


Plastic Spur Gears

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



Type	Material		Accessory
	Gears	Workpiece	
GEABM	-	-	Set Screw (SCM435, Black Oxide)
GEABMS	MC Nylon	S45C Equivalent	Set Screw (SUS304)
GEABMT	-	-	Set Screw (SUS304)
GEABP	-	-	Set Screw (SCM435, Black Oxide)
GEABPS	Polyacetal	S45C Equivalent	Set Screw (SUS304)
GEABPT	-	-	Set Screw (SUS304)

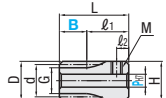
⚠ Set Screw is not included in products with Gear Shape A.

🔧 Adhesive is applied to metal hub insert and press-fit.

📏 P dimension of GEABM (MC Nylon) may shrink due to its water-absorbing property.

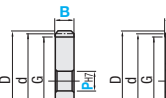
Gear Shape

Shape K




Shape A

(With Metal Hub Insert)



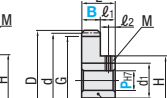
Shape B

(With Metal Hub Insert)



Shape B

(With Metal Hub Insert)



Accuracy Previous JIS B 1702 Class 5
(New JIS B 1702-1 Class 9 Equivalent)

Part Number	Number of Teeth	B	Gear Shape	Shaft Bore Dia. Ph7 Selection		d Reference Dia.	D Tip Dia.	D Root Dia.	H	L	ℓ1	ℓ2	M (Coarse)	d1	*1. Allowable Transmission Force (N.m) Bending Strength		Unit Price		
				W/o Metal Hub Insert	With Metal Hub Insert										MC Nylon	Polyacetal	GEABM GEABP	GEABMS GEABPS	GEABMT GEABPT
GEABM (MC Nylon)	0.5	8	K	3-5		7.5	8.5	6.25	9	18	10	3	M3	0.08	0.33				
						8	9	6.75	9					0.09	0.36				
						9	10	7.75	10					0.11	0.42				
						10	11	8.75	11					0.12	0.49				
						10	11	8.75	8.5					0.05	0.18				
						12	13	10.75						0.06	0.23				
						12.5	13.5	11.25						0.06	0.24				
						14	15	12.75						0.07	0.28				
						15	16	13.75						0.08	0.31				
						16	17	14.75						0.08	0.33				
		3	B	3-7		18	19	16.75		0.10	0.39								
						20	21	18.75	10	0.11	0.44								
						22.5	23.5	21.25		0.13	0.51								
						24	25	22.75		0.14	0.55								
						25	26	23.75		0.15	0.59								
						28	29	26.75		0.17	0.67								
						30	31	28.75		0.18	0.73								
						32	33	30.75		0.20	0.78								
						35	36	33.75		0.22	0.86								
						36	37	34.75		0.22	0.89								
2	B	3-7		40	41	38.75		0.25	0.99										
				45	46	43.75		0.28	1.13										
				50	51	48.75		0.32	1.27										
				60	61	58.75		0.39	1.54										
				70	71	68.75		0.47	1.88										
				80	81	78.75		0.55	2.18										
				90	91	88.75		0.63	2.49										
				100	101	98.75		0.72	2.85										
				110	111	108.75		0.81	3.25										
				120	121	118.75		0.91	3.69										
GEABP (Polyacetal)	0.8	7	K	4-7		9.6	11.2	7.6	11.2	20	13	3	M3	0.13	0.50				
						11.2	12.8	9.2	12.8					0.17	0.66				
						12	13.6	10	13.6					0.18	0.73				
						12.8	14.4	10.8						0.15	0.58				
						14.4	16	12.4	10					0.17	0.67				
						16	17.6	14						0.20	0.78				
						19.2	20.8	17.2						0.25	0.98				
						20	21.6	18						0.26	1.04				
						22.4	24	20.4	12.5					0.30	1.20				
						24	25.6	22						0.33	1.30				
		5	B	6-9		25.6	27.2	23.6		0.36	1.42								
						28.8	30.4	26.8		0.42	1.65								
						32	33.6	30		0.47	1.88								
						36	37.6	34		0.55	2.18								
