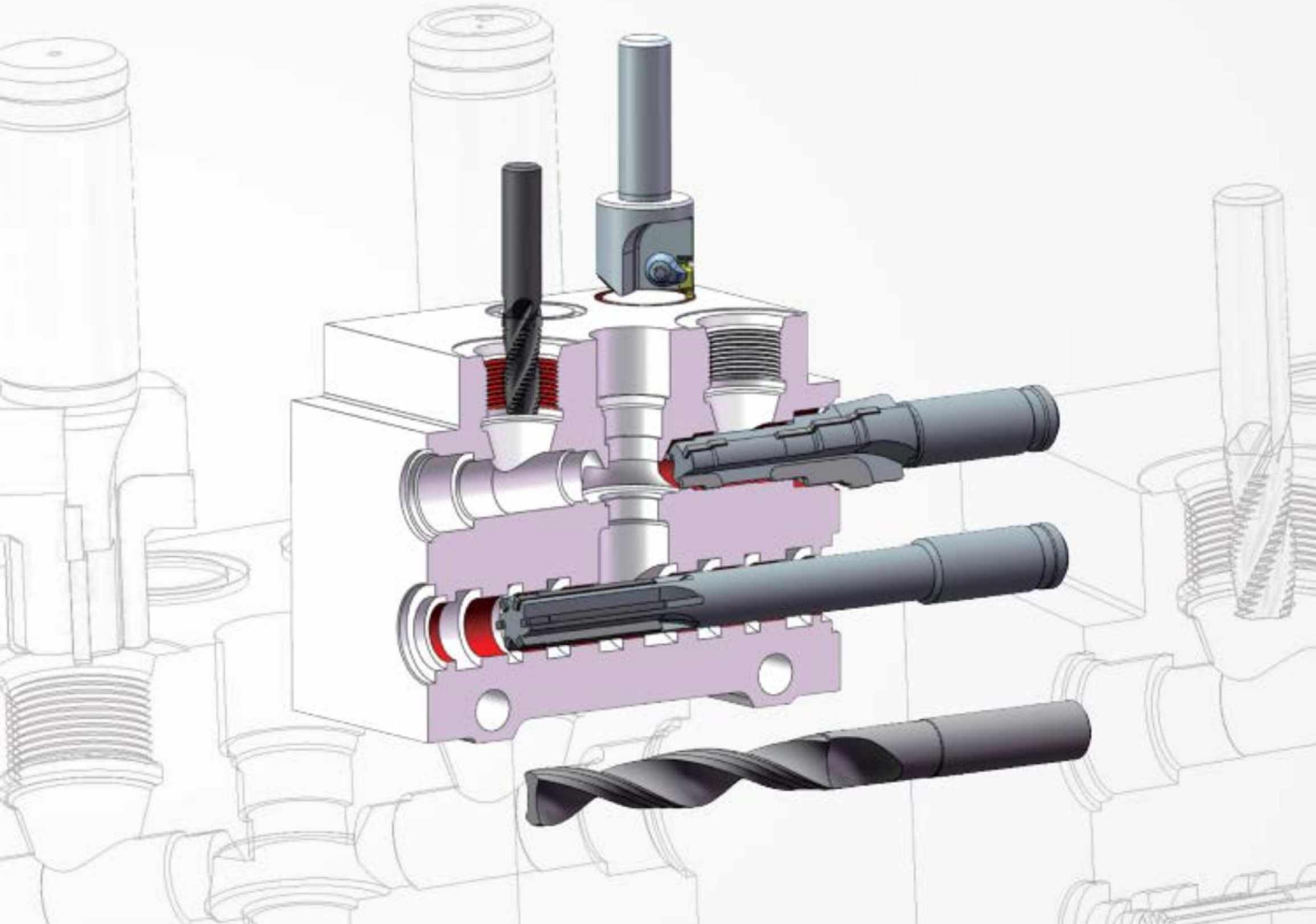




CPG CONSULTING (PTY) LTD
THE SOLUTION TO YOUR PROBLEM

Catalogue of Hydraulic Cutting Tools



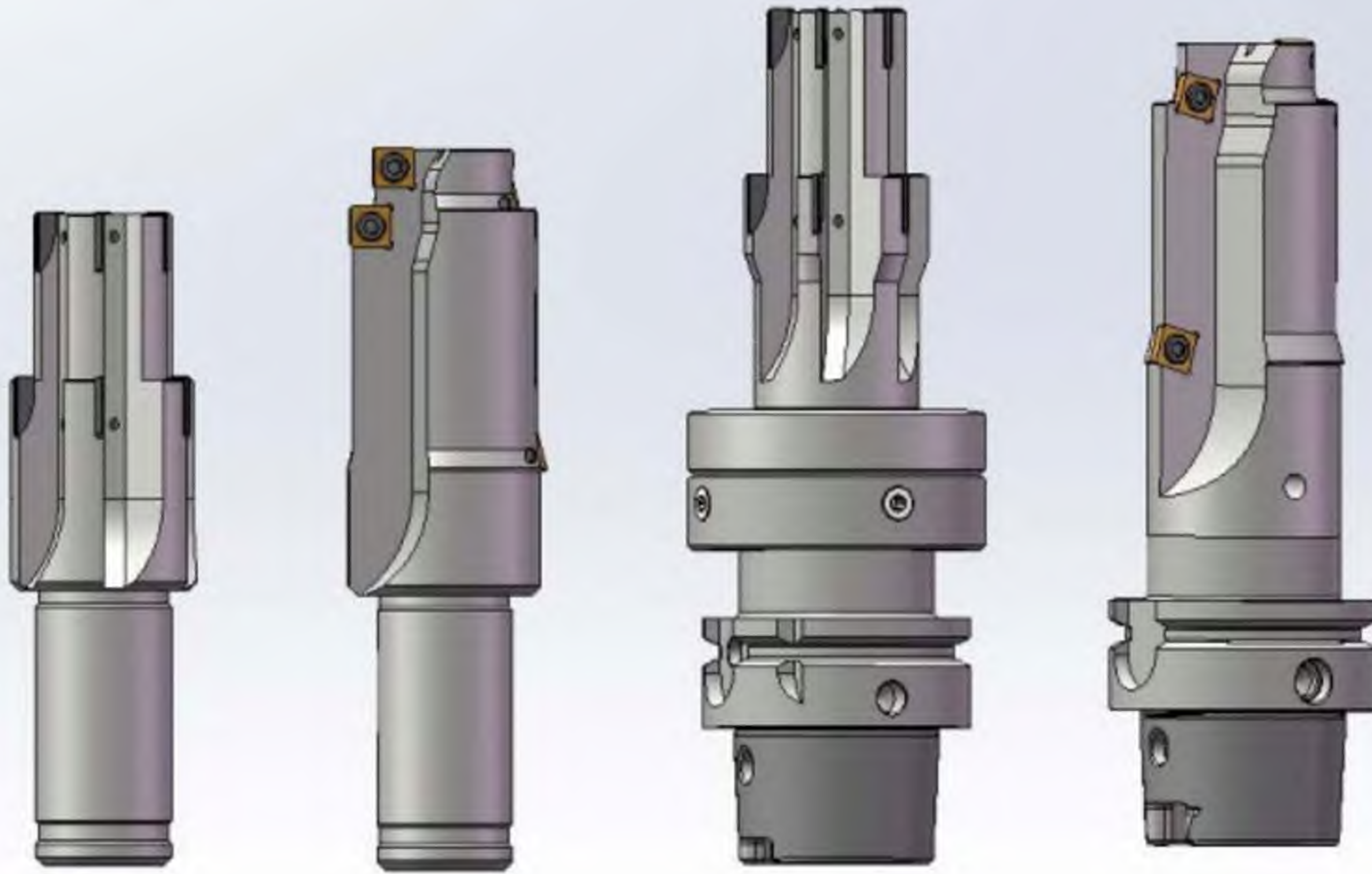
We offer a comprehensive, one-stop solution tailored specifically for the hydraulic manufacturing industry.

- Form/cavity Tool
 - Carbide tipped / Solid carbide / V-welding/HSS
 - K43 Reamer (ceramic) for steel blocks
 - Insert Replaceable Pre-drill
- Porting Tool
- O-Ring Cutter
- T-Slot Cutter
- PCD Cutter for Al. block
- Non-standard Tool

