

FORMING TAPS



ROLL - DIN **352**
ROLL - JIS **364**
ROLL - ANSI **390**

Selection Chart

Intro

SP

SL

PO

ST

ROLL

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

THREAD MILLS




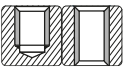
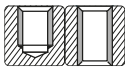


DIES

CENTER DRILLS

Technical info

	Z-PRO		GP General Purpose						MP Multi Purpose						
	MHRZ		R-D	R-D V		R+V	N+RZ/N-RZ		N+RS/N-RS		HP+RZ/HP-RZ		HP+RZ/HP-RZ ISO3X(6GX)		
	HSS-Co	COATING	HSS-E	HSS-E	COATING	HSS-E	COATING	HSS-E	OX	HSS-E	NI	HSS-P	COATING	HSS-P	COATING
		DIN	DIN	DIN	JIS	DIN	JIS	DIN	JIS	DIN	JIS	ANSI	DIN		
M		353	355	357	365	358	369	359	374	361	381		361		
MF		353					371		377	361	382				
UNC/UNF							372		378		382	391			
UNS, 8, 12, 20, 32UN															
UNEF															
G (BSP)			355	357											
Rp (BSPP)															
Rc (BSPT)															
NPT															
NPTF															
NPSC, NPSM, NPSF															
BSW															
EG(STI), M, MF, UNC/UNF															
Pg															
Tr															
S miniature															
Special threads															
		Vc (m/min)													
P1			★ 5÷15	★ 10÷20	★ 10÷20	★ 5÷15				★ 15÷30	★ 15÷30				
P2	★ 10÷30	☆ 5÷15	★ 10÷20	★ 10÷20	★ 5÷10					★ 15÷30	★ 15÷30				
P3	★ 10÷30									★ 15÷25	★ 15÷25				
P4	★ 10÷30									★ 15÷25	★ 15÷25				
P5															
P6															
P7			☆ 8÷12	☆ 5÷12						★ 10÷25	★ 10÷25				
P8															
M1			☆ 8÷12	☆ 5÷12						★ 10÷25	★ 10÷25				
M2										★ 10÷25	★ 10÷25				
M3															
K1															
K2															
K3															
K4															
N1	☆ 10÷30	☆ 10÷15	☆ 10÷20	☆ 10÷20				★ 5÷15	☆ 10÷45	☆ 10÷45					
N2	☆ 10÷30	☆ 10÷15	☆ 10÷20	☆ 10÷20				★ 5÷15	☆ 10÷45	☆ 10÷45					
N3			☆ 10÷20	☆ 10÷20				★ 5÷15							
N4															
N5															
S1 (<25 HRC)															
S2 (<35 HRC)															
S3 (35 ÷ 45 HRC)															
S5															
H (45 ÷ 55 HRC)															
H (55 ÷ 63 HRC)															

★ 1st choice ☆ suitable

MP Multi Purpose					
SURZ		SC-TL-RZ		OL+RZ/OL-RZ	
HSS-P	COATING	HSS-P	COATING	HSS-P	COATING
					
					
					
JIS	JIS	DIN	JIS		
385	387	363	388	M	
385	387			MF	
385	387			UNC/UNF	
				UNS, 8, 12, 20, 32UN	
				UNEF	
				G (BSP)	
				Rp (BSPP)	
				Rc (BSPT)	
				NPT	
				NPTF	
				NPSC, NPSM, NPSF	
				BSW	
				EG(STI), M, MF, UNC/UNF	
				Pg	
				Tr	
				S miniature	
				Special threads	
Vc (m/min)					
★ 15÷30	★ 15÷30	★ 15÷30		P1	
★ 15÷30	★ 15÷30	★ 15÷30		P2	
★ 15÷25	★ 15÷25	★ 15÷25		P3	
★ 15÷25	★ 15÷25	★ 15÷25		P4	
				P5	
				P6	
★ 10÷25	★ 10÷25	★ 10÷25		P7	
				P8	
★ 10÷25	★ 10÷25	★ 10÷25		M1	
★ 10÷25	★ 10÷25	★ 10÷25		M2	
				M3	
				K1	
				K2	
				K3	
				K4	
	☆ 10÷45	☆ 10÷45		N1	
	☆ 10÷45	☆ 10÷45		N2	
				N3	
				N4	
				N5	
				S1 (<25 HRC)	
				S2 (<35 HRC)	
				S3 (35 ÷ 45 HRC)	
				S5	
				H (45 ÷ 55 HRC)	
				H (55 ÷ 63 HRC)	

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ROLL

CARBIDE

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EG (STI)

SPECIAL
THREADS,
GAUGESTHREAD
MILLS

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DRILLSTechnical
info

Intro

MHRZ



SP

Z-PRO Series

Roll Taps for Carbon Steel of Medium Hardness, Coated

SL



PO

Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)	ISO	Vc (m/min)
P2	10÷30 ★	N1	10÷30 ☆
P3	10÷30 ★	N2	10÷30 ☆
P4	10÷30 ★		

★ 1st choice ☆ suitable

FEATURES

Z-PRO Series forming tap with special design for low tapping torque.

HSSCo and suitable coating for long life on Medium Hard steel (<35HRC) application.

2P chamfer for blind hole application, 4P chamfer for through hole application.



WATCH THE VIDEO

ROLL

DIN

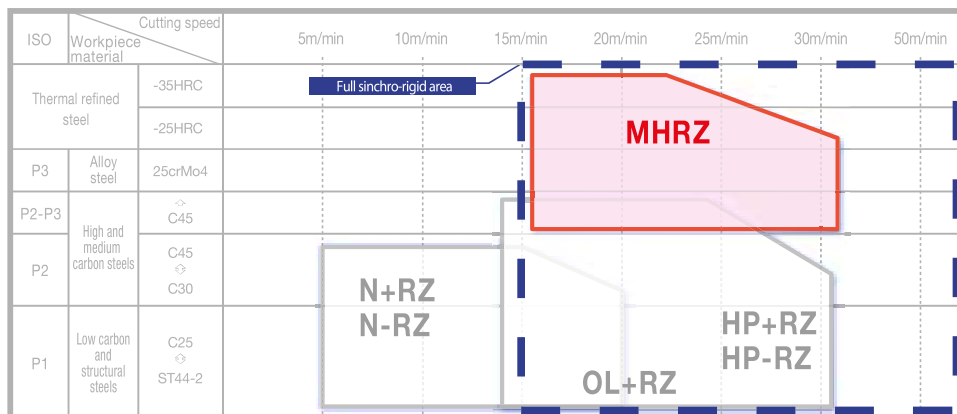
CARBIDE

LONG

HAND TAPS

EG (STI)

Product Features



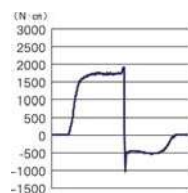
SPECIAL THREADS, GAUGES

THREAD MILLS

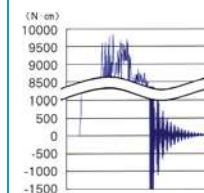
M12x1.25

Workpiece material	42CrMo4 - 1.7225(35HRC)
Cutting speed	20 m/min
Bored hole	ø11.3 mm
Thread length	18 mm (through hole)
Machine	Machining center (synchro)
Lubricant	Water soluble oil
No. of threads	800 threads (still running)

MHRZ



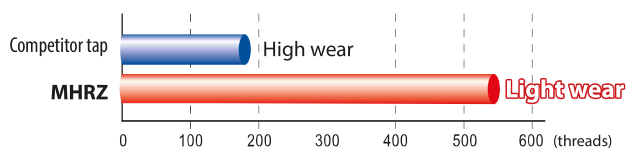
Competitor



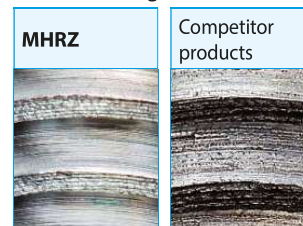
DIES

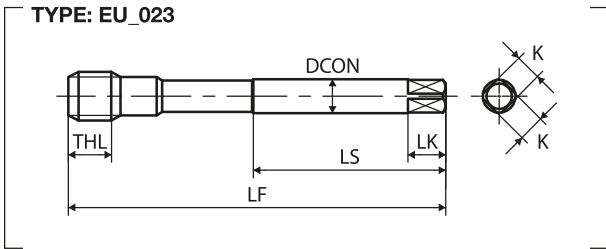
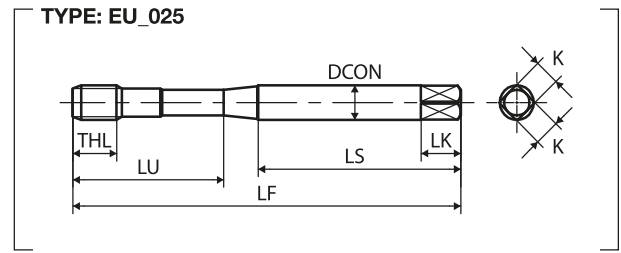
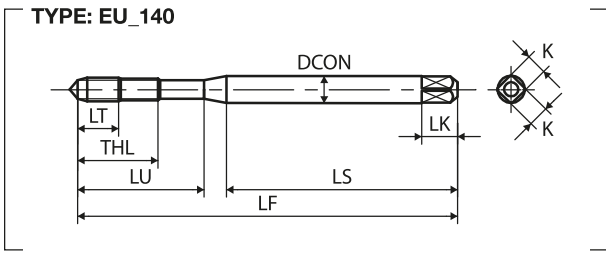
CENTER DRILLS

Technical info



MHRZ finishing





M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
DIN 371															
M6X1	ISO2X(6HX)	5.61	5.5	RD6.0MBOCTP	4P	80	11	30	45	6	4.9	8	5(5)	140	●
	ISO2X(6HX)	5.61	5.5	RD6.0MBOCTB	2P	80	11	30	45	6	4.9	8	5(5)	025	●
M8X1.25	ISO2X(6HX)	7.52	7.38	RD8.0NBOCTP	4P	90	12	35	47	8	6.2	9	6(6)	025	●
	ISO2X(6HX)	7.52	7.38	RD8.0NBOCTB	2P	90	12	35	47	8	6.2	9	6(6)	025	●
M10X1.5	ISO2X(6HX)	9.41	9.26	RD0100BOCTP	4P	100	13	39	52	10	8	11	8(8)	025	●
	ISO2X(6HX)	9.41	9.26	RD0100BOCTB	2P	100	13	39	52	10	8	11	8(8)	025	●
DIN 376															
M12X1.75	ISO2X(6HX)	11.3	11.13	RG012PBOCTP	4P	110	15	-	56	9	7	10	8(8)	023	●
	ISO2X(6HX)	11.3	11.13	RG012PBOCTB	2P	110	15	-	56	9	7	10	8(8)	023	●
DIN 374															
M10X1.25	ISO2X(6HX)	9.51	9.38	RM010NBOCTP	4P	100	13	-	51	7	5.5	8	8(8)	023	●
	ISO2X(6HX)	9.51	9.38	RM010NBOCTB	2P	100	13	-	51	7	5.5	8	8(8)	023	●
M12X1.5	ISO2X(6HX)	11.39	11.24	RM0120BOCTP	4P	100	15	-	51	9	7	10	8(8)	023	●
	ISO2X(6HX)	11.39	11.24	RM0120BOCTB	2P	100	15	-	51	9	7	10	8(8)	023	●
M12X1.25	ISO2X(6HX)	11.51	11.38	RM012NBOCTP	4P	100	15	-	51	9	7	10	8(8)	023	●
	ISO2X(6HX)	11.51	11.38	RM012NBOCTB	2P	100	15	-	51	9	7	10	8(8)	023	●
M14X1.5	ISO2X(6HX)	13.39	13.24	RM0140BOCTP	4P	100	14	-	51	11	9	12	8(8)	023	●
	ISO2X(6HX)	13.39	13.24	RM0140BOCTB	2P	100	14	-	51	11	9	12	8(8)	023	●
M16X1.5	ISO2X(6HX)	15.38	15.23	RM0160BOCTP	4P	100	18	-	51	12	9	12	8(8)	023	○
	ISO2X(6HX)	15.38	15.23	RM0160BOCTB	2P	100	18	-	51	12	9	12	8(8)	023	●
M18X1.5	ISO2X(6HX)	17.38	17.23	RM0180BOCTP	4P	110	20	-	56	14	11	14	8(8)	023	○
	ISO2X(6HX)	17.38	17.23	RM0180BOCTB	2P	110	20	-	56	14	11	14	8(8)	023	●
M20X1.5	ISO2X(6HX)	19.37	19.22	RM0200BOCTP	4P	125	20	-	64	16	12	15	8(8)	023	○
	ISO2X(6HX)	19.37	19.22	RM0200BOCTB	2P	125	20	-	64	16	12	15	8(8)	023	●

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SPECIAL THREADS, GAUGES
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Technical info

Intro

R-D

GP General Purpose Series

Thread Forming Taps for Low Hardness Materials

SP

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PO

Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)	ISO	Vc (m/min)
P1	5÷15 ★	N1	10÷15 ☆
P2	5÷15 ☆	N2	10÷15 ☆

ST

★ 1st choice ☆ suitable



FEATURES

General purpose forming taps for blind and through hole application.

For steel and non-ferrous materials.

ROLL

DIN

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

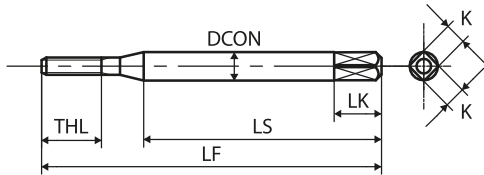
THREAD MILLS

DIES

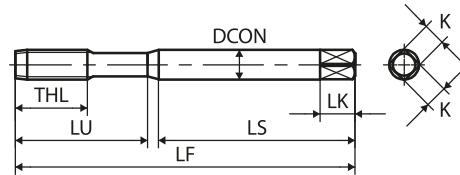
CENTER DRILLS

Technical info

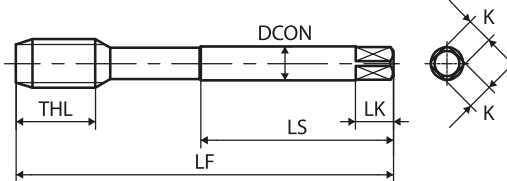
TYPE: SP_025



TYPE: EU_136



TYPE: EU_116



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
DIN 371															
M2X0.4	ISO2X(6HX)	1.86	1.8	RD2.0EBNEBB	2P	45	8	-	32	2.8	2.1	5	0(4)	025	●
M2.5X0.45	ISO2X(6HX)	2.34	2.27	RD2.5FBNEBB	2P	50	8	15	33	2.8	2.1	5	0(4)	136	●
M3X0.5	ISO2X(6HX)	2.83	2.76	RD3.0GBNEBB	2P	56	9	18	34	3.5	2.7	6	4(4)	136	●
M3.5X0.6	ISO2X(6HX)	3.29	3.21	RD3.5HBNEBB	2P	56	11	20	32	4	3	6	4(4)	136	○
M4X0.7	ISO2X(6HX)	3.75	3.66	RD4.0IBNEBB	2P	63	13	21	38	4.5	3.4	6	4(4)	136	●
M5X0.8	ISO2X(6HX)	4.7	4.6	RD5.0KBNEBB	2P	70	14	25	39	6	4.9	8	4(4)	136	●
M6X1	ISO2X(6HX)	5.61	5.5	RD6.0MBNEBB	2P	80	15	30	45	6	4.9	8	4(4)	136	●
M8X1.25	ISO2X(6HX)	7.52	7.38	RD8.0NBNEBB	2P	90	19	35	47	8	6.2	9	3(6)	136	●
M10X1.5	ISO2X(6HX)	9.41	9.26	RD0100BNEBB	2P	100	23	39	52	10	8	11	4(8)	136	●
M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
DIN 376															
M12X1.75	ISO2X(6HX)	11.3	11.13	RG012PBNEBB	2P	110	26	-	56	9	7	10	4(8)	116	●
M14X2	ISO2X(6HX)	13.19	13	RG014QBNEBB	2P	110	26	-	56	11	9	12	4(8)	116	○
M16X2	ISO2X(6HX)	15.19	15	RG016QBNEBB	2P	110	26	-	56	12	9	12	4(8)	116	○
G(BSP)	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	Basic major Ø (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
DIN 5156															
1/8-28	-	9.36	9.22	RVG0026NEBB	2P	9.728	90	19	46	7	5.5	8	4(8)	116	●
1/4-19	-	12.64	12.42	RVG0047NEBB	2P	13.157	100	21	51	11	9	12	4(8)	116	●
3/8-19	-	16.14	15.92	RVG0067NEBB	2P	16.662	100	21	51	12	9	12	4(8)	116	●

Intro

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EG (STI)

SPECIAL
THREADS,
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Intro

R-D V

GP General Purpose Series

Thread Forming Taps for Low Hardness Materials, Coated



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Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)		ISO	Vc (m/min)		ISO	Vc (m/min)	
P1	10÷20	★	M1	8÷12	☆	N1	10÷20	☆
P2	10÷20	★				N2	10÷20	☆
P7	8÷12	☆				N3	10÷20	☆

★ 1st choice ☆ suitable

FEATURES

General purpose forming taps for blind and through hole application.

For steel and non-ferrous materials.

Suitable coating allows higher speed and longer life.

