ER16	150
OM30096	C20 ER16M x 200		ER16	200
OM30099	C20 ER16M x 300		ER16	300
OM30024	C20 ER20M x 50		ER20	50
OM30021	C20 ER20M x 100		ER20	100
OM30022	C20 ER20M x 150		ER20	150
OM30023	C20 ER20M x 200	22	ER20	200
OM30028	C20 ER25M x 100		ER25	100
OM30139	C22 ER16M x 70	25	ER16	70
OM30000	C22 ER20M x 100		ER20	100
OM30036	C25 ER20M x 60		ER20	60
OM30034	C25 ER20M x 100	25	ER20	100
OM30035	C25 ER20M x 150		ER20	150
OM30140	C32 ER20M x 100		ER20	100



STRAIGHT SHANK

STRAIGHT SHANK COLLET CHUCKS DMC COLLET EXTENSIONS

- For Ultra Precision DMC Style Collets
- DMC Collets - Pg. 202
- Hex Keys - Pg. 235



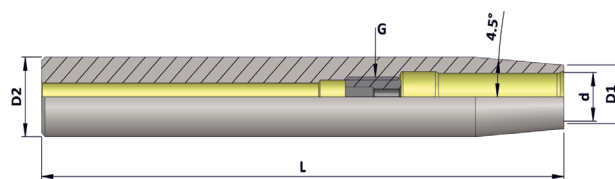
Part Number	Description	Clamping Range	Dimensions (mm)			Angle	Collet	Screw	Allen Key
			D	D1	L				
OM32374	D16 DMC 06 L 150	3-6	16	13	150	3°	DMC-06	M5	4X200
OM32375	D20 DMC 06 L 200	3-6	20	13	200	3°	DMC-06	M5	4X200
OM32376	D25 DMC 06 L 250	3-6	25	13	250	3°	DMC-06	M5	4X200
OM32377	D20 DMC 08 L 150	3-8	20	19	150	3°	DMC-08	M6	5X200
OM32378	D20 DMC 08 L 200	3-8	20	19	200	3°	DMC-08	M6	5X200
OM32379	D25 DMC 10 L 150	4-10	25	24	150	3°	DMC-10	M8	6X200
OM32380	D25 DMC 10 L 200	4-10	25	24	200	3°	DMC-10	M8	6X200
OM32381	D25 DMC 10 L 250	4-10	25	24	250	3°	DMC-10	M8	6X200



EXTENSION CHUCKS

SHRINK FIT

- Cylindrical Shank
- Superior Clamping Strength & Rigidity
- 4.5 Degree



12mm Cylindrical Shank

Part Number	Description	Dimensions (mm)				
		D	D1	D2	G	L
OM33628	D12 SF03 150	3	8	12	-	150
OM33629	D12 SF04 150	4	8	12	-	150

16mm Cylindrical Shank

Part Number	Description	Dimensions (mm)				
		D	D1	D2	G	L
OM33630	D16 SF03 150	3	10	16	-	150
OM33631	D16 SF04 150	4	10	16	-	150
OM33632	D16 SF05 150	5	10	16	-	150
OM33633	D16 SF06 150	6	10	16	M5	150

20mm Cylindrical Shank

Part Number	Description	Dimensions (mm)				
		D	D1	D2	G	L
OM33634	D20 SF03 150	3	10	20	-	150
OM33635	D20 SF04 150	4	10	20	-	150
OM33636	D20 SF05 150	5	10	20	-	150
OM33637	D20 SF06 150	6	10	20	M5	150
OM33638	D20 SF08 150	8	12	20	M6	150
OM33639	D20 SF010 150	10	14	20	M8	150
OM33640	D20 SF012 150	12	16	20	M10	150

25mm Cylindrical Shank

Part Number	Description	Dimensions (mm)				
		D	D1	D2	G	L
OM33641	D25 SF08 150	8	20	25	M6	150
OM33642	D25 SF10 150	10	20	25	M8	150
OM33643	D25 SF12 150	12	20	25	M10	150
OM33644	D25 SF14 150	14	20	25	M10	150
OM33645	D25 SF16 150	16	22	25	M12	150

32mm Cylindrical Shank

Part Number	Description	Dimensions (mm)				
		D	D1	D2	G	L
OM33646	D32 SF10 150	10	24	32	M8	150
OM33647	D32 SF12 150	12	24	32	M10	150
OM33648	D32 SF14 150	14	27	32	M10	150
OM33649	D32 SF16 150	16	27	32	M12	150
OM33650	D32 SF18 150	18	27	32	M12	150
OM33651	D32 SF20 150	20	27	32	M16	150

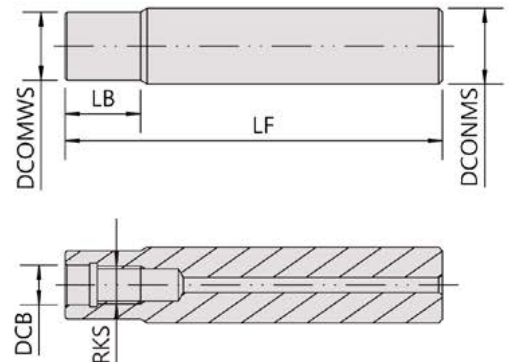


STRAIGHT SHANK

STRAIGHT SHANK SCREW-IN HOLDERS **NEW**

HARD ALLOY STEEL

M4 - M16

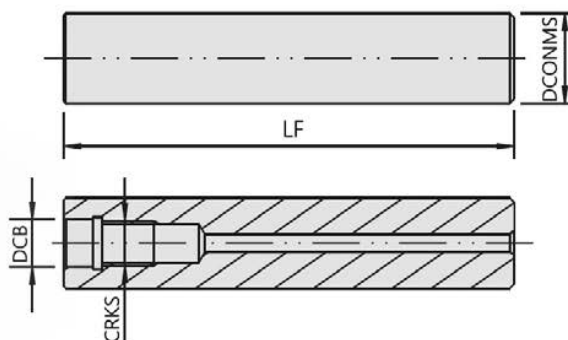


Part Number	Description	Dimensions (mm)					
		DCONMS	LF	CRKS	DCB	LB	DCONWS
OM36503	HML 10 M05-120	10	120	M5	5.5	10	8
OM36504	HML 12 M06-100	12	100	M6	6.5	12	10
OM36505	HML 12 M06-150	12	150	M6	6.5	12	10
OM36506	HML 16 M08-100	16	100	M8	8.5	16	14
OM36507	HML 16 M08-150	16	150	M8	8.5	16	14
OM36508	HML 16 M08-200	16	200	M8	8.5	16	14
OM36509	HML 20 M10-100	20	100	M10	10.5	20	18
OM36510	HML 20 M10-150	20	150	M10	10.5	20	18
OM36511	HML 20 M10-200	20	200	M10	10.5	20	18
OM36512	HML 25 M12-100	25	100	M12	12.5	25	23
OM36513	HML 25 M12-150	25	150	M12	12.5	25	23
OM36514	HML 25 M12-200	25	200	M12	12.5	25	23
OM36515	HML 25 M12-250	25	250	M12	12.5	25	23
OM36517	HML 32 M16-150	32	150	M16	17	32	30
OM36518	HML 32 M16-200	32	200	M16	17	32	30
OM36519	HML 32 M16-250	32	250	M16	17	32	30
OM36520	HML 32 M16-300	32	300	M16	17	32	30

STRAIGHT SHANK SCREW-IN HOLDERS **NEW**

CARBIDE SHANK

M4 - M16

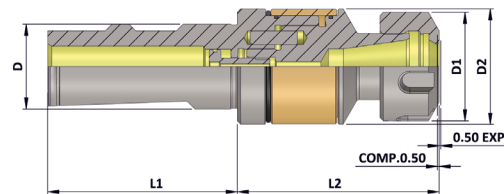


Part Number	Description	Dimensions (mm)					
		DCONMS	LF	CRKS	DCB	LB	DCONWS
OM36522	HME 08 M04-100	8	100	M4	4.5	8	6
OM36523	HME 10 M05-100	10	100	M5	5.5	10	8
OM36524	HME 10 M05-150	10	150	M5	5.5	10	8
OM36525	HME 12 M06-100	12	100	M6	6.5	12	10
OM36526	HME 12 M06-150	12	150	M6	6.5	12	10
OM36528	HME 16 M08-100	16	100	M8	8.5	16	14
OM36529	HME 16 M08-150	16	150	M8	8.5	16	14
OM36530	HME 16 M08-200	16	200	M8	8.5	16	14
OM36531	HME 16 M08-250	16	250	M8	8.5	16	14
OM36532	HME 20 M10-100	20	100	M10	10.5	20	18
OM36533	HME 20 M10-150	20	150	M10	10.5	20	18
OM36534	HME 20 M10-200	20	200	M10	10.5	20	18
OM36535	HME 20 M10-250	20	250	M10	10.5	20	18
OM36536	HME 20 M10-300	20	300	M10	10.5	20	18
OM36539	HME 25 M12-150	25	150	M12	12.5	25	23
OM36540	HME 25 M12-200	25	200	M12	12.5	25	23
OM36541	HME 25 M12-250	25	250	M12	12.5	25	23
OM36542	HME 25 M12-300	25	300	M12	12.5	25	23

STRAIGHT SHANK

MLC SYNCHRO TAPPING CHUCKS STRAIGHT SHANK

- Minimum Length Compensation Tapping Chucks
- +/-0.5mm Compression & Expansion
- High Concentricity Enables High Speed Tapping
- Recommended for use with QCTC Type Collets
- [QCTC Collets - Pg. 204](#)
- [Spares - Pg. 232](#)



Part Number	Description	Capacity	Clamping Range	Nut Size	Dimensions (mm)						
					D	D1	D2	L1	L2	Comp.	Exp.
OM32477	D20 ER16 Mini	M3-M12	1-10	ER16M	20	22	34	51	58	0.5	0.5
OM32487	D20 ER16	M3-M12	1-10	ER16	20	32	34	51	58	0.5	0.5
OM32500	D25 ER16 Mini	M3-M12	1-10	ER16M	25	22	34	56	60	0.5	0.5
OM32501	D25 ER16	M3-M12	1-10	ER16	25	32	34	56	60	0.5	0.5
OM32502	D25 ER20	M3-M16	3.5-10	ER20	25	35	34	56	61	0.5	0.5
OM32503	D25 ER25	M3-M20	3.5-16	ER25	25	42	34	56	65	0.5	0.5
OM32504	D25 ER32	M4-M27	3.5-20	ER32	25	50	45	56	87	0.5	0.5
OM32505	D32 ER40	M6-M33	6-26	ER40	32	63	62	61	108.5	0.5	0.5



STRAIGHT SHANK

QUICK CHANGE TAPPING CHUCKS STRAIGHT SHANK

- Axial Length Compensation
- With Tension & Compression
- Quick change tap adaptors available in 3 sizes
- [QC Tap Adaptors - Pg. 210](#)

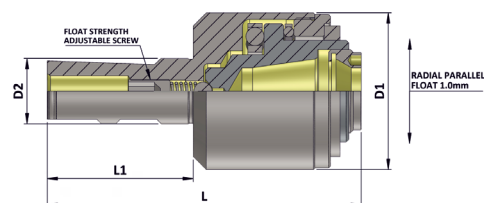


Part Number	Description	Shank Dia (mm)	Gauge Length (mm)	Tapping Range
OM31367	C20 Size 1 (TC312-41)	20	41	M3 - M12
OM31368	C25 Size 1 (TC312-41)	25	41	M3 - M12
OM31369	C32 Size 1 (TC312-41)	32	41	M3 - M12
OM31370	C25 Size 2 (TC820-63)	25	63	M6 - M20
OM31371	C32 Size 2 (TC820-63)	32	63	M6 - M20
OM31372	C32 Size 3 (TC1433-97)	32	97	M14 - M36



FLOATING REAMER HOLDER STRAIGHT SHANK

- Short Length Floating Reamer Holder with radial parallel float of 1.0mm
- Integral weight balancing mechanism
- Excellent problem solver for poor surface finish & over size cutting
- Spares - Pg. 233, 235

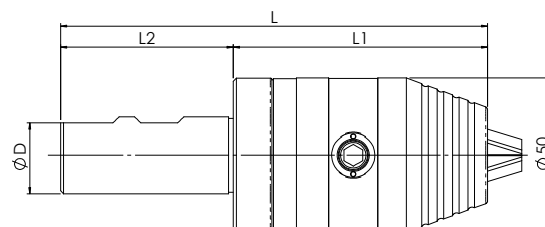


Part Number	Description	Dimensions (mm)				Collet Capacity	Spanner	Radial Parallel Float
		D1	D2	L	L1			
OM32506	FRH 20mm ER25A	60	20	116	51	1-16	E25A	1.0 mm
OM32507	FRH 25mm ER25A	60	25	121	56	1-16	E25A	1.0 mm
OM32508	FRH 32mm ER25A	60	32	126	61	1-16	E25A	1.0 mm



PRECISION DRILL CHUCK STRAIGHT SHANK

- Hexagonal Key Drill Chuck
- High Accuracy Drill Chuck
- Increased wear-resistance with TIN Coated Jaws
- Spare Hex Key - Pg. 235



Part Number	Description	Dimensions (mm)				
		Capacity	L	L1	L2	D
OM33674	D20 GHK13 83	0.3-13	133	50	83	20
OM33675	D25 GHK13 83	0.3-13	139	56	83	25



STRAIGHT SHANK

R8 BRIDGEPORT

ER COLLET CHUCKS

R8 (BRIDGEPORT)

- 7/16 UNF Drawbar Thread



Part Number	Description
OM31314	R8 ER16
OM31449	R8 ER25
OM31315	R8 ER32
OM31316	R8 ER40



END MILL HOLDERS

R8 (BRIDGEPORT)

- 7/16 UNF Drawbar Thread



Part Number	Description	Bore Size
OM31327	R8 S/L 10	10mm
OM31328	R8 S/L 12	12mm
OM31329	R8 S/L 16	16mm
OM31330	R8 S/L 20	20mm
OM31331	R8 S/L 25	25mm
OM31332	R8 S/L 32	32mm



FACE MILL ARBORS

R8 (BRIDGEPORT)

- 7/16 UNF Drawbar Thread



Part Number	Description	Spigot Size
OM31318	R8 FMB 16	16mm
OM31319	R8 FMB 22	22mm
OM31320	R8 FMB 27	27mm
OM31321	R8 FMB 32	32mm



MORSE TAPER ADAPTORS

R8 (BRIDGEPORT)

- 7/16 UNF Drawbar Thread



Part Number	Description
OM31323	R8 MTA 1
OM31324	R8 MTA 2
OM31325	R8 MTA 3
OM31326	R8 MTA 4



R8 (BRIDGEPORT)

DRILL CHUCK ARBORS R8 (BRIDGEPORT)

- 7/16 UNF Drawbar Thread



Part Number	Description
OM31322	R8 JT6
OM31363	R8 B16



R8 COLLETS R8 (BRIDGEPORT)

- 7/16 UNF Drawbar Thread



Part Number	Description	Clamping Size (mm)
OM31295	R8 2mm	2
OM31296	R8 3mm	3
OM31297	R8 4mm	4
OM31298	R8 5mm	5
OM31299	R8 6mm	6
OM31300	R8 7mm	7
OM31301	R8 8mm	8
OM31302	R8 9mm	9
OM31303	R8 10mm	10
OM31304	R8 11mm	11
OM31305	R8 12mm	12
OM31306	R8 13mm	13
OM31307	R8 14mm	14
OM31308	R8 15mm	15
OM31309	R8 16mm	16
OM31310	R8 17mm	17
OM31311	R8 18mm	18
OM31312	R8 19mm	19
OM31313	R8 20mm	20



R8 (BRIDGEPORT)

ER COLLETS

ER8 COLLETS STANDARD

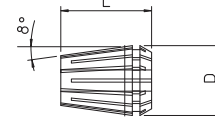
- Standard ER Collets
- (<10µ accuracy)
- Clamping Range 1.0 - 5.0mm



Part Number	Description	Clamping Size (mm)
OM32000	ER8 Standard Collet (10 micron accuracy)	1.0-0.5
OM32001		1.5-1.0
OM32002		2.0-1.5
OM32003		2.5-2.0
OM32004		3.0-2.5
OM32005		3.5-3.0
OM32006		4.0-3.5
OM32007		4.5-4.0
OM32008		5.0-4.5

ER8 COLLETS ULTRA PRECISION

- Ultra Precision ER Collets
- (<5µ accuracy)
- Clamping Range 1.0 - 5.0mm



D	8.5mm
L	13mm
Clamping Range	1.0 - 5.0mm

Part Number	Description	Clamping Size (mm)
OM32018	ER8 Ultra Precision Collet (5 micron accuracy)	1.0-0.5
OM32019		1.5-1.0
OM32020		2.0-1.5
OM32021		2.5-2.0
OM32022		3.0-2.5
OM32023		3.5-3.0
OM32024		4.0-3.5
OM32025		4.5-4.0
OM32026		5.0-4.5