Cartridge Valve Cutting Tools



Logic Valve Cutting Tools



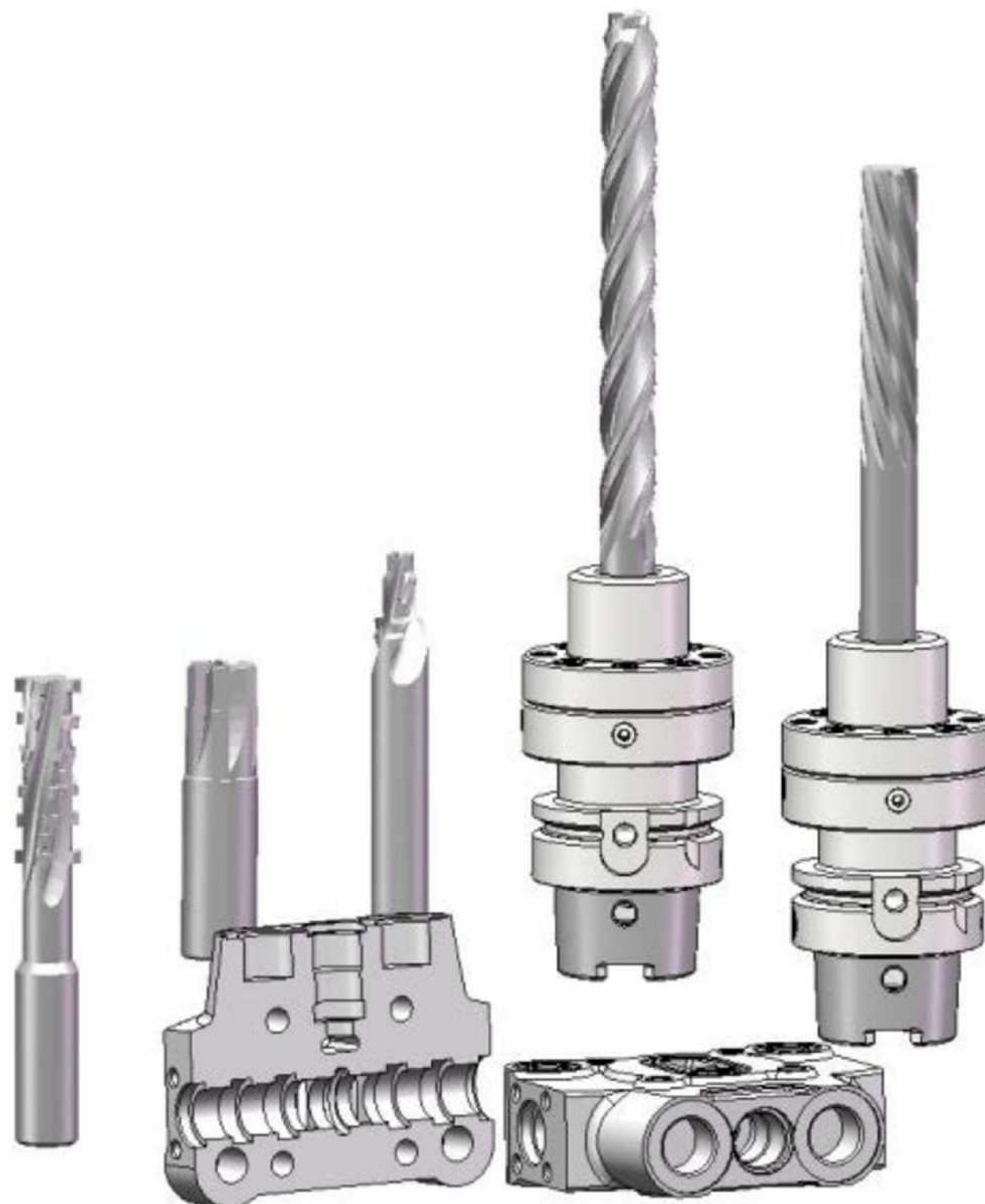
Insert Replaceable Porting Tool



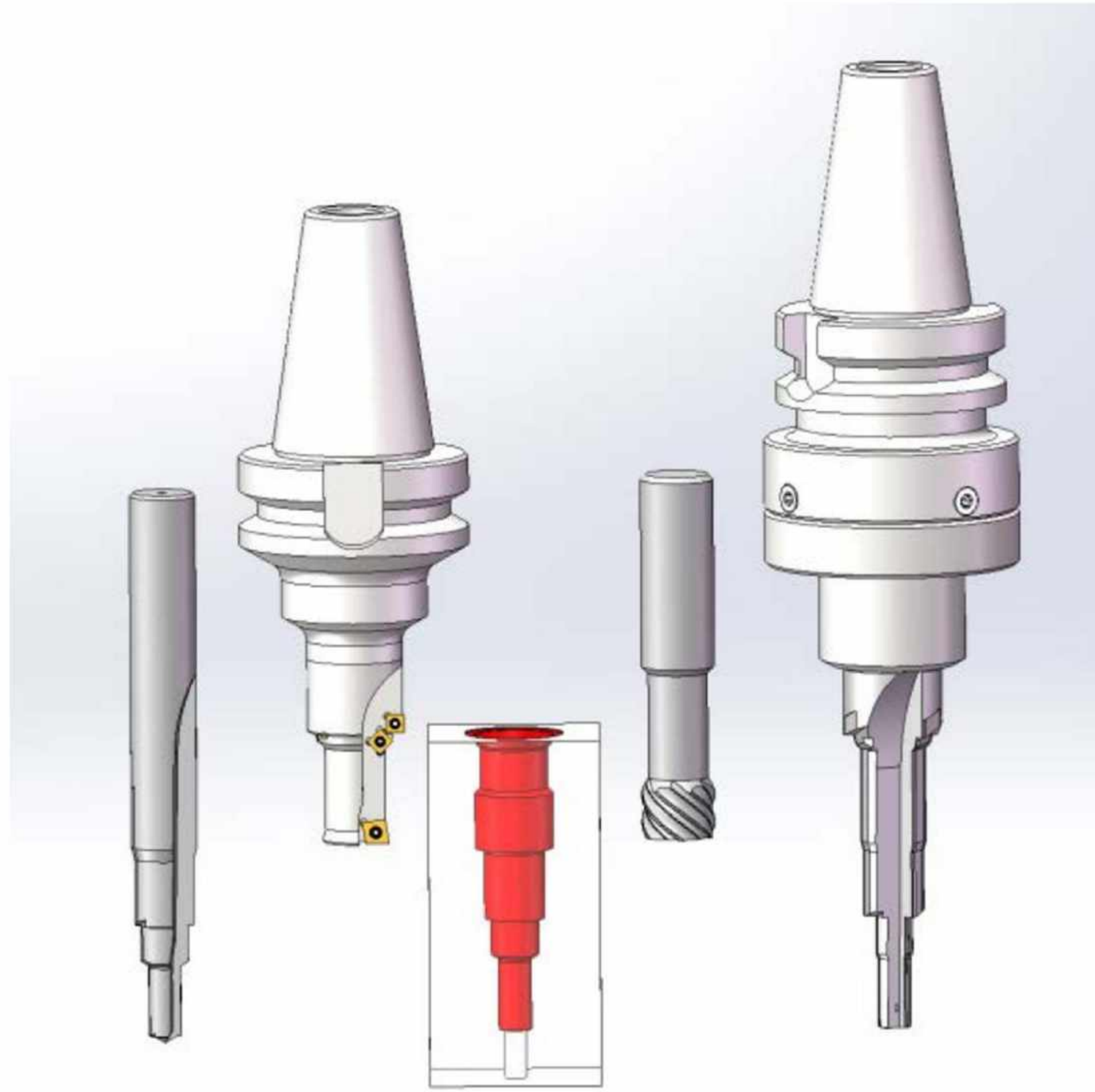
O-Ring Cutting Tools



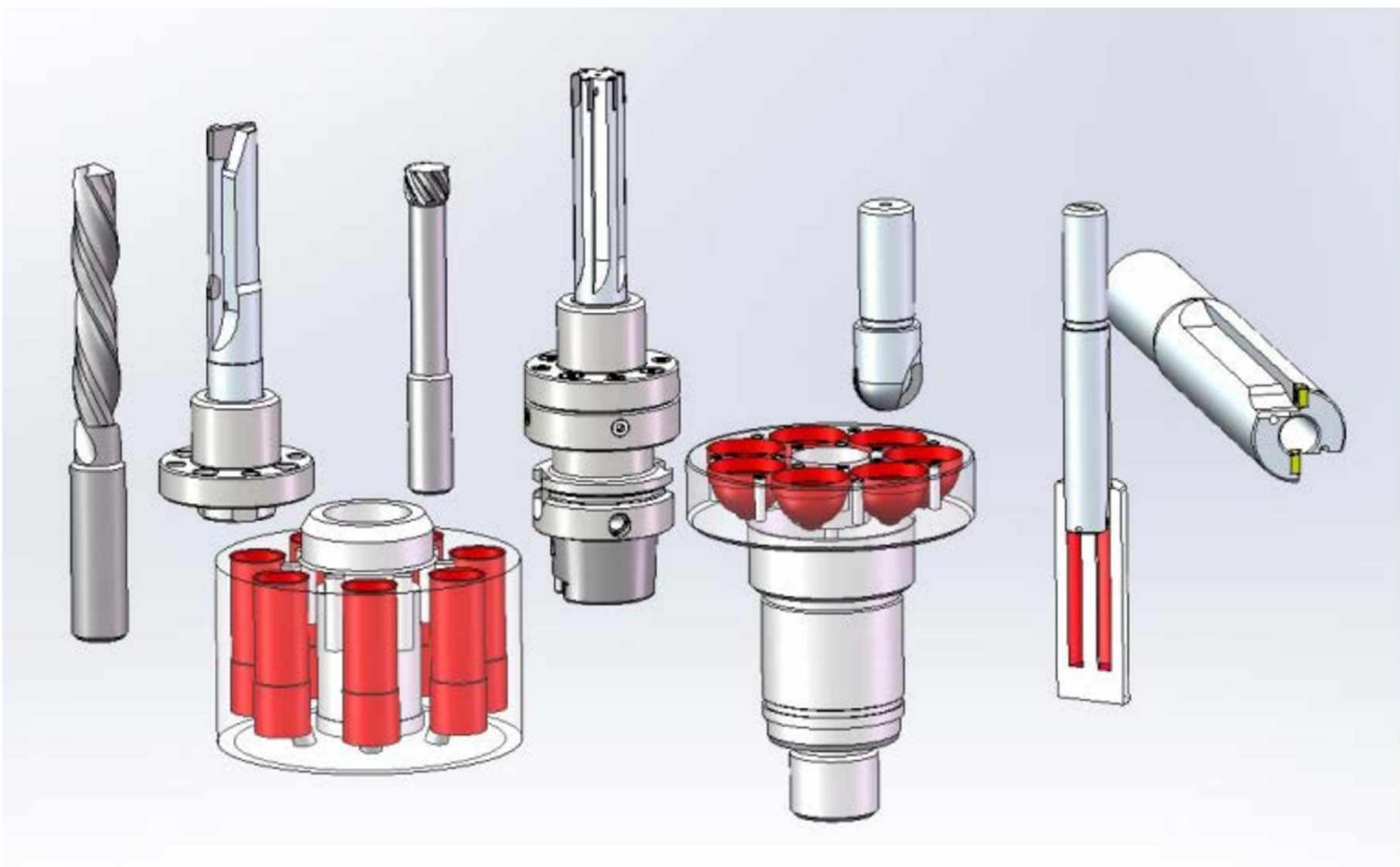
Multi Way Valve Cutting Tools



Balance Valve Cutting Tools



Piston Pump Cutting Tools



PCD Cutter



Thread Milling



Customized Non-standard Cutting Tools



SUN Series



T61A-DH(S)



T13A-D(S)



T163A-DH(S)



T11A-R



T8A-RC



T150A-R(S)