ROLL

DIN

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

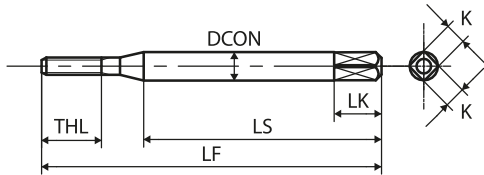
THREAD MILLS

DIES

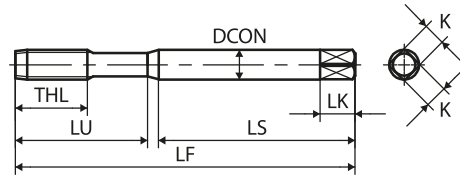
CENTER DRILLS

Technical info

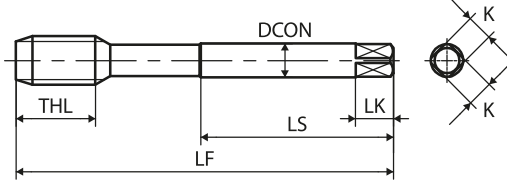
TYPE: SP_025



TYPE: EU_136



TYPE: EU_116



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
DIN 371															
M2X0.4	ISO2X(6HX)	1.86	1.8	93532.0BTI	2P	45	8	-	32	2.8	2.1	5	0(4)	025	●
M2.5X0.45	ISO2X(6HX)	2.34	2.27	93532.5BTI	2P	50	8	15	33	2.8	2.1	5	0(4)	136	●
M3X0.5	ISO2X(6HX)	2.83	2.76	93533.0BTI	2P	56	9	18	34	3.5	2.7	6	4(4)	136	●
M3.5X0.6	ISO2X(6HX)	3.29	3.21	93533.5BTI	2P	56	11	20	32	4	3	6	4(4)	136	●
M4X0.7	ISO2X(6HX)	3.75	3.66	93534.0BTI	2P	63	13	21	38	4.5	3.4	6	4(4)	136	●
M5X0.8	ISO2X(6HX)	4.7	4.6	93535.0BTI	2P	70	14	25	39	6	4.9	8	4(4)	136	●
M6X1	ISO2X(6HX)	5.61	5.5	93536.0BTI	2P	80	15	30	45	6	4.9	8	4(4)	136	●
M8X1.25	ISO2X(6HX)	7.52	7.38	93538.0BTI	2P	90	19	35	47	8	6.2	9	3(6)	136	●
M10X1.5	ISO2X(6HX)	9.41	9.26	9353010BTI	2P	100	23	39	52	10	8	11	4(8)	136	●
DIN 376															
M12X1.75	ISO2X(6HX)	11.3	11.13	9353012BTI	2P	110	26	-	56	9	7	10	4(8)	116	●
M14X2	ISO2X(6HX)	13.19	13	9353014BTI	2P	110	26	-	56	11	9	12	4(8)	116	●
M16X2	ISO2X(6HX)	15.19	15	9353016BTI	2P	110	26	-	56	12	9	12	4(8)	116	●
DIN 5156															
G(BSP)	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	Basic major Ø (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
1/8-28	-	9.36	9.22	9953R02TI	2P	9.728	90	19	46	7	5.5	8	4(8)	116	●
1/4-19	-	12.64	12.42	9953R04TI	2P	13.157	100	21	51	11	9	12	4(8)	116	●
3/8-19	-	16.14	15.92	9953R06TI	2P	16.662	100	21	51	12	9	12	4(8)	116	●

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SPECIAL
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Intro

N+RZ/N-RZ

GP General Purpose Series

Thread Forming Taps for Steel



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PO

Recommended Tapping Speeds Depending On Materials

ISO Vc (m/min)

P1 5÷15 ★

P2 5÷10 ★

ST

★ 1st choice ☆ suitable

ROLL

DIN

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LONG

HAND
TAPS

EG (STI)

SPECIAL
THREADS,
GAUGESTHREAD
MILLS

DIES

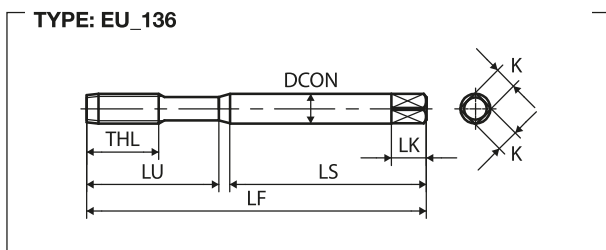
CENTER
DRILLSTechnical
info

FEATURES

General purpose forming taps for blind and through hole application.

Suitable for soft structural steel and medium-low carbon steel application.

OX treatment reduces welding troubles.



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
DIN 371															
M2.5X0.45	ISO2X(6HX)	2.34	2.27	RE2.5FBHEXB	2P	50	8	15	33	2.8	2.1	5	0(4)	136	○
M3X0.5	ISO2X(6HX)	2.83	2.76	RE3.0GBHEXB	2P	56	9	18	34	3.5	2.7	6	4(4)	136	●
M4X0.7	ISO2X(6HX)	3.75	3.66	RE4.0IBHEXB	2P	63	13	21	38	4.5	3.4	6	4(4)	136	●
M5X0.8	ISO2X(6HX)	4.7	4.6	RE5.0KBHEXB	2P	70	14	25	39	6	4.9	8	4(4)	136	●
M6X1	ISO2X(6HX)	5.61	5.5	RE6.0MBHEXB	2P	80	15	30	45	6	4.9	8	4(4)	136	●
M8X1.25	ISO2X(6HX)	7.52	7.38	RD8.0NBHEXB	2P	90	19	35	47	8	6.2	9	3(6)	136	●
M10X1.5	ISO2X(6HX)	9.41	9.26	RD0100BHEXB	2P	100	23	39	52	10	8	11	4(8)	136	●

N+RS/N-RS

GP General Purpose Series

Thread Forming Taps for Non-Ferrous Materials



Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)
N1	5÷15 ★
N2	5÷15 ★
N3	5÷15 ★

★ 1st choice ☆ suitable

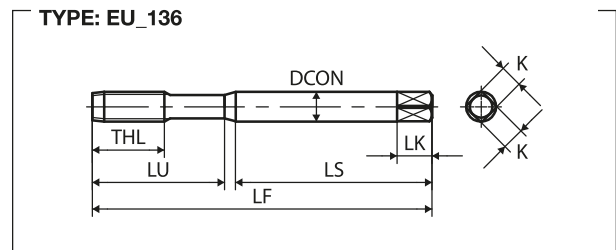
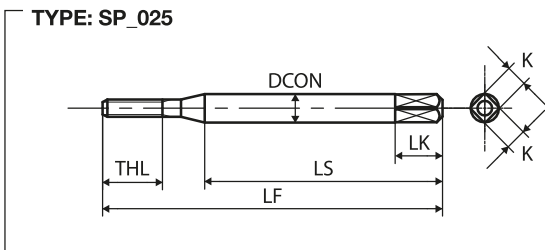


FEATURES

General purpose forming taps for blind and through hole application.

Suitable for non-ferrous materials.

NI treatment improves tool life.



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
DIN 371															
M2X0.4	IS02X(6HX)	1.86	1.8	RE2.0EBKENB	2P	45	8	-	32	2.8	2.1	5	0(4)	025	●
M2.5X0.45	IS02X(6HX)	2.34	2.27	RE2.5FBKENB	2P	50	8	15	33	2.8	2.1	5	0(4)	136	●
M3X0.5	IS02X(6HX)	2.83	2.76	RE3.0GBKENB	2P	56	9	18	34	3.5	2.7	6	1(4)	136	●
M4X0.7	IS02X(6HX)	3.75	3.66	RE4.0IBKENB	2P	63	13	21	38	4.5	3.4	6	1(4)	136	●
M5X0.8	IS02X(6HX)	4.7	4.6	RE5.0KBKENB	2P	70	14	25	39	6	4.9	8	1(4)	136	●
M6X1	IS02X(6HX)	5.61	5.5	RE6.0MBKENB	2P	80	15	30	45	6	4.9	8	1(4)	136	●
M8X1.25	IS02X(6HX)	7.52	7.38	RD8.0NBKENB	2P	90	19	35	47	8	6.2	9	1(6)	136	●
M10X1.5	IS02X(6HX)	9.41	9.26	RD0100BKENB	2P	100	23	39	52	10	8	11	1(6)	136	●

Intro

SP

SL

PO

ST

ROLL

DIN

CARBIDE

LONG

HAND
TAPS

EG (STI)

SPECIAL
THREADS,
GAUGES

THREAD
MILLS

DIES

CENTER
DRILLS

Technical
info

Intro **HP+RZ/HP-RZ**

MP Multi Purpose Series

High Performance Thread Forming Taps, Coated



FEATURES

Multi purpose forming taps for blind and through hole application on a wide range of materials.

Specific design, HSSP substrate and suitable coating for stable and long life even at medium-high speed.

Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)	★	ISO	Vc (m/min)	★	ISO	Vc (m/min)	☆
P1	15÷30	★	M1	10÷25	★	N1	10÷45	☆
P2	15÷30	★	M2	10÷25	★	N2	10÷45	☆
P3	15÷25	★						
P4	15÷25	★						
P7	10÷25	★						

★ 1st choice ☆ suitable

ROLL

DIN

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

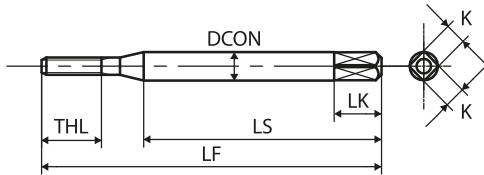
THREAD MILLS

DIES

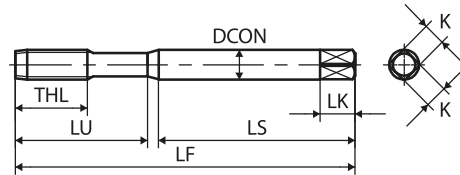
CENTER DRILLS

Technical info

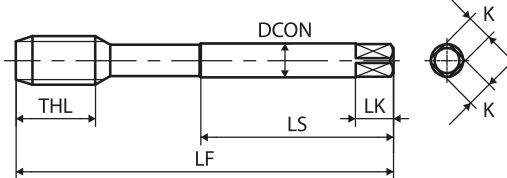
TYPE: SP_025



TYPE: EU_136



TYPE: EU_116



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock	
		Max	Min													
DIN 371																
M2X0.4	ISO2X(6HX)	1.86	1.8	RE2.0EBFPTB	2P	45	8	-	32	2.8	2.1	5	0(4)	025	●	
	ISO3X(6GX)	1.87	1.82	RE2.0ENFPTB	2P	45	8	-	32	2.8	2.1	5	0(4)	025	●	SP
M2.5X0.45	ISO2X(6HX)	2.34	2.27	RE2.5FBFPTB	2P	50	8	15	33	2.8	2.1	5	0(4)	136	●	
	ISO3X(6GX)	2.37	2.31	RE2.5FNFPPTB	2P	50	8	15	33	2.8	2.1	5	0(4)	136	●	SL
M3X0.5	ISO2X(6HX)	2.83	2.76	RE3.0GBFPTB	2P	56	9	18	34	3.5	2.7	6	2(4)	136	●	
	ISO3X(6GX)	2.85	2.78	RE3.0GNFPPTB	2P	56	9	18	34	3.5	2.7	6	2(4)	136	●	PO
M4X0.7	ISO2X(6HX)	3.75	3.66	RE4.0IBFPTB	2P	63	13	21	38	4.5	3.4	6	2(4)	136	●	
	ISO3X(6GX)	3.77	3.68	RE4.0INFPPTB	2P	63	13	21	38	4.5	3.4	6	2(4)	136	●	ST
M5X0.8	ISO2X(6HX)	4.7	4.6	RE5.0KBFPTB	2P	70	14	25	39	6	4.9	8	2(4)	136	●	
	ISO3X(6GX)	4.72	4.62	RE5.0KNFPPTB	2P	70	14	25	39	6	4.9	8	2(4)	136	●	ROLL
M6X1	ISO2X(6HX)	5.61	5.5	RE6.0MBFPTB	2P	80	15	30	45	6	4.9	8	2(4)	136	●	
	ISO3X(6GX)	5.65	5.54	RE6.0MNFPTB	2P	80	15	30	45	6	4.9	8	2(4)	136	●	DIN
M8X1.25	ISO2X(6HX)	7.52	7.38	RD8.0NBFPTB	2P	90	19	35	47	8	6.2	9	3(6)	136	●	
	ISO3X(6GX)	7.53	7.4	RD8.0NNFPPTB	2P	90	19	35	47	8	6.2	9	3(6)	136	●	CARBIDE
M10X1.5	ISO2X(6HX)	9.41	9.26	RD0100BFPTB	2P	100	23	39	52	10	8	11	4(8)	136	●	
	ISO3X(6GX)	9.44	9.29	RD0100NFPTB	2P	100	23	39	52	10	8	11	4(8)	136	●	LONG
DIN 376																
M12X1.75	ISO2X(6HX)	11.3	11.13	RG012PBFPTB	2P	110	26	-	56	9	7	10	4(8)	116	●	
	ISO3X(6GX)	11.33	11.16	RG012PNFPPTB	2P	110	26	-	56	9	7	10	4(8)	116	●	HAND TAPS
M14X2	ISO2X(6HX)	13.19	13	RG014QBFPTB	2P	110	26	-	56	11	9	12	4(8)	116	●	
M16X2	ISO2X(6HX)	15.19	15	RG016QBFPTB	2P	110	26	-	56	12	9	12	4(8)	116	●	EG (STI)
DIN 374																
M10X1.25	ISO2X(6HX)	9.51	9.38	RM010NBFPTB	2P	100	23	-	51	7	5.5	8	4(8)	116	●	
M12X1.5	ISO2X(6HX)	11.39	11.24	RM0120BFPTB	2P	100	21	-	51	9	7	10	4(8)	116	●	SPECIAL THREADS, GAUGES
M12X1.25	ISO2X(6HX)	11.51	11.38	RM012NBFPTB	2P	100	21	-	51	9	7	10	4(8)	116	●	THREAD MILLS
M14X1.5	ISO2X(6HX)	13.39	13.24	RM0140BFPTB	2P	100	21	-	51	11	9	12	4(8)	116	●	DIES
M16X1.5	ISO2X(6HX)	15.38	15.23	RM0160BFPTB	2P	100	21	-	51	12	9	12	4(8)	116	●	CENTER DRILLS

Intro **OL+RZ/OL-RZ**

MP Multi Purpose Series

Thread Forming Taps for Dry Tapping, Coated



Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)	★	ISO	Vc (m/min)	★	ISO	Vc (m/min)	☆
P1	15÷30	★	M1	10÷25	★	N1	10÷45	☆
P2	15÷30	★	M2	10÷25	★	N2	10÷45	☆
P3	15÷25	★						
P4	15÷25	★						
P7	10÷25	★						

★ 1st choice ☆ suitable

FEATURES

Dry Series forming taps for blind and through hole application.

Specific design, HSSP substrate and suitable coating for stable and long life even in difficult condition such as dry or MQL tapping.

For steel, stainless steel and non-ferrous materials.

ROLL
DIN

CARBIDE

LONG

HAND
TAPS

EG (STI)

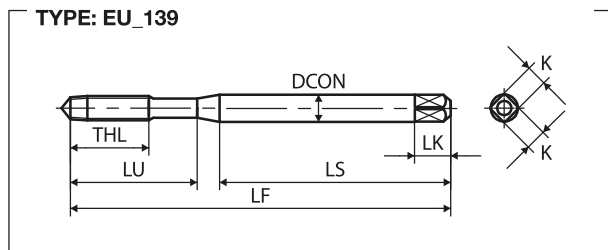
SPECIAL
THREADS,
GAUGES

THREAD
MILLS

DIES

CENTER
DRILLS

Technical
info



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
DIN 371															
M3X0.5	IS02X(6HX)	2.83	2.76	RE3.0GBHPTP	4P	56	9	18	34	3.5	2.7	6	0(4)	139	○
M4X0.7	IS02X(6HX)	3.75	3.66	RE4.0IBHPTP	4P	63	13	21	38	4.5	3.4	6	0(4)	139	○
M5X0.8	IS02X(6HX)	4.7	4.6	RE5.0KBHPTP	4P	70	14	25	39	6	4.9	8	0(4)	139	○
M6X1	IS02X(6HX)	5.61	5.5	RE6.0MBHPTP	4P	80	15	30	45	6	4.9	8	0(4)	139	○

Intro

SP

SL

PO

ST

ROLL

DIN

CARBIDE

LONG

HAND
TAPS

EG (STI)

SPECIAL
THREADS,
GAUGES

THREAD
MILLS

DIES

CENTER
DRILLS

Technical
info

Intro

R+V

GP General Purpose Series

Thread Forming Taps, Coated



SP

SL



PO

ST

Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)		ISO	Vc (m/min)		ISO	Vc (m/min)	
P1	10÷20	★	M1	5÷12	☆	N1	10÷20	☆
P2	10÷20	★				N2	10÷20	☆
P7	5÷12	☆				N3	10÷20	☆

★ 1st choice ☆ suitable

FEATURES

General purpose forming taps for blind and through hole application.

For ferrous and non-ferrous materials.

Suitable coating prevents welding and extends life.