ER11 COLLETS STANDARD

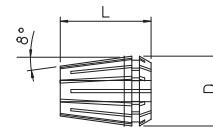
- Standard ER Collets
- (<10µ accuracy)
- Clamping Range 1.0 - 8.0mm



Part Number	Description	Clamping Size (mm)
OM32030	ER11 Standard Collet (10 micron accuracy)	1.0-0.5
OM32031		1.5-1.0
OM32032		2.0-1.5
OM32033		2.5-2.0
OM32034		3.0-2.5
OM32035		3.5-3.0
OM32036		4.0-3.5
OM32037		4.5-4.0
OM32038		5.0-4.5
OM32039		5.5-5.0
OM32040		6.0-5.5
OM32041		6.5-6.0
OM32042		7.0-6.5
OM33032*		7.5-7.3
OM33033*		8.0-7.8

ER11 COLLETS ULTRA PRECISION

- Ultra Precision ER Collets
- (<5µ accuracy)
- Clamping Range 1.0 - 7.0mm



D	11.5mm
L	18mm
Clamping Range	1.0 - 7.0mm

Part Number	Description	Clamping Size (mm)
OM32056	ER11 Ultra Precision Collet (5 micron accuracy)	1.0-0.5
OM32057		1.5-1.0
OM32058		2.0-1.5
OM32059		2.5-2.0
OM32060		3.0-2.5
OM32061		3.5-3.0
OM32062		4.0-3.5
OM32063		4.5-4.0
OM32064		5.0-4.5
OM32065		5.5-5.0
OM32066		6.0-5.5
OM32067		6.5-6.0
OM32068		7.0-6.5

* Collets over 7mm diameter have shorter L dimension

ER16 COLLETS STANDARD



- Standard ER Collets
- (10μ accuracy)
- Clamping Range 1.0 - 12.0mm



Part Number	Description	Clamping Size (mm)
OM32072	ER16 Standard Collet (10 micron accuracy)	1.0-0.5
OM32082		1.5-1.0
OM32073		2.0-1.0
OM32083		2.5-2.0
OM32074		3.0-2.0
OM32084		3.5-2.5
OM32075		4.0-3.0
OM32085		4.5-3.5
OM32076		5.0-4.0
OM32086		5.5-4.5
OM32077		6.0-5.0
OM32087		6.5-5.5
OM32078		7.0-6.0
OM32088		7.5-6.5
OM32079		8.0-7.0
OM32089		8.5-7.5
OM32080		9.0-8.0
OM32090		9.5-8.5
OM32081		10.0-9.0
OM33034*		10.5-10.3
OM33035*	11.0-10.8	
OM33036*	11.5-11.3	
OM33037*	12.0-11.8	

* Collets over 10mm diameter have shorter L dimension

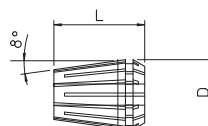
ER16 COLLETS ULTRA PRECISION



- Ultra Precision ER Collets
- (5μ accuracy)
- Clamping Range 1.0 - 10.0mm



Part Number	Description	Clamping Size (mm)
OM32110	ER16 Ultra Precision Collet (5 micron accuracy)	1.0-0.5
OM32111		1.5-1.0
OM32112		2.0-1.0
OM32113		2.5-2.0
OM32114		3.0-2.0
OM32115		3.5-2.5
OM32116		4.0-3.0
OM32117		4.5-3.5
OM32118		5.0-4.0
OM32119		5.5-4.5
OM32120		6.0-5.0
OM32121		6.5-5.5
OM32122		7.0-6.0
OM32123		7.5-6.5
OM32124		8.0-7.0
OM32125		8.5-7.5
OM32126		9.0-8.0
OM32127		9.5-8.5
OM32128		10.0-9.0



D	17mm
L	27.5mm
Clamping Range	1.0 - 10.0mm

ER20 COLLETS STANDARD

- Standard ER Collets
- (<10µ accuracy)
- Clamping Range 1.0 - 16.0mm



Part Number	Description	Clamping Size (mm)
OM32144	ER20 Standard Collet (10 micron accuracy)	1.0-0.5
OM32145		1.5-1.0
OM32132		2.0-1.5
OM32146		2.5-2.0
OM32133		3.0-2.5
OM32147		3.5-2.5
OM32134		4.0-3.0
OM32148		4.5-3.5
OM32135		5.0-4.0
OM32136		6.0-5.0
OM32137		7.0-6.0
OM32138		8.0-7.0
OM32139		9.0-8.0
OM32140		10.0-9.0
OM32141		11.0-10.0
OM32142		12.0-11.0
OM32143		13.0-12.0
OM33038*		13.5-13.3
OM33039*		14.0-13.8
OM33040*		14.5-14.3
OM33041*	15.0-14.8	
OM33042*	15.5-15.3	
OM33043*	16.0-15.8	

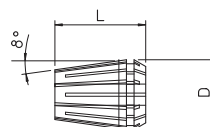
* Collets over 13mm diameter have shorter L dimension

ER20 COLLETS ULTRA PRECISION

- Ultra Precision ER Collets
- (<5µ accuracy)
- Clamping Range 1.0 - 13.0mm



Part Number	Description	Clamping Size (mm)
OM32166	ER20 Ultra Precision Collet (5 micron accuracy)	1.0-0.5
OM32167		1.5-1.0
OM32168		2.0-1.0
OM32169		2.5-2.0
OM32170		3.0-2.5
OM32171		3.5-2.5
OM32172		4.0-3.0
OM32173		4.5-3.5
OM32174		5.0-4.0
OM32175		6.0-5.0
OM32176		7.0-6.0
OM32177		8.0-7.0
OM32178		9.0-8.0
OM32179		10.0-9.0
OM32180		11.0-10.0
OM32181		12.0-11.0
OM32182		13.0-12.0



D	21mm
L	31.5mm
Clamping Range	1.0 - 13.0mm

ER25 COLLETS STANDARD



- Standard ER Collets
- (<10µ accuracy)
- Clamping Range 1.0 - 20.0mm



Part Number	Description	Clamping Size (mm)
OM32186	ER25 Standard Collet (10 micron accuracy)	1.0-0.5
OM32202		1.5-1.0
OM32187		2.0-1.0
OM32203		2.5-2.0
OM32188		3.0-2.5
OM32204		3.5-2.5
OM32189		4.0-3.0
OM32205		4.5-3.5
OM32190		5.0-4.0
OM32191		6.0-5.0
OM32192		7.0-6.0
OM32193		8.0-7.0
OM32194		9.0-8.0
OM32195		10.0-9.0
OM32196		11.0-10.0
OM32197		12.0-11.0
OM32198		13.0-12.0
OM32199		14.0-13.0
OM32200		15.0-14.0
OM32201		16.0-15.0
OM33044*	16.5-16.3	
OM33045*	17.0-16.8	
OM33046*	17.5-17.3	
OM33047*	18.0-17.8	
OM33048*	18.5-18.3	
OM33049*	19.0-18.8	
OM33050*	19.5-19.3	
OM33051*	20.0-19.8	

* Collets over 16mm diameter have shorter L dimension

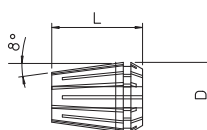
ER25 COLLETS ULTRA PRECISION



- Ultra Precision ER Collets
- (<5µ accuracy)
- Clamping Range 1.0 - 16.0mm



Part Number	Description	Clamping Size (mm)
OM32226	ER25 Ultra Precision Collet (5 micron accuracy)	1.0-0.5
OM32227		1.5-1.0
OM32228		2.0-1.0
OM32229		2.5-2.0
OM32230		3.0-2.5
OM32231		3.5-2.5
OM32232		4.0-3.0
OM32233		4.5-3.5
OM32234		5.0-4.0
OM32235		6.0-5.0
OM32236		7.0-6.0
OM32237		8.0-7.0
OM32238		9.0-8.0
OM32239		10.0-9.0
OM32240		11.0-10.0
OM32241		12.0-11.0
OM32242		13.0-12.0
OM32243		14.0-13.0
OM32244		15.0-14.0
OM32245		16.0-15.0



D	26mm
L	34mm
Clamping Range	1.0 - 16.0mm

ER32 COLLETS STANDARD

- Standard ER Collets
- (<10µ accuracy)
- Clamping Range 1.0 - 25.0mm



Part Number	Description	Clamping Size (mm)
OM32268	ER32 Standard Collet (10 micron accuracy)	1.0-0.5
OM32269		1.5-1.0
OM32249		2.0-1.5
OM32270		2.5-2.0
OM32250		3.0-2.0
OM32271		3.5-2.5
OM32251		4.0-3.0
OM32272		4.5-3.5
OM32252		5.0-4.0
OM32253		6.0-5.0
OM32254		7.0-6.0
OM32255		8.0-7.0
OM32256		9.0-8.0
OM32257		10.0-9.0
OM32258		11.0-10.0
OM32259		12.0-11.0
OM32260		13.0-12.0
OM32261		14.0-13.0
OM32262		15.0-14.0
OM32263		16.0-15.0
OM32264		17.0-16.0
OM32265		18.0-17.0
OM32266		19.0-18.0
OM32267		20.0-19.0
OM33052*		21.0-20.8
OM33053*		22.0-21.8
OM33054*		23.0-22.8
OM33055*		24.0-23.8
OM32273*	25.0-24.0	

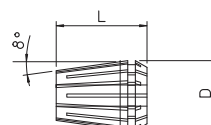
* Collets over 20mm diameter have shorter L dimension

ER32 COLLETS ULTRA PRECISION

- Ultra Precision ER Collets
- (<5µ accuracy)
- Clamping Range 1.0 - 20.0mm



Part Number	Description	Clamping Size (mm)
OM32299	ER32 Ultra Precision Collet (5 micron accuracy)	1.0-0.5
OM32300		1.5-1.0
OM32301		2.0-1.5
OM32302		2.5-2.0
OM32303		3.0-2.5
OM32304		3.5-2.5
OM32305		4.0-3.0
OM32306		4.5-3.5
OM32307		5.0-4.0
OM32308		6.0-5.0
OM32309		7.0-6.0
OM32310		8.0-7.0
OM32311		9.0-8.0
OM32312		10.0-9.0
OM32313		11.0-10.0
OM32314		12.0-11.0
OM32315		13.0-12.0
OM32316		14.0-13.0
OM32317		15.0-14.0
OM32318		16.0-15.0
OM32319		17.0-16.0
OM32320		18.0-17.0
OM32321	19.0-18.0	
OM32322	20.0-19.0	



D	33mm
L	40mm
Clamping Range	1.0 - 20.0mm

ER40 COLLETS STANDARD

- Standard ER Collets
- (<10µ accuracy)
- Clamping Range 2.0 - 32.0mm



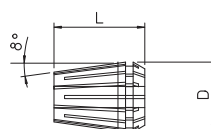
Part Number	Description	Clamping Size (mm)
OM32351	ER40 Standard Collet (10 micron accuracy)	2.0-1.5
OM32352		2.5-2.0
OM32327		3.0-2.0
OM32353		3.5-2.5
OM32328		4.0-3.0
OM32354		4.5-3.5
OM32329		5.0-4.0
OM32330		6.0-5.0
OM32331		7.0-6.0
OM32332		8.0-7.0
OM32333		9.0-8.0
OM32334		10.0-9.0
OM32335		11.0-10.0
OM32336		12.0-11.0
OM32337		13.0-12.0
OM32338		14.0-13.0
OM32339		15.0-14.0
OM32340		16.0-15.0
OM32341		17.0-16.0
OM32342		18.0-17.0
OM32343		19.0-18.0
OM32344		20.0-19.0
OM32345		21.0-20.0
OM32346		22.0-21.0
OM32347		23.0-22.0
OM32348		24.0-23.0
OM32349		25.0-24.0
OM32350		26.0-25.0
OM33056*		27.0-26.8
OM33057*		28.0-27.8
OM33058*		29.0-28.8
OM32355*		30.0-29.8
OM33060*	31.0-30.8	
OM32356*	32.0-31.8	

ER40 COLLETS ULTRA PRECISION

- Ultra Precision ER Collets
- (<5µ accuracy)
- Clamping Range 2.0 - 32.0mm



Part Number	Description	Clamping Size (mm)
OM32387	ER40 Ultra Precision Collet (5 micron accuracy)	2.0-1.5
OM32388		2.5-2.0
OM32389		3.0-2.5
OM32390		3.5-2.5
OM32391		4.0-3.0
OM32392		4.5-3.5
OM32393		5.0-4.0
OM32394		6.0-5.0
OM32395		7.0-6.0
OM32396		8.0-7.0
OM32397		9.0-8.0
OM32398		10.0-9.0
OM32399		11.0-10.0
OM32400		12.0-11.0
OM32401		13.0-12.0
OM32402		14.0-13.0
OM32403		15.0-14.0
OM32404		16.0-15.0
OM32405		17.0-16.0
OM32406		18.0-17.0
OM32407		19.0-18.0
OM32408		20.0-19.0
OM32409		21.0-20.0
OM32410		22.0-21.0
OM32411		23.0-22.0
OM32412		24.0-23.0
OM32413		25.0-24.0
OM32414		26.0-25.0
OM32415*		30.0-29.8
OM32416*		32.0-31.0



D	41mm
L	46mm
Clamping Range	2.0 - 26.0mm

ER COLLETS

* Collets over 26mm diameter have shorter L dimension

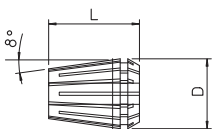
ER50 COLLETS STANDARD

- Standard ER Collets
- (<10µ accuracy)
- Clamping Range 12.0 - 40.0mm



Part Number	Description	Clamping Size (mm)
OM32420	ER50 Standard Collet (10 micron accuracy)	12.0-10.0
OM32421		14.0-12.0
OM32422		16.0-14.0
OM32423		18.0-16.0
OM32424		20.0-18.0
OM32425		22.0-20.0
OM32426		24.0-22.0
OM32427		25.0-23.0
OM32428		26.0-24.0
OM32429		28.0-26.0
OM32430		30.0-28.0
OM32431		32.0-30.0
OM32432		34.0-32.0
OM33062*		36.0-35.8
OM33063*		38.0-37.8
OM33064*		40.0-38.8

* Collets over 34mm diameter have shorter L dimension



D	52mm
L	460mm
Clamping Range	12.0 - 34.0mm

ER16 STANDARD SEALED COLLETS

- Rubber Seal
- (<10µ accuracy)
- Clamping Range 3-10mm



Part Number	Description	Clamping Size (mm)
OM32462	ER16 Coolant Sealed Standard Collet (<10 micron accuracy)	3
OM32463		4
OM32464		5
OM32465		6
OM32466		7
OM32467		8
OM32468		9
OM32469		10



ER20 STANDARD SEALED COLLETS

- Rubber Seal
- (<10µ accuracy)
- Clamping Range 3-13mm



Part Number	Description	Clamping Size (mm)
OM32489	ER20 Coolant Sealed Standard Collet (<10 micron accuracy)	3
OM32490		4
OM32491		5
OM32492		6
OM32493		7
OM32494		8
OM32495		9
OM32496		10
OM32497		11
OM32498		12
OM32499		13



ER COLLETS

ER25 STANDARD SEALED COLLETS

- Rubber Seal
- (<10 μ accuracy)
- Clamping Range 3-16mm



Part Number	Description	Clamping Size (mm)
OM32525	ER25 Coolant Sealed Standard Collet (<10 micron accuracy)	3
OM32526		4
OM32527		5
OM32528		6
OM32529		7
OM32530		8
OM32531		9
OM32532		10
OM32533		11
OM32534		12
OM32535		13
OM32536		14
OM32537		15
OM32538		16



ER32 STANDARD SEALED COLLETS

- Rubber Seal
- (<10 μ accuracy)
- Clamping Range 3-20mm



Part Number	Description	Clamping Size (mm)
OM32570	ER32 Coolant Sealed Standard Collet (<10 micron accuracy)	3
OM32571		4
OM32572		5
OM32573		6
OM32574		7
OM32575		8
OM32576		9
OM32577		10
OM32578		11
OM32579		12
OM32580		13
OM32581		14
OM32582		15
OM32583		16
OM32584		17
OM32585		18
OM32586		19
OM32587		20