						38.4	40	36.4	14	0.59	2.36								
						40	41.6	38		0.63	2.49								
						44.8	46.4	42.8		0.72	2.85								
						48	49.6	46		0.78	3.11								
						51.2	52.8	49.2		0.84	3.33								
						56	57.6	54		0.92	3.66								
3	B	6-11		57.6	59.2	55.6	16	0.95	3.78										
				64	65.6	62		1.07	4.24										
				72	73.6	70	20	1.21	4.83										
				80	81.6	78	24	1.37	5.43										
				96	97.6	94	30	1.66	6.58										
				112	113.6	110		1.97	7.93										
				128	129.6	126		2.31	9.48										
				144	145.6	142		2.68	11.23										
				160	161.6	158		3.07	13.18										
				176	177.6	174		3.48	15.33										
GEABMS (With Metal Hub Insert, MC Nylon)	1.0	12	A	6-10	6	15	17	12.5	-	25	13	3	M3	P=4	0.49	1.71			
						16	18	13.5	18					0.54	1.89				
						18	20	15.5	15					0.53	1.84				
						20	22	17.5	16					0.61	2.13				
						22	24	19.5	18					0.69	2.41				
						24	26	21.5	20					0.77	2.69				
						25	27	22.5						0.82	2.84				
						26	28	23.5						0.86	3.00				
						28	30	25.5						0.94	3.28				
						30	32	27.5						1.03	3.56				
		10	B	10-17	8, 10	32	34	29.5	25	1.11	3.87								
						35	37	32.5	26	1.25	4.34								
						36	38	33.5	28	1.30	4.51								
						40	42	37.5		1.48	5.15								
						45	47	42.5		1.71	5.95								
						48	50	45.5		1.86	6.45								
						50	52	47.5		1.96	6.80								
						55	57	52.5		2.20	7.63								
						60	62	57.5		2.44	8.49								
						70	72	67.5		2.88	10.02								
3	B	10-21	10, 12, 15	75	77	72.5		3.11	10.80										
				80	82	77.5		3.33	11.59										
				90	92	87.5		3.80	13.19										
				100	102	97.5		4.27	14.84										
				120	122	117.5		5.18	17.99										
				138	140	135.5		6.14	21.56										
				156	158	153.5		7.15	25.56										
				174	176	171.5		8.21	30.00										
				192	194	189.5		9.32	34.90										
				210	212	207.5		10.48	40.26										
GEABPS (With Metal Hub Insert, Polyacetal)	1.5	15	A	8-12	8	22.5	25.5	18.75	18	24	9	3	M3	1.38	3.16				
						24	27	20.25	20					1.53	3.50				
						27	30	23.25	22					1.79	4.08				
						30	33	26.25	25					2.07	4.73				
						36	39	32.25	30					2.61	5.97				
						37.5	40.5	33.75						2.76	6.30				
						39	42	35.25						2.91	6.65				
						42	45	38.25						3.18	7.27				
						45	48	41.25						3.46	7.90				
						48	51	44.25						3.76	8.58				
		3	B	8-28	8, 10, 12, 15, 20	52.5	55.5	48.75		4.22	9.83								
						54	57	50.25		4.38	10.00								
						60	63	56.25		5.00	11.42								
						67.5	70.5	63.75		5.78	13.20								
						72	75	68.25		6.27	14.31								
						75	78	71.25		6.60	15.08								
						90	93	86.25		8.24	18.83								
						105	108	101.25		9.72	22.21								
						120	123	116.25		11.25	25.70								
						138	141	135.25		12.93	29.56								

* Number of Teeth with * is not With Metal Hub Insert Type.

*1 Allowable Transmission Forces in the table are reference values calculated with prescribed conditions. For conditions, see **☞ P. 1498**. Tooth width is calculated as 10mm. Module 0.5 with 40 ~ 50 teeth is calculated as tooth width 3mm.