

Resin Spur Gear ▶ Module 0.5/0.8/1.0/1.5/2.0/2.5/3.0

Pressure Angle 20°



Please order according to the diagram

①~⑤ Select the type and parameters in the order of for ordering

Model(①Code) - ②Module - ③Number Teeth - ④B - ⑤Gear Shape -

Inner Bore Diameter P_{H7}
Round Hole Type
Screw Locking Type

Optional Processing

HC90 HC120 MCQ



Discounted Price

Quantity 1~9 10~
Price 100% Separate Quotation

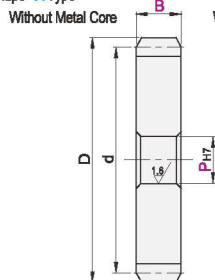
Price Excluding Tax (Yen)

EAMGV - 1.5 - 16 - B15 - B - P8 - HC120

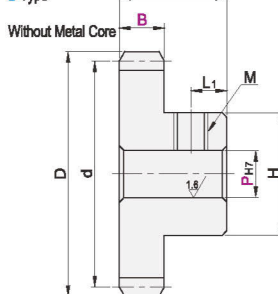


CAD 2D 3D

Gear Shape A Type



B Type



Code	Type	Material	
		Gear	Metal Core
EAMGV	Resin Spur Gear	Nylon (MC901)	—
EAMGW			S45C
EAMGX		Polyformaldehyde	SUS304
EAMGZ			—
EAMGA			S45C
			SUS304

Precision JIS B 1702-1 Grade 9

Model		Number Teeth	B	Gear Shape	Inner Bore Diameter P _{H7}		d	D	H	P ₁	L	L ₁	M	Allow transmission of power(N·m)							
Code	Module				Without Metal Core Minimum Unit 1	With Metal Core								Bending Strength							
														MC Nylon	Polyformaldehyde						
MC Nylon Without Metal Core EAMGV	0.5	20	3	B	3~5	—	10	11	8.5	—	8 (B=3) 7 (B=2)	2.5	M3	0.04	0.16						
		24					12	13	0.05					0.21							
		25					12.5	13.5	0.05					0.22							
		28					14	15	0.06					0.26							
		30	15		16		0.07	0.30													
		32	16		17		0.07	0.32													
		36	18		19		0.08	0.37													
		40	20		21		0.10	0.42													
		45	22.5		23.5		0.12	0.50													
		48	24		25		0.13	0.53													
		50	25		26		0.14	0.57													
		56	28		29		0.16	0.65													
		60	30		31		0.17	0.71													
		64	32		33		0.19	0.76													
		70	35		36		0.21	0.84													
		72	36		37		0.20	0.87													
80	40	41	0.23		0.97																
Polyformaldehyde Without Metal Core EAMGY	0.8	90	3		3~6		3~9	—	45					46	12	—	8 (B=3) 7 (B=2)	3	M3	0.25	1.11
		100							50					51	0.30					1.25	
		120							60					61	0.37					1.53	
		16							12.8					14.4	0.13					0.56	
		18	14.4		16		0.16	0.65													
		20	16		17.6		0.18	0.77													
		24	19.2		20.8		0.24	0.97													
		25	20		21.6		0.25	1.02													
		28	22.4		24		0.29	1.18													
		30	24		25.6		0.32	1.27													
		32	25.6		27.2		0.34	1.40													
		36	28.8	30.4	0.40	1.63															
		40	32	33.6	0.45	1.87															
		45	38.4	37.6	0.53	2.16															
		48	36	40	0.58	2.34															
		50	40	41.6	0.61	2.47															
56	44.8	46.4	0.70	2.83																	
60	48	49.6	0.76	3.10																	
64	51.2	52.8	0.83	3.31																	
70	56	57.6	0.90	3.64																	
72	57.6	59.2	0.93	3.76																	
80	64	65.6	1.06	4.22																	
MC Nylon Without Metal Core EAMGV	1.0	90	5	6~9	—	—	48	49.6	14			—	8 (B=3) 7 (B=2)	4	M4					0.76	3.10
		100					51.2	52.8	0.83											3.31	
		120					56	57.6	0.90									3.64			
		18					18	20	15									0.51	1.83		
		20	20	22	16	0.60	2.11														
		22	22	24	18	0.67	2.40														
		24	24	26	20	0.76	2.67														
		25	25	27		0.80	2.82														
		26	26	28		0.84	2.97														
		28	28	30		0.92	3.26														
		30	30	32		1.01	3.54														
		32	32	34		1.10	3.86														
		35	35	37		1.23	4.33														
		36	36	38	28	1.28	4.50														
		40	40	42		1.46	5.13														
		45	45	47	30	1.70	5.93														
48	48	50		1.84	6.43																
50	50	52		1.94	6.78																
55	55	57	35	2.18	7.61																
60	60	62		2.42	8.47																
70	70	72		2.86	10.00																
75	75	77		3.10	10.76																
80	80	82	40	3.30	11.57																
90	90	92		3.78	13.17																
100	100	102		4.25	14.82																
120	120	122		5.15	17.97																

