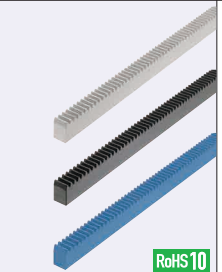


Rack Gears - L Fixed

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



RoHS 10

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

Type	Economy	Material	Surface Treatment
RGEA	RGEAR	EN 1.1191 Equiv.	Black Oxide
RGEAB	-	Free-Cutting Brass Bar	-
RGEAS	-	EN 1.4301 Equiv.	-
RGEAM	RGEAMR	MC Nylon	-

Accuracy: Accumulated Pitch Error (μm)

Module	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.

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

■ Economy Type

Hole Machining N: No Hole Machining

■ Both Ends Machined Type

Hole Machining N: No Hole Machining

Hole Machining A: Bottom Tapped

Hole Machining ST: Side Tapped

Hole Machining Z: Side Counterbored

End Machining

Ordering Code: MC5

Module M Selection: 1.0 3 4 1.5~3.0 4 5 6

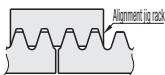
Part Number		Unit Price														
Type	Module	Nominal	Hole Machining	Number of Effective Teeth	L	P (Pitch)	W	H	h	B (Hole Pitch)	M (Coarse)	d1	d2	Z1	K (Number of Holes)	Economy Type
(EN 1.1191 Equiv.)	1.0	100	N	30(29)	94.25(98)	3.142	10	12	11	180	M3	3.5	6.5	3.5	2	Both Ends Machined Type
		300		95(94)	298.45(303)	4.712	15	20	18.5	180	M4	4.5	8	4.5	2	
		500		159	499.51(505)	6.283	20	25	23	180	M5	5.5	9.5	5.5	2	
		1000		21(20)	98.96(101)	7.854	25	30	27.5	180	M5	5.5	9.5	5.5	2	
	1.5	300	A	63(62)	296.88(303)	4.712	15	15	13.5	180	M4	4.5	8	4.5	2	
		500		106(105)	499.51(505)	6.283	20	20	18	180	M5	5.5	9.5	5.5	2	
		1000		15(14)	94.25(98)	7.854	25	25	22.5	180	M6	6.5	11	6.5	2	
		3000		47(46)	295.31(303)	7.854	25	25	22.5	180	M6	6.5	11	6.5	2	
	2.0	300	ST	79	496.37(505)	9.424	30	35	32	180	M5	5.5	9.5	5.5	2	
		500		12(11)	94.25(100)	9.424	30	35	32	180	M5	5.5	9.5	5.5	2	
		1000		38(37)	298.45(303)	9.424	30	35	32	180	M5	5.5	9.5	5.5	2	
		3000		63	494.8(505)	9.424	30	35	32	180	M5	5.5	9.5	5.5	2	
(Free-Cutting Brass Bar)	0.5	300	N	192	301.59	1.571	3	9	8.5	-	-	-	-	-	-	Both Ends Machined Type
		500		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	
		1000		192	301.59	1.571	3	9	8.5	-	-	-	-	-	-	
		3000		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	
	0.8	300	N	120	301.59	1.571	3	9	8.5	-	-	-	-	-	-	
		500		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	
		1000		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	
		3000		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	
	1.0	300	N	95	298.45	3.142	10	10	9	-	-	-	-	-	-	
		500		159	499.51	4.712	15	15	13.5	-	-	-	-	-	-	
		1000		63	296.88	4.712	15	15	13.5	-	-	-	-	-	-	
		3000		106	499.51	6.283	20	20	18	-	-	-	-	-	-	
(EN 1.4301 Equiv.)	1.5	300	A	79	496.37	6.283	20	20	18	180	M5	5.5	9.5	5.5	3	
		500		159	999.02	6.283	20	20	18	180	M5	5.5	9.5	5.5	3	
		1000		63	494.8	7.854	25	25	22.5	180	M6	6.5	11	6.5	3	
		3000		127	997.45	7.854	25	25	22.5	180	M6	6.5	11	6.5	3	
	2.0	300	ST	53	499.51	9.424	30	30	27	180	M8	9	14	9	3	
		500		106	999.03	9.424	30	30	27	180	M8	9	14	9	3	
		1000		192	301.59	1.571	3	9	8.5	-	-	-	-	-	-	
		3000		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	
	2.5	300	Z	95	298.45	3.142	10	12	11	180	M3	3.5	6.5	3.5	2	
		500		159	499.51(505)	4.712	15	20	18.5	-	-	-	-	-	-	
		1000		105	(505)	6.283	20	25	23	-	-	-	-	-	-	
		3000		79	(505)	7.854	25	30	27.5	-	-	-	-	-	-	
(MC Nylon)	0.5	300	N	52	(505)	9.424	30	35	32	-	-	-	-	-	-	
		500		192	301.59	1.571	3	9	8.5	-	-	-	-	-	-	
		1000		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	
		3000		95	298.45	3.142	10	12	11	180	M3	3.5	6.5	3.5	2	
	1.0	300	N, A, ST, Z	105	(505)	4.712	15	20	18.5	-	-	-	-	-	-	
		500		79	(505)	6.283	20	25	23	-	-	-	-	-	-	
		1000		63	(505)	7.854	25	30	27.5	-	-	-	-	-	-	
		3000		52	(505)	9.424	30	35	32	-	-	-	-	-	-	
	1.5	300	N	192	301.59	1.571	3	9	8.5	-	-	-	-	-	-	
		500		120	301.59	2.513	4	10	9.2	-	-	-	-	-	-	
		1000		95	298.45	3.142	10	12	11	180	M3	3.5	6.5	3.5	2	
		3000		159	499.51(505)	4.712	15	20	18.5	-	-	-	-	-	-	

