

Outside diameter	Thickness
D	T

- ① Spiral Fluted Taps (for blind hole)
- ② Spiral Fluted Taps (for through hole)
- ③ Spiral Pointed Taps (for through hole)
- ④ Hand Taps

- ⑤ Cemented Carbide Taps

- ⑥ Roll Taps

- ⑦ Special Thread Taps Simple Inspection Tools

- ⑧ Pipe Taps

- ⑨ Thread Mills Premium Thread Mills

- ⑩ Dies

- ⑪ Center Drills Centering Tools

- ⑫ Precision Machinery/Metal Surgical Instruments



N-RSD

New Rolling Dies

Specification



Tapping Speeds depending on Materials

Low carbon steels 低炭素鋼	Medium carbon steels 中炭素鋼	Stainless steels ステンレス鋼	Brass 黄銅
3~6 (m/min)	3~6 (m/min)	3~6 (m/min)	3~6 (m/min)

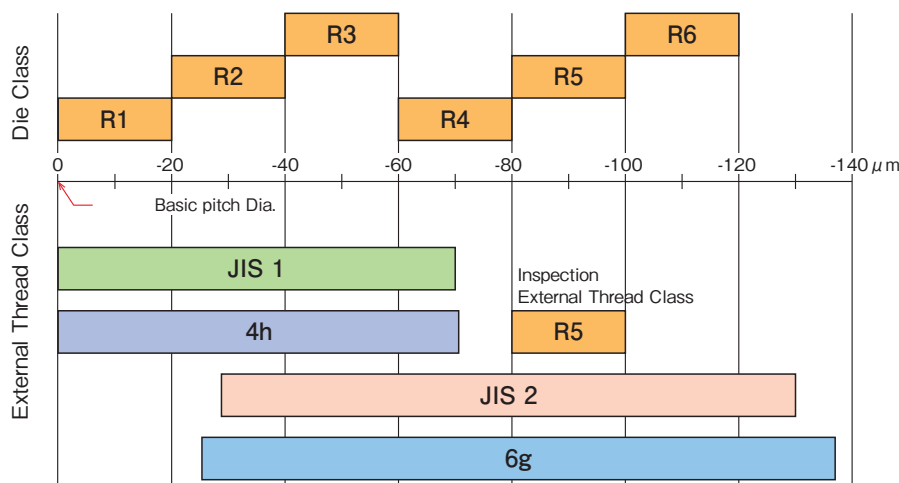


Product Features

- The new N-RSD rolling dies are capable of producing high precision screw threads through material deformation while producing an excellent surface finish without creating chips.
- The N-RSD has made major improvements in thread rolling efficiency starting with sizes P=0.5 and offers a dramatic improvement in tool life that could not be resolved with conventional rolling dies.
- The lower forming load on the dies chamfer at the starting point is greatly reduced compared to conventional products, achieving longer tool life.
- Ideal for small quantity thread rolling on various kinds of screw threads. Ideal for small diameter and long threads that are difficult to handle with thread rollers.
- YAMAWA recommends using automatic machines and lathes, which allow machining with workpiece rotation, with the N-RSD thread rolling dies.

Pitch diameter tolerance class comparison chart of die class (R class) and an external thread class.

Comparative example with M6×1



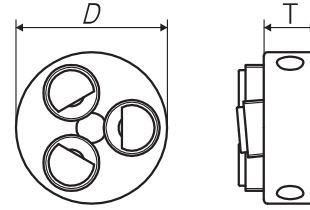
- Die class: Class R is the pitch diameter tolerance zone for inspection of external threads machined with rolling dies.
- External thread surface finish accuracy may differ slightly from inspection external thread specification depending on the type of workpiece and processing conditions.

Outside diameter	Thickness
D	T

10

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TYPE: 1

Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Metal Surgical Instruments

⑫

Segment : 34

Size	Class	Code	D (mm)	T (mm)	TYPE	MSRP
For Metric Threads						
M3 × 0.5	R4	NRGS3.0G	25	9	1	¥ 32,100 ※
M4 × 0.7	R4	NRGS4.0I	25	9	1	¥ 36,000 ※
M5 × 0.8	R5	NRGT5.0K	25	9	1	¥ 37,900 ※
M6 × 1	R5	NRHT6.0M	30	11	1	¥ 39,800 ※
M6 × 1	R5	NRJT6.0M	38	13	1	¥ 64,400 ※
M8 × 1.25	R6	NRJU8.0N	38	13	1	¥ 64,400 ※

※ = Specified Distribution Items. Made to order products.

 Think threads with
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