ER40 STANDARD SEALED COLLETS

- Rubber Seal
- (<10µ accuracy)
- Clamping Range 3-26mm



Part Number	Description	Clamping Size (mm)
OM32627	ER40 Coolant Sealed Standard Collet (<10 micron accuracy)	3
OM32628		4
OM32629		5
OM32630		6
OM32631		7
OM32632		8
OM32633		9
OM32634		10
OM32635		11
OM32636		12
OM32637		13
OM32638		14
OM32639		15
OM32640		16
OM32641		17
OM32642		18
OM32643		19
OM32644		20
OM32645		21
OM32646		22
OM32647		23
OM32648		24
OM32649		25
OM32650		26

ER COLLETS

ER11 HIGH PRESSURE SEALED COLLETS COOLANT SEALED COLLETS

- Integral Metal Seal for High Pressure Cooling - 120 bar
- (<10 μ accuracy)
- Clamping Range 3-7mm



Part Number	Description	Clamping Size (mm)
OM33604	ER11 High Pressure Coolant Sealed Collet (<10 micron accuracy)	3
OM33605		4
OM33606		4.5
OM33607		5
OM33608		5.5
OM33609		6
OM33610		6.5
OM33611		7

ER16 HIGH PRESSURE SEALED COLLETS COOLANT SEALED COLLETS

- Integral Metal Seal for High Pressure Cooling - 120 bar
- (<10 μ accuracy)
- Clamping Range 3-10mm



Part Number	Description	Clamping Size (mm)
OM33500	ER16 High Pressure Coolant Sealed Collet (<10 micron accuracy)	3
OM33501		4
OM33502		5
OM33503		6
OM33504		7
OM33505		8
OM33506		9
OM33507		10

ER20 HIGH PRESSURE SEALED COLLETS COOLANT SEALED COLLETS

- Integral Metal Seal for High Pressure Cooling - 120 bar
- (<10µ accuracy)
- Clamping Range 3-13mm



Part Number	Description	Clamping Size (mm)
OM33508	ER20 High Pressure Coolant Sealed Collet (<10 micron accuracy)	3
OM33509		4
OM33510		5
OM33511		6
OM33512		7
OM33513		8
OM33514		9
OM33515		10
OM33516		11
OM33517		12
OM33518	13	



ER25 HIGH PRESSURE SEALED COLLETS COOLANT SEALED COLLETS

- Integral Metal Seal for High Pressure Cooling - 120 bar
- (<10µ accuracy)
- Clamping Range 3-16mm



Part Number	Description	Clamping Size (mm)
OM33519	ER25 High Pressure Coolant Sealed Collet (<10 micron accuracy)	3
OM33520		4
OM33521		5
OM33522		6
OM33523		7
OM33524		8
OM33525		9
OM33526		10
OM33527		11
OM33528		12
OM33529		13
OM33530		14
OM33531		15
OM33532		16



ER COLLETS

ER32 HIGH PRESSURE SEALED COLLETS COOLANT SEALED COLLETS

- Integral Metal Seal for High Pressure Cooling - 120 bar
- (<10µ accuracy)
- Clamping Range 3-20mm



Part Number	Description	Clamping Size (mm)
OM33533	ER32 High Pressure Coolant Sealed Collet (<10 micron accuracy)	3
OM33534		4
OM33535		5
OM33536		6
OM33537		7
OM33538		8
OM33539		9
OM33540		10
OM33541		11
OM33542		12
OM33543		13
OM33544		14
OM33545		15
OM33546		16
OM33547		17
OM33548		18
OM33549		19
OM33550	20	

ER40 HIGH PRESSURE SEALED COLLETS

COOLANT SEALED COLLETS

- Integral Metal Seal for High Pressure Cooling - 120 bar
- (<10µ accuracy)
- Clamping Range 3-26mm



Part Number	Description	Clamping Size (mm)
OM33551	ER40 High Pressure Coolant Sealed Collet (<10 micron accuracy)	3
OM33552		4
OM33553		5
OM33554		6
OM33555		7
OM33556		8
OM33557		9
OM33558		10
OM33559		11
OM33560		12
OM33561		13
OM33562		14
OM33563		15
OM33564		16
OM33565		17
OM33566		18
OM33567		19
OM33568		20
OM33569		21
OM33570		22
OM33571		23
OM33572		24
OM33573		25
OM33574		26

ER COLLETS

ER16 JET COOLANT SEALED COLLETS

COOLANT SEALED COLLETS

- <10µ accuracy
- Coolant channels on front face of collet
- For tools without through coolant
- Clamping Range 3-10mm



Part Number	Description	Clamping Size (mm)
OM36300	ER16 Jet Coolant Collet (<10 micron accuracy)	3
OM36301		4
OM36302		5
OM36303		6
OM36304		7
OM36305		8
OM36306		9
OM36307		10



ER20 JET COOLANT SEALED COLLETS

COOLANT SEALED COLLETS

- Coolant channels on front face of collet
- <10µ accuracy
- For tools without through coolant
- Clamping Range 3-13mm



Part Number	Description	Clamping Size (mm)
OM36308	ER20 Jet Coolant Collet (<10 micron accuracy)	3
OM36309		4
OM36310		5
OM36311		6
OM36312		7
OM36313		8
OM36314		9
OM36315		10
OM36316		11
OM36317		12
OM36318		13



ER25 JET COOLANT SEALED COLLETS

COOLANT SEALED COLLETS

- Coolant channels on front face of collet
- <10µ accuracy)
- For tools without through coolant
- Clamping Range 3-16mm



Part Number	Description	Clamping Size (mm)
OM36319	ER25 Jet Coolant Collet (<10 micron accuracy)	3
OM36320		4
OM36321		5
OM36322		6
OM36323		7
OM36324		8
OM36325		9
OM36326		10
OM36327		11
OM36328		12
OM36329		13
OM36330		14
OM36331		15
OM36332		16

ER32 JET COOLANT SEALED COLLETS

COOLANT SEALED COLLETS

- Coolant channels on front face of collet
- (<10µ accuracy)
- For tools without through coolant
- Clamping Range 3-20mm



ER COLLETS



Part Number	Description	Clamping Size (mm)
OM36333	ER32 Jet Coolant Collet (<10 micron accuracy)	3
OM36334		4
OM36335		5
OM36336		6
OM36337		7
OM36338		8
OM36339		9
OM36340		10
OM36341		11
OM36342		12
OM36343		13
OM36344		14
OM36345		15
OM36346		16
OM36347		17
OM36348		18
OM36349		19
OM36350		20

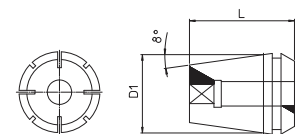
ER16 TAPPING COLLETS

TAPPING COLLETS WITH SQUARE

- ($<10\mu$ accuracy)



Part Number	Description	Tap Shank (mm)	Square (mm)
OM32903	ER16 Tapping Collet (<10 micron accuracy)	2.8	2.1
OM32997		3	2.5
OM32904		3.5	2.7
OM32998		4	3
OM32905		4	3.15/3.2
OM32906		4.5	3.4
OM32907		5	4
OM32908		5.5	4.3
OM33000		6	4.5
OM32909		6	4.9
OM32999		6.2	5
OM32910		6.3	5
OM32911		7	5.5
OM32912		8	6.2/6.3



D	16.5mm
L	27.5mm

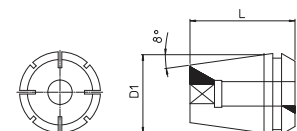
ER20 TAPPING COLLETS

TAPPING COLLETS WITH SQUARE

- ($<10\mu$ accuracy)



Part Number	Description	Tap Shank (mm)	Square (mm)
OM32913	ER20 Tapping Collet (<10 micron accuracy)	3.5	2.7
OM32914		4	3.15/3.2
OM32915		4.5	3.4
OM32916		5	4
OM32917		5.5	4.3
OM32918		6	4.9
OM32919		6.3	5
OM32920		7	5.5
OM32921		8	6.2/6.3
OM32922		9	7.0/7.1
OM32923		10	8
OM32924		11	9
OM32925		12	9



D	20.5mm
L	32.5mm

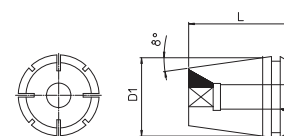
ER25 TAPPING COLLETS

TAPPING COLLETS WITH SQUARE

- (<10μ accuracy)



Part Number	Description	Tap Shank (mm)	Square (mm)
OM32939	ER25 Tapping Collet (<10 micron accuracy)	3.5	2.7
OM33002		4	3
OM32940		4	3.15/3.2
OM32941		4.5	3.4
OM32942		5	4
OM32943		5.5	4.3
OM33004		6	4.5
OM32944		6	4.9
OM33003		6.2	5
OM32945		6.3	5
OM32946		7	5.5
OM32947		8	6.2/6.3
OM33005		8.5	6.5
OM32948		9	7.0/7.1
OM32949		10	8
OM33001		10.5	8
OM32950		11	9
OM32951		12	9
OM32952		12.5	10
OM32953		14	11.0/11.2
OM32954	16	12	



D	25.5mm
L	34mm

ER COLLETS

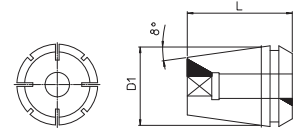
ER32 TAPPING COLLETS

TAPPING COLLETS WITH SQUARE

- (<10 μ accuracy)



Part Number	Description	Tap Shank (mm)	Square (mm)
OM32955	ER32 Tapping Collet (<10 micron accuracy)	3.5	2.7
OM32956		4	3.15/3.2
OM32957		4.5	3.4
OM32958		5	4
OM32959		5.5	4.3
OM33007		6	4.5
OM32960		6	4.9
OM32961		6.3	5
OM32962		7	5.5
OM32963		8	6.2/6.3
OM33008		8.5	6.5
OM32964		9	7.0/7.1
OM32965		10	8
OM33006		10.5	8
OM32966		11	9
OM32967		12	9
OM32968		12.5	10
OM32969		14	11.0/11.2
OM32970		16	12
OM32971		18	14.0/14.5
OM32972	20	16	

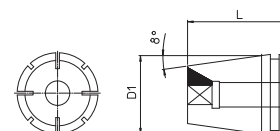


D	32.5mm
L	40mm

ER40 TAPPING COLLETS

TAPPING COLLETS WITH SQUARE

- (<10µ accuracy)



D	40.5mm
L	46mm



Part Number	Description	Tap Shank (mm)	Square (mm)
OM32973	ER40 Tapping Collet (<10 micron accuracy)	4	3.15/3.2
OM32974		4.5	3.4
OM32975		5	4
OM32976		5.5	4.3
OM32977		6	4.9
OM32978		6.3	5
OM32979		7	5.5
OM32980		8	6.2/6.3
OM32981		9	7.0/7.1
OM32982		10	8
OM32983		11	9
OM32984		12	9
OM32985		12.5	10
OM32986		14	11.0/11.2
OM32987		16	12
OM32988		18	14.0/14.5
OM32989		20	16
OM32990		22	18
OM32991		25	20

ER8 IMPERIAL COLLETS

CLAMPING RANGE 1/16 - 3/16

- <10µ accuracy)



Part Number	Description	Clamping Size
OM32702	ER8 Standard Collet (10 micron accuracy)	1/16"
OM32703		1/8"
OM32704		3/16"



ER11 IMPERIAL COLLETS

CLAMPING RANGE 1/16 - 1/4

- <10µ accuracy)



Part Number	Description	Clamping Size
OM32711	ER11 Standard Collet (10 micron accuracy)	1/16"
OM32712		1/8"
OM32713		3/16"
OM32714		1/4"



ER16 IMPERIAL COLLETS

CLAMPING RANGE 1/16 - 3/8

- <10µ accuracy)



Part Number	Description	Clamping Size
OM32723	ER16 Standard Collet (10 micron accuracy)	1/16"
OM32724		1/8"
OM32725		3/16"
OM32726		1/4"
OM32727		5/16"
OM32728		3/8"



ER20 IMPERIAL COLLETS

CLAMPING RANGE 1/16 - 1/2

- <10µ accuracy)



Part Number	Description	Clamping Size
OM32741	ER20 Standard Collet (10 micron accuracy)	1/16"
OM32742		1/8"
OM32743		3/16"
OM32744		1/4"
OM32745		5/16"
OM32746		3/8"
OM32747		7/16"
OM32748		1/2"



ER25 IMPERIAL COLLETS

CLAMPING RANGE 1/16 - 5/8

- (<10µ accuracy)



Part Number	Description	Clamping Size
OM32765	ER25 Standard Collet (10 micron accuracy)	1/16
OM32766		1/8
OM32767		3/16
OM32768		1/4
OM32769		5/16
OM32770		3/8
OM32771		7/16
OM32772		1/2
OM32773		9/16
OM32774		5/8



ER32 IMPERIAL COLLETS

CLAMPING RANGE 1/16 - 3/8

- (<10µ accuracy)



Part Number	Description	Clamping Size
OM32795	ER32 Standard Collet (10 micron accuracy)	1/8"
OM32796		3/16"
OM32797		1/4"
OM32798		5/16"
OM32799		3/8"
OM32800		7/16"
OM32801		1/2"
OM32802		9/16"
OM32803		5/8"
OM32804		11/16"
OM32805		3/4"



ER8 COLLET SETS



Part Number	Description	Accuracy	Collet Range
OM32027	ER8 Standard Set	<10 micron	1 - 5mm (9 pcs)
OM32029	ER8 Ultra Precision Set	<5 micron	1 - 5mm (9 pcs)



ER11 COLLET SETS

ER COLLETS



Part Number	Description	Accuracy	Collet Range
OM32069	ER11 Standard Set	<10 micron	1 - 7mm (13 pcs)
OM32071	ER11 Ultra Precision Set	<5 micron	1 - 7mm (13 pcs)
OM33612	ER11 High Pressure Sealed Set	<10 micron	3 - 7mm (8 pcs)



ER16 COLLET SETS



Part Number	Description	Accuracy	Collet Range
OM32129	ER16 Standard Set	<10 micron	1 - 10mm (10 pcs)
OM32131	ER16 Ultra Precision Set	<5 micron	1 - 10mm (10 pcs)
OM32486	ER16 Standard Sealed Set	<10 micron	3 - 10mm (8 pcs)
OM33575	ER16 High Pressure Sealed Set	<10 micron	3 - 10mm (8 pcs)
OM32992	ER16 Tapping Collet Set	<10 micron	(10 pcs)



ER20 COLLET SETS



Part Number	Description	Accuracy	Collet Range
OM32183	ER20 Standard Set	<10 micron	2 - 13mm (12 pcs)
OM32185	ER20 Ultra Precision Set	<5 micron	2 - 13mm (12 pcs)
OM32522	ER20 Standard Sealed Set	<10 micron	3 - 13mm (11 pcs)
OM33576	ER20 High Pressure Sealed Set	<10 micron	3 - 13mm (11 pcs)
OM32993	ER20 Tapping Collet Set	<10 micron	(13 pcs)



ER25 COLLET SETS



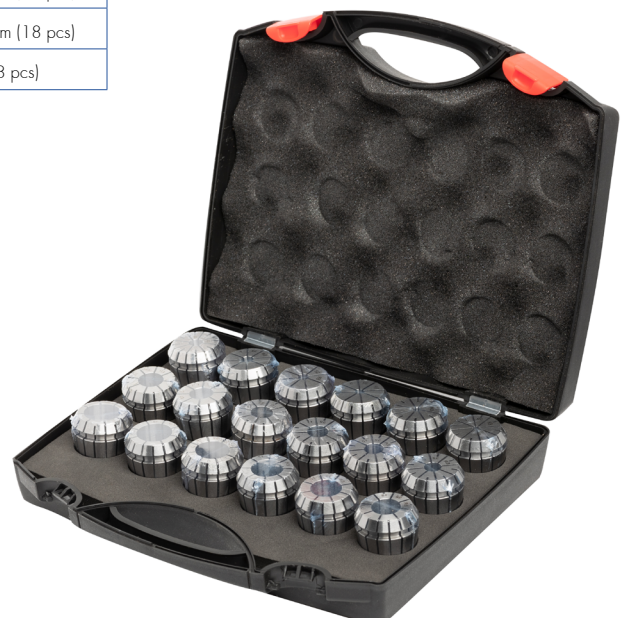
Part Number	Description	Accuracy	Collet Range
OM32246	ER25 Standard Set	<10 micron	2 - 16mm (15 pcs)
OM32248	ER25 Ultra Precision Set	<5 micron	2 - 16mm (15 pcs)
OM32567	ER25 Standard Sealed Set	<10 micron	3 - 16mm (14 pcs)
OM33577	ER25 High Pressure Sealed Set	<10 micron	3 - 16mm (14 pcs)
OM32994	ER25 Tapping Collet Set	<10 micron	(15 pcs)