⚡ 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	Part Number	Nominal	Hole Machining	(MC, WMC)
	RGEAS1.5	500	N	MC4

Alterations	One End Tapped	Both Ends Tapped
Code	MC	WMC
Spec.		
	Ordering Code MC5	Ordering Code WMC5
	Module M Selection 1.0 3 4 1.5~3.0 4 5 6	Module M Selection 1.0 3 4 1.5~3.0 4 5 6
⚡ For RGEAS, M4 is not available for module 1.0.		

Rack Gears - L Configurable (One End Machined)

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

■ Features: Configurable to desired lengths. One end is machined for connecting with other rack gears.



RoHS 10

Enlarged View of End Face

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

Type	Material	Surface Treatment
RGEAL	EN 1.1191 Equiv.	Black Oxide
RGEABL	Free-Cutting Brass Bar	-
RGEASL	EN 1.4301 Equiv.	-
RGEAML	MC Nylon	-

Accuracy: Accumulated Pitch Error (μm)

Module	100 or less	101~300	301~500	501~1000	1000~1980
0.5~1.5	54 (76)	65 (92)	72 (101)	100 (117)	99 (139)
2.0~3.0	62 (86)	73 (102)	80 (112)	91 (128)	105 (148)

Values in () are for RGEASL, RGEAML, RGEAS.

⚡ RGEAML (MC Nylon) dimensions may change depending on the operating environment.

