



ER collet

ER precision collet

●DIN6499 Form B.



Range(mm)	ER08	ER11
0.5~1.0	ER08-M010 *	ER11-M010
1.0~1.5	ER08-M015 *	ER11-M015
1.5~2.0	ER08-M020 *	ER11-M020
2.0~2.5	ER08-M025 *	ER11-M025
2.5~3.0	ER08-M030 *	ER11-M030
3.0~3.5	ER08-M035 *	ER11-M035
3.5~4.0	ER08-M040	ER11-M040
4.0~4.5	ER08-M045	ER11-M045
4.5~5.0	ER08-M050	ER11-M050
5.0~5.5		ER11-M055
5.5~6.0		ER11-M060
6.0~6.5		ER11-M065
6.5~7.0		ER11-M070

Accuracy:10 μ m at 4×D from nose.

Range(mm)	ER16	ER20	ER25	ER32	ER40
0.5~1.0	ER16-M010	ER20-M010 *	ER25-M010 *		
1.0~2.0	ER16-M020	ER20-M020	ER25-M020	ER32-M020 *	
2.0~3.0	ER16-M030	ER20-M030	ER25-M030	ER32-M030	ER40-M030
3.0~4.0	ER16-M040	ER20-M040	ER25-M040	ER32-M040	ER40-M040
4.0~5.0	ER16-M050	ER20-M050	ER25-M050	ER32-M050	ER40-M050
5.0~6.0	ER16-M060	ER20-M060	ER25-M060	ER32-M060	ER40-M060
6.0~7.0	ER16-M070	ER20-M070	ER25-M070	ER32-M070	ER40-M070
7.0~8.0	ER16-M080	ER20-M080	ER25-M080	ER32-M080	ER40-M080
8.0~9.0	ER16-M090	ER20-M090	ER25-M090	ER32-M090	ER40-M090
9.0~10.0	ER16-M100	ER20-M100	ER25-M100	ER32-M100	ER40-M100
10.0~11.0		ER20-M110	ER25-M110	ER32-M110	ER40-M110
11.0~12.0		ER20-M120	ER25-M120	ER32-M120	ER40-M120
12.0~13.0		ER20-M130	ER25-M130	ER32-M130	ER40-M130
13.0~14.0			ER25-M140	ER32-M140	ER40-M140
14.0~15.0			ER25-M150	ER32-M150	ER40-M150
15.0~16.0			ER25-M160	ER32-M160	ER40-M160
16.0~17.0				ER32-M170	ER40-M170
17.0~18.0				ER32-M180	ER40-M180
18.0~19.0				ER32-M190	ER40-M190
19.0~20.0				ER32-M200	ER40-M200
20.0~21.0					ER40-M210
21.0~22.0					ER40-M220
22.0~23.0					ER40-M230
23.0~24.0					ER40-M240
24.0~25.0					ER40-M250
25.0~26.0					ER40-M260
26.0~27.0					ER40-M270 *
27.0~28.0					ER40-M280 *
28.0~29.0					ER40-M290 *
29.0~30.0					ER40-M300 *

*Not regular stock items. Please ask for availability.



SSER Coolant collet



- High pressure coolant: 10.3MPa
- Accuracy: 10 μ m at 4xD from nose
- On size collets (will not collapse)
- Designed for h6 tool shanks

ID(mm)	SSER16	SSER20	SSER25	SSER32	SSER40
3.0	SSER16-M030	SSER20-M030	SSER25-M030	SSER32-M030	
4.0	SSER16-M040	SSER20-M040	SSER25-M040	SSER32-M040	
5.0	SSER16-M050	SSER20-M050	SSER25-M050	SSER32-M050	
6.0	SSER16-M060	SSER20-M060	SSER25-M060	SSER32-M060	SSER40-M060
7.0	SSER16-M070	SSER20-M070	SSER25-M070	SSER32-M070	SSER40-M070
8.0	SSER16-M080	SSER20-M080	SSER25-M080	SSER32-M080	SSER40-M080
9.0	SSER16-M090	SSER20-M090	SSER25-M090	SSER32-M090	SSER40-M090
10.0	SSER16-M100	SSER20-M100	SSER25-M100	SSER32-M100	SSER40-M100
11.0		SSER20-M110	SSER25-M110	SSER32-M110	SSER40-M110
12.0		SSER20-M120	SSER25-M120	SSER32-M120	SSER40-M120
13.0		SSER20-M130	SSER25-M130	SSER32-M130	SSER40-M130
14.0			SSER25-M140	SSER32-M140	SSER40-M140
15.0			SSER25-M150	SSER32-M150	SSER40-M150
16.0			SSER25-M160	SSER32-M160	SSER40-M160
17.0				SSER32-M170	SSER40-M170
18.0				SSER32-M180	SSER40-M180
19.0				SSER32-M190	SSER40-M190
20.0				SSER32-M200	SSER40-M200
21.0					SSER40-M210
22.0					SSER40-M220
23.0					SSER40-M230
24.0					SSER40-M240
25.0					SSER40-M250
26.0					SSER40-M260



TER rigid tapping collet



Tap (JIS Standard)