ER32 COLLET SETS



Part Number	Description	Accuracy	Collet Range
OM32324	ER32 Standard Set	<10 micron	3 - 20mm (18 pcs)
OM32326	ER32 Ultra Precision Set	<5 micron	3 - 20mm (18 pcs)
OM32624	ER32 Standard Sealed Set	<10 micron	3 - 20mm (18 pcs)
OM33578	ER32 High Pressure Sealed Set	<10 micron	3 - 20mm (18 pcs)
OM32995	ER32 Tapping Collet Set	<10 micron	(18 pcs)



ER40 COLLET SETS



Part Number	Description	Accuracy	Collet Range
OM32417	ER40 Standard Set	<10 micron	4 - 26mm (23 pcs)
OM32419	ER40 Ultra Precision Set	<5 micron	4 - 26mm (23 pcs)
OM32699	ER40 Standard Sealed Set	<10 micron	3 - 25mm (19 pcs)
OM33579	ER40 High Pressure Sealed Set	<10 micron	3 - 25mm (19 pcs)
OM32996	ER40 Tapping Collet Set	<10 micron	(19 pcs)



ER50 COLLET SETS



Part Number	Description	Accuracy	Collet Range
OM32459	ER50 Standard Set	<10 micron	12 - 34mm (12 pcs)



OZ COLLETS

OZ 12 COLLETS

Standard Collets

- (<10µ accuracy)
- Clamping Range 1.0 - 12.0mm



Part Number	Description	Clamping Size (mm)
OM33580	OZ 12 Standard Collets (<10µ accuracy)	1
OM33581		1.5
OM33582		2
OM33583		2.5
OM33584		3
OM33585		3.5
OM33586		4
OM33587		4.5
OM33588		5
OM33589		5.5
OM33590		6
OM33591		6.5
OM33592		7
OM33593		7.5
OM33594		8
OM33595		8.5
OM33596		9
OM33597		9.5
OM33598		10
OM33599		10.5
OM33600	11	
OM33601	11.5	
OM33602	12	

OZ 16 COLLETS

Standard Collets

- (<10µ accuracy)
- Clamping Range 2.0 - 16.0mm



Part Number	Description	Clamping Size (mm)
OM30476	OZ 16 Standard Collets (<10µ accuracy)	2
OM30477		3
OM30478		4
OM30479		5
OM30480		6
OM30481		7
OM30482		8
OM30483		9
OM30484		10
OM30485		11
OM30486		12
OM30487		13
OM30488		14
OM30489		15
OM30490		16

OZ 25 COLLETS

Standard Collets

- (<10µ accuracy)
- Clamping Range 2.0 - 25.0mm



Part Number	Description	Clamping Size (mm)
OM31574	OZ 25 Standard Collets (<10µ accuracy)	2
OM31575		3
OM31576		4
OM31577		5
OM31578		6
OM31579		7
OM31580		8
OM31581		9
OM31582		10
OM31583		11
OM31584		12
OM31585		13
OM31586		14
OM31587		15
OM31588		16
OM31589		17
OM31590		18
OM31591		19
OM31592		20
OM31593		21
OM31594		22
OM31595		23
OM31596		24
OM31597		25

OZ 32 COLLETS

Standard Collets

- (<10µ accuracy)
- Clamping Range 3.0 - 32.0mm



Part Number	Description	Clamping Size (mm)
OM31598	OZ 32 Standard Collets (<10µ accuracy)	3
OM31599		4
OM31600		5
OM31601		6
OM31602		7
OM31603		8
OM31604		9
OM31605		10
OM31606		11
OM31607		12
OM31608		13
OM31609		14
OM31610		15
OM31611		16
OM31612		17
OM31613		18
OM31614		19
OM31615		20
OM31616		21
OM31617		22
OM31618		23
OM31619		24
OM31620		25
OM31621		26
OM31622		27
OM31623		28
OM31624		29
OM31625		30
OM31626		31
OM31627		32

OZ COLLETS

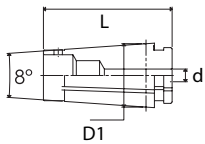
GSK COLLETS

GSK 06 COLLETS Ultra Precision Collets

- (<5µ accuracy)
- Clamping Range 1.0 - 6.0mm



Part Number	Clamping Size (d)
OM30500	1
OM30501	1.5
OM30502	2
OM30503	2.5
OM30504	3
OM30505	3.5
OM30506	4
OM30507	4.5
OM30508	5
OM30509	5.5
OM30510	6



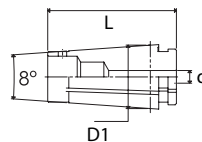
D	10mm
L	24.6mm
Clamping Range	1.0 - 6.0mm

GSK 10 COLLETS Ultra Precision Collets

- (<5µ accuracy)
- Clamping Range 1.0 - 10.0mm



Part Number	Clamping Size (d)
OM30511	1
OM30512	1.5
OM30513	2
OM30514	2.5
OM30515	3
OM30516	3.5
OM30517	4
OM30518	4.5
OM30519	5
OM30520	5.5
OM30521	6
OM30522	6.5
OM30523	7
OM30524	7.5
OM30525	8
OM30526	8.5
OM30527	9
OM30528	9.5
OM30529	10



D	15.5mm
L	30.5mm
Clamping Range	1.0 - 10.0mm

GSK 16 COLLETS

Ultra Precision Collets

- (<5µ accuracy)
- Clamping Range 1.0 - 16.0mm



Part Number	Clamping Size (d)
OM30530	1
OM30531	1.5
OM30532	2
OM30533	2.5
OM30534	3
OM30535	3.5
OM30536	4
OM30537	4.5
OM30538	5
OM30539	5.5
OM30540	6
OM30541	6.5
OM30542	7
OM30543	7.5
OM30544	8
OM30545	8.5
OM30546	9
OM30547	9.5
OM30548	10
OM30549	10.5
OM30550	11
OM30551	11.5
OM30552	12
OM30553	12.5
OM30554	13
OM30555	13.5
OM30556	14
OM30557	14.5
OM30558	15
OM30559	15.5
OM30560	16

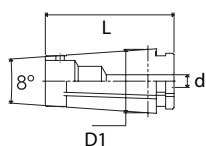
GSK 25 COLLETS

Ultra Precision Collets

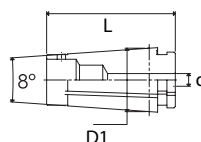
- (<5µ accuracy)
- Clamping Range 1.0 - 25.0mm



Part Number	Clamping Size (d)
OM30561	1
OM30562	1.5
OM30563	2
OM30564	2.5
OM30565	3
OM30566	3.5
OM30567	4
OM30568	4.5
OM30569	5
OM30570	5.5
OM30571	6
OM30572	6.5
OM30573	7
OM30574	7.5
OM30575	8
OM30576	8.5
OM30577	9
OM30578	9.5
OM30579	10
OM30580	10.5
OM30581	11
OM30582	11.5
OM30583	12
OM30584	12.5
OM30585	13
OM30586	13.5
OM30587	14
OM30588	14.5
OM30589	15
OM30590	15.5
OM30591	16
OM30592	16.5
OM30593	17
OM30594	17.5
OM30595	18
OM30596	18.5
OM30597	19
OM30598	19.5
OM30599	20
OM30600	20.5
OM30601	21
OM30602	21.5
OM30603	22
OM30604	22.5
OM30605	23
OM30606	23.5
OM30607	24
OM30608	24.5
OM30609	25



D	24.6mm
L	45mm
Clamping Range	1.0 - 16.0mm



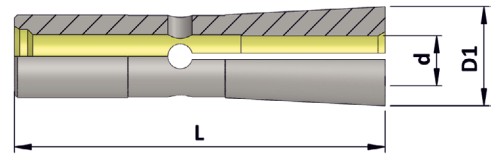
D	35mm
L	57mm
Clamping Range	1.0 - 16.0mm

STRAIGHT COLLETS

DMC COLLETS

Ultra Precision Draw Back Collets

- (<5µ accuracy)
- Clamping Range 2.0 - 10.0mm



Part Number	Description	Dimensions (mm)		
		Clamping Size (d)	D1	L
OM30722	DMC 06	2	9.6	36
OM30723		3	9.6	36
OM30724		4	9.6	36
OM30725		5	9.6	36
OM30726		6	9.6	36
OM30728	DMC 08	3	15	45
OM30729		4	15	45
OM30731		6	15	45
OM30733		8	15	45
OM33676	DMC 10	4	19.1	52
OM33677		6	19.1	52
OM33678		8	19.1	52
OM33679		10	19.1	52



STRAIGHT SHANK COLLETS

For Power Milling Chucks



Part Number	Description	Outside Dia (mm)	Clamping Size (mm)
OM33009	SC20 Straight Shank Collet	20	6
OM33010			8
OM33011			10
OM33012			12
OM33013			16
OM33014	SC25 Straight Shank Collet	25	6
OM33015			8
OM33016			10
OM33017			12
OM33018			16
OM33019	SC32 Straight Shank Collet	32	20
OM33020			6
OM33021			8
OM33022			10
OM33023			12
OM33024			16
OM33025			20
OM33026	25		

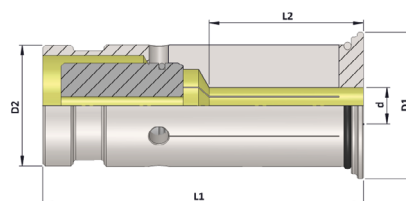


STRAIGHT COLLETS

HYDRAULIC REDUCTION SLEEVES

RS Sealed Sleeves for Hydraulic Expansion Chucks & Premium Power Milling Chucks

- Concentricity 0.005mm
- Wire cut slots to ensure no leakage & maximum accuracy



Part Number	Description	Dimensions (mm)				
		d	D1	D2	L1	L2
OM32214	RS SEAL 12	3	16.5	12	48	15
OM32215		4	16.5	12	48	14
OM32216		5	16.5	12	48	18
OM32217		6	16.5	12	48	25
OM32218		8	16.5	12	48	26
OM32219	RS SEAL 20	3	29	20	52.5	14
OM32220		4	29	20	52.5	15
OM32221		5	29	20	52.5	18
OM32222		6	29	20	52.5	25
OM32223		7	29	20	52.5	25
OM32224		8	29	20	52.5	30
OM32225		9	29	20	52.5	30
OM32274		10	29	20	52.5	33
OM32275		11	29	20	52.5	33
OM32276		12	29	20	52.5	34
OM32277		13	29	20	52.5	34
OM32278		14	29	20	52.5	34
OM32279		15	29	20	52.5	40
OM32280		16	29	20	52.5	40
OM32281	RS SEAL 32	6	39	32	63.5	25
OM32282		8	39	32	63.5	25
OM32283		10	39	32	63.5	33
OM32284		12	39	32	63.5	34
OM32285		14	39	32	63.5	34
OM32286		16	39	32	63.5	40
OM32287		18	39	32	63.5	40
OM32288		20	39	32	63.5	40
OM32289		25	39	32	63.5	42



STRAIGHT
COLLETS

QUICK CHANGE TAPPING COLLETS

QUICK CHANGE ER TAPPING COLLETS

QCTC-ER16 Rigid Collets

- Quick Release System
- No Compression & No Expansion
- Recommended for use with MLC Synchro Tapping Chucks



As per (ISO) (529-1975) Standards

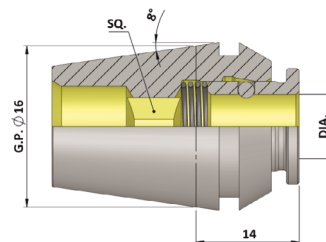
Part Number	Description	Dia	Square
OM32542	QCTC ER16 (ISO)	3.15	2.50
OM32543		3.55	2.80
OM32544		4.00	3.15
OM32545		4.50	3.55
OM32546		5.00	4.00
OM32547		5.60	4.50
OM32548		6.30	5.00

As per (DIN) Standards

Part Number	Description	Dia	Square
OM32549	QCTC ER16 (DIN)	3.50	2.70
OM32550		4.00	3.00
OM32551		4.50	3.40
OM32552		6.00	4.90

As per (JIS) Standards

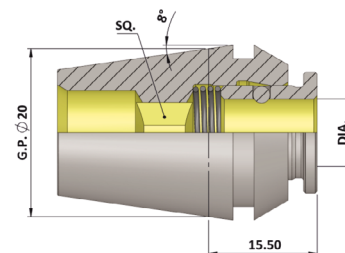
Part Number	Description	Dia	Square
OM32550	QCTC ER16 (JIS)	4.00	3.00
OM32568		4.00	3.20
OM32546		5.00	4.00
OM33098		5.50	4.50
OM32588		6.00	4.50
OM32589		6.10	5.00
OM32590		6.20	5.00



QUICK CHANGE ER TAPPING COLLETS

QCTC-ER20 Rigid Collets

- Quick Release System
- No Compression & No Expansion
- Recommended for use with MLC Synchro Tapping Chucks



As per (ISO) (529-1975) Standards

Part Number	Description	Dia	Square
OM32591	QCTC ER20 (ISO)	3.15	2.50
OM32592		3.55	2.80
OM32593		4.00	3.15
OM32594		4.50	3.55
OM32595		5.00	4.00
OM32596		5.60	4.50
OM32597		6.30	5.00
OM32598		7.10	5.60

As per (DIN) Standards

Part Number	Description	Dia	Square
OM32599	QCTC ER20 (DIN)	3.50	2.70
OM32600		4.00	3.00
OM32601		4.50	3.40
OM32602		6.00	4.90
OM32603		7.00	5.5

As per (JIS) Standards

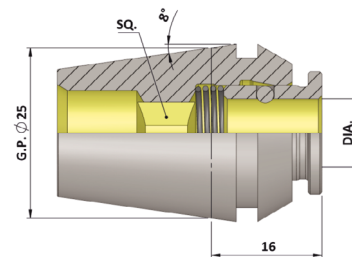
Part Number	Description	Dia	Square
OM32600	QCTC ER20 (JIS)	4.00	3.00
OM32604		4.00	3.20
OM32595		5.00	4.00
OM32605		5.50	4.50
OM32625		6.00	4.50
OM32651		6.10	5.00
OM32652		6.20	5.00
OM32603		7.00	5.50



QUICK CHANGE ER TAPPING COLLETS

QCTC-ER25 Rigid Collets

- Quick Release System
- No Compression & No Expansion
- Recommended for use with MLC Synchro Tapping Chucks



As per (ISO) (529-1975) Standards

Part Number	Description	Dia	Square
OM32653	QCTC ER25 (ISO)	3.15	2.50
OM32654		3.55	2.80
OM32655		4.00	3.15
OM32656		4.50	3.55
OM32657		5.00	4.00
OM32658		5.60	4.50
OM32659		6.30	5.00
OM32660		7.10	5.60
OM32661		8.00	6.30
OM32662		9.00	7.10
OM32663		10.00	8.00

As per (DIN) Standards

Part Number	Description	Dia	Square
OM32664	QCTC ER25 (DIN)	3.50	2.70
OM32665		4.00	3.00
OM32666		4.50	3.40
OM32667		6.00	4.90
OM32668		7.00	5.50
OM32705		8.00	6.20
OM32669		9.00	7.00
OM32663		10.00	8.00

As per (JIS) Standards

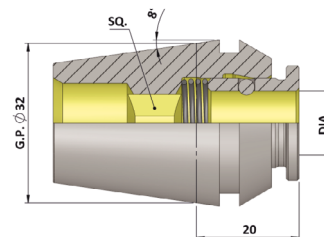
Part Number	Description	Dia	Square
OM32665	QCTC ER25 (JIS)	4.00	3.00
OM32670		4.00	3.20
OM32657		5.00	4.00
OM32671		5.50	4.50
OM32672		6.00	4.50
OM32673		6.10	5.00
OM32674		6.20	5.00
OM32668		7.00	5.50
OM32700		8.00	6.00
OM32705		8.00	6.20
OM32706		8.50	6.50
OM32669		9.00	7.00



QUICK CHANGE ER TAPPING COLLETS

QCTC-ER32 Rigid Collets

- Quick Release System
- No Compression & No Expansion
- Recommended for use with MLC Synchro Tapping Chucks



As per (ISO) (529-1975) Standards

Part Number	Description	Dia	Square
OM32707	QCTC ER32 (ISO)	3.15	2.50
OM32715		3.55	2.80
OM32716		4.00	3.15
OM32717		4.50	3.55
OM32718		5.00	4.00
OM32729		5.60	4.50
OM32730		6.30	5.00
OM32731		7.10	5.60
OM32732		8.00	6.30
OM32733		9.00	7.10
OM32734		10.00	8.00
OM32749		11.20	9.00
OM32750		12.50	10.00
OM32751		14.00	11.20

As per (DIN) Standards

Part Number	Description	Dia	Square
OM32752	QCTC ER32 (DIN)	3.50	2.70
OM32753		4.00	3.00
OM32754		4.50	3.40
OM32755		6.00	4.90
OM32756		7.00	5.50
OM32775		8.00	6.20
OM32776		9.00	7.00
OM32734		10.00	8.00
OM32777		11.00	9.00
OM32778		12.00	9.00
OM32779		14.00	11.00