Cavity	Thread	Roughing (Pre-drill)		Finishing (Reamer)	
		Carbide Brazed	HSS-Co	Carbide Brazed	Solid Carbide or V-welding
T2A	1-14UNS-2B	T2A-D	T2A-DH	T2A-R	
T3A	1-14UNS-2B	T3A-D	T3A-DH	T3A-R	
T5A	1-14UNS-2B	T5A-D	T5A-DH	T5A-R	
T8A	M16×1.5-6H				T8A-RC
T9A	M16×1.5-6H				T9A-RC
T10A	M20×1.5-6H	T10A-D	T10A-DH	T10A-R	
T11A	M20×1.5-6H	T11A-D	T11A-DH	T11A-R	
T13A	M20×1.5-6H	T13A-D	T13A-DH	T13A-R	
T16A	M36×2-6H	T16A-D	T16A-DH	T16A-R	
T17A	M36×2-6H	T17A-D	T17A-DH	T17A-R	
T18A	M48×2-6H	T18A-D	T18A-DH	T18A-R	
T19A	M48×2-6H	T19A-D	T19A-DH	T19A-R	
T21A	M20×1.5-6H	T21A-D	T21A-DH	T21A-R	
T22A	1-14UNS-2B	T22A-D	T22A-DH	T22A-R	
T23A	M36×2-6H	T23A-D	T23A-DH	T23A-R	
T24A	M48×2-6H	T24A-D	T24A-DH	T24A-R	
T31A	M20×1.5-6H	T31A-D	T31A-DH	T31A-R	
T32A	1-14UNS-2B	T32A-D	T32A-DH	T32A-R	
T33A	M36×2-6H	T33A-D	T33A-DH	T33A-R	
T34A	M48×2-6H	T34A-D		T34A-R	
T52A	1-14UNS-2B	T52A-D	T52A-DH	T52A-R	
T61A	M20×1.5-6H	T61A-D	T61A-DH	T61A-R	
T62A	1-14UNS-2B	T62A-D	T62A-DH	T62A-R	
T63A	M36×2-6H	T63A-D	T63A-DH	T63A-R	
T64A	M48×2-6H	T64A-D		T64A-R	
T150A	M16×1.5-6H		T150A-DH		T150A-RC
T162A	M16×1.5-6H	T162A-D	T162A-DH	T162A-R	
T163A	M16×1.5-6H	T163A-D	T163A-DH	T163A-R	

REXROTH Series

rexroth
A Bosch Company



CA-16A-3N-R



MSR30RN28-R(S)



DBD6K-R



LC25-DH

Cavity	Thread	Roughing (Pre-drill)		Finishing (Reamer)	
		Carbide Brazed	HSS-Co	Carbide Brazed	Solid Carbide or V-welding
DBD2K2X	M24×1.5-6H		DBD2K2X-DH	DBD2K2X-R	
DBD4K	M14×1-6H	DBD4K-DC	DBD4K-DH		DBD4K-RC
DBD6K	M28×1.5-6H	DBD6K-D	DBD6K-DH	DBD6K-R	
DBD10K	M35×1.5-6H	DBD10K-D	DBD10K-DH	DBD10K-R	
DBD20K	M45×1.5-6H	DBD20K-D	DBD20K-DH	DBD20K-R	
DBD30K	M60×2-6H	DBD30K-D		DBD30K-R	
MSR6K	G1/4	MSR6K-DC	MSR6K-DH		MSR6K-RC
MSR8K	G3/8	MSR8K-DC	MSR8K-DH	MSR8K-R	MSR8K-RC
MSR10K	G1/2	MSR10K-D	MSR10K-DH	MSR10K-R	
MSR15K	G3/4	MSR15K-D	MSR15K-DH	MSR15K-R	
MSR20K	G1	MSR20K-D	MSR20K-DH	MSR20K-R	
MSR25RN21	G1 1/4	MSR25RN21-D	MSR25RN21-DH	MSR25RN21-R	
MSR25RN28	M42×1.5-6H	MSR25RN28-D		MSR25RN28-R	
MSR30RN21	G1 1/2	MSR30RN21-D	MSR30RN21-DH	MSR30RN21-R	
MSR30RN28	M48×1.5-6H	MSR30RN28-D		MSR30RN28-R	
MSR6K(M)	M14×1.5-6H	MSR6K(M)-DC	MSR6K(M)-DH	MSR6K(M)-R	
MSR8K(M)	M18×1.5-6H	MSR8K(M)-DC	MSR8K(M)-DH	MSR8K(M)-R	
MSR10K(M)	M22×1.5-6H	MSR10K(M)-D	MSR10K(M)-DH	MSR10K(M)-R	
MSR15K(M)	M27×2-6H	MSR15K(M)-D	MSR15K(M)-DH	MSR15K(M)-R	
MSR20K(M)	M33×2-6H	MSR20K(M)-D	MSR20K(M)-DH	MSR20K(M)-R	
MSR25K(M)	M42×2-6H	MSR25K(M)-D	MSR25K(M)-DH	MSR25K(M)-R	
MSR30K(M)	M48×2-6H	MSR30K(M)-D	MSR30K(M)-DH	MSR30K(M)-R	
LC16		LC16-D	LC16-DH	LC16-R	
LC25		LC25-D	LC25-DH	LC25-R	
LC32		LC32-D		LC32-R	
LC40		LC40-D		LC40-R	
DB6	M20×1-6H	DB6-D	DB6-DH	DB6-R	
DB10	M24×1-6H	DB10-D	DB10-DH	DB10-R	
DB20	M28×1.5-6H	DB20-D	DB20-DH	DB20-R	
DB40	M39×1.5-6H	DB40-D	DB40-DH	DB40-R	
LG6	M16×1.5-6H	LG6-DC	LG6-DH		LG6-RC
LG10	G1	LG10-D	LG10-DH	LG10-R	
017-E	G3/4	017-E-D	017-E-DH	017-E-R	
019-E	3/4-16UNF-2B	019-E-D	019-E-DH	019-E-R	
021-E	G1	021-E-D	021-E-DH	021-E-R	
081-E	M18×1.5-6H		081-E-DH	081-E-R	081-E-RC
CA-08-2N	3/4-16UNF-2B	CA-08-2N-D	CA-08-2N-DH	CA-08-2N-R	
CA-08-3N	3/4-16UNF-2B	CA-08-3N-D	CA-08-3N-DH	CA-08-3N-R	
CA-08-3C	3/4-16UNF-2B	CA-08-3C-D	CA-08-3C-DH	CA-08-3C-R	
CA-08-4N	3/4-16UNF-2B	CA-08-4N-D	CA-08-4N-DH	CA-08-4N-R	
CA-10-2N	7/8-14UNF-2B	CA-10-2N-D	CA-10-2N-DH	CA-10-2N-R	
CA-10-3N	7/8-14UNF-2B	CA-10-3N-D	CA-10-3N-DH	CA-10-3N-R	
CA-10-3C	7/8-14UNF-2B	CA-10-3C-D	CA-10-3C-DH	CA-10-3C-R	
CA-10-4N	7/8-14UNF-2B	CA-10-4N-D	CA-10-4N-DH	CA-10-4N-R	
CA-12-2N	1 1/16-12UN-2B	CA-12-2N-D	CA-12-2N-DH	CA-12-2N-R	
CA-12-3N	1 1/16-12UN-2B	CA-12-3N-D	CA-12-3N-DH	CA-12-3N-R	
CA-12-3C	1 1/16-12UN-2B	CA-12-3C-D	CA-12-3C-DH	CA-12-3C-R	
CA-12-4N	1 1/16-12UN-2B	CA-12-4N-D	CA-12-4N-DH	CA-12-4N-R	
CA-16-2N	1 5/16-12UN-2B	CA-16-2N-D	CA-16-2N-DH	CA-16-2N-R	
CA-16-3N	1 5/16-12UN-2B	CA-16-3N-D	CA-16-3N-DH	CA-16-3N-R	
CA-16-3C	1 5/16-12UN-2B	CA-16-3C-D	CA-16-3C-DH	CA-16-3C-R	
CA-16-4N	1 5/16-12UN-2B	CA-16-4N-D	CA-16-4N-DH	CA-16-4N-R	
0532VA10	M30×1.5-6H	0532VA10-D	0532VA10-DH	0532VA10-R	
0532VA14	M35×1.5-6H	0532VA14-D	0532VA14-DH	0532VA14-R	

HYDRAFORCE Series



VC04-B2-RC(SP)



VC08-2-R(S)



VC10-2-R



VC10-3-DH



VC12-4-R(S)

