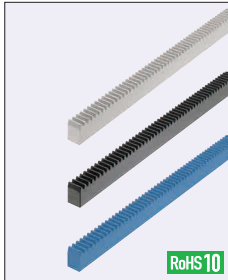


Rack Gears - L Fixed

Pressure Angle 20°, Module 0.5, 0.8, 1.0, 1.5, 2.0, 2.5, 3.0



Type		M Material	S Surface Treatment
Both Ends Machined	Economy		
RGEA	RGEAR	S45C Equivalent	Black Oxide
RGEAB	-	Free-Cutting Brass Bar	-
RGEAS	-	SUS304	-
RGEAM	RGEAMR	MC Nylon	-

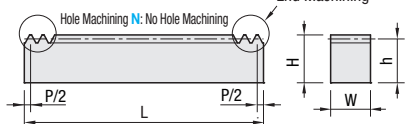
⚠ RGEAM, RGEAMR (MC Nylon) dimensions may change depending on the operating environment.

■ Economy Type

Hole Machining N: No Hole Machining



■ Both Ends Machined Type

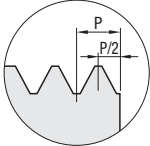


Accuracy: Accumulated Pitch Error (μm)

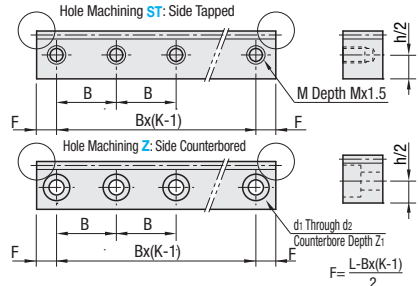
Module	Nominal			
	100	300	500	1000
0.5~1.5	54 (76)	65 (92)	72 (101)	100 (117)
2.0~3.0	62 (86)	73 (102)	80 (112)	91 (128)

⚠ Values in () are for RGEAS, RGEAM, RGEAMR.

Enlarged View of End Face (Both Ends Machined Type)