ROLL

JIS

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

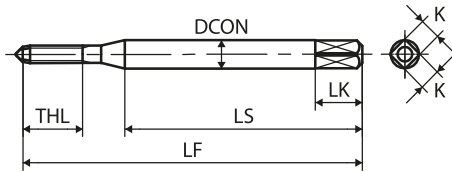
THREAD MILLS

DIES

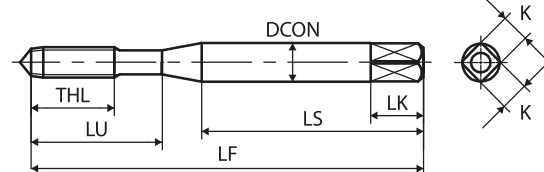
CENTER DRILLS

Technical info

TYPE: ROLL_010



TYPE: ROLL_012



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock	Intro
		Max	Min													
JIS																
M1X0.25	G4	0.92	0.89	RVP41.0BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
	G4	0.92	0.89	RVP41.0BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○	SP
	G5(G4+13)	0.93	0.9	RVP51.0BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	0.93	0.9	RVP51.0BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
M1.2X0.25	G4	1.11	1.09	RVP41.2BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
	G4	1.11	1.09	RVP41.2BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○	SL
	G5(G4+13)	1.13	1.1	RVP51.2BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.13	1.1	RVP51.2BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
M1.4X0.3	G4	1.3	1.26	RVP41.4CP	4P	36	5.4	-	24	3	2.5	5	0(4)	010	○	
	G4	1.3	1.26	RVP41.4CB	2P	36	5.4	-	24	3	2.5	5	0(4)	010	○	PO
	G5(G4+13)	1.31	1.28	RVP51.4CP	4P	36	5.4	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.31	1.28	RVP51.4CB	2P	36	5.4	-	24	3	2.5	5	0(4)	010	○	
M1.6X0.35	G4	1.46	1.43	RVP41.6DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G4	1.46	1.43	RVP41.6DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	ST
	G5(G4+13)	1.48	1.44	RVP51.6DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.48	1.44	RVP51.6DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	ROLL
	G6(G4+26)	1.49	1.45	RVP61.6DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	JIS
M1.7X0.35	G4	1.56	1.52	RVP41.7DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G4	1.56	1.52	RVP41.7DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.58	1.54	RVP51.7DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	CARBIDE
	G5(G4+13)	1.58	1.54	RVP51.7DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G6(G4+26)	1.59	1.55	RVP61.7DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
M2X0.4	G4	1.83	1.79	RVP42.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	LONG
	G4	1.83	1.79	RVP42.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.84	1.8	RVP52.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.84	1.8	RVP52.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	HAND TAPS
	G6(G4+26)	1.86	1.81	RVP62.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G6(G4+26)	1.86	1.81	RVP62.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
M2.3X0.4	G4	2.13	2.09	RVP42.3EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G4	2.13	2.09	RVP42.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	EG (STI)
	G5(G4+13)	2.14	2.1	RVP52.3EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	2.14	2.1	RVP52.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
M2.5X0.45	G5	2.32	2.27	RVP52.5FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	SPECIAL THREADS, GAUGES
	G5	2.32	2.27	RVP52.5FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.34	2.29	RVP62.5FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.34	2.29	RVP62.5FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	THREAD MILLS
M2.6X0.45	G5	2.42	2.37	RVP52.6FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G5	2.42	2.37	RVP52.6FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.44	2.39	RVP62.6FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.44	2.39	RVP62.6FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
M3X0.5	G5	2.8	2.75	RVP53.0GP	4P	46	9	14	26	4	3.2	6	4(4)	012	○	DIES
	G5	2.8	2.75	RVP53.0GB	2P	46	9	14	26	4	3.2	6	4(4)	012	○	
	G6(G5+13)	2.82	2.76	RVP63.0GP	4P	46	9	14	26	4	3.2	6	4(4)	012	○	
	G6(G5+13)	2.82	2.76	RVP63.0GB	2P	46	9	14	26	4	3.2	6	4(4)	012	○	CENTER DRILLS
	G7(G5+26)	2.83	2.77	RVP73.0GP	4P	46	9	14	26	4	3.2	6	4(4)	012	○	
	G7(G5+26)	2.83	2.77	RVP73.0GB	2P	46	9	14	26	4	3.2	6	4(4)	012	○	
	G8(G5+39)	2.84	2.79	RVP83.0GP	4P	46	9	14	26	4	3.2	6	4(4)	012	○	

Technical info

Forming Taps

Intro

SP

SL

PO

ST

ROLL

JIS

CARBIDE

LONG

HAND
TAPS

EG (STI)

SPECIAL
THREADS,
GAUGES

THREAD
MILLS

DIES

CENTER
DRILLS

Technical
info

M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
M4X0.7	G5	3.71	3.65	RVP54.0IP	4P	52	11	17	29	5	4	7	4(4)	012	○
	G5	3.71	3.65	RVP54.0IB	2P	52	11	17	29	5	4	7	4(4)	012	○
	G6	3.72	3.65	RVP64.0IP	4P	52	11	17	29	5	4	7	4(4)	012	○
	G6	3.72	3.65	RVP64.0IB	2P	52	11	17	29	5	4	7	4(4)	012	○
	G7(G6+13)	3.74	3.66	RVP74.0IP	4P	52	11	17	29	5	4	7	4(4)	012	○
	G7(G6+13)	3.74	3.66	RVP74.0IB	2P	52	11	17	29	5	4	7	4(4)	012	○
	G8(G6+26)	3.75	3.67	RVP84.0IP	4P	52	11	17	29	5	4	7	4(4)	012	○
	G8(G6+26)	3.75	3.67	RVP84.0IB	2P	52	11	17	29	5	4	7	4(4)	012	○
M5X0.8	G5	4.66	4.57	RVP55.0KP	4P	60	13	22	33	5.5	4.5	7	4(4)	012	○
	G5	4.66	4.57	RVP55.0KB	2P	60	13	22	33	5.5	4.5	7	4(4)	012	○
	G6	4.67	4.59	RVP65.0KP	4P	60	13	22	33	5.5	4.5	7	4(4)	012	○
	G6	4.67	4.59	RVP65.0KB	2P	60	13	22	33	5.5	4.5	7	4(4)	012	○
	G7(G6+13)	4.68	4.6	RVP75.0KP	4P	60	13	22	33	5.5	4.5	7	4(4)	012	○
	G7(G6+13)	4.68	4.6	RVP75.0KB	2P	60	13	22	33	5.5	4.5	7	4(4)	012	○
	G8(G6+26)	4.7	4.61	RVP85.0KP	4P	60	13	22	33	5.5	4.5	7	4(4)	012	○
	G8(G6+26)	4.7	4.61	RVP85.0KB	2P	60	13	22	33	5.5	4.5	7	4(4)	012	○
M6X1	G6	5.58	5.47	RVP66.0MP	4P	62	15	26	33	6	4.5	7	4(4)	012	○
	G6	5.58	5.47	RVP66.0MB	2P	62	15	26	33	6	4.5	7	4(4)	012	○
	G7(G6+13)	5.59	5.49	RVP76.0MP	4P	62	15	26	33	6	4.5	7	4(4)	012	○
	G7(G6+13)	5.59	5.49	RVP76.0MB	2P	62	15	26	33	6	4.5	7	4(4)	012	○
	G8(G7+13)	5.61	5.5	RVP86.0MP	4P	62	15	26	33	6	4.5	7	4(4)	012	○
	G8(G7+13)	5.61	5.5	RVP86.0MB	2P	62	15	26	33	6	4.5	7	4(4)	012	○

Intro

SP

SL

PO

ST

ROLL

JIS

CARBIDE

LONG

HAND
TAPS

EG (STI)

SPECIAL
THREADS,
GAUGES

THREAD
MILLS

DIES

CENTER
DRILLS

Technical
info

Intro

N+RZ/N-RZ

GP General Purpose Series

Thread Forming Taps for Steel



SP

SL



PO

Recommended Tapping Speeds Depending On Materials

ISO Vc (m/min)

P1 5÷15 ★

P2 5÷10 ★

ST

★ 1st choice ☆ suitable

FEATURES

General purpose forming taps for blind and through hole application.

Suitable for soft structural steel and medium-low carbon steel application.

OX treatment reduces welding troubles.

ROLL

JIS

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

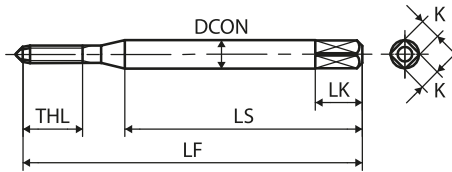
THREAD MILLS

DIES

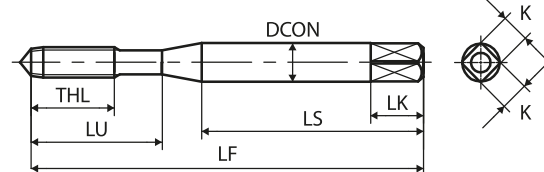
CENTER DRILLS

Technical info

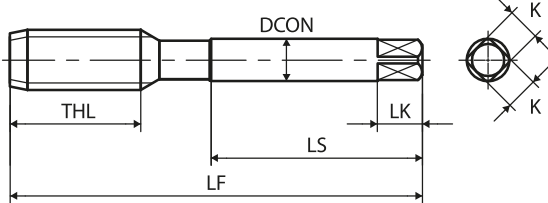
TYPE: ROLL_010



TYPE: ROLL_012



TYPE: ROLL_026



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock	Intro
		Max	Min													
JIS																
M1X0.25	G4	0.92	0.89	NRZP41.0BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
	G4	0.92	0.89	NRZP41.0BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○	SP
	G5(G4+13)	0.93	0.9	NRZP51.0BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	0.93	0.9	NRZP51.0BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
M1.2X0.25	G4	1.11	1.09	NRZP41.2BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○	SL
	G5(G4+13)	1.13	1.1	NRZP51.2BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.13	1.1	NRZP51.2BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
	G4	1.11	1.09	NRZP41.2BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○	
M1.4X0.3	G4	1.3	1.26	NRZP41.4CP	4P	36	5.4	-	24	3	2.5	5	0(4)	010	○	PO
	G4	1.3	1.26	NRZP41.4CB	2P	36	5.4	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.31	1.28	NRZP51.4CP	4P	36	5.4	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.31	1.28	NRZP51.4CB	2P	36	5.4	-	24	3	2.5	5	0(4)	010	○	
M1.6X0.35	G4	1.46	1.43	NRZP41.6DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	ST
	G4	1.46	1.43	NRZP41.6DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.48	1.44	NRZP51.6DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.48	1.44	NRZP51.6DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	ROLL
M1.7X0.35	G4	1.56	1.52	NRZP41.7DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	JIS
	G4	1.56	1.52	NRZP41.7DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.58	1.54	NRZP51.7DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.58	1.54	NRZP51.7DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	CARBIDE
	G6(G4+26)	1.59	1.55	NRZP61.7DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G6(G4+26)	1.59	1.55	NRZP61.7DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
M1.8X0.35	G4	1.66	1.62	NRZP41.8DP	4P	42	6.3	-	27	3	2.5	5	0(4)	010	○	LONG
	G4	1.66	1.62	NRZP41.8DB	2P	42	6.3	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.68	1.64	NRZP51.8DP	4P	42	6.3	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.68	1.64	NRZP51.8DB	2P	42	6.3	-	27	3	2.5	5	0(4)	010	○	
M2X0.4	G4	1.83	1.79	NRZP42.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	HAND TAPS
	G4	1.83	1.79	NRZP42.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.84	1.8	NRZP52.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.84	1.8	NRZP52.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G6(G4+26)	1.86	1.81	NRZP62.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	EG (STI)
	G6(G4+26)	1.86	1.81	NRZP62.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
M2.2X0.45	G5	2.02	1.98	NRZP52.2FP	4P	42	8.1	-	27	3	2.5	5	0(4)	010	○	SPECIAL THREADS, GAUGES
	G5	2.02	1.98	NRZP52.2FB	2P	42	8.1	-	27	3	2.5	5	0(4)	010	○	
M2.3X0.4	G4	2.13	2.09	NRZP42.3EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G4	2.13	2.09	NRZP42.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	2.14	2.1	NRZP52.3EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	THREAD MILLS
	G5(G4+13)	2.14	2.1	NRZP52.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G6(G4+26)	2.16	2.11	NRZP62.3EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G6(G4+26)	2.16	2.11	NRZP62.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
M2.5X0.45	G5	2.32	2.27	NRZP52.5FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	DIES
	G5	2.32	2.27	NRZP52.5FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.34	2.29	NRZP62.5FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.34	2.29	NRZP62.5FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	CENTER DRILLS

CENTER DRILLS

Technical info

Forming Taps

Intro	M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
			Max	Min												
JIS																
SP	M2.6X0.45	G5	2.42	2.37	NRZP52.6FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○
		G5	2.42	2.37	NRZP52.6FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○
		G6(G5+13)	2.44	2.39	NRZP62.6FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○
		G6(G5+13)	2.44	2.39	NRZP62.6FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○
SL	M3X0.5	G5	2.8	2.75	NRZP53.0GP	4P	46	9	14	26	4	3.2	6	4(4)	012	○
		G5	2.8	2.75	NRZP53.0GB	2P	46	9	14	26	4	3.2	6	4(4)	012	○
		G6(G5+13)	2.82	2.76	NRZP63.0GP	4P	46	9	14	26	4	3.2	6	4(4)	012	○
		G6(G5+13)	2.82	2.76	NRZP63.0GB	2P	46	9	14	26	4	3.2	6	4(4)	012	○
PO	M3X0.5	G7(G5+26)	2.83	2.77	NRZP73.0GP	4P	46	9	14	26	4	3.2	6	4(4)	012	○
		G7(G5+26)	2.83	2.77	NRZP73.0GB	2P	46	9	14	26	4	3.2	6	4(4)	012	○
		G8(G5+39)	2.84	2.79	NRZP83.0GP	4P	46	9	14	26	4	3.2	6	4(4)	012	○
		G8(G5+39)	2.84	2.79	NRZP83.0GB	2P	46	9	14	26	4	3.2	6	4(4)	012	○
ST	M3.5X0.6	G5	3.25	3.19	NRZP53.5HP	4P	52	11	16	29	5	4	7	4(4)	012	○
		G5	3.25	3.19	NRZP53.5HB	2P	52	11	16	29	5	4	7	4(4)	012	○
		G6(G5+13)	3.26	3.2	NRZP63.5HP	4P	52	11	16	29	5	4	7	4(4)	012	○
		G6(G5+13)	3.26	3.2	NRZP63.5HB	2P	52	11	16	29	5	4	7	4(4)	012	○
		G7(G5+26)	3.28	3.21	NRZP73.5HP	4P	52	11	16	29	5	4	7	4(4)	012	○
ROLL JIS	M3.5X0.6	G7(G5+26)	3.28	3.21	NRZP73.5HB	2P	52	11	16	29	5	4	7	4(4)	012	○
		G5	3.71	3.65	NRZP54.0IP	4P	52	11	17	29	5	4	7	4(4)	012	○
		G5	3.71	3.65	NRZP54.0IB	2P	52	11	17	29	5	4	7	4(4)	012	○
		G6	3.72	3.65	NRZP64.0IP	4P	52	11	17	29	5	4	7	4(4)	012	○
		G6	3.72	3.65	NRZP64.0IB	2P	52	11	17	29	5	4	7	4(4)	012	○
CARBIDE	M4X0.7	G7(G6+13)	3.74	3.66	NRZP74.0IP	4P	52	11	17	29	5	4	7	4(4)	012	○
		G7(G6+13)	3.74	3.66	NRZP74.0IB	2P	52	11	17	29	5	4	7	4(4)	012	○
		G8(G6+26)	3.75	3.67	NRZP84.0IP	4P	52	11	17	29	5	4	7	4(4)	012	○
		G8(G6+26)	3.75	3.67	NRZP84.0IB	2P	52	11	17	29	5	4	7	4(4)	012	○
		G5	4.66	4.57	NRZP55.0KP	4P	60	13	22	33	5.5	4.5	7	4(4)	012	○
HAND TAPS	M5X0.8	G5	4.66	4.57	NRZP55.0KB	2P	60	13	22	33	5.5	4.5	7	4(4)	012	○
		G6	4.67	4.59	NRZP65.0KP	4P	60	13	22	33	5.5	4.5	7	4(4)	012	○
		G6	4.67	4.59	NRZP65.0KB	2P	60	13	22	33	5.5	4.5	7	4(4)	012	○
		G7(G6+13)	4.68	4.6	NRZP75.0KP	4P	60	13	22	33	5.5	4.5	7	4(4)	012	○
		G7(G6+13)	4.68	4.6	NRZP75.0KB	2P	60	13	22	33	5.5	4.5	7	4(4)	012	○
EG (STI)	M5X0.8	G8(G6+26)	4.7	4.61	NRZP85.0KP	4P	60	13	22	33	5.5	4.5	7	4(4)	012	○
		G8(G6+26)	4.7	4.61	NRZP85.0KB	2P	60	13	22	33	5.5	4.5	7	4(4)	012	○
		G5	5.57	5.46	NRZP56.0MP	4P	62	15	26	33	6	4.5	7	4(4)	012	○
		G5	5.57	5.46	NRZP56.0MB	2P	62	15	26	33	6	4.5	7	4(4)	012	○
		G6	5.58	5.47	NRZP66.0MP	4P	62	15	26	33	6	4.5	7	4(4)	012	○
SPECIAL THREADS, GAUGES	M6X1	G6	5.58	5.47	NRZP66.0MB	2P	62	15	26	33	6	4.5	7	4(4)	012	○
		G7(G6+13)	5.59	5.49	NRZP76.0MP	4P	62	15	26	33	6	4.5	7	4(4)	012	○
		G7(G6+13)	5.59	5.49	NRZP76.0MB	2P	62	15	26	33	6	4.5	7	4(4)	012	○
		G7	6.59	6.48	NRZM77.0MP	4P	70	19	-	36	6.2	5	8	4(4)	026	○
		G7	6.59	6.48	NRZM77.0MB	2P	70	19	-	36	6.2	5	8	4(4)	026	○
THREAD MILLS	M7X1	G7	7.49	7.37	NRZM78.0NP	4P	70	19	-	36	6.2	5	8	3(6)	026	○
		G7	7.49	7.37	NRZM78.0NB	2P	70	19	-	36	6.2	5	8	3(6)	026	○
		G8(G7+13)	7.51	7.37	NRZM88.0NP	4P	70	19	-	36	6.2	5	8	3(6)	026	○
		G8(G7+13)	7.51	7.37	NRZM88.0NB	2P	70	19	-	36	6.2	5	8	3(6)	026	○
DIES	M8X1.25	G7	7.49	7.37	NRZM78.0NP	4P	70	19	-	36	6.2	5	8	3(6)	026	○
		G7	7.49	7.37	NRZM78.0NB	2P	70	19	-	36	6.2	5	8	3(6)	026	○
		G8(G7+13)	7.51	7.37	NRZM88.0NP	4P	70	19	-	36	6.2	5	8	3(6)	026	○
		G8(G7+13)	7.51	7.37	NRZM88.0NB	2P	70	19	-	36	6.2	5	8	3(6)	026	○
CENTER DRILLS	M8X1.25	G7	7.49	7.37	NRZM78.0NP	4P	70	19	-	36	6.2	5	8	3(6)	026	○
		G7	7.49	7.37	NRZM78.0NB	2P	70	19	-	36	6.2	5	8	3(6)	026	○
		G8(G7+13)	7.51	7.37	NRZM88.0NP	4P	70	19	-	36	6.2	5	8	3(6)	026	○
		G8(G7+13)	7.51	7.37	NRZM88.0NB	2P	70	19	-	36	6.2	5	8	3(6)	026	○