Cavity	Thread	Roughing (Pre-drill)		Finishing (Reamer)	
		Carbide Brazed	HSS-Co	Carbide Brazed	Solid Carbide or V-welding
VC04-2	7/16-20UNF-2B	VC04-DC	VC04-2-DH		VC04-RC
VC04-B2	7/16-20UNF-2B	VC04-B2-DC	VC04-B2-DH		VC04-B2-RC
VC04-B3	7/16-20UNF-2B	VC04-B3-DC	VC04-B3-DH		VC04-B3-RC
VC07-3	5/8-18UNF-2B		VC07-3-DH		VC07-3-RC
VC06-1	9/16-20UNF-2B	VC06-1-DC	VC06-1-DH		VC06-1-RC
VC06-2	9/16-20UNF-2B	VC06-2-DC	VC06-2-DH		VC06-2-RC
VC06-B2	9/16-20UNF-2B	VC06-B2-DC	VC06-B2-DH		VC06-B2-RC
VC08-2	3/4-16UNF-2B	VC08-2-D	VC08-2-DH	VC08-2-R	
VC08-3	3/4-16UNF-2B	VC08-3-D	VC08-3-DH	VC08-3-R	
VC08-4	3/4-16UNF-2B	VC08-4-D	VC08-4-DH	VC08-4-R	
VC08-5	3/4-16UNF-2B		VC08-5-DH		VC08-5-RC
VC10-2	7/8-14UNF-2B	VC10-2-D	VC10-2-DH	VC10-2-R	
VC10-3	7/8-14UNF-2B	VC10-3-D	VC10-3-DH	VC10-3-R	
VC10-S3	7/8-14UNF-2B	VC10-S3-D	VC10-S3-DH	VC10-S3-R	
VC10-L3	7/8-14UNF-2B	VC10-L3-D	VC10-L3-DH	VC10-L3-R	
VC10-4	7/8-14UNF-2B	VC10-4-D	VC10-4-DH	VC10-4-R	
VC10-5	7/8-14UNF-2B	VC10-5-D	VC10-5-DH	VC10-5-R	
VC10-6	7/8-14UNF-2B	VC10-6-D	VC10-6-DH	VC10-6-R	VC10-6-RC
VC10-S6	7/8-14UNF-2B	VC10-S6-D	VC10-S6-DH	VC10-S6-R	
VC12-2	1 1/16-12UN-2B	VC12-2-D	VC12-2-DH	VC12-2-R	
VC12-3	1 1/16-12UN-2B	VC12-3-D	VC12-3-DH	VC12-3-R	
VC12-S3	1 1/16-12UN-2B	VC12-S3-D	VC12-S3-DH	VC12-S3-R	
VC12-4	1 1/16-12UN-2B	VC12-4-D	VC12-4-DH	VC12-4-R	
VC12-S5	1 1/16-12UN-2B	VC12-S5-D	VC12-S5-DH	VC12-S5-R	
VC12-6	1 1/16-12UN-2B	VC12-6-D	VC12-6-DH	VC12-6-R	
VC12-S6	1 1/16-12UN-2B	VC12-S6-D	VC12-S6-DH	VC12-S6-R	
VC16-2	1 5/16-12UN-2B	VC16-2-D	VC16-2-DH	VC16-2-R	
VC16-3	1 5/16-12UN-2B	VC16-3-D	VC16-3-DH	VC16-3-R	
VC16-S3	1 5/16-12UN-2B	VC16-S3-D	VC16-S3-DH	VC16-S3-R	
VC16-4	1 5/16-12UN-2B	VC16-4-D	VC16-4-DH	VC16-4-R	
VC16-S5	1 5/16-12UN-2B	VC16-S5-D	VC16-S5-DH	VC16-S5-R	
VC16-S6	1 5/16-12UN-2B	VC16-S6-D	VC16-S6-DH	VC16-S6-R	
VC20-2	1 5/8-12UN-2B	VC20-2-D	VC20-2-DH	VC20-2-R	
VC20-S3	1 5/8-12UN-2B	VC20-S3-D	VC20-S3-DH	VC20-S3-R	
VC42-M2	M42×2-6H	VC42-M2-D	VC42-M2-DH	VC42-M2-R	
VC42-M3	M42×2-6H	VC42-M3-D	VC42-M3-DH	VC42-M3-R	
VC42-M4	M42×2-6H	VC42-M4-D	VC42-M4-DH	VC42-M4-R	
VC42-S6	M42×2-6H	VC42-S6-D	VC42-S6-DH	VC42-S6-R	
VC-T001		VC-T001-D	VC-T001-DH	VC-T001-R	
VC-T009		VC-T009-D	VC-T-009-DH	VC-T009-R	
VC-T011		VC-T011-D	VC-T-011-DH	VC-T011-R	
HVC06-2	9/16-18UNF-2B	HVC06-2-DC	HVC06-2-DH	HVC06-2-RC	
HVC06-3	9/16-18UNF-2B	HVC06-3-DC	HVC06-3-DH	HVC06-3-RC	
HVC06-B3	9/16-18UNF-2B	HVC06-B3-DC	HVC06-B3-DH	HVC06-B3-RC	
HVC08-2	3/4-16UNF-2B	HVC08-2-D	HVC08-2-DH	HVC08-2-R	
HVC08-3	3/4-16UNF-2B	HVC08-3-D	HVC08-3-DH	HVC08-3-R	
HVC12-4	1 1/16-12UN-2B	HVC12-4-D	HVC12-4-DH	HVC12-4-R	
HVC16-2	1 5/16-12UN-2B	HVC16-2-D	HVC16-2-DH	HVC16-2-R	
HVC16-S5	1 5/16-12UN-2B	HVC16-S5-D	HVC16-S5-DH	HVC16-S5-R	

PARKER Series



C08-2-R(S)



C10-3-DH



C12-2-DH



C16-2-R

Cavity	Thread	Roughing (Pre-drill)		Finishing (Reamer)	
		Carbide Brazed	HSS-Co	Carbide Brazed	Solid Carbide or V-welding
C04-2	7/16-20UNF-2B	C04-2-DC	C04-2-DH		C04-2-RC
C04-3	7/16-20UNF-2B	C04-3-DC	C04-3-DH		C04-3-RC
C08-2	3/4-16UNF-2B	C08-2-D	C08-2-DH	C08-2-R	
C08-3	3/4-16UNF-2B	C08-3-D	C08-3-DH	C08-3-R	
C08-4	3/4-16UNF-2B	C08-4-D	C08-4-DH	C08-4-R	
C09-2	3/4-16UNF-2B	C09-2-D	C09-2-DH	C09-2-R	
C10-2	7/8-14UNF-2B	C10-2-D	C10-2-DH	C10-2-R	
C10-3	7/8-14UNF-2B	C10-3-D	C10-3-DH	C10-3-R	
C10-3S	7/8-14UNF-2B	C10-3S-D	C10-3S-DH	C10-3S-R	
C10-4	7/8-14UNF-2B	C10-4-D	C10-4-DH	C10-4-R	
C11-3	7/8-14UNF-2B	C11-3-D	C11-3-DH	C11-3-R	
C12-2	1 1/16-12UN-2B	C12-2-D	C12-2-DH	C12-2-R	
C12-3	1 1/16-12UN-2B	C12-3-D	C12-3-DH	C12-3-R	
C12-3L	1 1/16-12UN-2B	C12-3L-D	C12-3L-DH	C12-3L-R	
C12-4	1 1/16-12UN-2B	C12-4-D	C12-4-DH	C12-4-R	
C12-4L	1 1/16-12UN-2B	C12-4L-D	C12-4L-DH	C12-4L-R	
C16-2	1 5/16-12UN-2B	C16-2-D	C16-2-DH	C16-2-R	
C16-3	1 5/16-12UN-2B	C16-3-D	C16-3-DH	C16-3-R	
C16-3S	1 5/16-12UN-2B	C16-3S-D	C16-3S-DH	C16-3S-R	
C20-2	1 5/8-12UN-2B	C20-2-D	C20-2	C20-2-R	
C20-3S	1 5/8-12UN-2B	C20-3S-D	C20-3S	C20-3S-R	
MHC-010	1 1/16-12UN-2B	MHC-010-D	MHC-010-DH	MHC-010-R	
MHC-022	1 3/16-12UN-2B	MHC-022-D	MHC-022-DH	MHC-022-R	
MHC-025	1 5/8-12UN-2B	MHC-025-D		MHC-025-R	
MHC-050	2 1/4-12UN-2B	MHC-050-D		MHC-050-R	
CAV0W-2	7/16-20UNF-2B	CAV0W-2-DC	CAV0W-2-DH		CAV0W-2-RC
CAVSW-3	7/16-20UNF-2B	CAVSW-3-DC	CAVSW-3-DH		CAVSW-3-RC
2G	5/8-18UNF-2B	2G-D	2G-DH	2G-R	
2R	7/8-14UNF-2B	2R-D	2R-DH	2R-R	
2X	3/4-16UNF-2B	2X-D	2X-DH	2X-R	
3A	1 3/16-12UN-2B	3A-D	3A-DH	3A-R	
3C	1 3/16-12UN-2B	3C-D	3C-DH	3C-R	
3J	7/8-14UNF-2B	3J-D	3J-DH	3J-R	
3K		3K-D	3K-DH	3K-R	
3M	1 5/16-12UN-2B	3M-D	3M-DH	3M-R	
3X	7/8-14UNF-2B	3X-D	3X-DH	3X-R	
4C	7/8-14UNF-2B	4C-D	4C-DH	4C-R	
5A	1 3/16-12UN-2B	5A-D	5A-DH	5A-R	
53-1	M18×1.5-6H	53-1-D	53-1-DH	53-1-R	
54-1	M18×1.5-6H	54-1-DC	54-1-DH		54-1-RC
68-1	M24×1.5-6H	68-1-D	68-1-DH	68-1-R	
91-1	M42×2-6H	91-1-D		91-1-R	
100-1	M45×2-6H	100-1-D		100-1-R	

EATON/VIKERS Series



A12338-R



C-12-4-R(S)



AT502-R



AT447-DH(6610)