Module	P Tolerance
0.5~2.0	-0.1 -0.3
2.5, 3.0	-0.1 -0.4



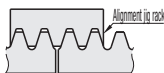
Part Number	Type	Module	Hole Machining	Number of Effective Teeth	L	P (Pitch)	W	H	h	B (Hole Pitch)	M (Coarse)	d1	d2	Z1	K (Number of Holes)	Unit Price									
																Economy Type	Both Ends Machined Type								
																Hole Machining N	Hole Machining A	Hole Machining ST	Hole Machining Z	Hole Machining Z					
(S45C) Both Ends Machined Type RGEA Economy Type RGEAR	1.0	100	N	30(29)	94.25(98)	3.142	10	12	11	180	M3	3.5	6.5	3.5	-	-	-	-	-						
		300		95(94)	298.45(303)											2	-	-	-						
		500		159	499.51(505)											3	-	-	-						
		100		21(20)	98.96(101)											-	-	-	-						
		300		63(62)	296.88(303)											-	-	-	-						
		500		106(105)	499.51(505)											-	-	-	-						
	2.0	100	A	15(14)	94.25(98)	6.283	20	25	23	180	M5	5.5	9.5	5.5	2	-	-	-	-						
		300		47(46)	295.31(303)											3	-	-	-						
		500		79	496.37(505)											3	-	-	-						
		100		12(11)	94.25(100)											-	-	-	-						
		300		38(37)	298.45(303)											-	-	-	-						
		500		63	494.8(505)											-	-	-	-						
2.5	100	ST	10(9)	94.25(101)	7.854	25	30	27.5	180	M5	5.5	9.5	5.5	2	-	-	-	-							
	300		31(30)	292.17(303)											3	-	-	-							
	500		53(52)	499.51(505)											3	-	-	-							
	100		12(11)	94.25(100)											-	-	-	-							
	300		38(37)	298.45(303)											-	-	-	-							
	500		63	494.8(505)											-	-	-	-							
3.0	100	Z	10(9)	94.25(101)	9.424	30	35	32	180	M5	5.5	9.5	5.5	2	-	-	-	-							
	300		31(30)	292.17(303)											3	-	-	-							
	500		53(52)	499.51(505)											3	-	-	-							
	100		12(11)	94.25(100)											-	-	-	-							
	300		38(37)	298.45(303)											-	-	-	-							
	500		63	494.8(505)											-	-	-	-							
(Free-Cutting Brass Bar) RGEAB	0.5	300	N	192	301.59	1.571	3	9	8.5	-	-	-	-	-	-	-	-	-							
		500		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	-	-	-							
		300		192	301.59	1.571	3	9	8.5	-	-	-	-	-	-	-	-	-							
	0.8	300	N	120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	-	-	-							
		500		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	-	-	-							
		300		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	-	-	-							
	(SUS304) RGEAS	1.0	300	N	95	298.45	3.142	10	10	9	180	M3	3.5	6.5	3.5	2	-	-	-						
			500		159	499.51											3	-	-	-					
			300		63	296.88											2	-	-	-					
		1.5	300	A	106	499.51	4.712	15	15	13.5		M4	4.5	8	4.5	2	-	-	-						
			500		106	499.51											3	-	-	-					
			300		79	496.37											3	-	-	-					
2.0	500	ST	159	999.02	6.283	20	20	18	M5	5.5	9.5	5.5	3	-	-	-									
	1000		159	999.02										6	-	-	-								
	500		63	494.8										3	-	-	-								
2.5	500	Z	127	997.45	7.854	25	25	22.5	M6	6.5	11	6.5	6	-	-	-									
	1000		127	997.45										6	-	-	-								
	500		53	499.51										3	-	-	-								
3.0	500	Z	106	999.03	9.424	30	30	27	M8	9	14	9	3	-	-	-									
	1000		106	999.03										6	-	-	-								
	500		53	499.51										3	-	-	-								
(MC Nylon) Both Ends Machined Type RGEAM Economy Type RGEAMR	0.5	300	N	192	301.59	1.571	3	9	8.5	-	-	-	-	-	-	-	-								
		500		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	-	-								
		300		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	-	-								
	1.0	300	N, A	95	298.45	3.142	10	12	11	180	M3	3.5	6.5	3.5	2	-	-	-							
		500		159	499.51(505)											3	-	-	-						
		300		63	296.88											2	-	-	-						
	1.5	500	N	105	(505)	4.712	15	20	18.5	-	-	-	-	-	-	-	-	-							
		2.0		500	79											(505)	6.283	20	25	23	-	-	-	-	-
		500		63	(505)											7.854	25	30	27.5	-	-	-	-	-	
	2.5	500	N	79	(505)	7.854	25	30	27.5	-	-	-	-	-	-	-	-	-							
		500		63	(505)											7.854	25	30	27.5	-	-	-	-	-	
		500		52	(505)											9.424	30	35	32	-	-	-	-	-	

⚠ Economy Type is only available for Hole Machining N (No Hole Machining). ⚠ Number of Effective Teeth () and L () are the value of Economy Type.

Ordering Example	Part Number	Nominal	Hole Machining
	RGEA1.0	500	A
	RGEAR1.0	500	N

How to Connect Rack Gears (Both Ends Machined Type)

MISUMI Induction Hardened Rack Gears are end machined with negative pitch tolerance in length. When connecting the racks, use a piece of rack (rack gear in the same module) as a spacer jig as shown in the right side figure to properly adjust the pitch.



Alterations Code	One End Tapped	Both Ends Tapped															
	MC	WMC															
Spec.																	
	<table border="1"> <thead> <tr> <th>Ordering Code</th> <th>MC5</th> </tr> <tr> <th>Module</th> <th>M Selection</th> </tr> </thead> <tbody> <tr> <td>1.0</td> <td>3 4</td> </tr> <tr> <td>1.5~3.0</td> <td>4 5 6</td> </tr> </tbody> </table>	Ordering Code	MC5	Module	M Selection	1.0	3 4	1.5~3.0	4 5 6	<table border="1"> <thead> <tr> <th>Ordering Code</th> <th>WMC5</th> </tr> <tr> <th>Module</th> <th>M Selection</th> </tr> </thead> <tbody> <tr> <td>1.0</td> <td>3 4</td> </tr> <tr> <td>1.5~3.0</td> <td>4 5 6</td> </tr> </tbody> </table>	Ordering Code	WMC5	Module	M Selection	1.0	3 4	1.5~3.0
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