

Intro

HP+RZ/HP-RZ

MP Multi Purpose Series

High Performance Thread Forming Taps, Coated



SP

SL

PO

ST

ROLL

DIN

CARBIDE

LONG

HAND
TAPS

EG (STI)

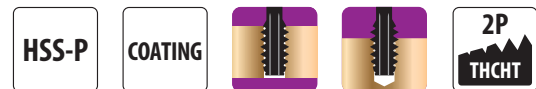
SPECIAL
THREADS,
GAUGES

THREAD
MILLS

DIES

CENTER
DRILLS

Technical
info



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	★						

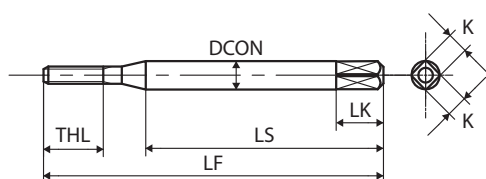
★ 1st choice ☆ suitable

FEATURES

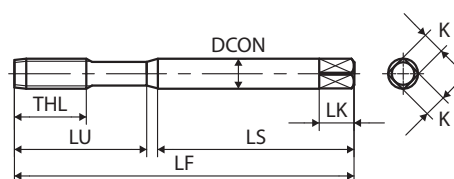
Multi purpose forming taps for blind and through hole application on a wide range of materials.

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

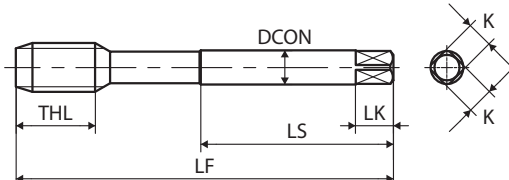
TYPE: SP_025



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												
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	●
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	○
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	○
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	○
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	○
	G6(G5+13)	2.82	2.76	HRZP63.0GB	2P	46	9	14	26	4	3.2	6	4(4)	012	○
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	○
	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	○
	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	○
	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	○
	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	○
	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	○
	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	○
	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
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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	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	○
	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															
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	○
	No.4-40UNC	G5	2.61	2.54	HRZM5UN4HB	2P	46	9	14	26	4	3.2	6	0(4)	012	○
		G6(G5+13)	2.62	2.55	HRZM6UN4HB	2P	46	9	14	26	4	3.2	6	0(4)	012	○
	No.5-40UNC	G5	2.94	2.87	HRZM5UN5HP	4P	52	11	16	29	5	4	7	2(4)	012	○
G5		2.94	2.87	HRZM5UN5HB	2P	52	11	16	29	5	4	7	2(4)	012	○	
EG (STI)	No.6-32UNC	G5	3.19	3.11	HRZM5UN6JP	4P	52	11	16	29	5	4	7	2(4)	012	○
		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	○
		G6(G5+13)	3.21	3.13	HRZM6UN6JB	2P	52	11	16	29	5	4	7	2(4)	012	○
SPECIAL THREADS, GAUGES	No.8-32UNC	G6	3.87	3.78	HRZM6UN8JP	4P	60	13	21	33	5.5	4.5	7	2(4)	012	○
		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	○
		G7(G6+13)	3.88	3.84	HRZM7UN8JB	2P	60	13	21	33	5.5	4.5	7	2(4)	012	○
THREAD MILLS	No.10-24UNC	G6	4.41	4.3	HRZM6UNAMP	4P	60	13	22	33	5.5	4.5	7	2(4)	012	○
		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	○
		G7(G6+13)	4.42	4.31	HRZM7UNAMB	2P	60	13	22	33	5.5	4.5	7	2(4)	012	○
DIES	No.12-24UNC	G6	5.07	4.96	HRZM6UNCMP	4P	62	15	26	33	6	4.5	7	2(4)	012	○
		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	○
		G7	5.86	5.73	HRZM7U04NB	2P	62	15	26	33	6	4.5	7	2(4)	012	○
CENTER DRILLS	1/4-20UNC	G7	5.86	5.73	HRZM7U04NP	4P	62	15	26	33	6	4.5	7	2(4)	012	○
		G7	5.86	5.73	HRZM7U04NB	2P	62	15	26	33	6	4.5	7	2(4)	012	○

Technical
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