

Plastic Spur Gears

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



Type

Material

Accessory

GEABM	MC Nylon	-	Set Screw (SCM435, Black Oxide)
GEABMS	SUS304	S45C Equivalent	Set Screw (SUS304)
GEABMT	-	-	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

Shape A (With Metal Hub Insert)

Shape B

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.	G Root Dia.	H	L	ℓ1	ℓ2	M (Coarse)	d1	*1. Allowable Transmission Force (N) m Bending Strength		Unit Price																															
Type	Module				W/o Metal Hub Insert	With Metal Hub Insert										MC Nylon	Polyacetal	GEABM GEABP	GEABMS GEABPS	GEABMT GEABPT																													
GEABM (MC Nylon)	0.5	*15	8	K	3-5		7.5	8.5	6.25	9	18	10	3	M3		0.08	0.33																																
		*16					8	9	6.75	10						0.09	0.36																																
		*18					10	11	7.75	10						0.11	0.42																																
		*20					10	11	8.75	11						0.12	0.49																																
		*20					10	11	8.75	8.5						0.05	0.18																																
		*24	12	13	10.75		0.06	0.23																																									
		*25	12.5	13.5	11.25		0.06	0.24																																									
		*28	14	15	12.75		0.07	0.28																																									
		*30	15	16	13.75		0.08	0.31																																									
		*32	16	17	14.75		0.08	0.33																																									
		*36	18	19	16.75		0.10	0.39																																									
		*40	20	21	18.75	10	0.11	0.44																																									
		*45	22.5	23.5	21.25		0.13	0.51																																									
		*48	24	25	22.75	B	8 (B=3)	5	2.5	0.14						0.55																																	
		*50	25	26	23.75					0.15						0.58																																	
		*56	28	29	26.75					0.17						0.67																																	
		*60	30	31	28.75					0.18						0.73																																	
		*64	32	33	30.75					0.20						0.78																																	
		*70	35	36	33.75	3	12	0.22	0.86																																								
		*72	36	37	34.75			0.22	0.89																																								
	*80	40	41	38.75	0.25			0.99																																									
	*90	45	46	43.75	0.28			1.13																																									
	*100	50	51	48.75	0.32			1.27																																									
	*120	60	61	58.75	7	K																																											
	*12	4-7	9.6	11.2																	7.6	11.2	0.13	0.50																									
	*14	4-8	11.2	12.8																	9.2	12.8	0.17	0.66																									
	*15	4-9	12	13.6																	10	13.6	0.18	0.73																									
	*16	4-9	12.8	14.4																	10.8	0.15	0.58																										
	*18	4-7	14.4	16	12.4	10	0.17	0.67																																									
	*20	16	17.6	14	5	B																																											
	*24	19.2	20.8	17.2																	M3																												
	*25	20	21.6	18																																0.26	1.04												
	*28	22.4	24	20.4																																0.30	1.20												
	*30	24	25.6	22																																0.33	1.30												
	*32	25.6	27.2	23.6	0.36	1.42																																											
	*36	28.8	30.4	26.8	6-9																																												
	*40	32	33.6	30																	0.42	1.65																											
	*45	36	37.6	34																	0.47	1.88																											
	*48	36	37.6	34																	0.55	2.18																											
	*50	38.4	40	36.4																	0.59	2.36																											
*56	40	41.6	38	6-11																																													
*56	44.8	46.4	42.8																	0.63	2.49																												
*60	48	49.6	46																	0.72	2.85																												
*64	51.2	52.8	49.2																	0.78	3.11																												
*70	56	57.6	54																	0.84	3.33																												
*72	57.6	59.2	55.6	10	A																																												
*80	64	65.6	62																	0.92	3.66																												
*90	72	73.6	70																	0.95	3.78																												
*100	80	81.6	78																	1.07	4.24																												
*120	80	81.6	78																	1.21	4.83																												
GEABP (Polyacetal)	0.8	*15	5	B	6-10		96	97.6	94	30	14	9	4	M4		1.66	6.58																																
		*16					15	17	12.5	-						-	-	-	-	P+4	0.49	1.71																											
		*18					16	18	13.5	18						25	13	3	M3	-	0.54	1.89																											
		*20					18	20	15.5	15						0.53	1.94																																