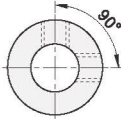
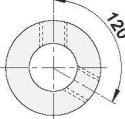
① Module 0.5 tooth number 40~50 calculated by tooth width 3mm

Resin Spur Gear ▶ Module 0.5/0.8/1.0/1.5/2.0/2.5/3.0

Pressure Angle 20°

Model		Number Teeth	B	Gear Shape	Inner Bore Diameter P _{H7}		d	D	H	P ₁	L	L ₁	M	Allow transmission of power(N.m) Bending Strength		
Code	Module				Without Metal Core Minimum Unit 1	With Metal Core								MC Nylon	Polyformaldehyde	
MC Nylon Without Metal Core EAMGV With Metal Core EAMGW EAMGX	1.5	15	15	A	8~12	8	22.5	25.5	18	P+4	24	4.5	M3	1.38	3.16	
		16			8~14	8 10	24	27	20					1.53	3.50	
		18			8~15		27	30	22					1.79	4.08	
		20			8~17	8 10 12	30	33	25					2.07	4.73	
		24			8~21		36	39	30					2.61	5.97	
		25				8 10 12 15	37.5	40.5						2.76	6.30	
		26			8~22		39	42	32					2.91	6.65	
		28			8~23		42	45	34					3.18	7.27	
		30			8~24		45	48	35					3.46	7.90	
		32					48	51						3.76	8.58	
		35			8~28	8 10 12 15 20	52.5	55.5	40					4.22	9.63	
		36					54	57						4.38	10.00	
	40			60	63		5.00	11.42								
	45	10~31	10 12 15 20 25	67.5	70.5		5.78	13.20								
	48			72	75	45	6.27	14.31								
	50			75	78		6.60	15.08								
	60	10~35		90	93	50	8.24	18.83								
	70		12 15 20 25	105	108		9.72	22.21								
	80	12~38		120	123	55	11.25	25.70								
	Polyformaldehyde Without Metal Core EAMGY With Metal Core EAMGZ EAMGA	2.0	12	20	A	10~12	—	24	28	18	P+4	34	7	M4	2.25	2.45
			14			10~14	10	28	32	20					2.96	3.23
15			10~16			10 12	30	34	24	3.28					3.59	
16			10~17				32	36	25	3.63					3.97	
18			10~21			10 12 15	36	40	30	4.24					4.63	
20			10~23				40	44	33	4.91					5.36	
24			10~28			10 12 15 20	48	52	40	6.19					6.77	
25							50	54		6.54					7.15	
28			10~31			10 12 15 20 25	56	60	45	7.54					8.24	
30			10~33				60	64	48	8.20					8.96	
32			B				64	68		8.91					9.73	
35						12~35		70	74	50					9.99	10.92
36							72	76		10.38					11.34	
40							80	84		11.86					12.95	
45						12~42	12 15 20 25 30	90	94	60					13.70	14.97
48							96	100		14.85					16.23	
50							100	104		15.65					17.1	
60							120	124		19.54					21.35	
MC Nylon Without Metal Core EAMGV With Metal Core EAMGW EAMGX			2.5			12	25	A	10~16	10					30	35
	14	10~17			35	40			25	5.77						
	15	12~21		10 12 15	37.5	42.5			30	6.41						
	16	12~22			40	45			32	7.09						
	18	12~26		10 12 15 20	45	50			38	8.28						
	20	12~28			50	55			40	9.59						
	22	12~30		12 15 20	55	60			44	10.84						
	24	12~33		12 15 20 25	60	65			48	12.10						
	25	12~35			62.5	67.5			50	12.78						
	28	12~42		12 15 20 25 30	70	75			60	14.73						
	30	12~45			75	80			65	16.02						
	32	B			80	85				17.40						
	35				87.5	92.5				19.52						
	36				90	95				20.27						
	40			15~49	15 20 25 30 35	100			105	70	23.15					
	45				112.5	117.5				26.76						
	48				120	125				29.01						
	50				125	130				30.57						
	Polyformaldehyde Without Metal Core EAMGY	3.0		12	30	A			12~19	12	36	42	28	P+6	45	7.5
14			12~22	12 15			42	48	32	9.98						
15			14~25				45	51	36	11.08						
16			14~26	12 15 20			48	54	38	12.25						
18			14~28				54	60	40	14.31						
20			14~35	15 20 25			60	66	50	16.56						
22			14~37				66	72	54	18.72						
24			14~40	15 20 25 30			72	78	58	20.90						
25			14~42				75	81	60	22.08						
28			14~49	15 20 25 30 35			84	90	70	25.45						
30			14~52				90	96	75	27.68						
32			B				96	102		30.06						
35							105	111		33.73						
36							108	114		35.02						
40				18~56			20 25 30 35 40	120	126	80	40.01					
45							135	141		46.25						

Optional Processing

Model	Increase set screw holes	
Code	HC90	HC120
Technical Specification	Selection Method HC90  ① Additional setscrew hole processing at a 90° position relative to the original setscrew hole. ② Type A is not applicable.	Selection Method HC120  ① Additional setscrew hole processing at a 120° position relative to the original setscrew hole. ② Type A is not applicable.