As per (JIS) Standards

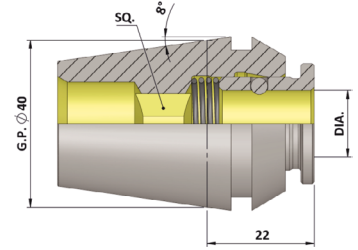
Part Number	Description	Dia	Square
OM32753	QCTC ER32 (JIS)	4.00	3.00
OM32780		4.00	3.20
OM32718		5.00	4.00
OM32781		5.50	4.50
OM32782		6.00	4.50
OM32783		6.10	5.00
OM32784		6.20	5.00
OM32756		7.00	5.50
OM32806		8.00	6.00
OM32775		8.00	6.20
OM32807		8.50	6.50
OM32776		9.00	7.00
OM32808		10.50	8.00
OM32777		11.00	9.00
OM32778		12.00	9.00
OM32750		12.50	10.00
OM32779		14.00	11.00

QUICK CHANGE
TAPPING COLLETS

QUICK CHANGE ER TAPPING COLLETS

QCTC-ER40 Rigid Collets

- Quick Release System
- No Compression & No Expansion
- Recommended for use with MLC Synchro Tapping Chucks



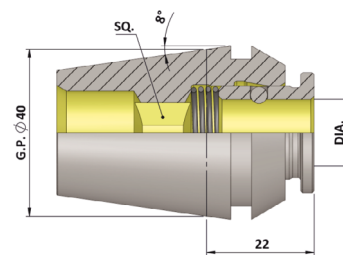
As per (ISO) (529-1975) Standards

Part Number	Description	Dia	Square
OM32809	QCTC ER40 (ISO)	3.15	2.50
OM32810		3.55	2.80
OM32811		4.00	3.15
OM32812		4.50	3.55
OM32813		5.00	4.00
OM32814		5.60	4.50
OM32815		6.30	5.00
OM32816		7.10	5.60
OM32853		8.00	6.30
OM32854		9.00	7.10
OM32855		10.00	8.00
OM32856		11.20	9.00
OM32857		12.50	10.00
OM32858		14.00	11.20
OM32859		16.00	12.50
OM32860		18.00	14.00



As per (DIN) Standards

Part Number	Description	Dia	Square
OM32861	QCTC ER40 (DIN)	3.50	2.70
OM32862		4.00	3.00
OM32863		4.50	3.40
OM32864		6.00	4.90
OM32865		7.00	5.50
OM32866		8.00	6.20
OM32854		9.00	7.00
OM32855		10.00	8.00
OM32867		11.00	9.00
OM32868		12.00	9.00
OM32869		14.00	11.00
OM32870		16.00	12.00
OM32871		18.00	14.50



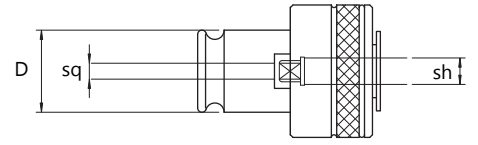
As per (JIS) Standards

Part Number	Description	Dia	Square
OM32862	QCTC ER40 (JIS)	4.00	3.00
OM32872		4.00	3.20
OM32813		5.00	4.00
OM32873		5.50	4.50
OM32874		6.00	4.50
OM32875		6.10	5.00
OM32876		6.20	5.00
OM32865		7.00	5.50
OM32877		8.00	6.00
OM32866		8.00	6.20
OM33059		8.50	6.50
OM32854		9.00	7.00
OM33061		10.50	8.00
OM32867		11.00	9.00
OM32868		12.00	9.00
OM32857		12.50	10.00
OM33092		13.00	10.00
OM32869		14.00	11.00
OM33094		15.00	12.00
OM32870		16.00	12.00
OM32860	18.00	14.00	



QUICK CHANGE TAP ADAPTORS WITH CLUTCH

- For Tension & Compression Tapping Chucks
- Tapping Range M2 - M36



Part Number	Description	Thread	Tap Shank (sh)	Tap Square (sq)	D (mm)
OM30200	Size 1 Tap adaptor with Clutch (FES1)	M2	2.8	2.1	19
OM30201		M3	3.5	2.7	
OM30202		M3.5	4	3	
OM30203		M4	4.5	3.4	
OM30204		M5	6	4.9	
OM30205		M6	6	4.9	
OM30206		M8	8	6.3	
OM30207		M10	10	8	
OM30208		M12	9	7	
OM30209	Size 2 Tap adaptor with Clutch (FES2)	M6	6	4.9	31
OM30210		M8	8	6.2	
OM30211		M10	10	8	
OM30212		M12	9	7	
OM30213		M14	11	9	
OM30214		M16	12	9	
OM30215		M18	14	11	
OM30216		M20	16	12	
OM30217	Size 3 Tap adaptor with Clutch (FES3)	M14	11	9	48
OM30218		M16	12	9	
OM30219		M18	14	11	
OM30220		M20	16	12	
OM30221		M22	18	14.5	
OM30222		M24	18	14.5	
OM30223		M27	20	16	
OM30224		M30	22	18	
OM30225		M33	25	20	
OM30226		M36	28	22	

QUICK CHANGE TAPPING COLLETS

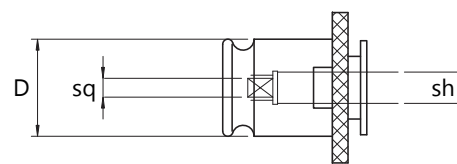
With Clutch:

- Helps reduce broken taps
- Improved thread quality
- Taps & adaptors cannot slip in chuck
- Adjustable clutch control
- Recommended for high value workpieces and materials that are difficult to tap



QUICK CHANGE TAP ADAPTORS WITHOUT CLUTCH

- For Tension & Compression Tapping Chucks
- Tapping Range M2 - M36



Part Number	Description	Thread	Tap Shank (sh)	Tap Square (sq)	D (mm)
OM30227	Size 1 Tap adaptor without Clutch (FE1)	M2	2.8	2.1	19
OM30228		M3	3.5	2.7	
OM30229		M4	4.5	3.4	
OM30230		M5/M6	6	4.9	
OM30231		M8	8	6.2	
OM30232		M10	10	8	
OM30233		M12	9	7	
OM30234	Size 2 Tap adaptor without Clutch (FE2)	M5/M6	6	4.9	31
OM30235		M8	8	6.2	
OM30236		M10	10	8	
OM30237		M12	9	7	
OM30238		M14	11	9	
OM30239		M16	12	9	
OM30240		M18	14	11	
OM30241	Size 3 Tap adaptor without Clutch (FE3)	M20	16	12	48
OM30242		M14	11	9	
OM30243		M16	12	9	
OM30244		M18	14	11	
OM30245		M20	16	12	
OM30246		M24	18	14.5	
OM30247		M27	20	16	
OM30248		M30	22	18	
OM30249		M33	25	20	
OM30250	M36	28	22		



Without Clutch:

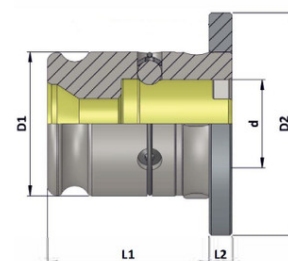
- Lower Cost
- Improved thread quality
- Taps & adaptors cannot slip in chuck
- No clutch control
- Recommended for lower value workpieces

QUICK CHANGE REDUCTION ADAPTORS

- Reduction adaptors for extending clamping ranges of adaptors



Part Number	Description	Dimensions (mm)				
		d	D1	D2	L1	L2
OM30251	Size 2 to Size 1 Tap Collet adaptor	19	31	48	35	5
OM30252	Size 3 to Size 2 Tap Collet adaptor	31	48	70	55.5	6



Tap Shank Dimensions (JIS Standards)

Dimensions (mm)		Tap Size
Dia.	Square	
3.00	2.50	M1, M2.6
4.00	3.00	M3, M3.5
4.00	3.20	M3, M3.5
5.00	4.00	M4, M4.5
5.50	4.50	M5, M5.5
6.00	4.50	M6, 1/4"UNC
6.10	5.00	5/16"UNC
6.20	5.00	M7, M8
7.00	5.50	M9, M10, 3/8"UNC
8.00	6.00	M11, 7/16"UNC, 1/8"P
8.00	6.20	M11, 1/8"BSP
8.50	6.50	M12
9.00	7.00	1/2"UNC
9.50	7.00	M13
10.50	8.00	M14, M15, 9/16"UNC
11.00	9.00	1/4"P
12.00	9.00	5/8"UNC
12.50	10.00	M16
13.00	10.00	M17
14.00	11.00	M18, 3/4"UNC, 3/8"P
15.00	12.00	M20
17.00	13.00	M22, 7/8"UNC
18.00	14.00	1/2"P
19.00	15.00	M24, 25, 5/8"P
20.00	15.00	M26, M27, 1"UNC
21.00	17.00	M28
22.00	17.00	1 1/8" UNC
23.00	17.00	M30, 3/4"P
24.00	19.00	M32, 7/8"UNC
25.00	19.00	M33
26.00	21.00	M34, M35 1"P
28.00	21.00	M36, M38 1 1/8"P
30.00	23.00	M39, M40
32.00	26.00	M42, 1 1/4"P
35.00	26.00	M45, 1 3/8"P
38.00	29.00	M48, 1 1/2"P
40.00	32.00	M52, M56 & 1 7/8"UNC, 2"UNC

Tap Shank Dimensions ANSI (US Standards)

Dimension in Inch		Metric Conversions		Tap Size
Dia.	Square	Dia.	Square	
0.141	0.110	3.59	2.80	1/8" No.6
0.168	0.131	4.27	3.33	5/32" No.8
0.194	0.152	4.93	3.87	3/16" No.10
0.220	0.165	5.59	4.20	No.12
0.255	0.191	6.48	4.86	1/4" No.14
0.313	0.234	7.94	5.95	1/16"Ps 1/18"Ps
0.318	0.238	8.08	6.05	5/16" 3/8"
0.323	0.242	8.21	6.15	5/16" 7/16"
0.367	0.275	9.33	6.99	1/2"
0.381	0.286	9.68	7.27	3/8"
0.429	0.322	10.90	8.18	9/16"
0.438	0.328	11.12	8.34	1/8"Pls
0.480	0.360	12.20	9.15	5/8"
0.542	0.406	13.77	10.31	11/16"
0.563	0.421	14.29	10.70	1/4"Ps
0.590	0.442	14.99	11.23	3/4"
0.652	0.489	16.57	12.43	M20, 13/16"
0.688	0.515	17.47	13.09	12" Ps
0.697	0.523	17.71	13.29	7/8"
0.700	0.531	17.78	13.49	3/8"Ps
0.760	0.570	19.31	14.48	M24, 15/16"
0.800	0.600	20.32	15.24	1"
0.896	0.672	22.76	17.07	1 1/8"
0.906	0.679	23.02	17.25	3/4"P
1.021	0.766	25.94	19.46	1 1/4"
1.108	0.831	28.15	21.11	1 3/8"
1.125	0.843	28.58	21.42	1"P
1.233	0.925	31.32	23.50	1 1/2"
1.313	0.984	33.34	25.00	1 1/4"P
1.430	1.072	36.33	27.23	1 3/4"
1.500	1.125	38.10	28.58	1 1/2"P
1.644	1.233	41.76	31.32	2"

BORING HEADS, ADAPTORS & KITS

BORING HEADS

- High Rigidity & Precision
- 0.01mm Graduation
- Wide range of boring diameters and depths
- 1.1/2x18TPI Thread



Part Number	Description	Head Dia (mm)	Height (mm)	Bar Dia (mm)	Graduation (mm)	Range (mm)
OM31433	F1-12 12mm Boring Head	50	61.6	12	0.01	10-125
OM31434	F1-18 18mm Boring Head	75	80.2	18	0.01	12-225
OM31435	F1-25 25mm Boring Head	100	93.2	25	0.01	15-320

BORING HEAD ADAPTORS

- For Mounting Boring Heads
- Common Mounting Thread 1.1/2 x 18 TPI

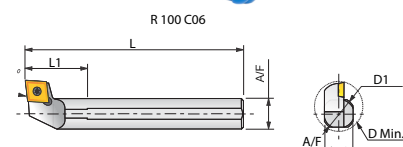
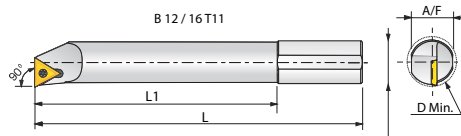
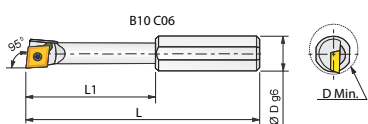


Part Number	Description
OM31061	BT40 F1
OM31134	BT50 F1
OM31192	DV40 F1
OM31531	DV50 F1
OM30795	HSK63A F1
OM31967	DIN2080 30 F1
OM31563	DIN2080 40 F1
OM31990	DIN2080 50 F1
OM31317	R8 F1
OM30370	MT4 F1



12MM AXIAL / RADIAL 4 PIECE BORING BAR SET

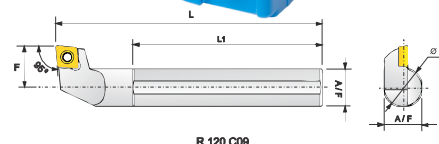
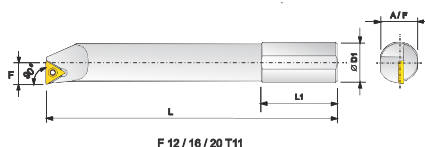
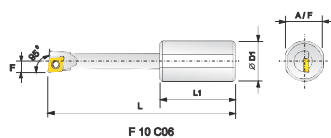
- For F1-12 Boring Head
- 4 Bar Set includes all bars listed below (OM01010)



Part Number	Description	Dimensions (mm)					Insert
		D1	D Min	L	L1	A/F	
OM01100	B10 C06	12	10	85	50	11	CCMT 0602
OM01101	B12 T11	12	12	95	60	11	TCMT 1102
OM01102	B16 T11	12	16	105	70	11	TCMT 1102
OM01103	R100 C06	12	26	72	22	11	CCMT 0602
OM01010	4 Bar 12mm Set for Boring Head	-	-	-	-	-	-

18MM AXIAL / RADIAL 5 PIECE BORING BAR SET

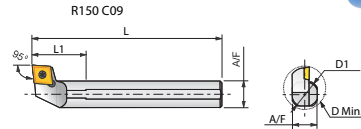
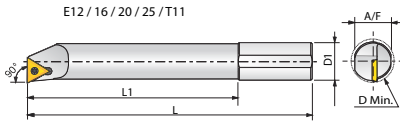
- For F1-18 Boring Head
- 5 Bar Set includes all bars listed below (OM01011)



Part Number	Description	Dimensions (mm)					Insert
		D1	D Min	L	L1	A/F	
OM01104	F10 C06	18	10	85	50	17	CCMT 0602
OM01105	F12 T11	18	12	95	60	17	TCMT 1102
OM01106	F16 T11	18	16	105	70	17	TCMT 1102
OM01107	F20 T11	18	20	135	100	17	TCMT 1102
OM01108	R120 C09	18	38	123	35	17	CCMT 09T3
OM01011	5 Bar 18mm Set for Boring Head	-	-	-	-	-	-

25MM AXIAL / RADIAL 5 PIECE BORING BAR SET

- For F1-25 Boring Head
- 5 Bar Set includes all bars listed below (OM01012)



Part Number	Description	Dimensions (mm)					Insert
		D1	D Min	L	L1	A/F	
OM01109	E12 T11	25	12	95	60	23.5	TCMT 1102
OM01110	E16 T11	25	16	105	70	23.5	TCMT 1102
OM01111	E20 T11	25	20	135	100	23.5	TCMT 1102
OM01112	E25 T11	25	25	160	125	23.5	TCMT 1102
OM01113	R150 C09	25	44	134	35	23.5	CCMT 09T3
OM01012	5 Bar 25mm Set for Boring Head	-	-	-	-	-	-