Technical
info

M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock	
		Max	Min													
JIS																
M10X1.5	G7	9.38	9.22	NRZM70100P	4P	75	23	-	38	7	5.5	8	4(8)	026	○	
	G7	9.38	9.22	NRZM70100B	2P	75	23	-	38	7	5.5	8	4(8)	026	○	SP
	G8(G7+13)	9.39	9.23	NRZM80100P	4P	75	23	-	38	7	5.5	8	4(8)	026	○	
	G8(G7+13)	9.39	9.23	NRZM80100B	2P	75	23	-	38	7	5.5	8	4(8)	026	○	
M12X1.75	G8	11.28	11.09	NRZM8012PP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
	G8	11.28	11.09	NRZM8012PB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○	SL
	G9(G8+13)	11.29	11.11	NRZM9012PP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
	G9(G8+13)	11.29	11.11	NRZM9012PB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
M14X2	G9	13.18	12.97	NRZM9014QP	4P	88	26	-	45	10.5	8	11	4(8)	026	○	
	G9	13.18	12.97	NRZM9014QB	2P	88	26	-	45	10.5	8	11	4(8)	026	○	PO
	G10	13.19	12.98	NRZM0014QP	4P	88	26	-	45	10.5	8	11	4(8)	026	○	
	G10	13.19	12.98	NRZM0014QB	2P	88	26	-	45	10.5	8	11	4(8)	026	○	
M16X2	G9	15.18	14.96	NRZM9016QP	4P	95	26	-	48	12.5	10	13	4(8)	026	○	
	G9	15.18	14.96	NRZM9016QB	2P	95	26	-	48	12.5	10	13	4(8)	026	○	ST
	G10	15.19	14.97	NRZM0016QP	4P	95	26	-	48	12.5	10	13	4(8)	026	○	
	G10	15.19	14.97	NRZM0016QB	2P	95	26	-	48	12.5	10	13	4(8)	026	○	
JIS																
JIS																
M2X0.25	G4	1.91	1.89	NRZM42.0BP	4P	42	4.5	-	27	3	2.5	5	0(4)	010	○	
	G4	1.91	1.89	NRZM42.0BB	2P	42	4.5	-	27	3	2.5	5	0(4)	010	○	CARBIDE
	G5(G4+13)	1.93	1.9	NRZM52.0BP	4P	42	4.5	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.93	1.9	NRZM52.0BB	2P	42	4.5	-	27	3	2.5	5	0(4)	010	○	
M2.5X0.35	G5	2.37	2.36	NRZM52.5DP	4P	46	6.3	14	29	3	2.5	5	0(4)	012	○	
	G5	2.37	2.36	NRZM52.5DB	2P	46	6.3	14	29	3	2.5	5	0(4)	012	○	LONG
M2.6X0.35	G5	2.42	2.4	NRZM52.6DP	4P	46	6.3	14	29	3	2.5	5	0(4)	012	○	
	G5	2.42	2.4	NRZM52.6DB	2P	46	6.3	14	29	3	2.5	5	0(4)	012	○	HAND TAPS
M3X0.35	G5	2.86	2.79	NRZM53.0DP	4P	46	6.5	14	26	4	3.2	6	4(4)	012	○	
	G5	2.86	2.79	NRZM53.0DB	2P	46	6.5	14	26	4	3.2	6	4(4)	012	○	
M4X0.5	G5	3.8	3.75	NRZM54.0GP	4P	52	9	17	29	5	4	7	4(4)	012	○	
	G5	3.8	3.75	NRZM54.0GB	2P	52	9	17	29	5	4	7	4(4)	012	○	EG (STI)
	G6	3.81	3.76	NRZM64.0GP	4P	52	9	17	29	5	4	7	4(4)	012	○	
	G6	3.81	3.76	NRZM64.0GB	2P	52	9	17	29	5	4	7	4(4)	012	○	
M5X0.5	G7(G6+13)	3.82	3.77	NRZM74.0GB	2P	52	9	17	29	5	4	7	4(4)	012	○	SPECIAL THREADS, GAUGES
	G6	4.81	4.76	NRZM65.0GP	4P	60	9	22	33	5.5	4.5	7	4(4)	012	○	
M6X0.75	G6	4.81	4.76	NRZM65.0GB	2P	60	9	22	33	5.5	4.5	7	4(4)	012	○	
	G6	5.69	5.61	NRZM66.0JP	4P	62	15	26	33	6	4.5	7	4(4)	012	○	
M6X0.5	G6	5.69	5.61	NRZM66.0JB	2P	62	15	26	33	6	4.5	7	4(4)	012	○	THREAD MILLS
	G7(G6+13)	5.7	5.62	NRZM76.0JP	4P	62	15	26	33	6	4.5	7	4(4)	012	○	
	G7(G6+13)	5.7	5.62	NRZM76.0JB	2P	62	15	26	33	6	4.5	7	4(4)	012	○	
M6X0.5	G6	5.81	5.76	NRZM66.0GP	4P	62	9	26	33	6	4.5	7	4(4)	012	○	
	G6	5.81	5.76	NRZM66.0GB	2P	62	9	26	33	6	4.5	7	4(4)	012	○	DIES
M7X0.75	G7	6.7	6.62	NRZM77.0JP	4P	70	19	-	36	6.2	5	8	4(4)	026	○	
	G7	6.7	6.62	NRZM77.0JB	2P	70	19	-	36	6.2	5	8	4(4)	026	○	
M8X1	G7	7.59	7.48	NRZM78.0MP	4P	70	19	-	36	6.2	5	8	3(6)	026	○	
	G7	7.59	7.48	NRZM78.0MB	2P	70	19	-	36	6.2	5	8	3(6)	026	○	CENTER DRILLS

Intro

SP

SL

PO

ST

ROLL

JIS

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

THREAD MILLS

DIES

CENTER DRILLS

Technical info

Forming Taps

Intro

	MF	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
			Max	Min												
	JIS															
SP	M8X0.75	G7	7.7	7.62	NRZM78.0JP	4P	70	19	-	36	6.2	5	8	3(6)	026	○
		G7	7.7	7.62	NRZM78.0JB	2P	70	19	-	36	6.2	5	8	3(6)	026	○
SL	M10X1.25	G7	9.49	9.35	NRZM7010NP	4P	75	23	-	38	7	5.5	8	4(8)	026	○
		G7	9.49	9.35	NRZM7010NB	2P	75	23	-	38	7	5.5	8	4(8)	026	○
		G8(G7+13)	9.5	9.37	NRZM8010NP	4P	75	23	-	38	7	5.5	8	4(8)	026	○
		G8(G7+13)	9.5	9.37	NRZM8010NB	2P	75	23	-	38	7	5.5	8	4(8)	026	○
PO	M10X1	G7	9.59	9.48	NRZM7010MP	4P	75	23	-	38	7	5.5	8	4(8)	026	○
		G7	9.59	9.48	NRZM7010MB	2P	75	23	-	38	7	5.5	8	4(8)	026	○
ST	M12X1.5	G8	11.38	11.22	NRZM8012OP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○
		G8	11.38	11.22	NRZM8012OB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○
		G9(G8+13)	11.39	11.23	NRZM9012OP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○
		G9(G8+13)	11.39	11.23	NRZM9012OB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○
ROLL JIS	M12X1.25	G8	11.49	11.35	NRZM8012NP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○
		G8	11.49	11.35	NRZM8012NB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○
		G9	11.5	11.36	NRZM9012NP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○
		G9	11.5	11.36	NRZM9012NB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○
CARBIDE	M12X1	G7	11.58	11.47	NRZM7012MP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○
		G7	11.58	11.47	NRZM7012MB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○
LONG	M14X1.5	G9	13.39	13.22	NRZM9014OP	4P	88	26	-	45	10.5	8	11	4(8)	026	○
		G9	13.39	13.22	NRZM9014OB	2P	88	26	-	45	10.5	8	11	4(8)	026	○
HAND TAPS	M14X1	G8	13.59	13.48	NRZM8014MP	4P	88	26	-	45	10.5	8	11	4(8)	026	○
		G8	13.59	13.48	NRZM8014MB	2P	88	26	-	45	10.5	8	11	4(8)	026	○
EG (STI)	M16X1.5	G9	15.38	15.22	NRZM9016OP	4P	95	26	-	48	12.5	10	13	4(8)	026	○
		G9	15.38	15.22	NRZM9016OB	2P	95	26	-	48	12.5	10	13	4(8)	026	○
SPECIAL THREADS, GAUGES	M16X1	G8	15.59	15.48	NRZM8016MP	4P	95	26	-	48	12.5	10	13	4(8)	026	○
		G8	15.59	15.48	NRZM8016MB	2P	95	26	-	48	12.5	10	13	4(8)	026	○
THREAD MILLS	M18X1.5	G10	17.4	17.24	NRZM0018OP	4P	100	33	-	51	14	11	14	4(8)	026	○
		G9	19.37	19.21	NRZM9020OP	4P	105	33	-	50	15	12	15	4(8)	026	○
	M20X1.5	G9	19.37	19.21	NRZM9020OB	2P	105	33	-	50	15	12	15	4(8)	026	○
		G10	19.39	19.22	NRZM0020OP	4P	105	33	-	50	15	12	15	4(8)	026	○
DIES	M20X1.5	G10	19.39	19.22	NRZM0020OB	2P	105	33	-	50	15	12	15	4(8)	026	○
		G10	19.39	19.22	NRZM0020OB	2P	105	33	-	50	15	12	15	4(8)	026	○
	UNC															
	JIS															
CENTER DRILLS	No.4-40UNC	G5	2.61	2.54	NRZM5UN4HB	2P	46	9	14	25	4	3.2	6	0(4)	012	○
		G6	3.21	3.12	NRZM6UN6JB	2P	52	11	17	27	5	4	7	2(4)	012	○
TECHNICAL INFO	5/16-18UNC	G7	7.38	7.23	NRZM7U050P	4P	70	19	-	36	6.2	5	8	3(6)	026	○
		G7	7.38	7.23	NRZM7U050B	2P	70	19	-	36	6.2	5	8	3(6)	026	○
	7/16-14UNC	G8	10.4	10.2	NRZM8U07QP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○
		G8	10.4	10.2	NRZM8U07QB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○
	1/2-13UNC	G8	11.92	11.7	NRZM8U08RP	4P	88	26	-	45	10.5	8	11	4(8)	026	○
		G8	11.92	11.7	NRZM8U08RB	2P	88	26	-	45	10.5	8	11	4(8)	026	○

CENTER
DRILLS

Technical
info

UNF	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
3/8-24UNF	G7	9.1	8.99	NRZM7U06MP	4P	75	23	-	38	7	5.5	8	3(6)	026	○
	G7	9.1	8.99	NRZM7U06MB	2P	75	23	-	38	7	5.5	8	3(6)	026	○
7/16-20UNF	G8	10.62	10.48	NRZM8U07NP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○
	G8	10.62	10.48	NRZM8U07NB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○
1/2-20UNF	G8	12.2	12.06	NRZM8U08NP	4P	88	26	-	45	10.5	8	11	4(8)	026	○
	G8	12.2	12.06	NRZM8U08NB	2P	88	26	-	45	10.5	8	11	4(8)	026	○

Intro

SP

SL

PO

ST

ROLL

JIS

CARBIDE

LONG

HAND
TAPS

EG (STI)

SPECIAL
THREADS,
GAUGESTHREAD
MILLS

DIES

CENTER
DRILLSTechnical
info

Intro

N+RS/N-RS

GP General Purpose Series

Thread Forming Taps for Non-Ferrous Materials



SP

SL

PO

ST



FEATURES

General purpose forming taps for blind and through hole application.

Suitable for non-ferrous materials.

NI treatment improves tool life.

Recommended Tapping Speeds Depending On Materials

ISO Vc (m/min)

N1	5÷15	★
N2	5÷15	★
N3	5÷15	★

★ 1st choice ☆ suitable

ROLL

JIS

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

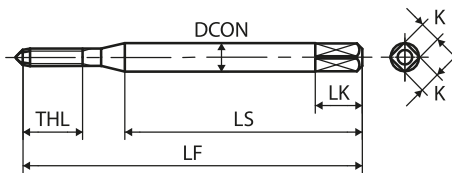
THREAD MILLS

DIES

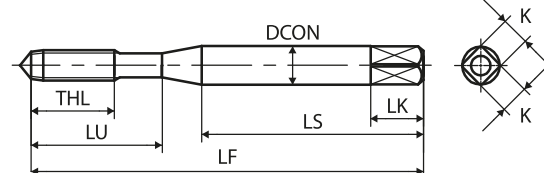
CENTER DRILLS

Technical info

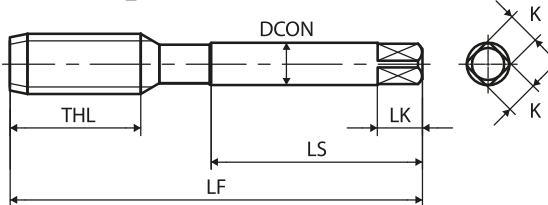
TYPE: ROLL_010



TYPE: ROLL_012



TYPE: ROLL_026



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
M1X0.25	G4	0.92	0.89	NRSP41.0BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○
	G4	0.92	0.89	NRSP41.0BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○
	G5(G4+13)	0.93	0.9	NRSP51.0BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○
	G5(G4+13)	0.93	0.9	NRSP51.0BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○
M1.2X0.25	G4	1.11	1.09	NRSP41.2BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○
	G4	1.11	1.09	NRSP41.2BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○
	G5(G4+13)	1.13	1.1	NRSP51.2BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○
	G5(G4+13)	1.13	1.1	NRSP51.2BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	○
M1.4X0.3	G4	1.3	1.26	NRSP41.4CP	4P	36	5.4	-	24	3	2.5	5	0(4)	010	○
	G4	1.3	1.26	NRSP41.4CB	2P	36	5.4	-	24	3	2.5	5	0(4)	010	○
	G5(G4+13)	1.31	1.28	NRSP51.4CP	4P	36	5.4	-	24	3	2.5	5	0(4)	010	○
	G5(G4+13)	1.31	1.28	NRSP51.4CB	2P	36	5.4	-	24	3	2.5	5	0(4)	010	○