Cavity	Thread	Roughing (Pre-drill)		Finishing (Reamer)	
		Carbide Brazed	HSS-Co	Carbide Brazed	Solid Carbide or V-welding
A877	1 5/16-12UN-2B	A1161-D	A1161-DH	A1162-R	
A878	7/8-14UNF-2B	A885-D	A885-DH	A1173-R	
A879	3/4-16UNF-2B	A1040-D	A1040-DH	A1041-R	
A880	1-14UNS	A1302-D	A1302-DH	A1303-R	
A881	1-14UNS	A1183-D	A1183-DH	A1036-R	
A893	7/8-14UNF-2B	A894-D	A894-DH	AT491-R	
A1126	1 5/8-12UN-2B	AT422-D		AT488-R	
A3145	1 5/16-12UN-2B	A3226-D	A3226-DH	A3227-R	
A3146	1 1/8-12UN-2B	A3315-D	A3315-DH	A3316-R	
A3531	3/4-16UNF-2B	A3538-D	A3538-DH	A3539-R	
A5302	7/8-14UNF-2B	A5668-D	A5668-DH	A5669-R	
A6610	M20×1.5-6H	AT447-D	AT447-DH	AT448-R	
A6701	3/4-16UNF-2B	AT482-D	AT482-DH	AT483-R	
A6726	1 5/16-12UN-2B	A6933-D	A6933-DH	A6934-R	
A6935	1 5/8-12UN-2B	AT501-D		AT502-R	
A7447	M27×2-6H	A8115-D	A8115-DH	A8117-R	
A12088	1 1/8-12UN-2B	A3315-D	A3315-DH	A3316-R	
A12196	M27×1.5-6H	A12197-D	A12197-DH	A12198-R	
A12336	M27×1.5-6H	A12337-D	A12337-DH	A12338-R	
A12370	7/8-14UNF-2B	A12439-D	A12439-DH	A12440-R	
A12743	7/8-14UNF-2B	A12802-D	A12802-DH	A12803-R	
A12744	7/8-14UNF-2B	A12804-D	MSR30K(M)-DH	A12805-R	
A13098	1 5/8-12UN-2B	13099-D	A13099-DH	A13100-R	
A13245	1 5/8-12UN-2B	13246-D		L13247-R	
A16102	1 5/16-12UN-2B	A3226-D	A3226-DH	A3227-R	
A16927	M10×1-6H				AT1097-RSC
A20081	M38×2-6H	AT2369/1-D		AT2369/2-R	
A20530	M20×1.5-6H	AT2573-D	AT2573-DH	AT2574-R	
A21145	1 1/16-12UN-2B	AT2962-D	AT2962-DH	AT2963-R	
A21773	1 5/8-12UN-2B	AT3308-D		AT3309-R	
A22903	M18×1.5-6H	AT3616-D	AT3616-DH	AT3617-R	
CVA-20-01-0	M20×1.5-6H	A8961-D	A8961-DH	A8962-R	
CVA-22-06-0	M22×1.5-6H	A8966-D	A8966-DH	A8967-R	
CVA-27-04-0	M27×2-6H	A12784-D	A12784-DH	A496-R	
CVB-22-06-0	M22×1.5-6H	CVB-22-06-D	CVB-22-06-DH	CVB-22-06-R	
CVB-22-04-0	M42×2-6H	CVB-22-04-D		CVB-22-04-R	
C-4-2	7/16-20UNF-2B	C-4-2-DC	C-4-2-DH		C-4-2-RC
C-4-3	7/16-20UNF-2B	C-4-3-DC	C-4-3-DH		C-4-3-RC
C-8-2	3/4-16UNF-2B	C-8-2-D	C-8-2-DH	CA-08-2N-R	
C-8-3	3/4-16UNF-2B	C-8-3-D	C-8-3-DH	CA-08-3N-R	
C-8-4	3/4-16UNF-2B	C-8-4-D	C-8-4-DH	C-8-4-R	
C-8-5S	3/4-16UNF-2B	C-8-5S-DC	C-8-5S-DH		C-8-5S-RC
C-10-2	7/8-14UNF-2B	C-10-2-D	C-10-2-DH	C-10-2-R	
C-10-3	7/8-14UNF-2B	C-10-3-D	C-10-3-DH	C-10-3-R	
C-10-3S	7/8-14UNF-2B	C-10-3S-D	C-10-3S-DH	C-10-3S-R	
C-10-4	7/8-14UNF-2B	C-10-4-D	C-10-4-DH	C-10-4-R	
C-10-4U	7/8-14UNF-2B	C-10-4U-D	C-10-4U-DH	C-10-4U-R	
C-10-5S	7/8-14UNF-2B	C-10-5S-D	C-10-5S-DH	C-10-5S-R	
C-12-2	1 1/16-12UN-2B	C-12-2-D	C-12-2-DH	C-12-2-R	
C-12-3	1 1/16-12UN-2B	C-12-3-D	C-12-3-DH	C-12-3-R	
C-12-3S	1 1/16-12UN-2B	C-12-3S-D	C-12-3S-DH	C-12-3S-R	
C-12-4	1 1/16-12UN-2B	C-12-4-D	C-12-4-DH	C-12-4-R	
C-12-4U	1 1/16-12UN-2B	C-12-4U-D	C-12-4U-DH	C-12-4U-R	
C-12-5S	1 1/16-12UN-2B	C-12-5S-D	C-12-5S-DH	C-12-5S-R	
C-16-2	1 5/16-12UN-2B	C-16-2-D	C-16-2-DH	C-16-2-R	
C-16-3	1 5/16-12UN-2B	C-16-3-D	C-16-3-DH	C-16-3-R	
C-16-3S	1 5/16-12UN-2B	C-16-3S-D	C-16-3S-DH	C-16-3S-R	
C-16-4	1 5/16-12UN-2B	C-16-4-D	C-16-4-DH	C-16-4-R	
C-16-5S	1 5/16-12UN-2B	C-16-5S-D	C-16-5S-DH	C-16-5S-R	
C-20-2	1 5/8-12UN-2B	C-20-2-D		C-20-2-R	
C-20-3	1 5/8-12UN-2B	C-20-3-D		C-20-3-R	
C-20-3S	1 5/8-12UN-2B	C-20-3S-D		C-20-3S-R	
C-20-4	1 5/8-12UN-2B	C-20-4-D		C-20-4-R	
C-20-5S	1 5/8-12UN-2B	C-20-5S-D		C-20-5S-R	

ARGO HYTOS Series



A2-279396-R(S)



Q3-291248



B3-279400-R



QD3-279417-RC

Cavity	Thread	Roughing (Pre-drill)		Finishing (Reamer)	
		Carbide Brazed	HSS-Co	Carbide Brazed	Solid Carbide or V-welding
A2-279396	3/4-16UNF-2B	A2-279396-D	A2-279396-DH	A2-279396-R	
A3-279397	3/4-16UNF-2B	A3-279397-D	A3-279397-DH	A3-279397-R	
A4-279398	3/4-16UNF-2B	A4-279398-D	A4-279398-DH	A4-279398-R	
B2-279399	7/8-14UNF-2B	B2-279399-D	B2-279399-DH	B2-279399-R	
B3-279400	7/8-14UNF-2B	B3-279400-D	B3-279400-DH	B3-279400-R	
B4-279401	7/8-14UNF-2B	B4-279401-D	B4-279401-DH	B4-279401-R	
BP3-379230	7/8-14UNF-2B	BP3-379230-D	BP3-379230-DH	BP3-379230-R	
BPY3-379231	7/8-14UNF-2B	BPY3-379231-D	BPY3-379231-DH	BPY3-379231-R	
CP3-97634	1 1/16-12UN-2B	CP3-97634-D	CP3-97634-DH	CP3-97634-R	
CPY3-97635	1 1/16-12UN-2B	CPY3-97635-D	CPY3-97635-DH	CPY3-97635-R	
C2-11433	1 1/16-12UN-2B	C2-11433-D	C2-11433-DH	C2-11433-R	
C3-11513	1 1/16-12UN-2B	C3-11513-D	C3-11513-DH	C3-11513-R	
QC2-284410	M12×1-6H	QC2-284410-DCS			QC2-284410-RC
Q3-291248	M20×1.5-6H	Q3-291248-D	Q3-291248-DH	Q3-291248-R	
QE3-279404	M20×1.5-6H	QE3-279404-D	QE3-279404-DH	QE3-279404-R	
QF3-279405	M22×1.5-6H	QF3-279405-D	QF3-279405-DH	QF3-279405-R	
QG2-279406	M22×1.5-6H	QG2-279406-D	QG2-279406-DH	QG2-279406-R	
RD3-303228	M22×1.5-6H	RD3-303228-D	RD3-303228-DH	RD3-303228-R	
RE3-303229	G1/2	RE3-303229-D	RE3-303229-DH	RE3-303229-R	
RA2-360372	M22×1.5-6H	RA2-360372-D	RA2-360372-DH	RA2-360372-R	
QF2-70114	M22×1.5-6H	QF2-70114-D	QF2-70114-DH	QF2-70114-R	
QI3-279412	M24×1.5-6H	QI3-279412-D	QI3-279412-DH	QI3-279412-R	
QJ3-281052	M24×1.5-6H	QJ3-281052-D	QJ3-281052-DH	QJ3-281052-R	
QH2-279411	M24×1.5-6H	QH2-279411-D	QH2-279411-DH	QH2-279411-R	
LA3-336467	M24×1.5-6H	LA3-336467-D	LA3-336467-DH	LA3-336467-R	
R3-303068	M27×1.5-6H	R3-303068-D	R3-303068-DH	R3-303068-R	
R4-303235	M27×1.5-6H	R4-303235-D	R4-303235-DH	R4-303235-R	
QK2-279407	M27×2-6H	QK2-279407-D	QK2-279407-DH	QK2-279407-R	
QL3-279408	M27×2-6H	QL3-279408-D	QL3-279408-DH	QL3-279408-R	
QM3-279409	M27×2-6H	QM3-279409-D	QM3-279409-DH	QM3-279409-R	
K2	M27×2-6H	K2-D	K2-DH	K2-R	
K3-281054	M27×2-6H	K3-281054-D	K3-281054-DH	K3-281054-R	
QP2-279413	M28×1.5-6H	QP2-279413-D	QP2-279413-DH	QP2-279413-R	
RB2-34959	M30×1.5-6H	RB2-34959-D	RB2-34959-DH	RB2-34959-R	
RB3-34415	M30×1.5-6H	RB3-34415-D	RB3-34415-DH	RB3-34415-R	
QT2-279415	M35×1.5-6H	QT2-279415-D	QT2-279415-DH	QT2-279415-R	
T3-303237	M38×2-6H	T3-303237-D	T3-303237-DH	T3-303237-R	
QY3-303227	G1/8	QY3-303227-DSC	QY3-303227-DH	QY3-303227-RSC	
QD3-279417	M12×1.5-6H	QD3-279417-DSC	QD3-279417-DH	QD3-279417-RSC	
D4-303234	1 5/16-12UN-2B	D4-303234-D	D4-303234-DH	D4-303234-R	
S3-291482	1 5/16-12UN-2B	S3-291482-D	S3-291482-DH	S3-291482-R	
U3-291480	1 1/8-12UN-2B	U3-291480-D	U3-291480-DH	U3-291480-R	
U4-291479	1 1/8-12UN-2B	U4-291479-D	U4-291479-DH	U4-291479-R	
V4-291483	1 5/16-12UN-2B	V4-291483-D	V4-291483-DH	V4-291483-R	
W3X3-279403		W3X3-279403-D	W3X3-279403-DH	W3X3-279403-R	
Y3-279402		Y3-279402-D	Y3-279402-DH	Y3-279402-R	

ARGO HYTOS Series



DVE10-R



WVE-R1/8-RC



08140-2-R



FC10-3-R(S)

