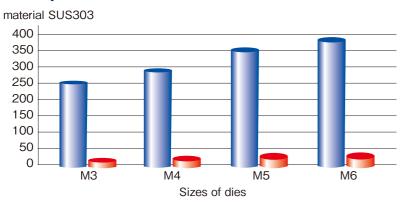


Class R shows PD tolerance of external screw thread formed by the rolling die.

Depending on the material, the accuracy of formed threads will change, and please select the class that is suitable for the materials.

Comparison of chamfer load between the new rolling dies and the current rolling dies

■ Comparison of chamfer load on different sizes



RS-D: current Rolling Dies

N-RSD: new Rolling Dies

%N-RSD has a special design in its chamfer. In threading SUS303 material, the chamfer load of the new Rolling Dies is 1/10 to 1/20 that of current Rolling Dies.

For threading the reliable screw threads. please use Yamawa's special die holders.

Die holder for Solid Dies RD-DH(made-to-order)





To see in detais how to use. please refer to



Warning

- ◆Tool may shatter if broken. The wearing of eye protection glass is strongly advised in the vicinity of their use.

 The correct using conditions and handling of our tools are essential in
- securing maximum useful tool life and hazard free operation.

 The wearing of gloves is forbidden as the gloves may entangle with
- turning tools.

 Tools may hurt the users' feet when falling off. The safety shoes should be put on at all times.
- ♦While fitting the tools to machine spindles and/or sleeves, care should be taken to avoid subjecting them to shock or impact.
- ◆Check that the workpieces are properly seated and securely held in the chuck before switching on machine power.
- ◆Do not use a tool whose cutting edges are worn-out or chipped severely. ◆Tools may generate extreme heat during use. Fire protection is strongly

Changes may occur without advance notice.

XYAMAWA Mfg. CO., Ltd.

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Website:http://www.yamawa.com

YAMAWA group for Overseas YAMAWA International Co., Ltd.



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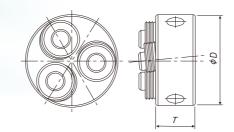


Dimensions



N-RSD New Rolling Die





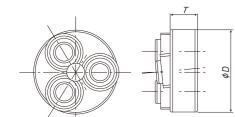
MS-RS-D _{\$0.5~0.9}

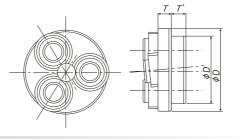












Featurs

N-RSD has solved the previous problem happened when threading external thread with more than 0.5 mm pitch and realized splendid high efficiency.

■Common troubles on thread rolling dies

- Due to the excessive load factor on threading with more than 0.5mm pitch, the adjustment of feeding is necessary (Adjustment of ball screws, mechanical feed and spring)
- Tool damage can easily occur.
- Excessive chamfer load can develop wear and shorten the tool life.



- Large reduction of chamfer load
- Suitable for the threading on wide-variety low-volume production, and smaller diameter

■ Advantage of New Rolling Dies

- On threading with more than 0.5 mm pitch, troublesome feed adjustment becomes unnecessary.
- Tool damage drastically decreases due to lower chamfer load.
- Tool life extends due to lower chamfer load.
- Suitable for the threading on wide-variety low-volume production and smaller diameter. (Threading of smaller diameter used to be a difficult machining because of material bending)

Machines

Please use with autolathes, lathes and machining centers.