M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock	Intro
		Max	Min													
JIS																
M1.6X0.35	G4	1.46	1.43	NRSP41.6DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	SP
	G4	1.46	1.43	NRSP41.6DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.48	1.44	NRSP51.6DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.48	1.44	NRSP51.6DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
M1.7X0.35	G4	1.56	1.52	NRSP41.7DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	SL
	G4	1.56	1.52	NRSP41.7DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.58	1.54	NRSP51.7DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	PO
	G5(G4+13)	1.58	1.54	NRSP51.7DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G6(G4+26)	1.59	1.55	NRSP61.7DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
	G6(G4+26)	1.59	1.55	NRSP61.7DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	
M1.8X0.35	G4	1.66	1.62	NRSP41.8DP	4P	42	6.3	-	27	3	2.5	5	0(4)	010	○	ST
	G4	1.66	1.62	NRSP41.8DB	2P	42	6.3	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.68	1.64	NRSP51.8DP	4P	42	6.3	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.68	1.64	NRSP51.8DB	2P	42	6.3	-	27	3	2.5	5	0(4)	010	○	
M2X0.4	G4	1.83	1.79	NRSP42.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	ROLL JIS
	G4	1.83	1.79	NRSP42.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.84	1.8	NRSP52.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.84	1.8	NRSP52.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G6(G4+26)	1.86	1.81	NRSP62.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G6(G4+26)	1.86	1.81	NRSP62.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
M2.3X0.4	G4	2.13	2.09	NRSP42.3EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	CARBIDE LONG
	G4	2.13	2.09	NRSP42.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	2.14	2.1	NRSP52.3EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	2.14	2.1	NRSP52.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G6(G4+26)	2.16	2.11	NRSP62.3EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G6(G4+26)	2.16	2.11	NRSP62.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
M2.5X0.45	G5	2.32	2.27	NRSP52.5FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	HAND TAPS
	G5	2.32	2.27	NRSP52.5FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.34	2.29	NRSP62.5FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.34	2.29	NRSP62.5FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
M2.6X0.45	G5	2.42	2.37	NRSP52.6FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	EG (STI) SPECIAL THREADS, GAUGES
	G5	2.42	2.37	NRSP52.6FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.44	2.39	NRSP62.6FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.44	2.39	NRSP62.6FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
M3X0.5	G5	2.8	2.75	NRSP53.0GP	4P	46	9	14	26	4	3.2	6	1(4)	012	○	THREAD MILLS DIES
	G5	2.8	2.75	NRSP53.0GB	2P	46	9	14	26	4	3.2	6	1(4)	012	○	
	G6(G5+13)	2.82	2.76	NRSP63.0GP	4P	46	9	14	26	4	3.2	6	1(4)	012	○	
	G6(G5+13)	2.82	2.76	NRSP63.0GB	2P	46	9	14	26	4	3.2	6	1(4)	012	○	
	G7(G5+26)	2.83	2.77	NRSP73.0GP	4P	46	9	14	26	4	3.2	6	1(4)	012	○	
	G7(G5+26)	2.83	2.77	NRSP73.0GB	2P	46	9	14	26	4	3.2	6	1(4)	012	○	
	G8(G5+39)	2.84	2.79	NRSP83.0GP	4P	46	9	14	26	4	3.2	6	1(4)	012	○	
	G8(G5+39)	2.84	2.79	NRSP83.0GB	2P	46	9	14	26	4	3.2	6	1(4)	012	○	
M3.5X0.6	G5	3.25	3.19	NRSP53.5HP	4P	52	11	16	29	5	4	7	1(4)	012	○	CENTER DRILLS
	G5	3.25	3.19	NRSP53.5HB	2P	52	11	16	29	5	4	7	1(4)	012	○	
	G6(G5+13)	3.26	3.2	NRSP63.5HP	4P	52	11	16	29	5	4	7	1(4)	012	○	
	G6(G5+13)	3.26	3.2	NRSP63.5HB	2P	52	11	16	29	5	4	7	1(4)	012	○	
	G7(G5+26)	3.28	3.21	NRSP73.5HP	4P	52	11	16	29	5	4	7	1(4)	012	○	

Forming Taps

Intro

SP

SL

PO

ST

ROLL

JIS

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

THREAD MILLS

DIES

CENTER DRILLS

Technical info

Intro	M	TCTR (tolerance)		Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min	Max	Min												
JIS																	
M4X0.7	G5	3.71	3.65	NRSP54.0IP	4P	52	11	17	29	5	4	7	1(4)	012	○		
	G5	3.71	3.65	NRSP54.0IB	2P	52	11	17	29	5	4	7	1(4)	012	○		
	G6	3.72	3.65	NRSP64.0IP	4P	52	11	17	29	5	4	7	1(4)	012	○		
	G6	3.72	3.65	NRSP64.0IB	2P	52	11	17	29	5	4	7	1(4)	012	○		
	G7(G6+13)	3.74	3.66	NRSP74.0IP	4P	52	11	17	29	5	4	7	1(4)	012	○		
	G7(G6+13)	3.74	3.66	NRSP74.0IB	2P	52	11	17	29	5	4	7	1(4)	012	○		
	G8(G6+26)	3.75	3.67	NRSP84.0IP	4P	52	11	17	29	5	4	7	1(4)	012	○		
	G8(G6+26)	3.75	3.67	NRSP84.0IB	2P	52	11	17	29	5	4	7	1(4)	012	○		
M5X0.8	G5	4.66	4.57	NRSP55.0KP	4P	60	13	22	33	5.5	4.5	7	1(4)	012	○		
	G5	4.66	4.57	NRSP55.0KB	2P	60	13	22	33	5.5	4.5	7	1(4)	012	○		
	G6	4.67	4.59	NRSP65.0KP	4P	60	13	22	33	5.5	4.5	7	1(4)	012	○		
	G6	4.67	4.59	NRSP65.0KB	2P	60	13	22	33	5.5	4.5	7	1(4)	012	○		
	G7(G6+13)	4.68	4.6	NRSP75.0KP	4P	60	13	22	33	5.5	4.5	7	1(4)	012	○		
	G7(G6+13)	4.68	4.6	NRSP75.0KB	2P	60	13	22	33	5.5	4.5	7	1(4)	012	○		
	G8(G6+26)	4.7	4.61	NRSP85.0KB	2P	60	13	22	33	5.5	4.5	7	1(4)	012	○		
	M6X1	G5	5.57	5.46	NRSP56.0MP	4P	62	15	26	33	6	4.5	7	1(4)	012	○	
G5		5.57	5.46	NRSP56.0MB	2P	62	15	26	33	6	4.5	7	1(4)	012	○		
G6		5.58	5.47	NRSP66.0MP	4P	62	15	26	33	6	4.5	7	1(4)	012	○		
G6		5.58	5.47	NRSP66.0MB	2P	62	15	26	33	6	4.5	7	1(4)	012	○		
G7(G6+13)		5.59	5.49	NRSP76.0MP	4P	62	15	26	33	6	4.5	7	1(4)	012	○		
G7(G6+13)		5.59	5.49	NRSP76.0MB	2P	62	15	26	33	6	4.5	7	1(4)	012	○		
G8(G7+13)		5.61	5.5	NRSP86.0MP	4P	62	15	26	33	6	4.5	7	1(4)	012	○		
G8(G7+13)		5.61	5.5	NRSP86.0MB	2P	62	15	26	33	6	4.5	7	1(4)	012	○		
M7X1	G6	6.58	6.47	NRSM67.0MP	4P	70	19	-	36	6.2	5	8	1(4)	026	○		
	G6	6.58	6.47	NRSM67.0MB	2P	70	19	-	36	6.2	5	8	1(4)	026	○		
	G7	6.59	6.48	NRSM77.0MP	4P	70	19	-	36	6.2	5	8	1(4)	026	○		
	G7	6.59	6.48	NRSM77.0MB	2P	70	19	-	36	6.2	5	8	1(4)	026	○		
M8X1.25	G7	7.49	7.37	NRSM78.0NP	4P	70	19	-	36	6.2	5	8	1(6)	026	○		
	G7	7.49	7.37	NRSM78.0NB	2P	70	19	-	36	6.2	5	8	1(6)	026	○		
	G8(G7+13)	7.51	7.37	NRSM88.0NP	4P	70	19	-	36	6.2	5	8	1(6)	026	○		
M10X1.5	G8(G7+13)	7.51	7.37	NRSM88.0NB	2P	70	19	-	36	6.2	5	8	1(6)	026	○		
	G7	9.38	9.22	NRSM70100P	4P	75	23	-	38	7	5.5	8	1(6)	026	○		
	G7	9.38	9.22	NRSM70100B	2P	75	23	-	38	7	5.5	8	1(6)	026	○		
M12X1.75	G8(G7+13)	9.39	9.23	NRSM80100P	4P	75	23	-	38	7	5.5	8	1(6)	026	○		
	G8(G7+13)	9.39	9.23	NRSM80100B	2P	75	23	-	38	7	5.5	8	1(6)	026	○		
	G8	11.28	11.09	NRSM8012PP	4P	82	26	-	42	8.5	6.5	9	1(6)	026	○		
	G8	11.28	11.09	NRSM8012PB	2P	82	26	-	42	8.5	6.5	9	1(6)	026	○		
M14X2	G9(G8+13)	11.29	11.11	NRSM9012PP	4P	82	26	-	42	8.5	6.5	9	1(6)	026	○		
	G9(G8+13)	11.29	11.11	NRSM9012PB	2P	82	26	-	42	8.5	6.5	9	1(6)	026	○		
	G9	13.18	12.97	NRSM9014QP	4P	88	26	-	45	10.5	8	11	1(6)	026	○		
	G9	13.18	12.97	NRSM9014QB	2P	88	26	-	45	10.5	8	11	1(6)	026	○		
M16X2	G10	13.19	12.98	NRSM0014QP	4P	88	26	-	45	10.5	8	11	1(6)	026	○		
	G10	13.19	12.98	NRSM0014QB	2P	88	26	-	45	10.5	8	11	1(6)	026	○		
	G9	15.18	14.96	NRSM9016QP	4P	95	26	-	48	12.5	10	13	1(6)	026	○		
	G9	15.18	14.96	NRSM9016QB	2P	95	26	-	48	12.5	10	13	1(6)	026	○		
M20X2.5	G10	15.19	14.97	NRSM0016QP	4P	95	26	-	48	12.5	10	13	1(6)	026	○		
	G10	15.19	14.97	NRSM0016QB	2P	95	26	-	48	12.5	10	13	1(6)	026	○		
M20X2.5	G11	18.95	18.72	NRSM1020RP	4P	105	33	-	50	15	12	15	1(6)	026	○		
	G11	18.95	18.72	NRSM1020RB	2P	105	33	-	50	15	12	15	1(6)	026	○		

MF	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock	Intro
		Max	Min													
JIS																
M2X0.25	G4	1.91	1.89	NRSM42.0BP	4P	42	4.5	-	27	3	2.5	5	0(4)	010	○	
	G4	1.91	1.89	NRSM42.0BB	2P	42	4.5	-	27	3	2.5	5	0(4)	010	○	SP
	G5(G4+13)	1.93	1.9	NRSM52.0BP	4P	42	4.5	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.93	1.9	NRSM52.0BB	2P	42	4.5	-	27	3	2.5	5	0(4)	010	○	
M2.5X0.35	G4	2.35	2.33	NRSM42.5DP	4P	46	6.3	14	29	3	2.5	5	0(4)	012	○	
	G4	2.35	2.33	NRSM42.5DB	2P	46	6.3	14	29	3	2.5	5	0(4)	012	○	SL
	G5	2.37	2.36	NRSM52.5DP	4P	46	6.3	14	29	3	2.5	5	0(4)	012	○	
	G5	2.37	2.36	NRSM52.5DB	2P	46	6.3	14	29	3	2.5	5	0(4)	012	○	
M2.6X0.35	G5	2.42	2.4	NRSM52.6DP	4P	46	6.3	14	29	3	2.5	5	0(4)	012	○	
	G5	2.42	2.4	NRSM52.6DB	2P	46	6.3	14	29	3	2.5	5	0(4)	012	○	PO
	G6(G5+13)	2.44	2.41	NRSM62.6DP	4P	46	6.3	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.44	2.41	NRSM62.6DB	2P	46	6.3	14	29	3	2.5	5	0(4)	012	○	
M3X0.35	G5	2.86	2.79	NRSM53.0DP	4P	46	6.5	14	26	4	3.2	6	1(4)	012	○	
	G5	2.86	2.79	NRSM53.0DB	2P	46	6.5	14	26	4	3.2	6	1(4)	012	○	ST
	G6(G5+13)	2.87	2.8	NRSM63.0DP	4P	46	6.5	14	26	4	3.2	6	1(4)	012	○	
	G6(G5+13)	2.87	2.8	NRSM63.0DB	2P	46	6.5	14	26	4	3.2	6	1(4)	012	○	ROLL
M3.5X0.35	G5	3.25	3.22	NRSM53.5DP	4P	52	6.5	16	29	5	4	7	1(4)	012	○	JIS
	G5	3.25	3.22	NRSM53.5DB	2P	52	6.5	16	29	5	4	7	1(4)	012	○	
	G6(G5+13)	3.26	3.23	NRSM63.5DP	4P	52	6.5	16	29	5	4	7	1(4)	012	○	CARBIDE
	G6(G5+13)	3.26	3.23	NRSM63.5DB	2P	52	6.5	16	29	5	4	7	1(4)	012	○	
M4X0.5	G6	3.81	3.76	NRSM64.0GP	4P	52	9	17	29	5	4	7	1(4)	012	○	
	G6	3.81	3.76	NRSM64.0GB	2P	52	9	17	29	5	4	7	1(4)	012	○	
	G7(G6+13)	3.82	3.77	NRSM74.0GP	4P	52	9	17	29	5	4	7	1(4)	012	○	LONG
	G7(G6+13)	3.82	3.77	NRSM74.0GB	2P	52	9	17	29	5	4	7	1(4)	012	○	
M5X0.5	G6	4.81	4.76	NRSM65.0GP	4P	60	9	22	33	5.5	4.5	7	1(4)	012	○	
	G6	4.81	4.76	NRSM65.0GB	2P	60	9	22	33	5.5	4.5	7	1(4)	012	○	
	G7(G6+13)	4.82	4.77	NRSM75.0GP	4P	60	9	22	33	5.5	4.5	7	1(4)	012	○	HAND TAPS
	G7(G6+13)	4.82	4.77	NRSM75.0GB	2P	60	9	22	33	5.5	4.5	7	1(4)	012	○	
M6X0.75	G6	5.69	5.61	NRSM66.0JP	4P	62	15	26	33	6	4.5	7	1(4)	012	○	
	G6	5.69	5.61	NRSM66.0JB	2P	62	15	26	33	6	4.5	7	1(4)	012	○	
	G7(G6+13)	5.7	5.62	NRSM76.0JP	4P	62	15	26	33	6	4.5	7	1(4)	012	○	EG (STI)
	G7(G6+13)	5.7	5.62	NRSM76.0JB	2P	62	15	26	33	6	4.5	7	1(4)	012	○	
M6X0.5	G6	5.81	5.76	NRSM66.0GP	4P	62	9	26	33	6	4.5	7	1(4)	012	○	
	G6	5.81	5.76	NRSM66.0GB	2P	62	9	26	33	6	4.5	7	1(4)	012	○	SPECIAL THREADS, GAUGES
M7X0.75	G7	6.7	6.62	NRSM77.0JP	4P	70	19	-	36	6.2	5	8	1(4)	026	○	
	G7	6.7	6.62	NRSM77.0JB	2P	70	19	-	36	6.2	5	8	1(4)	026	○	
M8X1	G7	7.59	7.48	NRSM78.0MP	4P	70	19	-	36	6.2	5	8	1(6)	026	○	
	G7	7.59	7.48	NRSM78.0MB	2P	70	19	-	36	6.2	5	8	1(6)	026	○	THREAD MILLS
M8X0.75	G7	7.7	7.62	NRSM78.0JP	4P	70	19	-	36	6.2	5	8	1(6)	026	○	
	G7	7.7	7.62	NRSM78.0JB	2P	70	19	-	36	6.2	5	8	1(6)	026	○	
M10X1.25	G7	9.49	9.35	NRSM7010NP	4P	75	23	-	38	7	5.5	8	1(6)	026	○	
	G7	9.49	9.35	NRSM7010NB	2P	75	23	-	38	7	5.5	8	1(6)	026	○	DIES
	G8(G7+13)	9.5	9.37	NRSM8010NP	4P	75	23	-	38	7	5.5	8	1(6)	026	○	
	G8(G7+13)	9.5	9.37	NRSM8010NB	2P	75	23	-	38	7	5.5	8	1(6)	026	○	
M10X1	G7	9.59	9.48	NRSM7010MP	4P	75	23	-	38	7	5.5	8	1(6)	026	○	
	G7	9.59	9.48	NRSM7010MB	2P	75	23	-	38	7	5.5	8	1(6)	026	○	CENTER DRILLS

Technical info

Forming Taps

Intro

	MF	TCTR (tolerance)		Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min	Max	Min												
JIS																	
SP	M12X1.5	G8	11.38	11.22	NRSM80120P	4P	82	26	-	42	8.5	6.5	9	1(6)	026	○	
		G8	11.38	11.22	NRSM80120B	2P	82	26	-	42	8.5	6.5	9	1(6)	026	○	
		G9(G8+13)	11.39	11.23	NRSM90120P	4P	82	26	-	42	8.5	6.5	9	1(6)	026	○	
		G9(G8+13)	11.39	11.23	NRSM90120B	2P	82	26	-	42	8.5	6.5	9	1(6)	026	○	
SL	M12X1.25	G8	11.49	11.35	NRSM8012NP	4P	82	26	-	42	8.5	6.5	9	1(6)	026	○	
		G8	11.49	11.35	NRSM8012NB	2P	82	26	-	42	8.5	6.5	9	1(6)	026	○	
		G9	11.5	11.36	NRSM9012NP	4P	82	26	-	42	8.5	6.5	9	1(6)	026	○	
		G9	11.5	11.36	NRSM9012NB	2P	82	26	-	42	8.5	6.5	9	1(6)	026	○	
PO	M12X1	G7	11.58	11.47	NRSM7012MP	4P	82	26	-	42	8.5	6.5	9	1(6)	026	○	
		G7	11.58	11.47	NRSM7012MB	2P	82	26	-	42	8.5	6.5	9	1(6)	026	○	
	M14X1.5	G9	13.39	13.22	NRSM90140P	4P	88	26	-	45	10.5	8	11	1(6)	026	○	
		G9	13.39	13.22	NRSM90140B	2P	88	26	-	45	10.5	8	11	1(6)	026	○	
ST	M14X1	G8	13.59	13.48	NRSM8014MP	4P	88	26	-	45	10.5	8	11	1(6)	026	○	
		G8	13.59	13.48	NRSM8014MB	2P	88	26	-	45	10.5	8	11	1(6)	026	○	
ROLL	M16X1.5	G9	15.38	15.22	NRSM90160P	4P	95	26	-	48	12.5	10	13	1(6)	026	○	
		G9	15.38	15.22	NRSM90160B	2P	95	26	-	48	12.5	10	13	1(6)	026	○	
JIS	M16X1	G8	15.59	15.48	NRSM8016MP	4P	95	26	-	48	12.5	10	13	1(6)	026	○	
		G8	15.59	15.48	NRSM8016MB	2P	95	26	-	48	12.5	10	13	1(6)	026	○	
CARBIDE	M18X1.5	G9	17.38	17.22	NRSM90180P	4P	100	33	-	51	14	11	14	1(6)	026	○	
		G9	17.38	17.22	NRSM90180B	2P	100	33	-	51	14	11	14	1(6)	026	○	
LONG	M20X1.5	G9	19.37	19.21	NRSM90200P	4P	105	33	-	50	15	12	15	1(6)	026	○	
		G9	19.37	19.21	NRSM90200B	2P	105	33	-	50	15	12	15	1(6)	026	○	
		G10	19.39	19.22	NRSM00200P	4P	105	33	-	50	15	12	15	1(6)	026	○	
		G10	19.39	19.22	NRSM00200B	2P	105	33	-	50	15	12	15	1(6)	026	○	