D			shk dia	□ dia	length	TER16	TER20	TER25	TER32	TER40
metric	unify	pipe	φd1	K	Ho					
M6	U1/4		6.0	4.5	7.0	TER16J-060	TER20J-060	TER25J-060	TER32J-060	TER40J-060
M7-M8			6.2	5.0	8.0	TER16J-062	TER20J-062	TER25J-062	TER32J-062	TER40J-062
M9-M10	U3/8		7.0	5.5	8.0	TER16J-070	TER20J-070	TER25J-070	TER32J-070	TER40J-070
M11	U7/16	P1/16-P1/8	8.0	6.0	9.0	TER16J-080	TER20J-080	TER25J-080	TER32J-080	TER40J-080
M12			8.5	6.5	9.0		TER20J-085	TER25J-085	TER32J-085	TER40J-085
M14-M15	U9/16		10.5	8.0	11.0		TER20J-105	TER25J-105	TER32J-105	TER40J-105
M16			12.5	10.0	13.0		TER20J-125	TER25J-125	TER32J-125	TER40J-125
M17			13.0	10.0	13.0			TER25J-130	TER32J-130	TER40J-130
M20			15.0	12.0	15.0			TER25J-150	TER32J-150	TER40J-150
M22	U7/8		17.0	13.0	16.0				TER32J-170	TER40J-170
M24-M25		P5/8	19.0	15.0	18.0				TER32J-190	TER40J-190
M26-M27	U1		20.0	15.0	18.0				TER32J-200	TER40J-200
M28			21.0	17.0	20.0					TER40J-210

Tap (DIN Standard)

D			shk dia	□ dia	length	TER16	TER20	TER25	TER32	TER40
metric	unify	pipe	φd1	K	Ho					
M1-M1.8(371)	U1/16(371)		2.5	2.1	5.0	TER16D-025	TER20D-025	TER25D-025		
M2-M2.5(371)-M4(376)			2.8	2.1	5.0	TER16D-028	TER20D-028	TER25D-028		
M3(371)-M4.5-M5(376)	U1/8(371)		3.5	2.7	6.0	TER16D-035	TER20D-035	TER25D-035	TER32D-035	TER40D-035
M3.5(371)			4.0	3.0	6.0	TER16D-040	TER20D-040	TER25D-040	TER32D-040	TER40D-040
M4(371)-M6(376)	U1/4(376)		4.5	3.4	6.0	TER16D-045	TER20D-045	TER25D-045	TER32D-045	TER40D-045
M7(376)			5.5	4.3	7.0	TER16D-055	TER20D-055	TER25D-055	TER32D-055	TER40D-055
M4.5-M6(371)-M8(376)	U5/16(376)		6.0	4.9	8.0	TER16D-060	TER20D-060	TER25D-060	TER32D-060	TER40D-060
M7(371)-M9-M10(376)	U1/4(371)-U3/8(376)	P1/8(374)	7.0	5.5	8.0	TER16D-070	TER20D-070	TER25D-070	TER32D-070	TER40D-070
M8(371)-M11(376)	U5/16(371)-U7/16(376)		8.0	6.2	9.0	TER16D-080	TER20D-080	TER25D-080	TER32D-080	TER40D-080
M9(371)-M12(376)	U3/8(371)-U1/2(376)		9.0	7.0	10.0	TER16D-090	TER20D-090	TER25D-090	TER32D-090	TER40D-090
M10(371)			10.0	8.0	11.0	TER16D-100	TER20D-100	TER25D-100	TER32D-100	TER40D-100
M14(376)	U9/16(376)	P1/4(374)	11.0	9.0	12.0		TER20D-110	TER25D-110	TER32D-110	TER40D-110
M16(376)	U5/8(376)	P3/8(374)	12.0	9.0	12.0		TER20D-120	TER25D-120	TER32D-120	TER40D-120
M18(376)	U3/4(376)		14.0	11.0	14.0			TER25D-140	TER32D-140	TER40D-140
M20(376)		P1/2(374)	16.0	12.0	15.0			TER25D-160	TER32D-160	TER40D-160
M22-M24(376)	U7/8(376)	P5/8(374)	18.0	14.5	17.0				TER32D-180	TER40D-180
M27(376)	U1(376)	P3/4(374)	20.0	16.0	19.0				TER32D-200	TER40D-200
M30(376)	U1.1/8-U1.1/4(376)	P7/8(374)	22.0	18.0	21.0					TER40D-220
M33(376)		P1"(374)	25.0	20.0	23.0					TER40D-250

Tap (ISO Standard)

D			shk dia	□ dia	length	TER16	TER20	TER25	TER32	TER40
metric	unify	pipe	φd1	K	Ho					
M3	No.4-No.5		3.15	2.50	5.00	TER16S-031	TER20S-031	TER25S-031	TER32S-031	TER40S-031
M4	No.12		4.00	3.15	6.00	TER16S-040	TER20S-040	TER25S-040	TER32S-040	TER40S-040
M4.5	No.8		4.50	3.55	6.00	TER16S-045	TER20S-045	TER25S-045	TER32S-045	TER40S-045
M6	U1/4		6.30	5.00	8.00	TER16S-063	TER20S-063	TER25S-063	TER32S-063	TER40S-063
M7	U3/8		7.10	5.60	8.00	TER16S-071	TER20S-071	TER25S-071	TER32S-071	TER40S-071
M8	U5/16	P1/8	8.00	6.30	9.00	TER16S-080	TER20S-080	TER25S-080	TER32S-080	TER40S-080
M12	U1/2		9.00	7.10	10.00	TER16S-090	TER20S-090	TER25S-090	TER32S-090	TER40S-090
M14	U9/16		11.20	9.00	12.00		TER20S-112	TER25S-112	TER32S-112	TER40S-112
M16	U5/8	P3/8	12.50	10.00	13.00			TER25S-125	TER32S-125	TER40S-125
M18-M20	U3/4		14.00	11.20	14.00			TER25S-140	TER32S-140	TER40S-140
M22	U7/8	P1/2	16.00	12.50	16.00			TER25S-160	TER32S-160	TER40S-160
M24	U1"	P 5/8	18.00	14.00	18.00					TER40S-180

*Special design locks tap flats into the collet slots preventing the tap from spinning inside the collet.

◇JIS,ISO & DIN standard available