		*22					20	22	17.5	16						0.61	2.13																																
		*24	22	24	19.5	18	0.69	2.41																																									
		*25	24	26	21.5	20	0.77	2.69																																									
		*26	25	27	22.5	22	0.82	2.84																																									
		*28	26	28	23.5	22	0.86	3.00																																									
		*30	28	30	25.5	25	0.94	3.28																																									
		*32	30	32	27.5	25	1.03	3.56																																									
		*35	32	34	29.5	26	1.11	3.87																																									
		*36	35	37	32.5	26	1.25	4.34																																									
		*40	36	38	33.5	28	1.30	4.51																																									
		*45	40	42	37.5	30	1.48	5.15																																									
		*48	45	47	42.5	35	1.71	5.95																																									
		*48	48	50	45.5	35	1.86	6.45																																									
		*50	50	52	47.5	35	1.96	6.80																																									
		*55	55	57	52.5	35	2.20	7.63																																									
		*60	60	62	57.5	40	2.44	8.49																																									
	*70	70	72	67.5	40	2.88	10.02																																										
	*75	75	77	72.5	40	3.11	10.80																																										
	*80	80	82	77.5	40	3.33	11.59																																										
	*90	90	92	87.5	40	3.80	13.19																																										
	*100	100	102	97.5	40	4.27	14.84																																										
	*120	120	122	117.5	40	5.18	17.99																																										
	GEABMT (SUS with Metal Hub Insert, MC Nylon)	1.0	*15	10	A	8-10	8	22.5	25.5	18.75	18	20	10	4	M4		1.38	3.16																															
			*16					24	27	20.25	20						1.53	3.50																															
			*18					27	30	23.25	22						1.79	4.08																															
			*20					30	33	26.25	25						2.07	4.73																															
			*24					36	39	32.25	30						2.61	5.97																															
			*25	37.5	40.5	33.75	30	2.76	6.30																																								
			*26	39	42	35.25	32	2.91	6.65																																								
			*28	42	45	38.25	34	3.18	7.27																																								
			*30	45	48	41.25	35	3.46	7.90																																								
			*32	48	51	44.25	40	3.76	8.58																																								
			*35	52.5	55.5	48.75	40	4.22	9.63																																								
			*36	54	57	50.25	45	4.38	10.00																																								
			*40	60	63	56.25	45	5.00	11.42																																								
			*45	67.5	70.5	63.75	45	5.78	13.20																																								
*48			72	75	68.25	45	6.27	14.31																																									
*50			75	78	71.25	50	6.60	15.08																																									
*60			90	93	86.25	50	8.24	18.63																																									
*70			105	108	101.25	50	9.72	22.21																																									
*80			120	123	116.25	55	11.25	25.70																																									
GEABPT (SUS with Metal Hub Insert, Polyacetal)			1.5	*15	15	A	8-12	8, 10	22.5	25.5	18.75						18	27	12	4	M4		1.38	3.16																									
	*16	24		27					20.25	20	1.53	3.50																																					
	*18	27		30					23.25	22	1.79	4.08																																					
	*20	30		33					26.25	25	2.07	4.73																																					
	*24	36		39					32.25	30	2.61	5.97																																					
	*25	37.5		40.5	33.75	30	2.76	6.30																																									
	*26	39		42	35.25	32	2.91	6.65																																									
	*28	42		45	38.25	34	3.18	7.27																																									
	*30	45		48	41.25	35	3.46	7.90																																									
	*32	48		51	44.25	40	3.76	8.58																																									
	*35	52.5		55.5	48.75	40	4.22	9.63																																									
	*36	54		57	50.25	45	4.38	10.00																																									
	*40	60		63	56.25	45	5.00	11.42																																									
	*45	67.5		70.5	63.75	45	5.78	13.20																																									
	*48	72		75	68.25	45	6.27	14.31																																									
	*50	75		78	71.25	50	6.60	15.08																																									
	*60	90		93	86.25	50	8.24	18.63																																									
	*70	105		108	101.25	50	9.72	22.21																																									
	*80	120		123	116.25	55	11.25	25.70																																									