HAND TAPS

	UNC	TCTR (tolerance)		Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min	Max	Min												
JIS																	
EG (STI)	No.2-56UNC	G4	2.01	1.96	NRSM4UN2EP	4P	42	8.1	-	27	3	2.5	5	0(4)	010	○	
		G4	2.01	1.96	NRSM4UN2EB	2P	42	8.1	-	27	3	2.5	5	0(4)	010	○	
		G5(G4+13)	2.02	1.97	NRSM5UN2EP	4P	42	8.1	-	27	3	2.5	5	0(4)	010	○	
		G5(G4+13)	2.02	1.97	NRSM5UN2EB	2P	42	8.1	-	27	3	2.5	5	0(4)	010	○	
		G7(G4+39)	2.04	2	NRSM7UN2EP	4P	42	8.1	-	27	3	2.5	5	0(4)	010	○	
		G7(G4+39)	2.04	2	NRSM7UN2EB	2P	42	8.1	-	27	3	2.5	5	0(4)	010	○	
		G6(G4+26)	2.03	1.98	NRSM6UN2EP	4P	42	8.1	-	27	3	2.5	5	0(4)	010	○	
		G6(G4+26)	2.03	1.98	NRSM6UN2EB	2P	42	8.1	-	27	3	2.5	5	0(4)	010	○	
THREAD MILLS	No.3-48UNC	G4	2.31	2.25	NRSM4UN3FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
		G4	2.31	2.25	NRSM4UN3FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
		G5(G4+13)	2.32	2.26	NRSM5UN3FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
		G5(G4+13)	2.32	2.26	NRSM5UN3FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
DIES	No.4-40UNC	G5	2.61	2.54	NRSM5UN4HP	4P	46	9	14	26	4	3.2	6	0(4)	012	○	
		G5	2.61	2.54	NRSM5UN4HB	2P	46	9	14	26	4	3.2	6	0(4)	012	○	
		G6(G5+13)	2.62	2.55	NRSM6UN4HP	4P	46	9	14	26	4	3.2	6	0(4)	012	○	
		G6(G5+13)	2.62	2.55	NRSM6UN4HB	2P	46	9	14	26	4	3.2	6	0(4)	012	○	
		G7(G5+26)	2.63	2.57	NRSM7UN4HP	4P	46	9	14	26	4	3.2	6	0(4)	012	○	
CENTER DRILLS	No.5-40UNC	G7(G5+26)	2.63	2.57	NRSM7UN4HB	2P	46	9	14	26	4	3.2	6	0(4)	012	○	
		G5	2.94	2.87	NRSM5UN5HP	4P	52	11	16	28	5	4	7	1(4)	012	○	

Technical info

UNC	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
No.6-32UNC	G5	3.19	3.11	NRSM5UN6JP	4P	52	11	16	29	5	4	7	1(4)	012	○
	G5	3.19	3.11	NRSM5UN6JB	2P	52	11	16	29	5	4	7	1(4)	012	○
	G6(G5+13)	3.21	3.13	NRSM6UN6JP	4P	52	11	16	29	5	4	7	1(4)	012	○
	G6(G5+13)	3.21	3.13	NRSM6UN6JB	2P	52	11	16	29	5	4	7	1(4)	012	○
	G7(G5+26)	3.22	3.13	NRSM7UN6JP	4P	52	11	16	29	5	4	7	1(4)	012	○
	G7(G5+26)	3.22	3.13	NRSM7UN6JB	2P	52	11	16	29	5	4	7	1(4)	012	○
No.8-32UNC	G6	3.87	3.78	NRSM6UN8JP	4P	60	13	21	33	5.5	4.5	7	1(4)	012	○
	G6	3.87	3.78	NRSM6UN8JB	2P	60	13	21	33	5.5	4.5	7	1(4)	012	○
	G7(G6+13)	3.88	3.84	NRSM7UN8JP	4P	60	13	21	33	5.5	4.5	7	1(4)	012	○
	G7(G6+13)	3.88	3.84	NRSM7UN8JB	2P	60	13	21	33	5.5	4.5	7	1(4)	012	○
	G8(G6+26)	3.89	3.81	NRSM8UN8JP	4P	60	13	21	33	5.5	4.5	7	1(4)	012	○
No.10-24UNC	G6	4.41	4.3	NRSM6UNAMP	4P	60	13	22	33	5.5	4.5	7	1(4)	012	○
	G6	4.41	4.3	NRSM6UNAMB	2P	60	13	22	33	5.5	4.5	7	1(4)	012	○
	G7(G6+13)	4.42	4.31	NRSM7UNAMP	4P	60	13	22	33	5.5	4.5	7	1(4)	012	○
	G7(G6+13)	4.42	4.31	NRSM7UNAMB	2P	60	13	22	33	5.5	4.5	7	1(4)	012	○
1/4-20UNC	G6	5.85	5.71	NRSM6U04NP	4P	62	15	26	33	6	4.5	7	1(4)	012	○
	G6	5.85	5.71	NRSM6U04NB	2P	62	15	26	33	6	4.5	7	1(4)	012	○
	G7	5.86	5.73	NRSM7U04NP	4P	62	15	26	33	6	4.5	7	1(4)	012	○
	G7	5.86	5.73	NRSM7U04NB	2P	62	15	26	33	6	4.5	7	1(4)	012	○
	G8(G7+13)	5.88	5.74	NRSM8U04NP	4P	62	15	26	33	6	4.5	7	1(4)	012	○
	G8(G7+13)	5.88	5.74	NRSM8U04NB	2P	62	15	26	33	6	4.5	7	1(4)	012	○
JIS															
No.0-80UNF	G5	1.42	1.39	NRSM5UN0BP	4P	36	6.3	-	24	3	2.5	5	0(3)	010	○
	G5	1.42	1.39	NRSM5UN0BB	2P	36	6.3	-	24	3	2.5	5	0(3)	010	○
No.1-72UNF	G5	1.74	1.7	NRSM5UN1CP	4P	42	7.2	-	27	3	2.5	5	0(3)	010	○
	G5	1.74	1.7	NRSM5UN1CB	2P	42	7.2	-	27	3	2.5	5	0(3)	010	○
No.4-48UNF	G5	2.65	2.59	NRSM5UN4FP	4P	46	9	14	26	4	3.2	6	0(4)	012	○
	G5	2.65	2.59	NRSM5UN4FB	2P	46	9	14	26	4	3.2	6	0(4)	012	○
	G6(G5+13)	2.66	2.61	NRSM6UN4FP	4P	46	9	14	26	4	3.2	6	0(4)	012	○
	G6(G5+13)	2.66	2.61	NRSM6UN4FB	2P	46	9	14	26	4	3.2	6	0(4)	012	○
No.5-44UNF	G6	2.97	2.91	NRSM6UN5GB	2P	52	11	16	28	5	4	7	1(4)	012	○
No.6-40UNF	G5	3.26	3.19	NRSM5UN6HP	4P	52	11	16	29	5	4	7	1(4)	012	○
	G5	3.26	3.19	NRSM5UN6HB	2P	52	11	16	29	5	4	7	1(4)	012	○
No.8-36UNF	G5	3.89	3.81	NRSM5UN8IP	4P	60	13	21	33	5.5	4.5	7	1(4)	012	○
	G5	3.89	3.81	NRSM5UN8IB	2P	60	13	21	33	5.5	4.5	7	1(4)	012	○
	G6(G5+13)	3.9	3.82	NRSM6UN8IB	2P	60	13	21	33	5.5	4.5	7	1(4)	012	○
No.10-32UNF	G6	4.53	4.44	NRSM6UNAJP	4P	60	13	22	33	5.5	4.5	7	1(4)	012	○
	G6	4.53	4.44	NRSM6UNAJB	2P	60	13	22	33	5.5	4.5	7	1(4)	012	○
	G7(G6+13)	4.54	4.45	NRSM7UNAJP	4P	60	13	22	33	5.5	4.5	7	1(4)	012	○
	G7(G6+13)	4.54	4.45	NRSM7UNAJB	2P	60	13	22	33	5.5	4.5	7	1(4)	012	○
1/4-28UNF	G6	5.99	5.89	NRSM6U04KP	4P	62	15	26	33	6	4.5	7	1(4)	012	○
	G6	5.99	5.89	NRSM6U04KB	2P	62	15	26	33	6	4.5	7	1(4)	012	○
	G7	6	5.91	NRSM7U04KB	2P	62	15	26	33	6	4.5	7	1(4)	012	○

Intro

SP

SL

PO

ST

ROLL

JIS

CARBIDE

LONG

HAND
TAPS

EG (STI)

SPECIAL
THREADS,
GAUGESTHREAD
MILLS

DIES

CENTER
DRILLSTechnical
info

Intro **HP+RZ/HP-RZ**

MP Multi Purpose Series

High Performance Thread Forming Taps, Coated



FEATURES

Multi purpose forming taps for blind and through hole application on a wide range of materials.

Specific design, HSSP substrate and suitable coating for stable and long life even at medium-high speed.

Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)	ISO	Vc (m/min)	ISO	Vc (m/min)
P1	15÷30 ★	M1	10÷25 ★	N1	10÷45 ☆
P2	15÷30 ★	M2	10÷25 ★	N2	10÷45 ☆
P3	15÷25 ★				
P4	15÷25 ★				
P7	10÷25 ★				

★ 1st choice ☆ suitable

ROLL

JIS

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

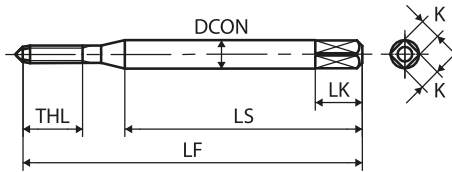
THREAD MILLS

DIES

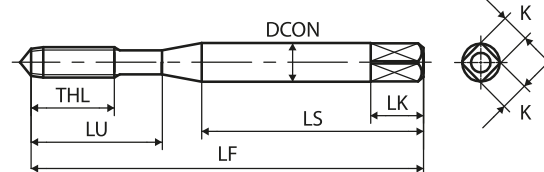
CENTER DRILLS

Technical info

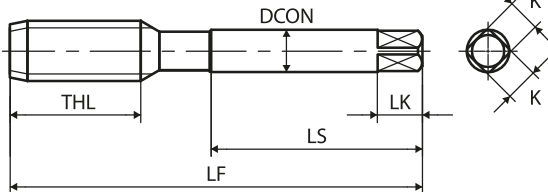
TYPE: ROLL_010



TYPE: ROLL_012



TYPE: ROLL_026



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock	Intro
		Max	Min													
JIS																
M1X0.25	G4	0.92	0.89	HRZP41.0BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	●	
M1.2X0.25	G4	1.11	1.09	HRZP41.2BB	2P	36	4.5	-	24	3	2.5	5	0(4)	010	●	SP
M1.4X0.3	G4	1.3	1.26	HRZP41.4CB	2P	36	5.4	-	24	3	2.5	5	0(4)	010	●	
M1.6X0.35	G4	1.46	1.43	HRZP41.6DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	●	
M1.7X0.35	G4	1.56	1.52	HRZP41.7DB	2P	36	6.3	-	24	3	2.5	5	0(4)	010	○	SL
M2X0.4	G4	1.83	1.79	HRZP42.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	1.84	1.8	HRZP52.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
M2.3X0.4	G4	2.13	2.09	HRZP42.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	
	G5(G4+13)	2.14	2.1	HRZP52.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	010	○	PO
M2.5X0.45	G5	2.32	2.27	HRZP52.5FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.34	2.29	HRZP62.5FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
M2.6X0.45	G5	2.42	2.37	HRZP52.6FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
	G6(G5+13)	2.44	2.39	HRZP62.6FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	ST
M3X0.5	G5	2.8	2.75	HRZP53.0GP	4P	46	9	14	26	4	3.2	6	4(4)	012	○	
	G5	2.8	2.75	HRZP53.0GB	2P	46	9	14	26	4	3.2	6	4(4)	012	○	
	G6(G5+13)	2.82	2.76	HRZP63.0GP	4P	46	9	14	26	4	3.2	6	4(4)	012	○	ROLL
	G6(G5+13)	2.82	2.76	HRZP63.0GB	2P	46	9	14	26	4	3.2	6	4(4)	012	○	JIS
M3.5X0.6	G5	3.25	3.19	HRZP53.5HP	4P	52	11	16	29	5	4	7	4(4)	012	○	
	G5	3.25	3.19	HRZP53.5HB	2P	52	11	16	29	5	4	7	4(4)	012	○	
	G6(G5+13)	3.26	3.2	HRZP63.5HP	4P	52	11	16	29	5	4	7	4(4)	012	○	CARBIDE
	G6(G5+13)	3.26	3.2	HRZP63.5HB	2P	52	11	16	29	5	4	7	4(4)	012	○	
M4X0.7	G6	3.72	3.65	HRZP64.0IP	4P	52	11	17	29	5	4	7	4(4)	012	○	
	G6	3.72	3.65	HRZP64.0IB	2P	52	11	17	29	5	4	7	4(4)	012	○	
	G7(G6+13)	3.74	3.66	HRZP74.0IP	4P	52	11	17	29	5	4	7	4(4)	012	○	LONG
	G7(G6+13)	3.74	3.66	HRZP74.0IB	2P	52	11	17	29	5	4	7	4(4)	012	○	
M5X0.8	G6	4.67	4.59	HRZP65.0KP	4P	60	13	22	33	5.5	4.5	7	4(4)	012	○	
	G6	4.67	4.59	HRZP65.0KB	2P	60	13	22	33	5.5	4.5	7	4(4)	012	○	HAND TAPS
	G7(G6+13)	4.68	4.6	HRZP75.0KP	4P	60	13	22	33	5.5	4.5	7	4(4)	012	○	
	G7(G6+13)	4.68	4.6	HRZP75.0KB	2P	60	13	22	33	5.5	4.5	7	4(4)	012	○	
M6X1	G6	5.58	5.47	HRZP66.0MP	4P	62	15	26	33	6	4.5	7	4(4)	012	○	
	G6	5.58	5.47	HRZP66.0MB	2P	62	15	26	33	6	4.5	7	4(4)	012	○	EG (STI)
	G7(G6+13)	5.59	5.49	HRZP76.0MP	4P	62	15	26	33	6	4.5	7	4(4)	012	○	
	G7(G6+13)	5.59	5.49	HRZP76.0MB	2P	62	15	26	33	6	4.5	7	4(4)	012	○	
M8X1.25	G7	7.49	7.37	HRZM78.0NP	4P	70	19	-	36	6.2	5	8	3(6)	026	○	SPECIAL THREADS, GAUGES
	G7	7.49	7.37	HRZM78.0NB	2P	70	19	-	36	6.2	5	8	3(6)	026	○	
	G8(G7+13)	7.51	7.37	HRZM88.0NP	4P	70	19	-	36	6.2	5	8	3(6)	026	○	
	G8(G7+13)	7.51	7.37	HRZM88.0NB	2P	70	19	-	36	6.2	5	8	3(6)	026	○	
M10X1.5	G7	9.38	9.22	HRZM70100P	4P	75	23	-	38	7	5.5	8	4(8)	026	○	THREAD MILLS
	G7	9.38	9.22	HRZM70100B	2P	75	23	-	38	7	5.5	8	4(8)	026	○	
	G8(G7+13)	9.39	9.23	HRZM80100P	4P	75	23	-	38	7	5.5	8	4(8)	026	○	
	G8(G7+13)	9.39	9.23	HRZM80100B	2P	75	23	-	38	7	5.5	8	4(8)	026	○	
M12X1.75	G8	11.28	11.09	HRZM8012PP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○	DIES
	G8	11.28	11.09	HRZM8012PB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
	G9(G8+13)	11.29	11.11	HRZM9012PP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
	G9(G8+13)	11.29	11.11	HRZM9012PB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○	CENTER DRILLS

Technical info

Forming Taps

Intro

	MF	TCTR (tolerance)		Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min	Max	Min												
JIS																	
SP	M10X1.25	G7	9.49	9.35	HRZM7010NP	4P	75	23	-	38	7	5.5	8	4(8)	026	○	
		G7	9.49	9.35	HRZM7010NB	2P	75	23	-	38	7	5.5	8	4(8)	026	○	
		G8(G7+13)	9.5	9.37	HRZM8010NP	4P	75	23	-	38	7	5.5	8	4(8)	026	○	
		G8(G7+13)	9.5	9.37	HRZM8010NB	2P	75	23	-	38	7	5.5	8	4(8)	026	○	
SL	M12X1.5	G8	11.38	11.22	HRZM80120P	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
		G8	11.38	11.22	HRZM80120B	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
		G9(G8+13)	11.39	11.23	HRZM90120P	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
		G9(G8+13)	11.39	11.23	HRZM90120B	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
PO	M12X1.25	G8	11.49	11.35	HRZM8012NP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
		G8	11.49	11.35	HRZM8012NB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
		G9	11.5	11.36	HRZM9012NP	4P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
		G9	11.5	11.36	HRZM9012NB	2P	82	26	-	42	8.5	6.5	9	4(8)	026	○	
ST	M14X1.5	G9	13.39	13.22	HRZM90140P	4P	88	26	-	45	10.5	8	11	4(8)	026	○	
		G9	13.39	13.22	HRZM90140B	2P	88	26	-	45	10.5	8	11	4(8)	026	○	
ROLL	M16X1.5	G9	15.38	15.22	HRZM90160P	4P	95	26	-	48	12.5	10	13	4(8)	026	○	
		G9	15.38	15.22	HRZM90160B	2P	95	26	-	48	12.5	10	13	4(8)	026	○	
JIS	M18X1.5	G9	17.38	17.22	HRZM90180P	4P	100	33	-	51	14	11	14	4(8)	026	○	
		G9	17.38	17.22	HRZM90180B	2P	100	33	-	51	14	11	14	4(8)	026	○	
CARBIDE	M20X1.5	G9	19.37	19.21	HRZM90200P	4P	105	33	-	50	15	12	15	4(8)	026	○	
		G9	19.37	19.21	HRZM90200B	2P	105	33	-	50	15	12	15	4(8)	026	○	

