

Extra-Hard Roll Tap

Evolved Roll tap for medium hard carbon steels and alloy steels (~40HRC)!











Specifications









Tapping speed depending on materials











For sizes M14 and larger, please use a tapping speed 30% lower than pictured above.

Product Features



A little longer is better!

A semi-long shape allows for more efficient external lubrication and achieves excellent machining results.



Improved torque reduction!

The combination of a unique thread relief and a coating that maximizes the benefits of surface treatments results in reduced torque and improved welding-resistance.



Optimized flute shape!

A slightly wider flute means a higher volume of lubricant can be applied, resulting in improved lubricity and cooling abilities.



Optimized for medium-hard steels!

Adopting a tool material suitable for the work materials in combination with a special coating means EHRZ is suitable for medium-hard steels up to 40HRC as well as stainless steels.

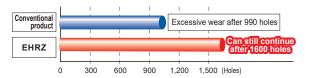
Tanning conditions: FHR7 G8 M6X1 B

Tapping Conditions. Enkz Go Mox I B							
SCM440(40HRC)							
Φ 5.53mm							
12mm							
Vertical Machining Center							
20m/min							
Fully synchronous feed							
Water soluble tapping fluid (1:20 diluted solution)							

Initial torque data

(N·cm) **EHRZ Conventional product** 800 700 600 500 400 300 200 100 700 600 500 400 300 200 100 -100 -200 -300 -400

EHRZ has a 20% lower torque compared to conventional products!

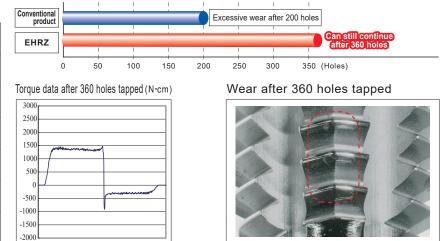




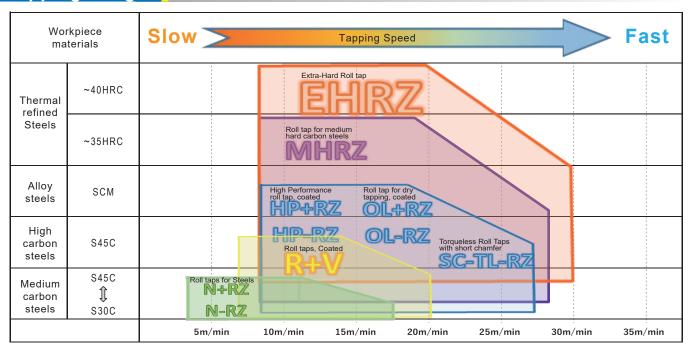
Tapping Data

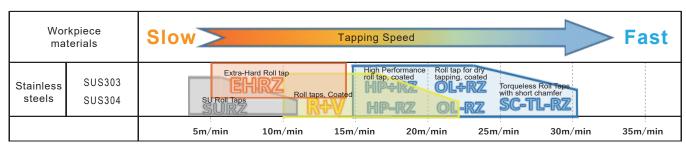
Tapping conditions: EHRZ G8 M12X1.25 B

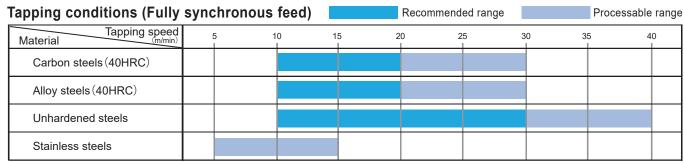
Workpiece material	SCM440(40HRC)
Bored hole size	Φ11.4mm
Tapping length	24mm
Machine	Vertical Machining Center
Tapping speed	20m/min
Feed	Fully synchronous feed
Tapping fluid	Water soluble tapping fluid (1:20 diluted solution)



Tapping Range



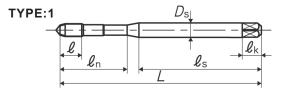


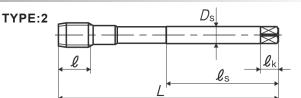


^{*}For stainless steels, insoluble tapping fluid is recommended. For sizes M14 and larger, please use a tapping speed 30% lower than pictured above.