Cavity	Thread	Roughing (Pre-drill)		Finishing (Reamer)	
		Carbide Brazed	HSS-Co	Carbide Brazed	Solid Carbide or V-welding
WVE-R1/8 03030	G1/8	WVE-R1/8-DC	WVE-R1/8-DH		WVE-R1/8-RC
WVE-R1/4 05030	G1/4	WVE-R1/4-DC	WVE-R1/4-DH		WVE-R1/4-RC
WVE-R1/2 08730	G1/2	WVE-R1/2-D	WVE-R1/2-DH	WVE-R1/2-R	
RVE-R1/8 04020	G1/8	RVE-R1/8-DC	RVE-R1/8-DH		RVE-R1/8-RC
RVE-R1/4 04220	G1/4	RVE-R1/4-DC	RVE-R1/4-DH		RVE-R1/4-RC
RVE-R3/8 06320	G3/8	RVE-R3/8-D	RVE-R3/8-DH	RVE-R3/8-R	
RVE-R1/2 08220	G1/2	RVE-R1/2-D	RVE-R1/2-DH	RVE-R1/2-R	
DVE08 08920	G1/2	DVE08-D	DVE08-DH	DVE08-R	
DVE10 10920	G1/2	DVE10-D	DVE10-DH	DVE10-R	
DVE12 12920	G3/4	DVE12-D	DVE12-DH	DVE12-R	
DVE16 16920	G1	DVE16-D	DVE16-DH	DVE16-R	
ERVE-R1/2 08021	G1/2	ERVE-R1/2-D	ERVE-R1/2-DH	ERVE-R1/2-R	
ERVE-R1 16021	G1	ERVE-R1-D	ERVE-R1-DH	ERVE-R1-R	
ERVE-R1 1/2 20021	G1 1/2	ERVE-R1 1/2-D		ERVE-R1 1/2-R	
DB3E 05220	M16×1.5-6H		05220-DH	05220-R	
WSM 06020	M20×1.5-6H		06020-DH	06020-R	
WSM 08120	M20×1.5-6H	08120-D	08120-DH	08120-R	
WSM/WKM 08130	M20×1.5-6H	08130-D	08130-DH	08130-R	
WSM 10120	M22×1.5-6H	10120-D	10120-DH	10120-R	
WSM 12120	M27×2-6H	12120-D	12120-DH	12120-R	
WSM 16520	M33×2-6H	16520-D	16520-DH	16520-R	
WSM 20121	M42×2-6H	20121-D	20121-DH	20121-R	
DB10120A	M22×1.5-6H	10120A-D	10120A-DH	10120A-R	
DB12120A	M27×2-6H	12120A-D	12120A-DH	12120A-R	
DB12121	M27×2-6H	12121-D	12121-DH	12121-R	
DB16221	M33×2-6H	16221-D	16221-DH	16221-R	
DB16621	M33×2-6H	16621-D	16621-DH	16621-R	
WKM08140	M20×1.5-6H	08140-D	08140-DH	08140-R	
WKM10130	M22×1.5-6H	10130-D	10130-DH	10130-R	
WKM12130	M27×2-6H	12130-D	12130-DH	12130-R	
12230	M27×2-6H	12230-D	12230-DH	12230-R	
FC06-2	9/16-18UNF-2B	FC06-2-D	FC06-2-DH	FC06-2-R	FC06-2-RC
FC06-3	9/16-18UNF-2B	FC06-3-D	FC06-3-DH	FC06-3-R	FC06-3-RC
FC06-4	9/16-18UNF-2B	FC06-4-DC	FC06-4-DH		FC06-4-RC
FC08-2	3/4-16UNF-2B	FC08-2-D	FC08-2-DH	FC08-2-R	
FC08-3	3/4-16UNF-2B	FC08-3-D	FC08-3-DH	FC08-3-R	
FC08-4	3/4-16UNF-2B	FC08-4-D	FC08-4-DH	FC08-4-R	
FC10-2	7/8-14UNF-2B	FC10-2-D	FC10-2-DH	FC10-2-R	
FC10-3	7/8-14UNF-2B	FC10-3-D	FC10-3-DH	FC10-3-R	
FC10-4	7/8-14UNF-2B	FC10-4-D	FC10-4-DH	FC10-4-R	
FC12-2	1 1/16-12UN-2B	FC12-2-D	FC12-2-DH	FC12-2-R	
FC12-3	1 1/16-12UN-2B	FC12-3-D	FC12-3-DH	FC12-3-R	
FC12-4	1 1/16-12UN-2B	FC12-4-D	FC12-4-DH	FC12-4-R	
FC16-2	1 5/16-12UN-2B	FC16-2-D	FC16-2-DH	FC16-2-R	
FC16-3	1 5/16-12UN-2B	FC16-3-D	FC16-3-DH	FC16-3-R	
FC16-4	1 5/16-12UN-2B	FC16-4-D	FC16-4-DH	FC16-4-R	

VIS Series



VH164-RC



VH164-DH



SAE16-1-DH(S)



SAE16-1-R

Cavity	Thread	Roughing (Pre-drill)		Finishing (Reamer)	
		Carbide Brazed	HSS-Co	Carbide Brazed	Solid Carbide or V-welding
VH001	M16×1.5-6H	VH001-D	VH001-DH	VH001-R	
VH002	M18×1.5-6H	VH002-DC	VH002-DH		VH002-RC
VH003	M20×1.5-6H	VH003-DC	VH003-DH		VH003-RC
VH004	M16×1.5-6H	VH004-DC	VH004-DH		VH004-RC
VH005	M24×1.5-6H	VH005-D	VH005-DH	VH005-R	
VH011	7/8-14UNF-2B	VH011-D	VH011-DH	VH011-R	
VH017	3/4-16UNF-2B	VH017-D	VH017-DH	VH017-R	
VH018		VH018-DCS			VH018-RCS
VH023	3/4-16UNF-2B	VH023-D	VH023-DH	VH023-R	
VH024	M26×1.5-6H	VH024-D	VH024-DH	VH024-R	
VH032	7/8-14UNF-2B	VH032-D	VH032-DH	VH032-R	
VH039	M18×1.5-6H	VH039-D	VH039-DH	VH039-R	
VH043	M20×1.5-6H	VH043-D	VH043-DH	VH043-R	
VH045	M22×1.5-6H	VH045-D	VH045-DH	VH045-R	
VH054	M27×1.5-6H	VH054-D	VH054-DH	VH054-R	
VH065	M30×1.5-6H	VH065-D	VH065-DH	VH065-R	
VH069	M20×1.5-6H	VH069-D	VH069-DH	VH069-R	
VH070	7/8-14UNF-2B	VH070-D	VH070-DH	VH070-R	
VH076				VH076-R	
VH077	M24×1-6H	VH077-DC	VH077-DH		VH077-RC
VH079	M18×1.5-6H	VH079-D	VH079-DH	VH079-R	
VH080	M22×1.5-6H	VH080-D	VH080-DH	VH080-R	
VH081		VH081-D	VH081-DH	VH081-R	
VH099	M18×1.5-6H	VH099-D	VH099-DH	VH099-R	
VH101	M26×1.5-6H	VH101-D	VH101-DH	VH101-R	
VH102	3/4-16UNF-2B	VH102-D	VH102-DH	VH102-R	
VH120	M18×1.5-6H	VH120-D	VH120-DH	VH120-R	
VH122	M33×2-6H	VH122-D	VH122-DH	VH122-R	
VH141	7/8-14UNF-2B	VH141-D	VH141-DH	VH141-R	
VH144	7/8-14UNF-2B	VH144-D	VH144-DH	VH144-R	
VH160	M18×1.5-6H	VH160-D	VH160-DH	VH160-R	
VH162	M22×1.5-6H	VH162-D	VH162-DH	VH162-R	
VH164	9/16-18UNF-2B	VH164-DC	VH164-DH		VH164-RC
VH209	M20×1.5-6H	VH209-D	VH209-DH	VH209-R	
SAE08	3/4-16UNF-2B	SAE-08-2N-D	SAE-08-2N-DH	SAE-08-2N-R	
SAE08-1	3/4-16UNF-2B	SAE-08-3N-D	SAE-08-3N-DH	SAE-08-3N-R	
SAE08-2	3/4-16UNF-2B	SAE-08-3C-D	SAE-08-3C-DH	SAE-08-3C-R	
SAE08-3	3/4-16UNF-2B	SAE-08-4N-D	SAE-08-4N-DH	SAE-08-4N-R	
SAE10	7/8-14UNF-2B	SAE-10-2N-D	SAE-10-2N-DH	SAE-10-2N-R	
SAE10-1	7/8-14UNF-2B	SAE-10-3N-D	SAE-10-3N-DH	SAE-10-3N-R	
SAE10-2	7/8-14UNF-2B	SAE-10-3C-D	SAE-10-3C-DH	SAE-10-3C-R	
SAE10-3	7/8-14UNF-2B	SAE-10-4N-D	SAE-10-4N-DH	SAE-10-4N-R	
SAE12	1 1/16-12UN-2B	SAE-12-2N-D	SAE-12-2N-DH	SAE-12-2N-R	
SAE12-1	1 1/16-12UN-2B	SAE-12-3N-D	SAE-12-3N-DH	SAE-12-3N-R	
SAE12-2	1 1/16-12UN-2B	SAE-12-3C-D	SAE-12-3C-DH	SAE-12-3C-R	
SAE12-3	1 1/16-12UN-2B	SAE-12-4N-D	SAE-12-4N-DH	SAE-12-4N-R	
SAE16	1 5/16-12UN-2B	SAE-16-2N-D	SAE-16-2N-DH	SAE-16-2N-R	
SAE16-1	1 5/16-12UN-2B	SAE-16-3N-D	SAE-16-3N-DH	SAE-16-3N-R	
SAE16-2	1 5/16-12UN-2B	SAE-16-3C-D	SAE-16-3C-DH	SAE-16-3C-R	
SAE16-3	1 5/16-12UN-2B	SAE-16-4N-D	SAE-16-4N-DH	SAE-16-4N-R	

Atlantic Series



VP00013-R(S)