Specification

Yamawa Rolling Dies series

%OD=(outside diameter) unit: mm

alliawa ni					. 1. 12		material C	
size	product	OD	thickness	die class	external thread class	product code		DD (rough) min
M3X0.5	N-RS-D	25	9	R4	6g (for class 2)	NRGS3.0G	2.640	2.620
				R4	6g (for class 2)		3.540	3.520
M4X0.7 M5X0.8	N-RS-D N-RS-D	25 25	9	R5	6g (for class 2)	NRGS4.0I NRGT5.0K	4.400	4.380
M6X1	N-RS-D N-RS-D	30	11	R5	6g (for class 2)	NRHT6.0M	5.300	5.280
M8X1.25	N-RS-D	38	13	R6	6g(for class 2)	NRJU8.0N	7.100	7.070
S0.5X0.125	เก-มด-ก	6	2	nu	Og (IUI CIdSS Z)	RA20.5-	0.410	0.396
S0.6X0.123	Menen	6	2 2	5h3	5h3	RA20.6-	0.410	0.390
S0.7X0.175		6				RA20.7-	0.494	0.479
		8	3			R020.8-	0.658	0.539
S0.8X0.2		0	3	R2	4h(for class 1)	RBQ1.0B		
M1X0.25	- - -	10	3.5	R3	6g (for class 2)	RBR1.0B	0.808	0.785
M1 1 VO OF				R3	6g (for class 2)	RBR1.1B		
M1.1X0.25		10	3.5	R2	4h (for class 1)	RBQ1.2B	0.910	0.891
M1.2X0.25			3.5	R3		RBR1.2B	.2B 1.007 .2B .4C .4C 1.168	0.984
		10	0.0	R4	6g(for class 2)	RBS1.2B		
				R2	4h (for class 1)			
		10	3.5	R3	411(10f Class 1)	RBQ1.4C RBR1.4C		
		10		R4	6g(for class 2)	RBS1.4C		
M1.4X0.3				R2	Ab (for along 1)			
		16	5	R3	4h (for class 1)	RDQ1.4C	1.168	1.142
		10	5	R4	6g(for class 2)	RDR1.4C		
				R2	Ab (f===1===4)	RDS1.4C		
M1.6X0.35		16	5		4h(for class 1)	RDQ1.6D	1.332	1.300
				R3	6g(for class 2)	RDR1.6D		
				R4	41. /5 1 4 \	RDS1.6D		
M1.7X0.35		40		R2	4h(for class 1)	RDQ1.7D		
		16	5	R3	6g(for class 2)	RDR1.7D		
		10		R4	2 (5) 2)	RDS1.7D		
M1.8X0.35		16	5	R3	6g (for class 2)	RDR1.8D	1.53	1.498
M2X0.4 M2X0.25			5	R2	4h(for class 1)	RDQ2.0E	1.699	1.669
		16		R3	6g(for class 2)	RDR2.0E		
				R4		RDS2.0E		
	16	16	5	R3	6g(for class 2)	RDR2.0B	1.796	1.771
		16	5	R4		RDS2.0B	1.998	1.968
M2.3X0.4				R2	4h(for class 1)	RDQ2.3E		
				R3	6g (for class 2)	RDR2.3E		
	_			R4	- /1	RDS2.3E		
M2.3X0.25	RS-D	16	5	R3	6g (for class 2)	RDR2.3B	2.096	2.017
	2	16	5	R2	4h(for class 1)	RDQ2.5F	2.162	2.126
				R4	6g (for class 2)	RDS2.5F		
M2.5X0.45				R5		RDT2.5F		
		20	7	R2	4h (for class 1)	REQ2.5F	0.400	2.126
				R4	6g(for class 2)	RES2.5F	2.162	
				R5		RET2.5F		
M2.5X0.35				R2	4h(for class 1)	RDQ2.5D		2.196
		16 16 20	5	R3	6g(for class 2)	RDR2.5D	2.228	
				R4		RDS2.5D		
				R2	4h(for class 1)	RDQ2.6F	0.000	2.226
			5	R4	6g(for class 2)	RDS2.6F	2.262	
M2.6X0.45				R5	OB (IUI Class Z)	RDT2.6F		
			7	R2	4h(for class 1)	REQ2.6F	2.262	
			′	R4	6g(for class 2)	RES2.6F	2.202	
M2.6X0.35	16 20	16	5	R4	6g(for class 2)	RDS2.6D	2.318	2.278
M3Y0 E		20		R2	4h(for class 1)	REQ3.0G	0.007	
M3X0.5		7	R4	6g(for class 2)	RES3.0G	2.627	2.589	
M3X0.35		20	7	R2	4h (for class 1)	REQ3.0D	2.718	2.677
				R4		RES3.D		
				R5	6g (for class 2)	RET3.0D		
				R4		RES3.5D		
M3.5X0.35			7	R5	6g (for class 2)		3.217	3.176
			R5		RET3.5D			
M4X0.5		20	7	R6	6g (for class 2)	RET4.0G	3.607	3.561
						REU4.0G		
M5X0.5				R3	- 6g(for class 2)	RER5.0G	4.606	4.560
		20	7	R4		RES5.0G		
				R5		RET5.0G		
				R6		REU5.0G		