Shape and dimensions





	Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓ n (mm)	Ds (mm)	ℓs (mm)	TYPE	MSRP(JPY)	
	M3×0.5	G6	1120101035	4P	56	5	18	4	32	1	4,230	
	IVI3^U.5	- 00	1121101035	2P	- 00	- O	10	-		'	4,230	
	M4×0.7	G7	1120101042	4P	63	7	21	5	36	1	4,350	
			1121101042	2P	00	1	21	3	30	!	4,350	
	M5×0.8	G7	1120101049	4P	70	9	25	5.5	40	1	4,620	
			1121101049	2P	/ 0	9	25	5.5	40	'	4,620	
	M6×1	G8	1120101055	4P	80	11	30	6	45	1	4,950	
	IVIO ^ I	Go	1121101055	2P	80	П	30	0	43		4,950	
	M0×4.05	G8	1120101064	4P	00	12		6.2	46	,	6,690	
L	M8×1.25		1121101064	2P	90	12	-	0.2	46	2	6,690	
	M8×1	00	1120101065	4P		40		0.0	40		7,360	
	IVIO× I	G8	1121101065	2P	90 1	12	-	6.2	46	2	7,360	
	M404. F	60	1120101078	4P	100	10		7	5 4		8,300	
	M10×1.5	G8	1121101078	2P	100	13	-	7	51	2	8,300	
	M40::4.05	00	1120101079	4P	400	40		_	54	0	8,300	
	M10×1.25	G8	1121101079	2P	100	13	-	7	51	2	8,300	
	M10×1		1120101080	4P				_		_	9,130	
		G8	1121101080	2P	100	13	-	7	51	2	9,130	
	M12×1.75 G		1120101088 4P	4P						_	11,700	
		□ G8	1121101088	2P	110	15	-	8.5	56	2	11,700	
	M12×1.5	G8	1120101089	4P	4P 110					_	11,700	
			1121101089	2P) 15	-	8.5	56	2	11,700	
	M12×1.25	G8 -	1120101090	4P	110						11,700	
			1121101090	2P		15	-	8.5	56	2	11,700	
	M12×1		1120101091	4P							13,500	
		M12×1	G8	G8	1121101091	2P	110	15	-	8.5	56	2
		M14×2 G10 11	1120101100	4P								16,500
	M14×2		1121101100	2P	110	18	-	10.5	56	2	16,500	
		G9 1120101102 4P 110							16,500			
	M14×1.5		1121101102	2P	110	18	-	10.5	56	2	16,500	
	M14×1.25	G9	1120101103	4P							19,800	
			G9	1121101103	2P	110	18	-	10.5	56	2	19,800
		G10		1120101114	4P							20,400
	M16×2		1121101114	2P	110	18	-	12.5	56	2	20,400	
		G9		1120101116	4P							20,400
	M16×1.5		1121101116	2P	110	110	110	18	-	12.5	56	2

○ · · · New

Number of oil grooves: M3~M6=5, M8=6, M10 and larger=8

For M6 and smaller, external centers of 2 thread chamfer taps are removed.

Warning

- ◆Tools may shatter during use. Wear safety eye cover or eye glasses to avoid injury during tapping.
- ♦Use tools under the proper tapping condition.
- ♦Never wear gloves during turning operations as the gloves may get caught in the tools.
- ♦Wear safety shoes to avoid foot injury by the falling tools.
- ♦When attaching tools to the machine, fasten firmly to avoid chatter and run-out.
- ♦Fasten the workpiece firmly so it never moves during the tapping operation. Never use worn tools or damaged tools.
- ◆Take a special care to prevent fire during machining. High temperature during tapping can cause a fire.

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