

Further development in Yamawa's Roll Taps for Miniature Threads

MS+RS HPsRZ



Feature of Products

Standard type





High performance type HPSRZ HSS-P



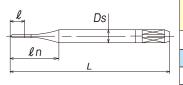




Features

- Using new blanks, Roll Taps improve their rigidity, bending strength and run-out tolerance.
- Marking position is moved to shank square portion to keep high shank concentricity.
- Adoption of new thread limits (GS classes) improves the thread accuracy of internal threads machined.

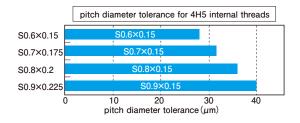
Table of dimensions and sizes

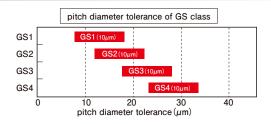


	class	L	l	ℓn	Ds	number of lobes	bored hole size for class 4H5		MS+RS	HPsRZ
size							Max	Min	code	code
S0.6X0.15	GS2	36	2.5	11	3	4	0.55	0.54	MSP20.6-B	HPS20.6-B
S0.7X0.175	GS3	36	2.5	11	3	4	0.64	0.62	MSP30.7-B	HPS30.7-B
S0.8X0.2	GS3	36	3.0	11	3	4	0.73	0.71	MSP30.8-B	HPS30.8-B
S0.9X0.225	GS4	36	3.0	11	3	4	0.82	0.80	MSP40.9-B	HPS40.9-B

- Above bored hole size is for reference. Please adjust the hole size depending on material, material hardness, parts' geometry. They can influence the deforming condition.
- Such causes as bent hole, machine vibration and misalingment can bring out tapping troubles. Please pay attention to avoid such causes.

New thread class=GS





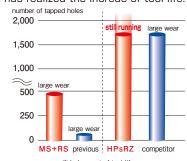
Recommendation of tapping condition

material	tool	tapping speed (m/min)
low carbon steels	MS+RS	~10
~S25C	HPsRZ	~12
aluminum, cast aluminum	MS+RS	~12
AL·ADC	HPsRZ	~14
cold rolled steel	MS+RS	~12
SPCC·SPCE	HPsRZ	~14
stainless steel	MS+RS	~ 5
SUS304	HPsRZ	~10

Tapping data

• Special design on thread lobes has realized the increae of tool life.

Tool size	S0.8×0.2		
tool	MS+RS	HPsRZ	
1001	previous	competitor	
coating	ı	TiCN	
tapping speed	4m/min	8m/min	
material	SUS304(88HRB)		
bored hole size	φ0.73		
tapping length	1.2mm(1.5D)		
machine	CNC tapping center		
oil	water soluble		



*Judgement of tool life Crest wear at the 1st full thread

Warning

- Tools may shatter. Wear cover or eye glass to avoid injury during tapping.
- Tools may be shatter. Use tools under the proper tapping condition. Never wear gloves during turning operations as the gloves may get caught with the tools.
- Wear safety shoes to avoid injuring yourself by the falling tools.
- ◆ On attaching tools to the machine, fasten firmly to avoid chattering and run-out.
- ◆ Fasten the workpieces firmly so that they never move during operation. Never use worn tools or damaged tools with chipping.
- ◆ Take a special care to fire trouble. High temperature during machining may cause fire.

Please note that specification may change without advance notice



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