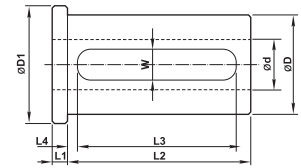
BORING BAR SLEEVES

BORING BAR SLEEVES

- Reduction Sleeves
- Hardened & Ground
- Form A = Slotted
- Form B = Grub Screw



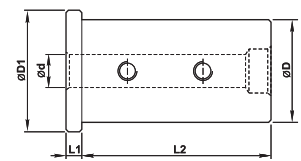
Part Number	Description	Dimensions (mm)								
		D (OD)	d (ID)	D1	L1	L2	L3	L4	W	Form
OM20200	BBB 16 / 08 / 45	16	8	22	5	40	-	-	-	B
OM20201	BBB 16 / 10 / 45		10	22	5	40	32	3	7	A
OM20202	BBB 20 / 08 / 55	20	8	26	5	50	-	-	-	B
OM20203	BBB 20 / 10 / 55		10	26	5	50	-	-	-	B
OM20204	BBB 20 / 12 / 55		12	26	5	50	42	3	9	A
OM19184	BBB 25 / 06 / 55	25	6	32	5	50	-	-	-	B
OM20205	BBB 25 / 08 / 55		8	32	5	50	-	-	-	B
OM20206	BBB 25 / 10 / 55		10	32	5	50	-	-	-	B
OM20207	BBB 25 / 12 / 55		12	32	5	50	-	-	-	B
OM19188	BBB 25 / 14 / 55		14	32	5	50	42	3	10	A
OM20208	BBB 25 / 16 / 55		16	32	5	50	42	3	10	A
OM19190	BBB 25 / 18 / 55		18	32	5	50	42	3	10	A
OM19191	BBB 25 / 20 / 55		20	32	5	50	42	3	10	A
OM19193	BBB 32 / 06 / 65	32	6	38	5	60	-	-	-	B
OM20209	BBB 32 / 08 / 65		8	38	5	60	-	-	-	B
OM20210	BBB 32 / 10 / 65		10	38	5	60	-	-	-	B
OM20211	BBB 32 / 12 / 65		12	38	5	60	-	-	-	B
OM20212	BBB 32 / 16 / 65		16	38	5	60	52	3	10	A
OM20213	BBB 32 / 20 / 65		20	38	5	60	52	3	10	A
OM20214	BBB 32 / 25 / 65		25	38	5	60	52	3	10	A
OM20109	BBB 40 / 06 / 90	40	6	48	5	85	-	-	-	B
OM20215	BBB 40 / 08 / 90		8	48	5	85	-	-	-	B
OM20216	BBB 40 / 10 / 90		10	48	5	85	-	-	-	B
OM20217	BBB 40 / 12 / 90		12	48	5	85	-	-	-	B
OM20218	BBB 40 / 16 / 90		16	48	5	85	77	2	12	A
OM20219	BBB 40 / 20 / 90		20	48	5	85	77	2	12	A
OM20220	BBB 40 / 25 / 90		25	48	5	85	77	2	12	A
OM20221	BBB 40 / 32 / 90		32	48	5	85	77	2	12	A
OM20222	BBB 50 / 16 / 100	50	16	58	8	92	80	4	12	A
OM20223	BBB 50 / 20 / 100		20	58	8	92	80	4	12	A
OM20224	BBB 50 / 25 / 100		25	58	8	92	80	4	12	A
OM20225	BBB 50 / 32 / 100		32	58	8	92	80	4	12	A
OM20226	BBB 50 / 40 / 100		40	58	8	92	80	4	12	A



Form A



01. BBB Form B



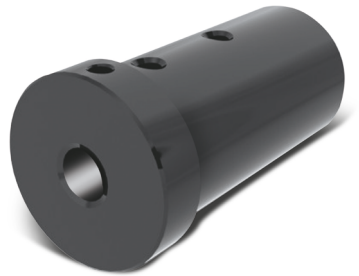
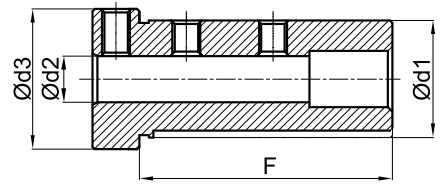
Form B



BORING BAR REDUCTION SLEEVES

SM E

- For VDI Tool Holders
- Sleeves for E1 & E2 types of Smaller Tools

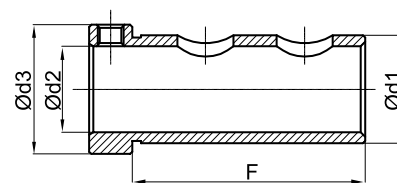


Part Number	Description	Dimensions (mm)			
		d1	d2	d3	F
OM33253	SM E 20 08	20	8	25	39
OM33254	SM E 20 10		10		
OM33255	SM E 25 08	25	8	30	50
OM33256	SM E 25 10		10		
OM33257	SM E 25 12		12		
OM33258	SM E 32 08	32	8	37	59
OM33259	SM E 32 10		10		
OM33260	SM E 32 12		12		
OM33261	SM E 32 16		16		
OM33262	SM E 40 08	40	8	45	69
OM33263	SM E 40 10		10		
OM33264	SM E 40 12		12		
OM33265	SM E 40 16		16		
OM33266	SM E 40 20		20		
OM33267	SM E 50 08	50	8	55	80
OM33268	SM E 50 10		10		
OM33269	SM E 50 12		12		
OM33270	SM E 50 16		16		
OM33271	SM E 50 20		20		

BORING BAR REDUCTION SLEEVES

SM E1

- For VDI Tool Holders
- Sleeves for E1 types of Bigger Tools



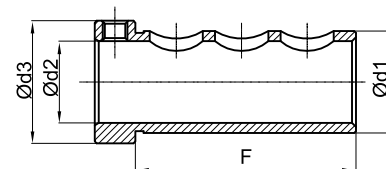
Part Number	Description	Dimensions (mm)			
		d1	d2	d3	F
OM33272	SM E1 20 12	20	12	25	52
OM33273	SM E1 20 16		16		
OM33274	SM E1 25 16	25	16	30	50
OM33275	SM E1 25 20		20		
OM33276	SM E1 32 20	32	20	37	59
OM33277	SM E1 32 25		25		
OM33278	SM E1 40 25	40	25	45	69
OM33279	SM E1 40 32		32		
OM33280	SM E1 50 25	50	25	55	80
OM33281	SM E1 50 32		32		
OM33282	SM E1 50 40		40		



BORING BAR REDUCTION SLEEVES

SM E2

- For VDI Tool Holders
- Sleeves for E2 types of Bigger Tools



Part Number	Description	Dimensions (mm)			
		d1	d2	d3	F
OM33283	SM E2 20 12 L39	20	12	25	39
OM33284	SM E2 20 12 L52				52
OM33285	SM E2 20 16 L39				39
OM33286	SM E2 20 16 L52	25	16	30	52
OM33287	SM E2 25 16				16
OM33288	SM E2 25 20	25	20	30	50
OM33289	SM E2 32 20		20		
OM33290	SM E2 32 25	32	25	37	59
OM33291	SM E2 40 25	40	25	45	69
OM33292	SM E2 40 32		32		
OM33293	SM E2 50 25	50	25	55	80
OM33294	SM E2 50 32		32		
OM33295	SM E2 50 40		40		



BORING BAR SLEEVES

MORSE TAPER

ER COLLET CHUCKS

- Morse Taper (DIN228)
- Standard ER Collet System



Part Number	Description	Morse Taper	Collet Size	Draw Bar Thread
OM30329	MT2 ER16 Collet Chuck	2	ER16	M10
OM30469	MT2 ER25 Collet Chuck		ER25	
OM30399	MT2 ER32 Collet Chuck		ER32	
OM30470	MT3 ER16 Collet Chuck	3	ER16	M12
OM30471	MT3 ER25 Collet Chuck		ER25	
OM30397	MT3 ER32 Collet Chuck		ER32	
OM30264	MT3 ER40 Collet Chuck		ER40	
OM30472	MT4 ER25 Collet Chuck	4	ER25	M16
OM30473	MT4 ER32 Collet Chuck		ER32	
OM30474	MT4 ER40 Collet Chuck		ER40	
OM30330	MT5 ER32 Collet Chuck	5	ER32	M20
OM30328	MT5 ER40 Collet Chuck		ER40	
OM30310	MT5 ER50 Collet Chuck		ER50	

STRAIGHT SHANK TO MORSE TAPER ADAPTORS

- Turret Sockets



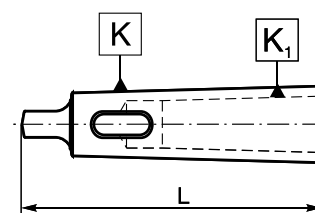
Part Number	Outside Dia (mm)	Internal Morse Taper	Length (mm)
OM20227	25	MT 1	80
OM20228		MT 2	92
OM20229	32	MT 1	76
OM20230		MT 2	75
OM20231		MT 3	95
OM20232	40	MT 1	90
OM20233		MT 2	90
OM20234		MT 3	95
OM20235		MT 4	142
OM20236	50	MT 1	100
OM20237		MT 2	100
OM20238		MT 3	115
OM20239		MT 4	142

REDUCTION SLEEVES

Morse Taper (DIN228)



Part Number	Description	External Taper (K)	Internal Taper (K)	Length (L)
OM30049	Morse Taper Reduction Sleeve	MT 1	MT 0	85
OM30050		MT 2	MT 1	92
OM30051		MT 3	MT 1	99
OM30052			MT 2	112
OM30053		MT 4	MT 1	124
OM30054			MT 2	124
OM30055			MT 3	140
OM30056		MT 5	MT 1	156
OM30057			MT 2	156
OM30058			MT 3	156
OM30059			MT 4	174
OM30060		MT 6	MT 1	218
OM30061			MT 2	218
OM30062			MT 3	218
OM30063			MT 4	218
OM30064			MT 5	218

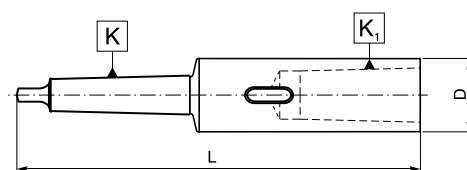


EXTENSION SLEEVES

Morse Taper (DIN228)



Part Number	Description	External Taper (K)	Internal Taper (K1)	Length (L)
OM30065	Morse Taper Extension Sleeve	MT 1	MT 1	145
OM30066			MT 2	160
OM30067			MT 3	183
OM30068		MT 2	MT 1	160
OM30069			MT 2	175
OM30070			MT 3	196
OM30071			MT 4	221
OM30072		MT 3	MT 1	175
OM30073			MT 2	194
OM30074			MT 3	215
OM30075			MT 4	240
OM30076		MT 4	MT 1	200
OM30077			MT 2	215
OM30078			MT 3	240
OM30079			MT 4	265
OM30080			MT 5	300
OM30081		MT 5	MT 1	232
OM30082			MT 2	247
OM30083			MT 3	268
OM30084			MT 4	300
OM30085	MT 5		335	



MORSE TAPER DRILL CHUCKS

- Morse Taper (DIN228)
- Keyless drill chuck can be tightened with wrench
- APU Spanner Pg. 235



Part Number	Description	Morse Taper	Capacity
OM30398	MT3 APU13 - 1-13mm	MT 3	1-13mm
OM30775	MT4 APU13 - 1-13mm	MT 4	1-13mm



HEXAGON KEY DRILL CHUCKS

- High Accuracy Drill Chuck
- Strong Clamping Force in both clockwise & anti-clockwise operations
- Increased wear-resistance with TIN Coated Jaws
- Spare Hex Key - Pg. 235



Part Number	Description	Capacity (mm)	Taper Mount	Length (mm)	
				Open	Closed
OM33670	GHK 13S JT6	0.3-13	JT6	95	105
OM33671	GHK 13S B16	0.3-13	B16	95	105
OM33672	GHK 16S JT6	1.5-16	JT6	104	115
OM33673	GHK 16S B16	1.5-16	B16	104	115



APU KEYLESS DRILL CHUCKS

- For Mounting on Short Taper Arbors
- 0 - 25µ Accuracy
- APU Spanner - Pg. 235



Part Number	Description	Capacity	Mount
OM31436	B16 J0113A	1-13mm	B16
OM31437	JT6 J0213A		JT6
OM31438	B16 J0116A	3-16mm	B16
OM31439	JT6 J0216		JT6



MORSE TAPER DRILL CHUCK ARBORS MT - IT6 & B16



Part Number	Description	Morse Taper
OM30086	JT6 Morse Taper Adaptors	MT 1
OM30087		MT 2
OM30088		MT 3
OM30089		MT 4
OM30090		MT 5
OM30091	B16 Morse Taper Adaptors	MT 1
OM30092		MT 2
OM30093		MT 3
OM30094		MT 4
OM30095		MT 5



TIGHTENING FIXTURES

TIGHTENING FIXTURES TWIN POT STYLE

- BT Tightening Fixtures also hold DIN2080, in the vertical position only



Part Number	Size / Type
OM31025	BT30
OM31099	BT40
OM31169	BT50
OM31360	DV30 / DIN30
OM31217	DV40 / DIN40
OM31256	DV50 / DIN50



TIGHTENING FIXTURES BALL BEARING SINGLE POT STYLE



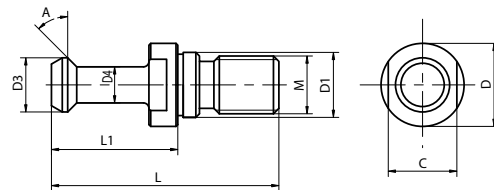
Part Number	Size / Type
OM30282	HSK50, C5, DV30
OM31482	BT30
OM31451	BT40, HSK63, C6
OM31483	DV40
OM31069	BT50, HSK100



PULL STUDS

BT (MAS) SOLID PULL STUDS

- Pull Studs without O-Ring
- Solid Without Through Coolant

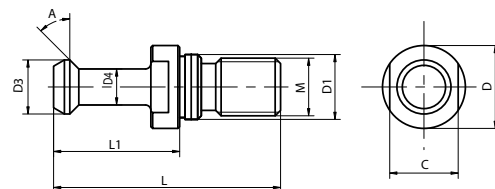


Part Number	ISO	A	M	Dimensions (mm)						
				L1	L	D	D1	D3	D4	C
OM30100	30	45°	M12	23	43	16	12.5	11	7	13
OM30102		60°		23	43	16	12.5	11	7	13
OM30104	40	45°	M16	35	60	23	17	15	10	19
OM30106		60°		35	60	23	17	15	10	19
OM30108		90°		35	60	23	17	15	10	19
OM30110	50	45°	M24	45	85	38	25	23	17	30
OM30112		60°		45	85	38	25	23	17	30
OM30114		90°		45	85	38	25	23	17	30



BT (MAS) SOLID PULL STUDS

- Pull Studs with O-Ring
- Solid Without Through Coolant

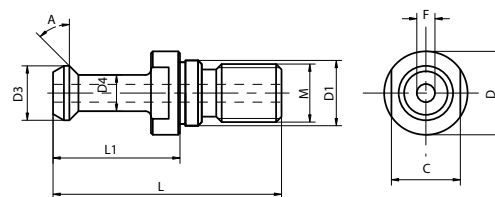


Part Number	ISO	A	M	Dimensions (mm)						
				L1	L	D	D1	D3	D4	C
OM30150	40	45°	M16	35	60	23	17	15	10	19
OM30151		60°		35	60	23	17	15	10	19
OM30152		90°		35	60	23	17	15	10	19
OM30153	50	45°	M24	45	85	38	25	23	17	30
OM30154		60°		45	85	38	25	23	17	30
OM30155		90°		45	85	38	25	23	17	30



BT (MAS) HOLLOW PULL STUDS

- Pull Studs without O-Ring
- Hollow for Through Coolant

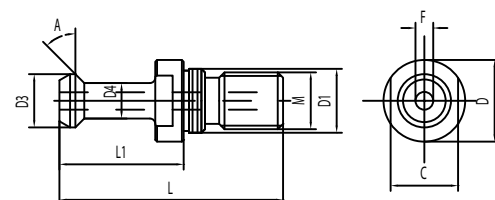


Part Number	ISO	A	M	Dimensions (mm)							
				L1	L	D	D1	D3	D4	C	F
OM30101	30	45°	M12	23	43	16	12.5	11	7	13	3
OM30103		60°		23	43	16	12.5	11	7	13	3
OM30105	40	45°	M16	35	60	23	17	15	10	19	4
OM30107		60°		35	60	23	17	15	10	19	4
OM30109		90°		35	60	23	17	15	10	19	4
OM30111	50	45°	M24	45	85	38	25	23	17	30	6
OM30113		60°		45	85	38	25	23	17	30	6
OM30115		90°		45	85	38	25	23	17	30	6



BT (MAS) HOLLOW PULL STUDS

- Pull Studs with O-Ring
- Hollow for Through Coolant



Part Number	ISO	A	M	Dimensions (mm)							
				L1	L	D	D1	D3	D4	C	F
OM30148	30	45°	M12	23	43	16	12.5	11	7	13	3
OM30149		60°		23	43	16	12.5	11	7	13	3
OM30141	40	45°	M16	35	60	23	17	15	10	19	4
OM30142		60°		35	60	23	17	15	10	19	4
OM30143		90°		35	60	23	17	15	10	19	4
OM30144	50	45°	M24	45	85	38	25	23	17	30	6
OM30145		60°		45	85	38	25	23	17	30	6
OM30146		90°		45	85	38	25	23	17	30	6