LONG

	UNC	TCTR (tolerance)		Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min	Max	Min												
JIS																	
LONG	No.2-56UNC	G4	2.01	1.96	HRZM4UN2EB	2P	42	8.1	-	27	3	2.5	5	0(3)	010	○	
		G5(G4+13)	2.02	1.97	HRZM5UN2EB	2P	42	8.1	-	27	3	2.5	5	0(3)	010	○	
HAND TAPS	No.3-48UNC	G4	2.31	2.25	HRZM4UN3FB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○	
		G5	2.61	2.54	HRZM5UN4HB	2P	46	9	14	26	4	3.2	6	0(4)	012	○	
EG (STI)	No.4-40UNC	G6(G5+13)	2.62	2.55	HRZM6UN4HB	2P	46	9	14	26	4	3.2	6	0(4)	012	○	
		G5	2.94	2.87	HRZM5UN5HP	4P	52	11	16	29	5	4	7	2(4)	012	○	
SPECIAL THREADS, GAUGES	No.5-40UNC	G5	2.94	2.87	HRZM5UN5HB	2P	52	11	16	29	5	4	7	2(4)	012	○	
		G5	3.19	3.11	HRZM5UN6JP	4P	52	11	16	29	5	4	7	2(4)	012	○	
THREAD MILLS	No.6-32UNC	G5	3.19	3.11	HRZM5UN6JB	2P	52	11	16	29	5	4	7	2(4)	012	○	
		G6(G5+13)	3.21	3.13	HRZM6UN6JP	4P	52	11	16	29	5	4	7	2(4)	012	○	
DIES	No.8-32UNC	G6(G5+13)	3.21	3.13	HRZM6UN6JB	2P	52	11	16	29	5	4	7	2(4)	012	○	
		G6	3.87	3.78	HRZM6UN8JP	4P	60	13	21	33	5.5	4.5	7	2(4)	012	○	
CENTER DRILLS	No.8-32UNC	G6	3.87	3.78	HRZM6UN8JB	2P	60	13	21	33	5.5	4.5	7	2(4)	012	○	
		G7(G6+13)	3.88	3.84	HRZM7UN8JP	4P	60	13	21	33	5.5	4.5	7	2(4)	012	○	
DIES	No.10-24UNC	G7(G6+13)	3.88	3.84	HRZM7UN8JB	2P	60	13	21	33	5.5	4.5	7	2(4)	012	○	
		G6	4.41	4.3	HRZM6UNAMP	4P	60	13	22	33	5.5	4.5	7	2(4)	012	○	
DIES	No.10-24UNC	G6	4.41	4.3	HRZM6UNAMB	2P	60	13	22	33	5.5	4.5	7	2(4)	012	○	
		G7(G6+13)	4.42	4.31	HRZM7UNAMP	4P	60	13	22	33	5.5	4.5	7	2(4)	012	○	
DIES	No.12-24UNC	G7(G6+13)	4.42	4.31	HRZM7UNAMB	2P	60	13	22	33	5.5	4.5	7	2(4)	012	○	
		G6	5.07	4.96	HRZM6UNCMP	4P	62	15	26	33	6	4.5	7	2(4)	012	○	
DIES	No.12-24UNC	G6	5.07	4.96	HRZM6UNCMB	2P	62	15	26	33	6	4.5	7	2(4)	012	○	
		G7	5.86	5.73	HRZM7U04NP	4P	62	15	26	33	6	4.5	7	2(4)	012	○	
DIES	1/4-20UNC	G7	5.86	5.73	HRZM7U04NB	2P	62	15	26	33	6	4.5	7	2(4)	012	○	

Technical info

UNF	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
No.2-64UNF	G4	2.03	1.98	HRZM4UN2DB	2P	42	8.1	-	27	3	2.5	5	0(3)	010	○
No.3-56UNF	G4	2.34	2.29	HRZM4UN3EB	2P	46	8.1	14	29	3	2.5	5	0(4)	012	○
No.4-48UNF	G5	2.65	2.59	HRZM5UN4FB	2P	46	9	14	26	4	3.2	6	0(4)	012	○
No.5-44UNF	G5	2.96	2.9	HRZM5UN5GP	4P	52	11	16	29	5	4	7	2(4)	012	○
	G5	2.96	2.9	HRZM5UN5GB	2P	52	11	16	29	5	4	7	2(4)	012	○
No.6-40UNF	G5	3.26	3.19	HRZM5UN6HP	4P	52	11	16	29	5	4	7	2(4)	012	○
	G5	3.26	3.19	HRZM5UN6HB	2P	52	11	16	29	5	4	7	2(4)	012	○
No.8-36UNF	G6(G5+13)	3.9	3.82	HRZM6UN8IP	4P	60	13	21	33	5.5	4.5	7	2(4)	012	○
	G6(G5+13)	3.9	3.82	HRZM6UN8IB	2P	60	13	21	33	5.5	4.5	7	2(4)	012	○
No.10-32UNF	G6	4.53	4.44	HRZM6UNAJP	4P	60	13	22	33	5.5	4.5	7	2(4)	012	○
	G6	4.53	4.44	HRZM6UNAJB	2P	60	13	22	33	5.5	4.5	7	2(4)	012	○
	G7(G6+13)	4.54	4.45	HRZM7UNAJP	4P	60	13	22	33	5.5	4.5	7	2(4)	012	○
	G7(G6+13)	4.54	4.45	HRZM7UNAJB	2P	60	13	22	33	5.5	4.5	7	2(4)	012	○
No.12-28UNF	G6	5.13	5.03	HRZM6UNCKP	4P	62	15	26	33	6	4.5	7	2(4)	012	○
	G6	5.13	5.03	HRZM6UNCKB	2P	62	15	26	33	6	4.5	7	2(4)	012	○
1/4-28UNF	G7	6	5.91	HRZM7U04KP	4P	62	15	26	33	6	4.5	7	2(4)	012	○
	G7	6	5.91	HRZM7U04KB	2P	62	15	26	33	6	4.5	7	2(4)	012	○

Intro

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ROLL

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CARBIDE

LONG

HAND
TAPS

EG (STI)

SPECIAL
THREADS,
GAUGESTHREAD
MILLS

DIES

CENTER
DRILLSTechnical
info

Intro

SURZ

MP Multi Purpose Series

Thread Forming Taps for Stainless Steel, Coated



SP

SL



PO

Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)	★	ISO	Vc (m/min)	★
P1	15÷30	★	M1	10÷25	★
P2	15÷30	★	M2	10÷25	★
P3	15÷25	★			
P4	15÷25	★			
P7	10÷25	★			

★ 1st choice ☆ suitable

ST

ROLL

JIS

Product Features

- Adopting the special form on thread root, SURZ controls the minor diameter geometry of internal threads.
- Special lobe shape reduces the tapping torque.
- High efficiency can be obtained in thread forming of stainless steel parts.
- The minor diameter geometry of internal threads can be adjusted modifying the bored hole size.

CARBIDE

LONG

Process Data

M2x0.4

Work-material	AISI 304 - 1.4301
Tapping length	5.2mm (Blind hole)
Tapping speed	5m/min
Bored hole	ø1.85 - ø1.82
Machine	Machining center (BT15)
Feed	Rigid
Tapping direction	Vertical
Lubricant	Water soluble oil (×20)

M2x0.4 6H internal thread minor diameter and tolerance	
Max.	1.679
Min.	1.567
Tolerance	0.112

Recommended bored hole diameter before tapping

Unit : mm

Size	Class	Recommended bored hole size
M1X0.25	G4	0.90
M1.2X0.25	G4	1.10
M1.4X0.3	G4	1.28
M1.6X0.2	G3	1.52
M1.6X0.35	G4	1.46
M1.7X0.35	G4	1.56
M2X0.4	G4	1.82
M2.3X0.4	G4	2.12
M2.5X0.45	G4	2.30
M2.6X0.45	G5	2.40
M3X0.5	G5	2.77
No.2-56UNC	G4	1.98
No.4-40UNC	G5	2.55
No.6-32UNC	G5	3.14

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

THREAD MILLS

DIES

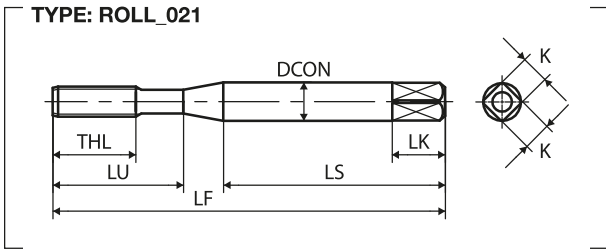
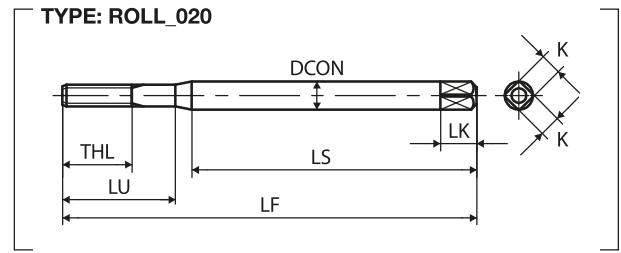
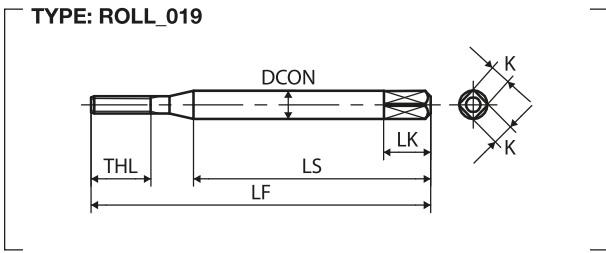
CENTER DRILLS

Technical info

Bored hole size	φ1.82	φ1.81
Cross section picture of internal threads		
Seam shape	Small seams	No seam
Minor diameter	φ1.59	φ1.58
Bored hole size	φ1.84	φ1.83
Cross section picture of internal threads		
Seam shape	Regular seams	Small seams
Minor diameter	φ1.62	φ1.60

Based on our tapping test experiences the recommended bored hole diameters shown in above table have been calculated aiming at 90% thread engagement and trying to avoid tap breakage.

Recommended bore hole diameter may change because material deformation can slightly change depending on material, hardness, dimension of workpiece and tapping condition.



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
M1X0.25	G4	0.92	0.89	SURZ41.0BB	2P	36	4.5	-	24	3	2.5	5	0(4)	019	○
M1.2X0.25	G4	1.11	1.09	SURZ41.2BB	2P	36	4.5	-	24	3	2.5	5	0(4)	019	○
M1.4X0.3	G4	1.3	1.26	SURZ41.4CB	2P	36	5.4	-	24	3	2.5	5	0(4)	019	○
M1.6X0.35	G4	1.46	1.43	SURZ41.6DB	2P	36	6.3	-	24	3	2.5	5	0(4)	019	○
M1.7X0.35	G4	1.56	1.52	SURZ41.7DB	2P	36	6.3	-	24	3	2.5	5	0(4)	019	○
M2X0.4	G4	1.83	1.79	SURZ42.0EB	2P	42	7.2	-	27	3	2.5	5	0(4)	020	○
M2.3X0.4	G4	2.13	2.09	SURZ42.3EB	2P	42	7.2	-	27	3	2.5	5	0(4)	020	○
M2.5X0.45	G4	2.31	2.26	SURZ42.5FB	2P	46	8.1	14	29	3	2.5	5	0(4)	021	○
M2.6X0.45	G5	2.42	2.37	SURZ52.6FB	2P	46	8.1	14	29	3	2.5	5	0(4)	021	○
M3X0.5	G5	2.8	2.75	SURZ53.0GB	2P	46	9	14	26	4	3.2	6	2(4)	021	○
MF															
	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
M1.6X0.2	G3	1.53	1.5	SURZ31.6AB	2P	36	3.6	-	24	3	2.5	5	0(4)	019	○
UNC															
	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
No.2-56UNC	G4	2.01	1.96	SURZ4UN2EB	2P	42	8.1	-	27	3	2.5	5	0(3)	020	○
No.4-40UNC	G5	2.61	2.54	SURZ5UN4HB	2P	46	9	14	26	4	3.2	6	0(4)	021	○
No.6-32UNC	G5	3.19	3.11	SURZ5UN6JB	2P	52	11	16	29	5	4	7	2(4)	021	○

Intro
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ROLL
JIS

CARBIDE

LONG

HAND
TAPS

EG (STI)

SPECIAL
THREADS,
GAUGES

THREAD
MILLS

DIES

CENTER
DRILLS

Technical
info

Intro

SC-TL-RZ

MP Multi Purpose Series

Torqueless Thread Forming Taps with short chamfer, Coated



SP

SL



PO

Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)	ISO	Vc (m/min)	ISO	Vc (m/min)
P1	15÷30 ★	M1	10÷25 ★	N1	10÷45 ☆
P2	15÷30 ★	M2	10÷25 ★	N2	10÷45 ☆
P3	15÷25 ★				
P4	15÷25 ★				
P7	10÷25 ★				

★ 1st choice ☆ suitable

ST

ROLL

JIS

CARBIDE

Product Features

- SC-TL-RZ results in longer tool life while producing high quality internal threads with little burrs.
- Suitable for tapping hard-to-machine materials of lower ductility.
- Longer tool life under water soluble oil.
- Wider tapping application range up to higher speed tapping.

LONG

Applicable materials:

- Stainless steel: AISI303, 304, 316
- Alloy steel: 42CrMo4
- Carbon steel: C45-C50
- Aluminum alloy casting and die casting

HAND TAPS

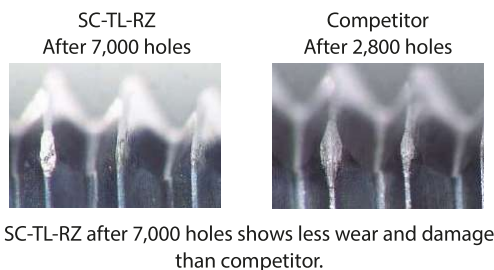
Process Data

M3×0.5

Work-material	40CrMo4 - 1.7225 (32HRC)
Tapping depth	4.5 mm
Tapping speed	20 m/min
Bored hole	ø2.8
Machine	Tapping center
Lubricant	Water soluble oil (×10)

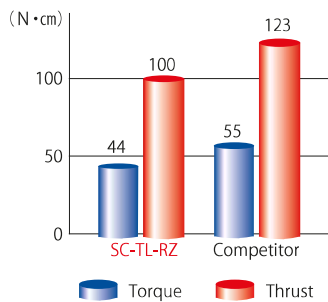
EG (STI)

SPECIAL THREADS, GAUGES



SC-TL-RZ after 7,000 holes shows less wear and damage than competitor.