VP000165-DH



VP000165-R



SAE08-2-DH

Cavity	Thread	Roughing (Pre-drill)		Finishing (Reamer)	
		Carbide Brazed	HSS-Co	Carbide Brazed	Solid Carbide or V-welding
VP000005	M16×1.5-6H		VP000005-DH		VP000005-RC
VP000006	G3/4	VP000006-D	VP000006-DH	VP000006-R	
VP000008	M20×1.5-6H	VP000008-D	VP000008-DH	VP000008-R	
VP000013	G1	VP000013-D	VP000013-DH	VP000013-R	
VP000015	7/8-14UNF-2B	VP000015-D	VP000015-DH	VP000015-R	
VP000016	5/8-18UNF-2B	VP000016-DC	VP000016-DH		VP000016-RC
VP000018	G1/8	VP000018-DCS	VP000018-DH		VP000018-RSC
VP000028	7/8-14UNF-2B	VP000028-D	VP000028-DH	VP000028-R	
VP000038	G3/4	VP000038-D	VP000038-DH	VP000038-R	
VP000057	G3/4	VP000057-D	VP000057-DH	VP000057-R	
VP000058	1 1/2-12UN-2B	VP000058-D	VP000058-DH	VP000058-R	
VP000070	G3/4	VP000070-D	VP000070-DH	VP000070-R	
VP000079	G1/4	VP000079-DC	VP000079-DH		VP000079-RC
VP000080	G1/2	VP000080-D	VP000080-DH	VP000080-R	
VP000086	M26×1.5-6H	VP000086-D	VP000086-DH	VP000086-R	
VP000096	G3/4	VP000096-D	VP000096-DH	VP000096-R	
VP000098	G1/4	VP000098-DCS	VP000098-DH		VP000098-RSC
VP000120	1 3/16-12UN-2B	VP000120-D	VP000120-DH	VP000120-R	
VP000121	1 1/16-12UN-2B	VP000121-D	VP000121-DH	VP000121-R	
VP000127	M42×2-6H	VP000127-D		VP000127-R	
VP000128	M33×2-6H	VP000128-D	VP000128-DH	VP000128-R	
VP000132	G1/2		VP000132-DH	VP000132-R	
VP000154	G1	VP000154-D	VP000154-DH	VP000154-R	
VP000158	G1/2			VP000158-R	
VP000161	M20×1.5-6H	VP000161-D	VP000161-DH	VP000161-R	same with T11A
VP000165	1-14UNS-2B	VP000165-D	VP000165-DH	VP000165-R	same with T2A
VP000166	M36×2-6H	VP000166-D	VP000166-DH	VP000166-R	same with T17A
VP000174	7/8-14UNF-2B	VP000174-D	VP000174-DH	VP000174-R	same with SAE-10-3N
VP000178	1 1/2-12UN-2B	VP000178-D	VP000178-DH	VP000178-R	
VP000180	G1 1/4	VP000180-D	VP000180-DH	VP000180-R	
VP000193	3/4-16UNF-2B		VP000193-DH	VP000193-R	
VP000198	G1/2	VP000198-D	VP000198-DH	VP000198-R	
VP000202	G3/4			VP000202-R	
VP000204	1 1/2-12UN-2B		VP000204-DH		same with VP000058
VP000216	G1/8	VP000216-DCS	VP000216-DH	VP000216-R	VP000216-RCS
VP000249	M18×1.5-6H	VP000249-DC	VP000249-DH	VP000249-R	
VP000250	M24×1.5-6H	VP000250-D	VP000250-DH	VP000250-R	
VP000307	G1/8			VP000307-R	
VP000309	G1/4			VP000309-R	
VP000310	G3/8			VP000310-R	
VP000311	G1/2			VP000311-R	
VP000312	G3/4			VP000312-R	
VP000314	M22×1.5-6H	VP000314-D	VP000314-DH	VP000314-R	
VP000330	1 1/2-12UN-2B	VP000330-D	VP000330-DH	VP000330-R	same with VP000330
VP000338		VP000338-D	VP000338-DH	VP000338-R	
VP000371		VP000371-DC	VP000371-DH		VP000371-RCS
VP000388	M30×1.5-6H	VP000388-D	VP000388-DH	VP000388-R	
VP000445	M20×1.5-6H	VP000445-D	VP000445-DH	VP000445-R	
VP000555	G7/8	VP000555-D	VP000555-DH	VP000555-R	
SAE-08-2N	3/4-16UNF-2B	SAE-08-2N-D	SAE-08-2N-DH	SAE-08-2N-R	
SAE-08-3N	3/4-16UNF-2B	SAE-08-3N-D	SAE-08-3N-DH	SAE-08-3N-R	
SAE-08-3C	3/4-16UNF-2B	SAE-08-3C-D	SAE-08-3C-DH	SAE-08-3C-R	
SAE-08-4N	3/4-16UNF-2B	SAE-08-4N-D	SAE-08-4N-DH	SAE-08-4N-R	
SAE-10-2N	7/8-14UNF-2B	SAE-10-2N-D	SAE-10-2N-DH	SAE-10-2N-R	
SAE-10-3N	7/8-14UNF-2B	SAE-10-3N-D	SAE-10-3N-DH	SAE-10-3N-R	
SAE-10-3C	7/8-14UNF-2B	SAE-10-3C-D	SAE-10-3C-DH	SAE-10-3C-R	
SAE-10-4N	7/8-14UNF-2B	SAE-10-4N-D	SAE-10-4N-DH	SAE-10-4N-R	
SAE-12-2N	1 1/16-12UN-2B	SAE-12-2N-D	SAE-12-2N-DH	SAE-12-2N-R	
SAE-12-3N	1 1/16-12UN-2B	SAE-12-3N-D	SAE-12-3N-DH	SAE-12-3N-R	
SAE-12-3C	1 1/16-12UN-2B	SAE-12-3C-D	SAE-12-3C-DH	SAE-12-3C-R	
SAE-12-4N	1 1/16-12UN-2B	SAE-12-4N-D	SAE-12-4N-DH	SAE-12-4N-R	
SAE-16-2N	1 5/16-12UN-2B	SAE-16-2N-D	SAE-16-2N-DH	SAE-16-2N-R	
SAE-16-3N	1 5/16-12UN-2B	SAE-16-3N-D	SAE-16-3N-DH	SAE-16-3N-R	
SAE-16-3C	1 5/16-12UN-2B	SAE-16-3C-D	SAE-16-3C-DH	SAE-16-3C-R	
SAE-16-4N	1 5/16-12UN-2B	SAE-16-4N-D	SAE-16-4N-DH	SAE-16-4N-R	

Comatrol Series



SDC08-2-DH



NCS06/3-RSC(S)



SDC08-4-D(S)



SDC12-4-R(S)

Cavity	Thread	Roughing (Pre-drill)		Finishing (Reamer)	
		Carbide Brazed	HSS-Co	Carbide Brazed	Solid Carbide or V-welding
SDC08-2	3/4-16UNF-2B	SDC08-2-D	SDC08-2-DH	SDC08-2-R	
SDC08-3	3/4-16UNF-2B	SDC08-3-D	SDC08-3-DH	SDC08-3-R	
SDC08-4	3/4-16UNF-2B	SDC08-4-D	SDC08-4-DH	SDC08-4-R	
SDC10-2	7/8-14UNF-2B	SDC10-2-D	SDC10-2-DH	SDC10-2-R	
SDC10-3	7/8-14UNF-2B	SDC10-3-D	SDC10-3-DH	SDC10-3-R	
SDC10-3S	7/8-14UNF-2B	SDC10-3S-D	SDC10-3S-DH	SDC10-3S-R	
SDC10-4	7/8-14UNF-2B	SDC10-4-D	SDC10-4-DH	SDC10-4-R	
SDC12-2	1 1/16-12UN-2B	SDC12-2-D	SDC12-2-DH	SDC12-2-R	
SDC12-3	1 1/16-12UN-2B	SDC12-3-D	SDC12-3-DH	SDC12-3-R	
SDC16-2	1 5/16-12UN-2B	SDC16-2-D	SDC16-2-DH	SDC16-2-R	
SDC16-3	1 5/16-12UN-2B	SDC16-3-D	SDC16-3-DH	SDC16-3-R	
SDC20-2	1 5/8-12UN-2B	SDC20-2-D		SDC20-2-R	
SDC20-3	1 5/8-12UN-2B	SDC20-3-D		SDC20-3-R	
SDC20-4	1 5/8-12UN-2B	SDC20-3-D		SDC20-3-R	
CP04-2	7/16-20UNF-2B	CP04-2-DSC			CP04-2-RSC
CP04-3	9/16-18UNF-2B	CP04-3-DSC			CP04-3-RSC
CP07-3	5/8-18UNF-2B	CP07-3-DC	CP07-3-DH		CP07-3-RC
CP08-3L	3/4-16UNF-2B	CP08-3L-D	CP08-3L-DH	CP08-3L-R	
CP12-2	1 1/16-12UN-2B	CP12-2-D	CP12-2-DH	CP12-2-R	
CP12-3	1 1/16-12UN-2B	CP12-3-D	CP12-3-DH	CP12-3-R	
CP12-3M	1 1/16-12UN-2B	CP12-3M-D	CP12-3M-DH	CP12-3M-R	
CP12-3S	1 1/16-12UN-2B	CP12-3S-D	CP12-3S-DH	CP12-3S-R	
CP12-4	1 1/16-12UN-2B	CP12-4-D	CP12-4-DH	CP12-4-R	
CP16-4	1 5/16-12UN-2B	CP16-4-D	CP16-4-DH	CP16-4-R	
CP20-3S	1 5/8-12UN-2B	CP20-3S-D		CP20-3S-R	
NCS04/2	M18×1.5-6H	NCS04/2-D	NCS04/2-DH	NCS04/2-R	
NCS04/3	M18×1.5-6H	NCS04/3-D	NCS04/3-DH	NCS04/3-R	
NCS06/2	M22×1.5-6H	NCS06/2-D	NCS06/2-DH	NCS06/2-R	
NCS06/3	M22×1.5-6H	NCS06/3-D	NCS06/3-DH	NCS06/3-R	
NCS06/4	M22×1.5-6H	NCS06/4-D	NCS06/4-DH	NCS06/4-R	
NCS12/2	M33×2-6H	NCS12/2-D	NCS12/2-DH	NCS12/2-R	
NCS12/3	M33×2-6H	NCS12/3-D	NCS12/3-DH	NCS12/3-R	
NCS12/4	M33×2-6H	NCS12/4-D	NCS12/4-DH	NCS12/4-R	
NCS12/5	M33×2-6H	NCS12/5-D	NCS12/5-DH	NCS12/5-R	
VME06	M20×1-6H	VME06-D	VME06-DH	VME06-R	
VME07	M24×1.5-6H	VME07-D	VME07-DH	VME07-R	
VME08	M30×1.5-6H	VME08-D	VME08-DH	VME08-R	
FC-144		FC-144-D	FC-144-DH	FC-144-R	
FC-304		FC-304-D	FC-304-DH	FC-304-R	
FC-336	7/16-20UNF-2B	FC-336-DC	FC-336-DH		FC-336-RC

Porting Tool -SAE Series



SAE-4



SAE-6(S)



