

Extra-Hard Roll Tap

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









M6~M16



Specifications









Tapping speed depending on materials





lower than pictured above.





For sizes M14 and larger, please use a tapping speed 30%

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.



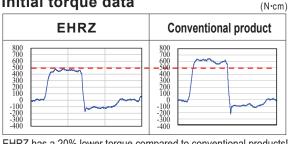
Optimized for medium-hard steels!

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.

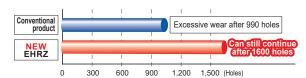
Tanning conditions: FHRZ G8 M6X1 R

Tapping conditions: Enk2 Go Wox I B						
Workpiece material	SCM440(40HRC)					
Bored hole size	Φ 5.53mm					
Tapping length	12mm					
Machine	Vertical Machining Center					
Tapping speed	20m/min					
Feed	Fully synchronized feed					
Tapping fluid	Water soluble tapping fluid (1:20 diluted solution)					

Initial torque data



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

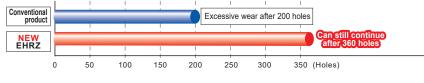




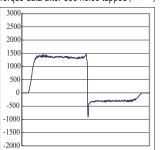
Tapping Data

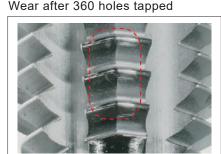
Tapping conditions: EHRZ G8 M12X1.25 B

Workpiece material	SCM440(40HRC)				
Bored hole size	Φ 11.4mm				
Tapping length	24mm				
Machine	Vertical Machining Center				
Tapping speed	20m/min				
Feed	Fully synchronized feed				
Tapping fluid	Water soluble tapping fluid (1:20 diluted solution)				

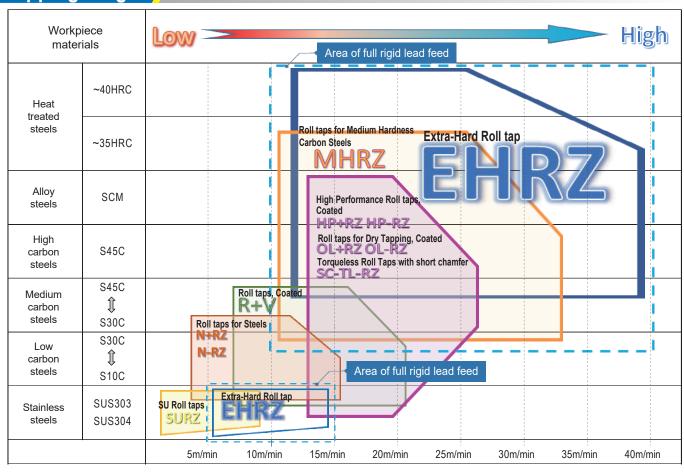


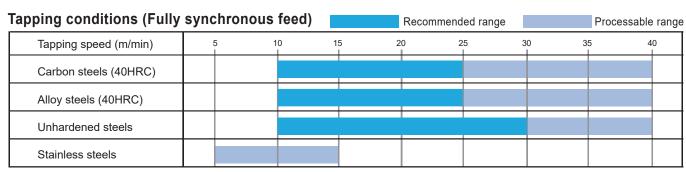
Torque data after 360 holes tapped (N-cm)





Tapping range



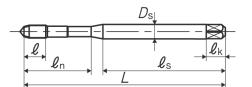


^{*}For stainless steels, insoluble tapping fluid is recommended. For sizes M14 and larger, please use a tapping speed 30% lower than pictured above.

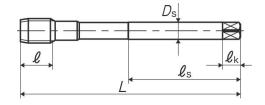


Shape and dimensions

TYPE:1



TYPE:2



Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	Ds (mm)	ℓs (mm)	TYPE	MSRP(JPY)
M6×1	Co	1120101055	4P	80	11	30	6	45	1	4,950
	G8	1121101055	2P							4,950
M8×1.25	G8	1120101064	4P	90	12	-	6.2	46	2	6,690
	Go	1121101064	2P							6,690
M8×1	G8	1120101065	4P	90	12	-	6.2	46	2	7,360
	Go	1121101065	2P							7,360
M10×1 F	G8	1120101078	4P	100	13	-	7	51	2	8,300
M10×1.5	Go	1121101078	2P							8,300
M10×1.25	G8	1120101079	4P	100	13	-	7	51	2	8,300
W110*1.25	Go	1121101079	2P	100	13					8,300
M10×1	G8	1120101080	4P	100	13	•	7	51	2	9,130
W10^1	Go	1121101080	2P							9,130
M12×1.75	G8	1120101088	4P	110	15	_	8.5	56	2	11,700
W12~1.75	Go	1121101088	2P	110		-	0.0			11,700
M12×1.5	G8	1120101089	4P	110	15	-	8.5	56	2	11,700
W12^1.5	Go	1121101089	2P							11,700
M12×1.25	G8	1120101090	4P	110	15	-	8.5	56	2	11,700
W112 ~ 1.25		1121101090	2P							11,700
M12×1	G8	1120101091	4P	110	15	-	8.5	56	2	13,500
IVI 1 Z ^ 1		1121101091	2P							13,500
M14×2	G10	1120101100	4P	110	18	-	10.5	56	2	16,500
10114^2	GIU	1121101100	2P							16,500
M14×1.5	G9	1120101102	4P	110	18	-	10.5	56	2	16,500
IVI14×1.5		1121101102	2P							16,500
M14×1 25	G9	1120101103	4P	110	18	-	10.5	56	2	19,800
M14×1.25	G9	1121101103	2P							19,800
M16×2	G10	1120101114	4P	110	18	-	12.5	56	2	20,400
	610	1121101114	2P							20,400
M16×1.5	G9	1120101116	4P	110	18	-	12.5	56	2	20,400
G.I × Ø I IVI	Ge	1121101116	2P		10					20,400

Number of oil grooves: M6=5, M8=6, M10 and over=8 For size M6 with chamfer length 2P the convex center is cut off.

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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