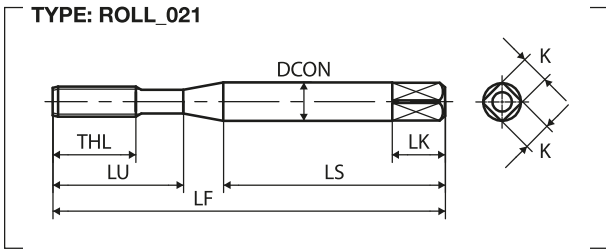
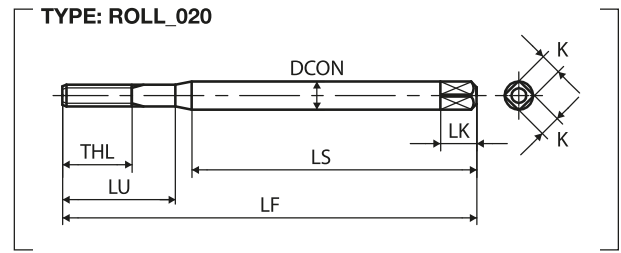
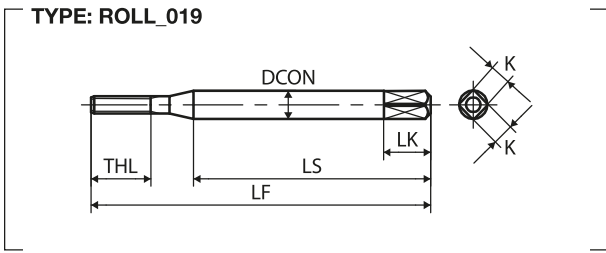
THREAD MILLS



DIES

CENTER DRILLS

Technical info



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
M1X0.25	G4	0.92	0.89	SRZM41.0B1	1P	36	4.5	-	24	3	2.5	5	0(4)	019	●
M1.2X0.25	G4	1.11	1.09	SRZM41.2B1	1P	36	4.5	-	24	3	2.5	5	0(4)	019	●
M1.4X0.3	G4	1.3	1.26	SRZM41.4C1	1P	36	5.4	-	24	3	2.5	5	0(4)	019	●
M1.6X0.35	G4	1.46	1.43	SRZM41.6D1	1P	36	6.3	-	24	3	2.5	5	0(4)	019	●
M1.7X0.35	G4	1.56	1.52	SRZM41.7D1	1P	36	6.3	-	24	3	2.5	5	0(4)	019	○
M2X0.4	G4	1.83	1.79	SRZM42.0E1	1P	42	7.2	-	27	3	2.5	5	0(4)	020	●
M2.5X0.45	G5	2.32	2.27	SRZM52.5F1	1P	46	8.1	14	29	3	2.5	5	0(4)	021	●
M2.6X0.45	G5	2.42	2.37	SRZM52.6F1	1P	46	8.1	14	29	3	2.5	5	0(4)	021	○
M3X0.5	G5	2.8	2.75	SRZM53.0G1	1P	46	9	14	26	4	3.2	6	2(4)	021	●
M4X0.7	G6	3.72	3.65	SRZM64.0I1	1P	52	11	17	29	5	4	7	2(4)	021	●
M5X0.8	G6	4.67	4.59	SRZM65.0K1	1P	60	13	22	33	5.5	4.5	7	2(4)	021	●
M6X1	G6	5.58	5.47	SRZM66.0M1	1P	62	15	26	33	6	4.5	7	2(4)	021	●
MF															
MF	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
M1.4X0.2	G3	1.33	1.3	SRZM31.4A1	1P	36	3.6	-	24	3	2.5	5	0(4)	019	○
M1.6X0.2	G3	1.53	1.5	SRZM31.6A1	1P	36	3.6	-	24	3	2.5	5	0(4)	019	○
UNC															
UNC	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
No.2-56UNC	G4	2.01	1.96	SRZM4UN2E1	1P	42	8.1	-	27	3	2.5	5	0(3)	020	○
No.4-40UNC	G5	2.61	2.54	SRZM5UN4H1	1P	46	9	14	25	4	3.2	6	0(4)	021	○

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ROLL
JIS
CARBIDE
LONG
HAND TAPS
EG (STI)
SPECIAL THREADS, GAUGES
THREAD MILLS
DIES
CENTER DRILLS
Technical info

Intro

OL+RZ/OL-RZ

MP Multi Purpose Series

Thread Forming Taps for Dry Tapping, Coated



SP

SL



FEATURES

Dry Series forming taps for blind and through hole application.

Specific design, HSSP substrate and suitable coating for stable and long life even in difficult condition such as dry or MQL tapping.

For steel, stainless steel and non-ferrous materials.

PO

Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)	ISO	Vc (m/min)	ISO	Vc (m/min)
P1	15÷30 ★	M1	10÷25 ★	N1	10÷45 ☆
P2	15÷30 ★	M2	10÷25 ★	N2	10÷45 ☆
P3	15÷25 ★				
P4	15÷25 ★				
P7	10÷25 ★				

★ 1st choice ☆ suitable

ST

ROLL

JIS

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

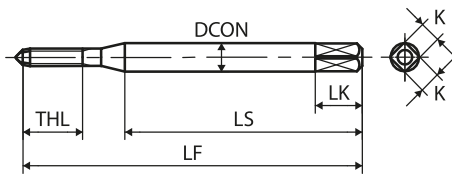
THREAD MILLS

DIES

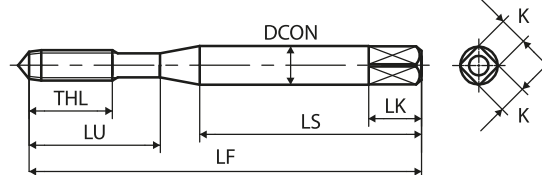
CENTER DRILLS

Technical info

TYPE: ROLL_010



TYPE: ROLL_012



M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
M1X0.25	G4	0.92	0.89	OLRZP41.0BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○
M1.2X0.25	G4	1.11	1.09	OLRZP41.2BP	4P	36	4.5	-	24	3	2.5	5	0(4)	010	○
M1.4X0.3	G4	1.3	1.26	OLRZP41.4CP	4P	36	5.4	-	24	3	2.5	5	0(4)	010	○
M1.6X0.35	G4	1.46	1.43	OLRZP41.6DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○
	G6(G4+26)	1.49	1.45	OLRZP61.6DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○
M1.7X0.35	G4	1.56	1.52	OLRZP41.7DP	4P	36	6.3	-	24	3	2.5	5	0(4)	010	○
M2X0.4	G4	1.83	1.79	OLRZP42.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○
	G5(G4+13)	1.84	1.8	OLRZP52.0EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○
M2.3X0.4	G4	2.13	2.09	OLRZP42.3EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○
	G5(G4+13)	2.14	2.1	OLRZP52.3EP	4P	42	7.2	-	27	3	2.5	5	0(4)	010	○
M2.5X0.45	G5	2.32	2.27	OLRZP52.5FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○
	G6(G5+13)	2.34	2.29	OLRZP62.5FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○
M2.6X0.45	G5	2.42	2.37	OLRZP52.6FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○
	G6(G5+13)	2.44	2.39	OLRZP62.6FP	4P	46	8.1	14	29	3	2.5	5	0(4)	012	○
M3X0.5	G5	2.8	2.75	OLRZP53.0GP	4P	46	9	14	26	4	3.2	6	0(4)	012	○
	G6(G5+13)	2.82	2.76	OLRZP63.0GP	4P	46	9	14	26	4	3.2	6	0(4)	012	○

M	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (mm)	THL (mm)	LU (mm)	LS (mm)	DCON (mm)	K (mm)	LK (mm)	NOF (Lobes)	Type	Stock
		Max	Min												
JIS															
M3.5X0.6	G5	3.25	3.19	OLRZP53.5HP	4P	52	11	16	29	5	4	7	0(4)	012	○
	G6(G5+13)	3.26	3.2	OLRZP63.5HP	4P	52	11	16	29	5	4	7	0(4)	012	○
M4X0.7	G6	3.72	3.65	OLRZP64.0IP	4P	52	11	17	29	5	4	7	0(4)	012	○
	G7(G6+13)	3.74	3.66	OLRZP74.0IP	4P	52	11	17	29	5	4	7	0(4)	012	○
M5X0.8	G6	4.67	4.59	OLRZP65.0KP	4P	60	13	22	33	5.5	4.5	7	0(4)	012	○
	G7(G6+13)	4.68	4.6	OLRZP75.0KP	4P	60	13	22	33	5.5	4.5	7	0(4)	012	○
M6X1	G6	5.58	5.47	OLRZP66.0MP	4P	62	15	26	33	6	4.5	7	0(4)	012	○
	G7(G6+13)	5.59	5.49	OLRZP76.0MP	4P	62	15	26	33	6	4.5	7	0(4)	012	○

Intro

SP

SL

PO

ST

ROLL

JIS

CARBIDE

LONG

HAND
TAPS

EG (STI)

SPECIAL
THREADS,
GAUGESTHREAD
MILLS

DIES

CENTER
DRILLSTechnical
info

Intro **HP+RZ/HP-RZ**

MP Multi Purpose Series

High Performance Thread Forming Taps, Coated



FEATURES

Multi purpose forming taps for blind and through hole application on a wide range of materials.

Specific design, HSSP substrate and suitable coating for stable and long life even at medium-high speed.

Recommended Tapping Speeds Depending On Materials

ISO	Vc (m/min)	★	ISO	Vc (m/min)	★	ISO	Vc (m/min)	☆
P1	15÷30	★	M1	10÷25	★	N1	10÷45	☆
P2	15÷30	★	M2	10÷25	★	N2	10÷45	☆
P3	15÷25	★						
P4	15÷25	★						
P7	10÷25	★						

★ 1st choice ☆ suitable

ROLL

ANSI

CARBIDE

LONG

HAND TAPS

EG (STI)

SPECIAL THREADS, GAUGES

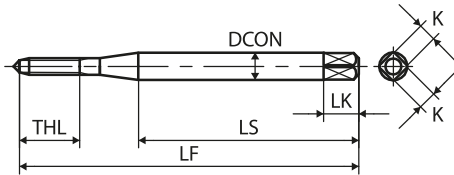
THREAD MILLS

DIES

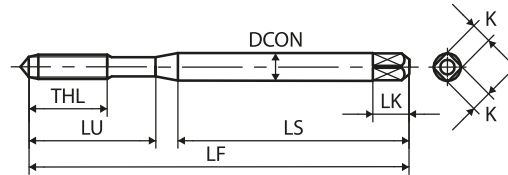
CENTER DRILLS

Technical info

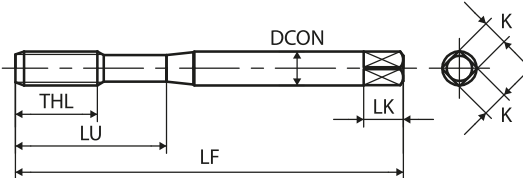
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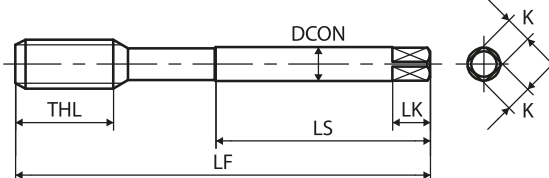
TYPE: US_005



TYPE: US_006



TYPE: US_007



UNC	TCTR (tolerance)	Bored Hole Ø (mm)		Code	THCHT (chamfer)	LF (inch)	THL (inch)	LU (inch)	LS (inch)	DCON (inch)	K (inch)	LK (inch)	NOF (Lobes)	Type	Stock
		Max	Min												
ANSI															
No.2-56UNC	H3	1.99	1.97	386801M	2P	1.772	0.314	-	1.161	0.141	0.11	0.187	0(4)	004	○
No.3-48UNC	H3	2.3	2.27	386802M	2P	2.205	0.354	0.669	1.28	0.141	0.11	0.187	0(4)	005	○
No.4-40UNC	H3	2.58	2.55	386804M	2P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	0(4)	005	○
	H5	2.61	2.57	386805M	2P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	0(4)	005	○
No.5-40UNC	H5	2.94	2.9	386799M	2P	2.205	0.433	0.768	1.358	0.141	0.11	0.187	2(4)	005	○
No.6-32UNC	H3	3.17	3.13	386810M	4P	2.205	0.433	0.787	1.358	0.141	0.11	0.187	2(4)	005	○
	H3	3.17	3.13	386808M	2P	2.205	0.433	0.787	1.358	0.141	0.11	0.187	2(4)	005	○
	H5	3.19	3.15	386811M	4P	2.205	0.433	0.787	1.358	0.141	0.11	0.187	2(4)	005	○
	H5	3.19	3.15	386809M	2P	2.205	0.433	0.787	1.358	0.141	0.11	0.187	2(4)	005	●
No.8-32UNC	H3	3.83	3.79	386814M	4P	2.48	0.512	0.827	1.535	0.168	0.131	0.25	2(4)	005	○
	H3	3.83	3.79	386812M	2P	2.48	0.512	0.827	1.535	0.168	0.131	0.25	2(4)	005	○
	H5	3.85	3.81	386815M	4P	2.48	0.512	0.827	1.535	0.168	0.131	0.25	2(4)	005	○
	H5	3.85	3.81	386813M	2P	2.48	0.512	0.827	1.535	0.168	0.131	0.25	2(4)	005	●
No.10-24UNC	H4	4.99	4.33	386818M	4P	2.756	0.551	0.984	1.654	0.194	0.152	0.25	2(4)	005	○
	H4	4.99	4.33	386816M	2P	2.756	0.551	0.984	1.654	0.194	0.152	0.25	2(4)	005	○
	H6	4.41	4.35	386819M	4P	2.756	0.551	0.984	1.654	0.194	0.152	0.25	2(4)	005	○
	H6	4.41	4.35	386817M	2P	2.756	0.551	0.984	1.654	0.194	0.152	0.25	2(4)	005	●
1/4-20UNC	H4	5.83	5.76	386826M	4P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2(4)	005	○
	H4	5.83	5.76	386824M	2P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2(4)	005	○
	H6	5.85	5.78	386827M	4P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2(4)	005	○
	H6	5.85	5.78	386825M	2P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	2(4)	005	●
5/16-18UNC	H5	7.36	7.28	386834M	4P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3(6)	006	○
	H5	7.36	7.28	386832M	2P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3(6)	006	○
	H7	7.38	7.31	386835M	4P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3(6)	006	○
	H7	7.38	7.31	386833M	2P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3(6)	006	●
3/8-16UNC	H5	8.86	8.78	386842M	4P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	3(6)	006	○
	H5	8.86	8.78	386840M	2P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	3(6)	006	○
	H7	8.89	8.8	386843M	4P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	3(6)	006	○
	H7	8.89	8.8	386841M	2P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	3(6)	006	●
7/16-14UNC	H5	10.35	10.26	386850M	4P	3.937	0.906	-	2.008	0.323	0.242	0.406	4(8)	007	○
	H5	10.35	10.26	386848M	2P	3.937	0.906	-	2.008	0.323	0.242	0.406	4(8)	007	○
	H7	10.38	10.28	386851M	4P	3.937	0.906	-	2.008	0.323	0.242	0.406	4(8)	007	○
	H7	10.38	10.28	386849M	2P	3.937	0.906	-	2.008	0.323	0.242	0.406	4(8)	007	○
1/2-13UNC	H5	11.88	11.77	386858M	4P	4.331	1.024	-	2.205	0.367	0.275	0.437	4(8)	007	○
	H5	11.88	11.77	386856M	2P	4.331	1.024	-	2.205	0.367	0.275	0.437	4(8)	007	○
	H7	11.9	11.8	386859M	4P	4.331	1.024	-	2.205	0.367	0.275	0.437	4(8)	007	○
	H7	11.9	11.8	386857M	2P	4.331	1.024	-	2.205	0.367	0.275	0.437	4(8)	007	○
ANSI															
No.0-80UNF	H2	1.39	1.37	386800M	2P	1.772	0.236	-	1.161	0.141	0.11	0.187	0(3)	004	○
No.3-56UNF	H3	2.32	2.3	386803M	2P	2.205	0.354	0.669	1.28	0.141	0.11	0.187	0(4)	005	○
No.4-48UNF	H3	2.62	2.6	386806M	2P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	0(4)	005	○
	H5	2.65	2.62	386807M	2P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	0(4)	005	○

The most suitable GH tap class to cut accurate 2B, 3B (UNJ) and 2B oversized internal threads tolerance, depends on application conditions and work-piece materials. Yamawa GH class system offers a wide range of alternative tap classes allowing each customer to select the most suitable one according to application requirement. Check page 673 of Technical info for full details.

Forming Taps

Intro

UNF

TCTR
(tolerance)

Bored Hole Ø (mm)
Max Min

Code

THCHT
(chamfer)

LF
(inch)

THL
(inch)

LU
(inch)

LS
(inch)

DCON
(inch)

K
(inch)

LK
(inch)

NOF
(Lobes)

Type

Stock

ANSI

SP

No.10-32UNF

H4

4.5

4.46

386822M

4P

2.756

0.551

0.984

1.654

0.194

0.152

0.25

2(4)

005

○

H4

4.5

4.46

386820M

2P

2.756

0.551

0.984

1.654

0.194

0.152

0.25

2(4)

005

●

H6

4.53

4.48

386823M

4P

2.756

0.551

0.984

1.654

0.194

0.152

0.25

2(4)

005

○

H6

4.53

4.48

386821M

2P

2.756

0.551

0.984

1.654

0.194

0.152

0.25

2(4)

005

○

SL

1/4-28UNF

H4

5.96

5.92

386830M

4P

3.15

0.591

1.181

1.713

0.255

0.191

0.312

2(4)

005

○

H4

5.96

5.92

386828M

2P

3.15

0.591

1.181

1.713

0.255

0.191

0.312

2(4)

005

○

H6

5.99

5.94

386831M

4P

3.15

0.591

1.181

1.713

0.255

0.191

0.312

2(4)

005

○

H6

5.99

5.94

386829M

2P

3.15

0.591

1.181

1.713

0.255

0.191

0.312

2(4)

005

●

PO

5/16-24UNF

H5

7.5

7.45

386838M

4P

3.543

0.748

1.378

1.831

0.318

0.238

0.375

3(6)

006

○

H5

7.5

7.45

386836M

2P

3.543

0.748

1.378

1.831

0.318

0.238

0.375

3(6)

006

○

H7

7.53

7.47

386839M

4P

3.543

0.748

1.378

1.831

0.318

0.238

0.375

3(6)

006

○

H7

7.53

7.47

386837M

2P

3.543

0.748

1.378

1.831

0.318

0.238

0.375

3(6)

006

●

ST

3/8-24UNF

H5

9.08

9.02

386846M

4P

3.937

0.906

1.535

2.028

0.381

0.286

0.437

3(6)

006

○

H5

9.08

9.02

386844M

2P

3.937

0.906

1.535

2.028

0.381

0.286

0.437

3(6)

006

○

H7

9.1

9.04

386847M

4P

3.937

0.906

1.535

2.028

0.381

0.286

0.437

3(6)

006

○

H7

9.1

9.04

386845M

2P

3.937

0.906

1.535

2.028

0.381

0.286

0.437

3(6)

006

●

ROLL

ANSI

7/16-20UNF

H5

10.58

10.51

386854M

4P

3.937

0.906

-

2.008

0.323

0.242

0.406

4(8)

007

○

H5

10.58

10.51

386852M

2P

3.937

0.906

-

2.008

0.323

0.242

0.406

4(8)

007

○

H7

10.6

10.54

3868