SAE-8



SAE-20

Name	Thread	Spot Face Diameter	Carbide Brazed	Carbide V-Welding	Solid Carbide
SAE-1	1/4-24UNS-2B	8.4			SAE-1-Φ8.4SC
SAE-2	5/16-24UNF-2B	12,12.5,13,17		SAE-2-Φ17C	SAE-2-Φ12,13SC
SAE-3	3/8-24UNF-2B	12,13,14,19		SAE-3-Φ19C	SAE-3-Φ12,13,14SC
SAE-4	7/16-20UNF-2B	16,21		SAE-4-Φ21C	SAE-4-Φ16SC
SAE-5	1/2-20UNF-2B	16,17.27,23		SAE-5-Φ17.27,23C	SAE-5-Φ16SC
SAE-6	9/16-18UNF-2B	19,25		SAE-6-Φ19,25C	
SAE-8	3/4-16UNF-2B	24,30,34	SAE-8-Φ24,30,34		
SAE-10	7/8-14UNF-2B	27,28,34,35	SAE-10-Φ27,28,34,35		
SAE-12	1 1/16-12UN-2B	33,41	SAE-12-Φ33,41		
SAE-14	1 3/16-12UN-2B	37,45	SAE-14-Φ37,45		
SAE-16	1 5/16-12UN-2B	39,49	SAE-16-Φ39,49		
SAE-20	1 5/8-12UN-2B	58	SAE-20-Φ58		
SAE-24	1 7/8-12UN-2B	55,65	SAE-24-Φ55,65		
SAE-32	2 1/2-12UN-2B	88	SAE-32-Φ88		

Porting Tool -ED Series (BSPP)



BSPP G2



PM42X2

Name	Thread	Spot Face Diameter	Carbide Brazed	Carbide V-Welding	Solid Carbide
BSPP 1/16	G1/16	12,13			BSPP 1/16-Φ12,13SC
BSPP 1/8	G1/8	15,16,17,19,19,20		BSPP 1/8-Φ15,16,17,20C	
BSPP 1/4	G1/4	19,20,21,22,24,25		BSPP 1/4-Φ19,20,21,22,24,25C	
BSPP 3/8	G3/8	23,24,25,26,28	BSPP 3/8-Φ23,24,26,28		
BSPP 1/2	G1/2	28,30,31,32,34	BSPP 1/2-Φ28,30,31,34		
BSPP 3/4	G3/4	33,34,36,38,42	BSPP 3/4-Φ34,36,38,42		
BSPP 1	G1	41,42,44,46,47	BSPP 1-Φ42,46,47		
BSPP 1 1/4	G1 1/4	51,52,58	BSPP 1 1/4-Φ52,58		
BSPP 1 1/2	G1 1/2	56,57,65	BSPP 1 1/2-Φ57,65		
BSPP 2	G2	70,73,78	BSPP 2-Φ70,73,78		
PM8×1	M8×1	16,18,20		PM8×1-Φ16,18,20C	
PM10×1	M10×1	16,18,20		PM10×1-Φ16,18,20C	
PM12×1.5	M12×1.5	20,25		PM12×1.5-Φ20,25C	
PM14×1.5	M14×1.5	20,22,25		PM14×1.5-Φ20,22,25C	
PM16×1.5	M16×1.5	22,23,25,28	PM16×1.5-Φ22,23,25,28		
PM18×1.5	M18×1.5	26,28	PM18×1.5-Φ26,28		
PM20×1.5	M20×1.5	24,28,30,34	PM20×1.5-Φ24,28,30,34		
PM22×1.5	M22×1.5	28,29,30,34	PM22×1.5-Φ28,29,30,34		
PM24×1.5	M24×1.5	30,34	PM24×1.5-Φ30,34		
PM26×2	M26×2	42	PM26×2-Φ42		
PM27×2	M27×2	33,36,42	PM27×2-Φ33,36,42		
PM33×2	M33×2	42,47	PM33×2-Φ42,47		
PM40×1.5	M40×1.5	52	PM40×1.5-Φ52		
PM42×2	M42×2	52,58	PM42×2-Φ52,58		
PM48×2	M48×2	65	PM48×2-Φ65		

Porting Tool -O Boss Series



CG1-1/2



CG1/4



CM18X1.5



CM10X1

Name	Thread	Spot Face Diameter	Carbide Brazed	Carbide V-Welding	Solid Carbide
CG1/16	G1/16	12,13			CG1/16-Φ12,13SC
CG1/8	G1/8	16,18,20		CG1/8-Φ16,18,20C	
CG1/4	G1/4	22,24,25		CG1/4-Φ22,24,25C	
CG3/8	G3/8	21,28	CG3/8-Φ21,28		
CG1/2	G1/2	30,34	CG1/2-Φ30,34		
CG3/4	G3/4	38,42,45	CG3/4-Φ38,42,45		
CG1	G1	42,47,51	CG1-Φ42,47,51		
CG1 1/4	G1 1/4	52,58,62	CG1 1/4-Φ52,58,62		
CG1 1/2	G1 1/2	57,65	CG1 1/2-Φ57,65		
CG2	G2	74	CG2-Φ74		
CM8×1	M8×1	17,18		CM8×1-Φ17,18C	
CM10×1	M10×1	14,15,17,20,22		CM10×1-Φ15,17,20,22C	CM10×1-Φ14SC
CM12×1.5	M12×1.5	18,21,23,24		CM12×1.5-Φ18,21,23,24C	
CM14×1.5	M14×1.5	20,22,25		CM14×1.5-Φ20,22,25C	
CM16×1.5	M16×1.5	23,25,26,28	CM16×1.5-Φ23,25,26,28		
CM18×1.5	M18×1.5	26,28,32	CM18×1.5-Φ26,28,32		
CM20×1.5	M20×1.5	29,34	CM20×1.5-Φ29,34		
CM22×1.5	M22×1.5	28,34	CM22×1.5-Φ28,34		
CM26×2	M26×2	42	CM26×2-Φ42		
CM27×2	M27×2	33,38,40	CM27×2-Φ33,36,42		
CM33×2	M33×2	44,46,47	CM33×2-Φ44,46,47		
CM42×2	M42×2	53,58	CM42×2-Φ52,58		
CM48×2	M48×2	59,65	CM48×2-Φ59,65		

Porting Tool Counterbore-ED Series



G1/4



G3/8(S)



M48X2



M14X1.5

Name	Thread	Spot Face Diameter	With Pilot	Without Pilot	Raw Material
G1/16	G1/16	14	G1/16-Φ14SCG(S)	G1/16-Φ14SC(S)	Solid Carbide
G1/8	G1/8	15,16,17,20	G1/8-Φ15,16,17,20CG	G1/8-Φ15,16,17,20C	Solid Carbide V-welding
G1/4	G1/4	20,21,22,25	G1/4-Φ20,21,22,25CG	G1/4-Φ20,21,22,25C	Solid Carbide V-welding
G1/4	G1/4	25	G1/4-Φ25G	G1/4-Φ25	Carbide tipped
G3/8	G3/8	23,24,25,26,28	G3/8-Φ23,24,25,26,28G	G3/8-Φ23,24,25,26,28	Carbide tipped
G1/2	G1/2	28,29,30,31,32,34	G1/2-Φ28,29,30,31,32,34G	G1/2-Φ28,29,30,31,32,34	Carbide tipped
G3/4	G3/4	34,36,37,38,42	G3/4-Φ34,36,37,38,42G	G3/4-Φ34,36,37,38,42	Carbide tipped
G1	G1	41,42,45,47,51	G1-Φ41,42,45,47,51G	G1-Φ41,42,45,47,51	Carbide tipped
G1 1/4	G1 1/4	51,54,58	G1 1/4-Φ51,54,58G	G1 1/4-Φ51,54,58	Carbide tipped
G1 1/2	G1 1/2	56,61,65	G1 1/2-Φ56,61,65G	G1 1/2-Φ56,61,65	Carbide tipped
M8×1	M8×1	13,14	M8×1-Φ13,14SCG(S)	M8×1-Φ13,14SC(S)	Solid Carbide
M8×1	M8×1	16,18	M8×1-Φ16,18CG	M8×1-Φ16,18C	Solid Carbide V-welding
M10×1	M10×1	15,16,17,18,20	M10×1-Φ15,16,17,18,20CG	M10×1-Φ15,16,17,18,20C	Solid Carbide V-welding
M12×1.5	M12×1.5	22	M12×1.5-Φ22CG	M12×1.5-Φ22C	Solid Carbide V-welding
M12×1.5	M12×1.5	25	M12×1.5-Φ25G	M12×1.5-Φ25	Carbide tipped
M14×1.5	M14×1.5	20,22,25	M14×1.5-Φ20,21,22,25CG	M14×1.5-Φ20,21,22,25C	Solid Carbide V-welding
M14×1.5	M14×1.5	25	M14×1.5-Φ25G	M14×1.5-Φ25	Carbide tipped
M16×1.5	M16×1.5	25,28	M16×1.5-Φ25,28G	M16×1.5-Φ25,28	Carbide tipped
M18×1.5	M18×1.5	26,28	M18×1.5-Φ26,28G	M18×1.5-Φ26,28	Carbide tipped
M20×1.5	M20×1.5	28,30,34	M20×1.5-Φ28,30,34G	M20×1.5-Φ28,30,34	Carbide tipped
M22×1.5	M22×1.5	28,30,31,32,34	M22×1.5-Φ28,30,31,32,34G	M22×1.5-Φ28,30,31,32,34	Carbide tipped
M26×2	M26×2	38,42	M26×2-Φ38,42G	M26×2-Φ38,42	Carbide tipped
M27×2	M27×2	37,38,39,42	M27×2-Φ37,38,39,42G	M27×2-Φ37,38,39,42	Carbide tipped
M33×2	M33×2	44,45,47	M33×2-Φ44,45,47G	M33×2-Φ44,45,47	Carbide tipped
M36×2	M36×2	50	M36×2-Φ50G	M36×2-Φ50	Carbide tipped
M42×2	M42×2	54,56,58	M42×2-Φ54,56,58G	M42×2-Φ54,56,58	Carbide tipped
M48×2	M48×2	59,65	M48×2-Φ61,65G	M48×2-Φ61,65	Carbide tipped
M52×2	M52×2	70	M52×2-Φ70G	M52×2-Φ70	Carbide tipped

BUCHER



AC-DC



AC-R



ER-R



DD-R



BE-R



BVE1-R



RHCE13-R



7789-33



7789-22



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