■ Hole Position Configurable Type (Number of Holes is up to 3, L Dimension 20 ~ 480)

End Machining

Hole Machining N: No Hole Machining

■ Number of Holes Configurable Type (B Hole Pitch Selectable, L Dimension 500 ~ 980)

End Machining

Hole Machining N: No Hole Machining

Hole Machining HT: Bottom Tapped

Hole Machining ST: Side Tapped

Hole Machining Z: Side Counterbored

Ordering Code: MC5

Module M Selection: 1.0 3 4 1.5~3.0 4 5 6

■ Hole Position Configurable Type (Number of Holes is up to 3, L Dimension 20 ~ 480)																			
Part Number			Overall Length L 1mm Increment	Hole Position ABC 1mm Increment	P (Pitch)	W	H	h	d1	d2	Z1	M (Coarse)	Body Price					Hole Machining Charge (+ Body Price)	
Type	Module	Hole Machining											L=20~100	L=101~200	L=201~300	L=301~400	L=401~480	Tapped Hole (HT, ST)	Counterbored Hole (Z)
(EN 1.1191 Equiv.) RGEAL	1.0	N (No Hole Machining) HT (Back side Tapped) ST (Side Tapped) Z (Side Counterbored)	20~480	5~475	3.142	10	12	11	3.5	6.5	3.5	M3							
	1.5				4.712	15	20	18.5	4.5	8	4.5	M4							
	2.0				6.283	20	25	23	5.5	9.5	5.5	M5							
	2.5				7.854	25	30	27.5	6.5	11	6.5	M6							
	3.0				9.424	30	35	32	9.0	14	9	M8							
(Free-Cutting Brass Bar) RGEABL	0.5	N	20~280	-	1.571	3	9	8.5	-	-	-	-			-	-			
	0.8				2.513	4	10	9.2	-	-	-	-			-	-			
(EN 1.4301 Equiv.) RGEASL	0.5	N	20~280	-	1.571	3	9	8.5	-	-	-	-			-	-			
	0.8				2.513	4	10	9.2	-	-	-	-			-	-			
	1.0	N, HT, ST	20~480	5~475	3.142	10	10	9	-	-	-	M3							
	1.5				4.712	15	15	13.5	4.5	8	4.5	M4							
	2.0	N (No Hole Machining) HT (Back side Tapped) ST (Side Tapped) Z (Side Counterbored)			6.283	20	20	18	5.5	9.5	5.5	M5							
	2.5	7.854			25	25	22.5	6.5	11	6.5	M6								
	3.0	9.424			30	30	27	9.0	14	9	M8								
(MC Nylon) RGEAML	0.5	N	20~280	-	1.571	3	9	8.5	-	-	-	-			-	-			
	0.8				2.513	4	10	9.2	-	-	-	-			-	-			
	1.0				N, HT, ST, Z	20~480	5~475	3.142	10	12	11	3.5	6.5	3.5	M3				

■ Number of Holes Configurable Type (B Hole Pitch Selectable, L Dimension 500 ~ 980)																				
Part Number			Overall Length L 1mm Increment	K (Number of Holes)	B (Hole Pitch) 1mm Increment	P (Pitch)	W	H	h	d1	d2	Z1	M (Coarse)	Body Price				Hole Machining Charge (+ Body Price)		
Type	Module	Hole Machining												L=500~750	L=751~1000	L=1001~1500	L=1501~1980	Tapped Hole (HT, ST)	Counterbored Hole (Z)	
(EN 1.1191 Equiv.) LRGEA	1.0	N (No Hole Machining) HT (Back side Tapped) ST (Side Tapped) Z (Side Counterbored)	500~980	2~6	50~500	3.142	10	12	11	3.5	6.5	3.5	M3		-	-				
	1.5			4.712		15	20	18.5	5.5	9.5	5.5	M5								
	2.0			6.283		20	25	23	6.5	11	6.5	M6								
	2.5			7.854		25	30	27.5	9	14	9	M8								
	3.0			9.424		30	35	32	11	17.5	11	M10								
(EN 1.4301 Equiv.) LRGEAS	1.5		500~980	2~12		50~500	4.712	15	15	13.5	5.5	9.5	5.5	M5		-	-			
	2.0							6.283	20	20	18	6.5	11	6.5	M6		-	-		
	2.5							7.854	25	25	22.5	9	14	9	M8		-	-		
	3.0							9.424	30	30	27	11	17.5	11	M10		-	-		