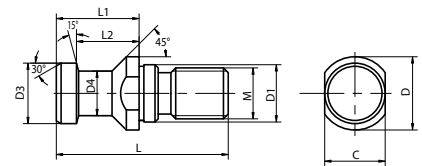


DIN 69872 B SOLID PULL STUDS

- Pull Studs without O-Ring
- Solid Without Through Coolant



Part Number	ISO	M	Dimensions (mm)							
			D	D1	D3	D4	L	L1	L2	C
OM30166	30	M12	17	13	13	9	44	24	19	14
OM30118	40	M16	23	17	19	14	54	26	20	19
OM30120	50	M24	36	25	28	21	74	34	25	30

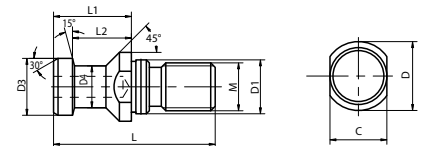


DIN 69872 B SOLID PULL STUDS

- Pull Studs with O-Ring
- Solid Without Through Coolant



Part Number	ISO	M	Dimensions (mm)							
			D	D1	D3	D4	L	L1	L2	C
OM30157	40	M16	23	17	19	14	54	26	20	19
OM30158	50	M24	36	25	28	21	74	34	25	30

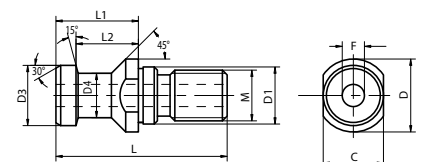


DIN 69872 A HOLLOW PULL STUDS

- Pull Studs without O-Ring
- Hollow for Through Coolant



Part Number	ISO	M	Dimensions (mm)								
			D	D1	D3	D4	L	L1	L2	C	f
OM30116	30	M12	17	13	13	9	44	24	19	14	4
OM30117	40	M16	23	17	19	14	54	26	20	19	7
OM30119	50	M24	36	25	28	21	74	34	25	30	11.5

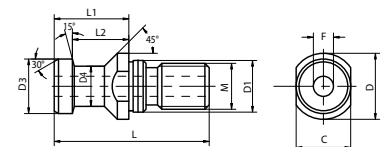


DIN 69872 A HOLLOW PULL STUDS

- Pull Studs with O-Ring
- Hollow for Through Coolant
- OM17055 is similar to DIN 69872 A, but 3mm longer

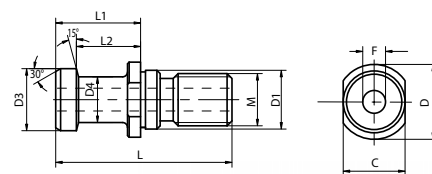


Part Number	ISO	M	Dimensions (mm)								
			D	D1	D3	D4	L	L1	L2	C	f
OM30132	40	M16	23	17	19	14	54	26	20	19	7
OM17055	40	M16	23	17	19	14	54	29	23	19	7
OM30133	50	M24	36	25	28	21	74	34	25	30	11.5



ISO 7388/2-A HOLLOW PULL STUDS

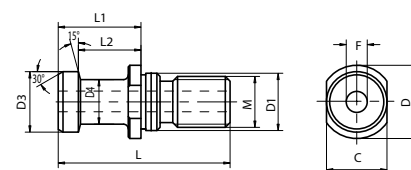
- Hollow for Through Coolant
- Without O-Ring



Part Number	ISO	M	Dimensions (mm)								
			D	D1	D3	D4	L	L1	L2	C	f
OM30121	40	M16	23	17	19	14	54	26	20	19	7
OM30122	50	M24	36	25	28	21	74	34	25	30	11.5

ISO 7388/2-A HOLLOW PULL STUDS

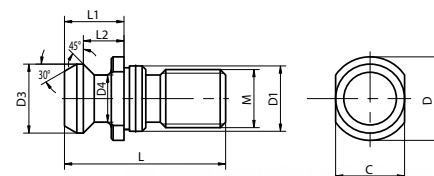
- Hollow for Through Coolant
- With O-Ring



Part Number	ISO	M	Dimensions (mm)								
			D	D1	D3	D4	L	L1	L2	C	f
OM30160	40	M16	23	17	19	14	54	26	20	19	7
OM30161	50	M24	36	25	28	21	74	34	25	30	11.5

ISO 7388/2-B SOLID PULL STUDS

- Solid Without Through Coolant
- With O-Ring



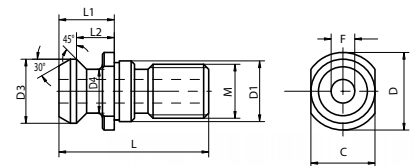
Part Number	ISO	M	Dimensions (mm)								
			D	D1	D3	D4	L	L1	L2	C	
OM30167	40	M16	22.5	17	18.9	12.9	44.5	16.4	11.2	18	
OM30168	50	M24	37	25	29.1	19.6	65.5	25.5	17.9	30	

ISO 7388/2-B HOLLOW PULL STUDS

- Hollow for Through Coolant
- Without O-Ring



Part Number	ISO	M	Dimensions (mm)								
			D	D1	D3	D4	L	L1	L2	C	f
OM30123	40	M16	22.5	17	18.9	12.9	44.5	16.4	11.2	18	7.3
OM30124	50	M24	37	25	29.1	19.6	65.5	25.5	17.9	30	11.5

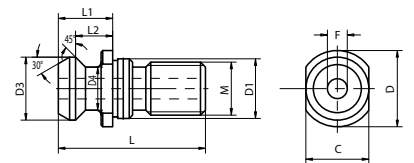


ISO 7388/2-B HOLLOW PULL STUDS

- Hollow for Through Coolant
- With O-Ring



Part Number	ISO	M	Dimensions (mm)								
			D	D1	D3	D4	L	L1	L2	C	f
OM30135	40	M16	22.5	17	18.9	12.9	44.5	16.4	11.2	18	7.3
OM30159	50	M24	37	25	29.1	19.6	65.5	25.5	17.9	30	11.5

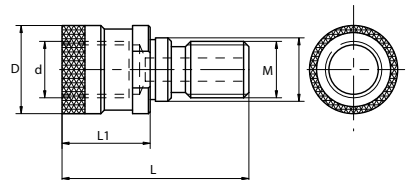


DIN 2080 PULL STUD ADAPTORS

- With Internal Thread and Hole Through



Part Number	ISO	M	Dimensions (mm)				
			d	D	D1	L	L1
OM16980	DV40	M16	M16	25.3	17	53	25
OM30169	BT40	M16	M16	25.3	17	56	28
OM18434	50	M25	M24	39.6	25	65	25

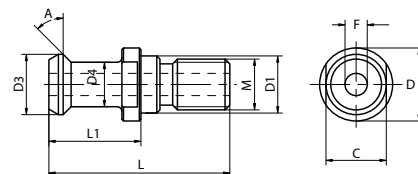


JIS. B6339 HOLLOW PULL STUDS

- Hollow for Through Coolant
- Without O-Ring



Part Number	ISO	A	M	Dimensions (mm)							
				D	D1	D3	D4	L	L1	C	f
OM30125	40	15°	M16	23	17	19	14	54	29	19	7
OM30126	50	15°	M24	38	25	28	21	74	34	30	10

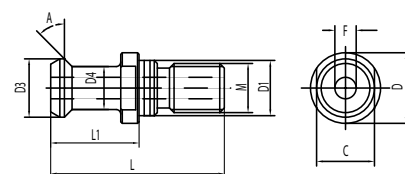


JIS. B6339 HOLLOW PULL STUDS

- Hollow for Through Coolant
- With O-Ring



Part Number	ISO	A	M	Dimensions (mm)							
				D	D1	D3	D4	L	L1	C	f
OM30162	40	15°	M16	23	17	19	14	54	29	19	7
OM30163	50	15°	M24	38	25	28	21	74	34	30	10

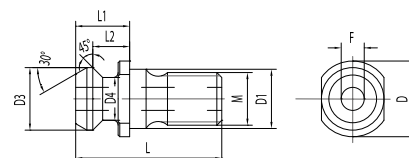


MAZAK PULL STUDS

- Hollow for Through Coolant
- Without O-Ring



Part Number	ISO	M	Dimensions (mm)							
			D	D1	D3	D4	L	L1	L2	f
OM30129	40	M16	21.8	17	18.79	12.44	41.25	16.25	11.17	7
OM30130	40	M16	22	17	18.79	12.44	44.1	19.1	14.02	7
OM30131	50	M24	37	25	28.95	20.8	65.2	25.2	17.58	10
OM30499	50	M24	35.5	25	28.95	20.8	65.4	25.4	17.78	10

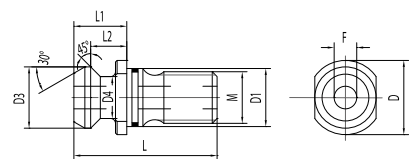


MAZAK PULL STUDS

- Hollow for Through Coolant
- With O-Ring



Part Number	ISO	M	Dimensions (mm)							
			D	D1	D3	D4	L	L1	L2	f
OM30164	40	M16	21.8	17	18.79	12.44	41.25	16.25	11.17	7
OM30165	40	M16	22	17	18.79	12.44	44.1	19.1	14.02	7

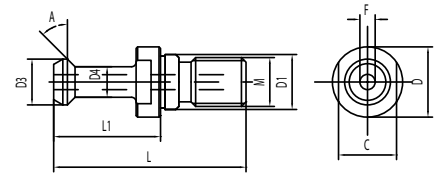


HAAS PULL STUDS

- Hollow for Through Coolant
- Similar to JIS B 6399 (MAS 403 BT), 3mm shorter
- Without O-Ring



Part Number	ISO	A	M	Dimensions (mm)							
				L1	L	D	D1	D3	D4	C	F
OM30134	40	45°	M16	32	57	23	17	15	10	19	7

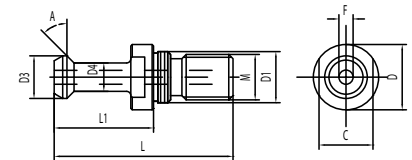


HAAS PULL STUDS

- Hollow for Through Coolant
- Similar to JIS B 6399 (MAS 403 BT), 3mm shorter
- With O-Ring



Part Number	ISO	A	M	Dimensions (mm)							
				L1	L	D	D1	D3	D4	C	F
OM30156	40	45°	M16	32	57	23	17	15	10	19	7



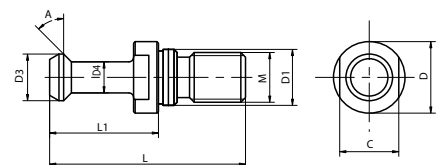
CINCINNATI PULL STUDS

- Hollow for Through Coolant
- Without O-Ring



Part Number	ISO	M	Dimensions (mm)						
			D	D1	D3	D4	L	L1	C
OM30127	40	M16	22.2	17	15	10.3	67.3	39.4	19
OM30128	40	M16	22.2	17	15	10.3	64.3	36.6	18

02. BT Solid Pull Stud with O-Ring

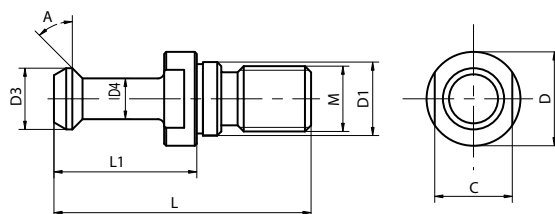


SPECIAL PULL STUDS

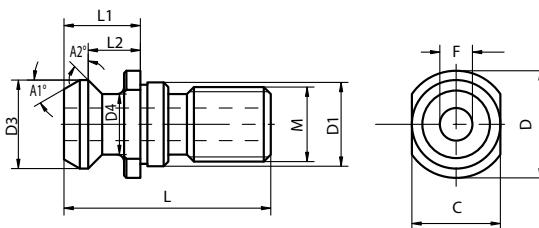
- Any pull stud can be identified and manufactured to specific requirements, with the following information:



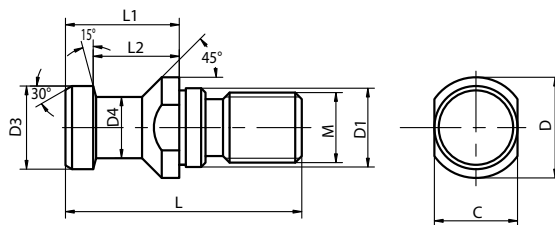
A =	
L =	
L1 =	
D =	
D1 =	
D3 =	
D4 =	
C =	
M =	
Through Coolant?	



A1° =	
A2° =	
L =	
L1 =	
L2 =	
D =	
D1 =	
D3 =	
D4 =	
C =	
M =	
F =	
Through Coolant?	



L =	
L1 =	
L2 =	
D =	
D1 =	
D3 =	
D4 =	
C =	
M =	
Through Coolant?	



MINI COLLET NUTS

- ER Collet Nuts for Mini Chucks



Part Number	Collet	Nut Type	Nut Diameter (mm)
OM31418	ER8	Mini Collet Nut (GMT)	12
OM31414	ER11		16
OM31415	ER16		22
OM31416	ER20		28
OM31417	ER25		35



ER HEXAGON COLLET NUTS



Part Number	Collet	Nut Type	Nut Diameter (mm)
OM31425	ER11	Hex Collet Nut (GSX)	19
OM31426	ER16		28
OM31427	ER20		34



ER CASTLEATED COLLET NUTS



Part Number	Collet	Nut Type	Nut Diameter (mm)
OM31419	ER16	Castleated Collet Nut (GST)	32
OM31420	ER20		35
OM31421	ER25		42
OM31422	ER32		50
OM31423	ER40		63
OM31424	ER50		78



ER32 SHORT NUT

- Collet Nut for BT40/DV40 Short Collet Chuck



Part Number	Collet	Nut Type	Nut Diameter (mm)
OM31445	ER32	Short Nut	36



OZ NUTS

- Collet Nuts for OZ collet Chucks



Part Number	Collet	Nut Type	Nut Diameter (mm)
OM30491	OZ 25	Standard OZ Nut	60
OM31968	OZ 32		72



GSK COLLET NUTS

- High Speed Balanced Bearing Nut



Part Number	Collet	Nut Type	Nut Diameter (mm)
OM30614	GSK 06	GSK High Speed Balanced Nut	19.5
OM30615	GSK 10		27
OM30616	GSK 16		40
OM30617	GSK 25		55



ER25A PIN NUT

- Nut For Floating Reamer Holder



Part Number	Description	Nut Diameter (mm)
OM32509	UM ER25 Pin Type Nut	23.6



DRILL DRIFTS

- Drill drifts for ejecting morse taper tools from a machine spindle or sleeve



Part Number	For removing Morse Taper
OM34694	0
OM34695	1&2
OM34696	3
OM34697	4
OM34698	5&6



Hydraulic Chuck Spares



Part Number	Description
OM32184	Hex Key HC 5mm
OM32247	Hydraulic Sleeve Extractor

Mini Spanners

- Spanners for Mini ER Collet Nuts



Part Number	Collet Size	Spanner Type
OM31400	ER8	Mini Spanner (CMT)
OM31401	ER11	
OM31402	ER16	
OM31403	ER20	
OM31404	ER25	

HSK Coolant Tubes



Part Number	Description
OM30173	HSK63A Coolant Tube
OM30174	HSK100A Coolant Tube

Hexagon Spanners

- Spanners for Hexagon ER Collet Nuts



Part Number	Collet Size	Spanner Type
OM31411	ER11	Hexagon Spanner (CSX)
OM31412	ER16	
OM31413	ER20	

HSK Coolant Tube Spanners



Part Number	Description
OM32523	HSK63A Coolant Tube Spanner
OM32539	HSK100A Coolant Tube Spanner

Castellated Spanners

- Spanners for Castellated ER Collet Nuts



Part Number	Collet Size	Spanner Type
OM31405	ER16	Castellated Spanner (CST)
OM31406	ER20	
OM31407	ER25	
OM31408	ER32	
OM31409	ER40	
OM31410	ER50	

HSK Sealing Plugs



Part Number	Description
OM32540	HSK63A Plug M18 x 1
OM32541	HSK100A Plug M24 x 1.5

GSK Spanners

- Bearing Spanners for GSK Collet Chucks



Part Number	Collet Size	Spanner Type
OM30610	GSK 06	GSK Bearing Spanner
OM30611	GSK 10	
OM30612	GSK 16	
OM30613	GSK 25	

