



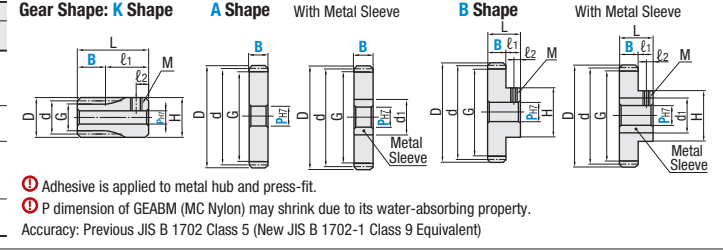
Plastic Spur Gears

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

Plastic Spur Gears – Pressure Angle 20°, Module 0.5, 0.8, 1.0, 1.5, 2.0, 2.5, 3.0



Type	Material		
	Gears	Metal Hub Insert	Set Screw (4137 Alloy Steel / Black Oxide)
GEABM	MC Nylon	1045 Carbon Steel or Equivalent	Set Screw (4137 Alloy Steel / Black Oxide)
GEABMS	MC Nylon	1045 Carbon Steel or Equivalent	Set Screw (4137 Alloy Steel / Black Oxide)
GEABMT	MC Nylon	304 Stainless Steel	Set Screw (4137 Alloy Steel / Black Oxide)
GEABP	MC Nylon	304 Stainless Steel	Set Screw (4137 Alloy Steel / Black Oxide)
GEABPS	Polyacetal	1045 Carbon Steel or Equivalent	Set Screw (4137 Alloy Steel / Black Oxide)
GEABPT	Polyacetal	304 Stainless Steel	Set Screw (4137 Alloy Steel / Black Oxide)



Set Screw is not included in products with Gear Shape A

Part Number	Type	Module	Number of Teeth	Gear Shape	Shaft Bore Dia P ₁₇		d Reference Dia.	D Tip Dia.	G Root Dia.	H	L	ℓ ₁	ℓ ₂	M (Coarse)	d ₁	** Allowable Transmission Force (N-m) Bending Strength		Available Types		
					Without Metal Hub Insert	With Metal Hub Insert										MC Nylon	Polyacetal	GEABM	GEABMS	GEABMT
GEABM MC Nylon	0.5	8	15	K	3-5	7.5	8.5	6.25	9	18	10	3	M3	—	0.08	0.33	•	•	•	
GEABP Polyacetal	0.8	5	15	B	6-9	11.2	12.8	9.2	12.8	14	9	4	M4	—	0.17	0.66	•	•	•	
GEABMS With Metal Hub Insert, MC Nylon	1.0	10	15	A	10-12	15	17	12.5	20	20	10	4	M4	P+4	0.49	1.71	•	•	•	
GEABPT Stainless Steel with Metal Hub Insert, Polyacetal	1.5	15	15	B	10-12	22.5	25.5	18.75	18	24	9	3	M3	—	1.38	3.16	•	•	•	

* marked number of teeth are not available with Metal Hub Insert Type. ** Allowable Transmission Forces in the table are reference values calculated with prescribed conditions. P.1469. Module 0.5 with 40-50 teeth are calculated as tooth width 3 mm.

Plastic Spur Gears

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

Part Number	Type	Module	Number of Teeth	Gear Shape	Shaft Bore Dia P ₁₇		d Reference Dia.	D Tip Dia.	G Root Dia.	H	L	ℓ ₁	ℓ ₂	M (Coarse)	d ₁	** Allowable Transmission Force (N-m) Bending Strength		Available Types		
					Without Metal Hub Insert	With Metal Hub Insert										MC Nylon	Polyacetal	GEABM	GEABMS	GEABMT
GEABM MC Nylon	2.0	20	12	A	10-12	24	28	19	18	34	14	4	M4	P+4	2.25	2.45	•	•	•	
GEABMS With Metal Hub Insert, MC Nylon	2.5	25	12	B	10-12	30	34	25	24	37	12	6	M5	P+6	4.39	5.77	•	•	•	
GEABMT Stainless Steel with Metal Hub Insert, MC Nylon	3.0	30	12	A	10-12	36	42	28	28	45	15	7.5	M6	P+8	9.98	12.25	•	•	•	

** Allowable Transmission Forces in the table are reference values calculated with prescribed conditions. For conditions, refer to P.1469. * marked number of teeth are not available with Metal Hub Insert Type. When gear shape is not specified, Module 1.0 with 18 or more number of teeth and Module 1.5, 2.0, 2.5, 3.0 will be Shape B.

Part Number Example
 Part Number: GEABM1.0 - No. of Teeth: 20 - B: 10 - Gear Shape: A - P: 8
 GEABPS2.0 - 40 - 20 - B - 8
 GEABM0.5 - 20 - 8 - B - K - 7

Part Number Alterations
 Part Number: GEABM1.0 - No. of Teeth: 25 - 10 - B - 8 - P - 8 - KC120
 GEABPS2.0 - 40 - 20 - A - 15 - KTC20-K4.0

Alterations	Set Screw	Tapped Hole Dimension	Stepped Hole	Both Ends Stepped Bore	Teeth Root Alignment
Code	KC90 / KC120	TPC	DHL / DHR	WDH	GBA
Spec.	KC90: Adds another set screw at 90° position. KC120: Adds another set screw at 120° position. * Not applicable to Shape A.	Changes the tapped hole dimension. Ordering Code: TPC4 * Not applicable to Shape A.	Changes shaft bores to stepped bores. * Not applicable to Shape K. (Z: 1 mm Increment / J: 0.1 mm Increment) * Not applicable to With Metal Hub Insert Type * No tapped holes for Shape B. Ordering Code: DHL-Z20-J4.0	Changes shaft bores to both ends stepped hole. * Not applicable to Shape K. (O / R / S / T: 1 mm Increment) * S, T=3 * Not applicable to With Metal Hub Insert Type * No tapped holes for Shape B. Ordering Code: WDH-Q10-R10-S3-T3	Adjust the tap to align with the gear's teeth root and key groove Ordering Code: GBA * Applicable for tooth number 19 or more.

Alterations	Side Slotted Hole	Side Through Hole	Hub Shortening
Code	LFC / LTC	KFC / KTC	BS
Spec.	Machines slotted holes on the side surface (30°). (LFC / LTC: 1 mm Increment) * Applicable to Shape A only. * Without Metal Hub Insert: P+C+4≤LFC(LTC)≤G-C-4 * With Metal Hub Insert: d ₁ +C+4≤LFC(LTC)≤G-C-4 M Selection: M3 / M4 / M5 / M6 Ordering Code: LFC20-M3	Machines through holes on the side surface. (KFC/KTC 1 mm increment / K:0.5mm Increment) -M Selection: K3.0-K6.0 A Shape * P+K+4≤KFC(KTC)≤G-K-4 (Without Metal Insert) * d ₁ +K+4≤KFC(KTC)≤G-K-4 (With Metal Insert) Ordering Code: KFC20-K3.5	Cuts the hub length in 0.5mm increments Ordering Code: BS6.5 * Not available for K / A shape * Straight Bore Type: 0≤BS≤ℓ ₁ * Straight Bore + Tap Type: BS=0; M+3≤BS≤ℓ ₁ * Keyway + Tap Type: BS=0; M+3≤BS≤ℓ ₁ * When BS=0, there are no tapped holes