ER32 Short Spanner

- Spanner for BT40/DV40 ER32 SHORT Collet Chuck



Part Number	Collet Size	Spanner Type
OM31446	ER32	Spanner for BT40/DV40 ER32 Short

OZ Spanners

- Spanners for OZ Collet Nuts



Part Number	Size	Spanner Type
OM30492	OZ 25	Hook Spanner
OM30493	OZ 32	

Power Chuck Spanners

- Spanners for Power Milling Chucks



Part Number	Size	Spanner Type
OM33028	SC 20 / 25mm	Spanner for Power Milling Chucks
OM33029	SC 32mm	
OM31166	UPMC 20mm	Spanner for UPMC Power Milling Chucks
OM31168	UPMC 32mm	

Drill Chuck Hex Key

- Hexagon Key for Premium Drill Chucks



Part Number	Drill Chuck Size	Description
OM33680	1-13mm, 1-16mm	6mm x 130L Hex Key

Drill Chuck Spanners

- Spanners for Keyless Drill Chucks



Part Number	Drill Chuck Size	Spanner Type
OM31428	1-13mm	APU 13 Spanner
OM31429	1-16mm	APU 16 Spanner
OM33499	1-13mm	NCDC 13 Spanner

ER25A Pin Spanner

- Spanner For Floating Reamer Holder



Part Number	Description
OM32510	ER25A Pin Type Spanner

Combi Shell Mill Spanners

- Cross Wrenches for Combination Shell Mill Arbors



Part Number	Size (mm)	Spanner Type
OM31440	16	Cross Wrench for Combi Face Mill Arbors
OM31441	22	
OM31442	27	
OM31443	32	
OM31444	40	

Hex Keys for DMC Chucks



Part Number	Description
OM31543	4x200 Hex Key
OM31544	5x200 Hex Key
OM31545	6x200 Hex Key

SPINDLE WIPERS



Part Number	Taper
OM19227	BT/DV 30
OM19229	BT/DV 40
OM19231	BT/DV 50
OM31962	HSK 63



CLUTCH DRIVE RINGS FOR COMBI SHELL MILL HOLDERS



Part Number	Pilot Diameter (mm)
OM16313	16
OM16315	22
OM16317	27
OM16319	32
OM16321	40



CLAMPING SCREWS FOR END MILL HOLDERS



Part Number	Sidelock Diameter (mm)	M
OM31452	6	M6
OM31453	8	M8
OM31454	10	M10
OM31455	12	M12
OM31456	16 & 18	M14
OM31457	20	M16
OM31456	20 x 35mm Gauge Length	M14
OM31458	25	M18 x 2
OM31456	25 x 35mm Gauge Length	M14
OM31454	25 x 70mm Gauge Length	M10
OM31459	32	M20 x 2 x 20
OM31454	32 x 65mm Gauge Length	M10
OM31460	40	M20 x 2 x 25



BACK STOP SCREWS FOR ER COLLET CHUCKS



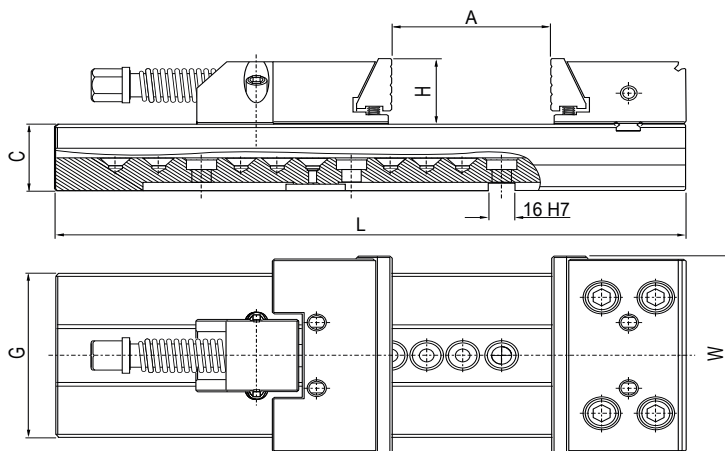
Part Number	ER Chuck	M
OM31955	ER11	M6
OM31956	ER11	M8
OM31957	ER16	M11x1
OM31958	ER20	M14x1
OM31959	ER25	M18x1.5
OM31960	ER32	M22x1.5
OM31961	ER40	M28x1.5



WORKHOLDING

PRECISION MODULAR VICES

- Hardened & Precision Ground
- Surface Hardness HRC60 +2
- Suitable for various machining centres
- Vices are supplied with grooved jaws



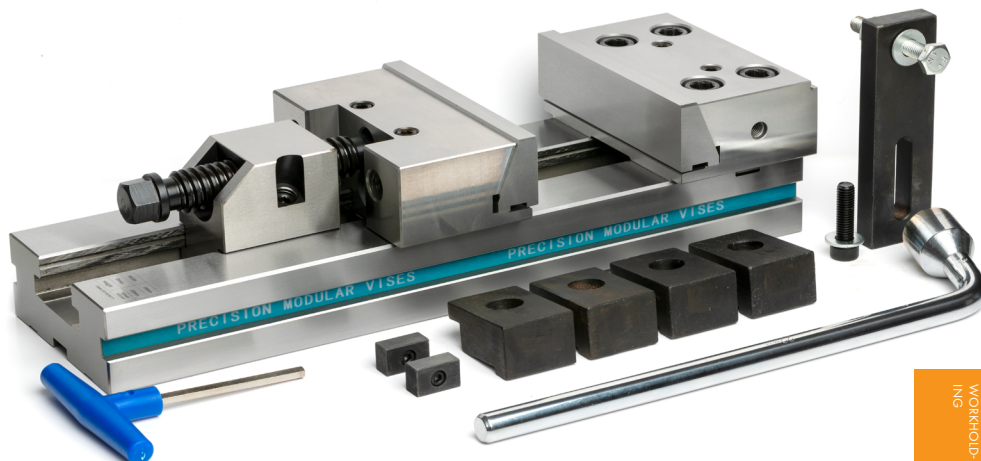
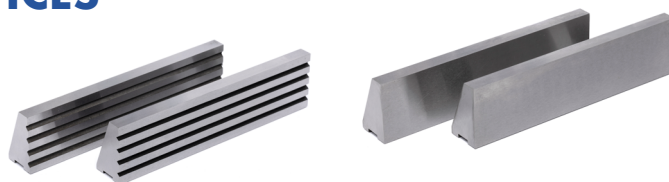
Part Number	Dimensions (mm)						Clamping Force (KG)
	W	A	L	H	C	G	
OM20310	100	100	270	30	35	75	3000
OM20311	125	150	345	40	40	95	3000
OM20312	150	200	420	50	50	125	5000
OM20313	150	300	520	50	50	125	5000
OM20314	175	300	555	60	58	145	6000
OM20315	175	400	655	60	58	145	6000
OM20319	200	300	595	65	70	170	10000
OM20320	200	400	695	65	70	170	10000

SPARE JAWS FOR MODULAR VICES



Part Number	Jaw Type	Width (mm)
OM20302	Plain	100
OM20303	Grooved	100
OM20304	Plain	125
OM20305	Grooved	125
OM30189	Plain	150
OM30190	Grooved	150
OM20306	Plain	175
OM20307	Grooved	175
OM20308	Plain	200
OM20309	Grooved	200

OM20330	Plain Soft Jaws	100
OM20331	Plain Soft Jaws	125
OM20332	Plain Soft Jaws	150
OM20333	Plain Soft Jaws	175
OM20334	Plain Soft Jaws	200



HEAVY DUTY, HIGH SPEED 'TYPE R' MODEL REVOLVING CENTRES

- Capable of running at high speeds with heavy loads on CNC machine applications
- Sealed for life using high quality German seals, bearings and Kluber grease
- Hardened and precision ground



STANDARD POINT

Part Number	Morse Taper	Head Dia (mm)	Point Length x Dia (mm)	Max RPM	Max Load (kg)	Concentricity (mm)
OM15701	MT 3	62	34 x 28	4500	375	0.008
OM15702	MT 4	68	41 x 32	3450	600	0.008
OM15703	MT 5	87	51 x 38	2700	1500	0.008
OM15704	MT 6	102	57.5 x 50	2300	2600	0.015



EXTENDED POINT

Part Number	Morse Taper	Head Dia (mm)	Point Length x Dia (mm)	Max RPM	Max Load (kg)	Concentricity (mm)
OM15705	MT 3	62	51 x 28	4500	300	0.008
OM15706	MT 4	68	54.5 x 32	3450	375	0.008
OM15707	MT 5	87	65 x 38	2700	900	0.008
OM15708	MT6	102	81 x 50	2300	2600	0.015



MEDIUM DUTY, PROFILED POINT MODEL **NEW**

- Capable of running at very high speeds with medium load application
- For medium & light duty load application only.
- Hardened and precision ground



Part Number	Morse Taper	Dimensions (mm)								Max Load (kg)	Concentricity (mm)	Max RPM
		d	d1	D	D1	L1	L2	L3	L			
OM15796	MT 3	15	8	34	23.825	30	48.5	16	81.0	200	0.008	6300
OM15797	MT 4	20	10	42	31.267	38	46.0	20	102.5	300	0.008	5600
OM15798	MT 5	32	14	68	44.399	53	78.0	28	129.5	800	0.015	3300



MEDIUM DUTY, SMALL CASING MODEL REVOLVING CENTRES

- Excellent problem solver for applications requiring maximum component access
- Capable of running at very high speeds with medium load application
- Sealed for life using high quality German seals, bearings and Kluber grease
- Hardened and precision ground



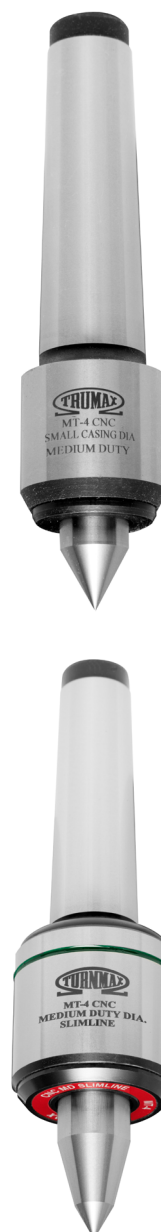
STANDARD POINT

Part Number	Morse Taper	Head Dia (mm)	Point Length x Dia (mm)	Max RPM	Max Load (kg)	Concentricity (mm)
OM15709	MT 2	34	19 x 15	6300	150	0.008
OM15710	MT 3	34	19 x 15	6300	375	0.008
OM15711	MT 4	42	25 x 20	5600	600	0.008
OM15712	MT 5	68	41 x 32	3300	1500	0.015



EXTENDED POINT

Part Number	Morse Taper	Head Dia (mm)	Point Length x Dia (mm)	Max RPM	Max Load (kg)	Concentricity (mm)
OM15713	MT 2	34	29 x 15	6300	125	0.008
OM15714	MT 3	34	30 x 15	6300	250	0.008
OM15715	MT 4	42	38 x 20	5600	375	0.008
OM15716	MT 5	68	53 x 32	3300	900	0.015



STANDARD COMPACT MODEL

- Suitable for medium & light duty applications on conventional machines at slower speeds
- Bearings are sealed to prevent ingress of coolant & swarf



STANDARD POINT

Part Number	Morse Taper	Head Dia (mm)	Point Length x Dia (mm)	Max RPM	Max Load (kg)	Concentricity (mm)
OM15717	MT 1	46.5	26 x 18	4000	25	0.015
OM15718	MT 2	50	31 x 23	3000	50	0.015
OM15719	MT 3	62	38 x 30	2500	75	0.015
OM15720	MT 4	62	38 x 30	2200	100	0.015
OM15721	MT 5	68	42 x 34	1500	150	0.015



STANDARD DEAD CENTRES

- 60°
- Hardened & Precision Ground



Part Number	Size (MT)	Description	Overall Length (L)
OM15722	MTA 1	DG1 60 degree Hardened / Ground	80
OM15723	MTA 2	DG2 60 degree Hardened / Ground	100
OM15724	MTA 3	DG3 60 degree Hardened / Ground	125
OM15725	MTA 4	DG4 60 degree Hardened / Ground	160
OM15726	MTA 5	DG5 60 degree Hardened / Ground	200

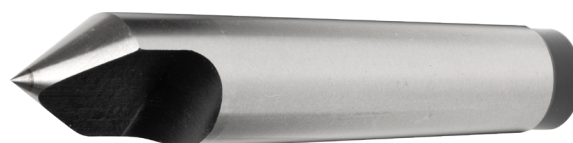


HALF NOTCHED DEAD CENTRES

- 60°
- Hardened & Precision Ground



Part Number	Size (MT)	Description
OM15727	MTA 1	DH1 60 degree Hardened / Ground
OM15728	MTA 2	DH2 60 degree Hardened / Ground
OM15729	MTA 3	DH3 60 degree Hardened / Ground
OM15730	MTA 4	DH4 60 degree Hardened / Ground
OM15731	MTA 5	DH5 60 degree Hardened / Ground

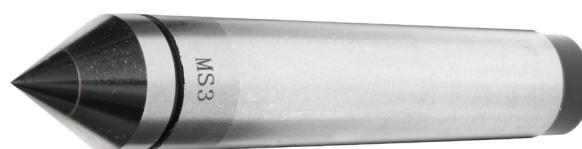


CARBIDE TIP DEAD CENTRES

- 60°
- Hardened & Precision Ground



Part Number	Size (MT)	Description
OM15732	MTA 1	DE1 60 degree Carbide Tipped
OM15733	MTA 2	DE2 60 degree Carbide Tipped
OM15734	MTA 3	DE3 60 degree Carbide Tipped
OM15735	MTA 4	DE4 60 degree Carbide Tipped
OM15736	MTA 5	DE5 60 degree Carbide Tipped



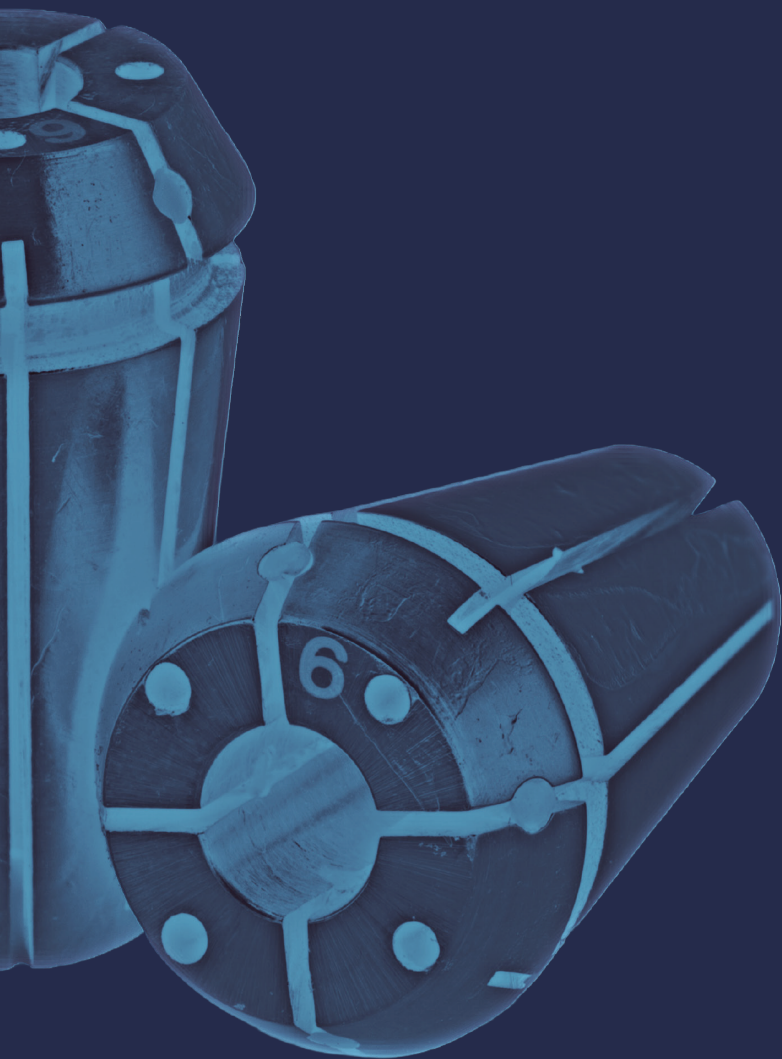
CARBIDE TIP HALF NOTCH DEAD CENTRE

- 60°
- Hardened & Precision Ground



Part Number	Size (MT)	Description
OM15737	MTA 1	DH1 60 degree Carbide Tipped
OM15738	MTA 2	DH2 60 degree Carbide Tipped
OM15739	MTA 3	DH3 60 degree Carbide Tipped
OM15740	MTA 4	DH4 60 degree Carbide Tipped
OM15741	MTA 5	DH5 60 degree Carbide Tipped





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VERSION 03.2024