

Spur Gear

Pressure Angle 20°, Module 0.5, Shaft Bore Configurable Type

Fixing Parts				Others		
Rotary Shaft	Canlewer Shaft	MechaLock	Parallel Key	Bearing with Housings	Bearing	Shaft Collar
P1-837	P1-901	P1-1521	P2-277	P1-947	P1-1017	P1-297
P1-900	P1-926	P1-1530	P2-282	P1-1014	P1-1049	P1-330

Spur Gear

Pressure Angle 20°, Module 0.8, Shaft Bore Configurable Type

Fixing Parts				Others		
Rotary Shaft	Canlewer Shaft	MechaLock	Parallel Key	Bearing with Housings	Bearing	Shaft Collar
P1-837	P1-901	P1-1521	P2-277	P1-947	P1-1017	P1-297
P1-900	P1-926	P1-1530	P2-282	P1-1014	P1-1049	P1-330

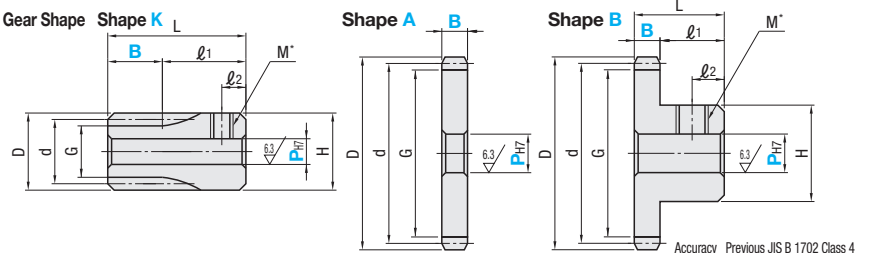
For products uncovered by the e-Catalog Standard, see P131.

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Type	Material	Surface Treatment	Accessory	Shaft Bore Specifications (Selectable Gear Shapes)	
Straight Bore	GEABN	-	-	Straight Bore (Shape A, Shape B, Shape K)	Straight Bore + Tap (Shape B, Shape K)
-	GEABB	-	-		
-	GEABG	-	-		
GEAHB	GEAB	-	-		
-	GEABS	-	-		

Set Screw is not included in Un-tapped Type products.



Tapped shaft bores are not available for Shape A.

When desiring to fix the gear hub onto the shaft through MechaLock, see Keyless Type on P1557. For configuring the tooth width / hub dimensions, see P1551.

Part Number		Number of Teeth	B	Gear Shape	Shaft Bore Dia. P (1mm Increment)	d Reference Dia.	D Tip Dia.	G Root Dia.	H	L	l1	l2	M (Coarse)	*1 Allowable Transmission Force (N·m) Bending Strength			Unit Price					
Type	Module													S45C Equivalent	Free-Cutting Brass Bar	SUS304	GEAHB	GEABN	GEABB	GEABG	GEAB	GEABS
(Selectable Gear Shapes)	0.5	15	8	K	3~5	7.5	8.5	6.25	9	18	10	3	M3	0.72	0.16	0.41						
		16				8	9	6.75						0.79	0.17	0.45						
		18				9	10	7.75	10					0.95	0.21	0.54						
		20				10	11	8.75	11					1.12	0.24	0.64						
		20				10	11	8.75	8.5					0.42	0.09	0.24						
		24				12	13	10.75						0.54	0.12	0.31						
		25				12.5	13.5	11.25						0.58	0.13	0.33						
		26				13	14	11.75						0.61	0.13	0.35						
		28				14	15	12.75						0.68	0.15	0.39						
		30				15	16	13.75						0.74	0.16	0.42						
		32				16	17	14.75						0.8	0.17	0.46						
		35				17.5	18.5	16.25						0.91	0.2	0.52						
		36				18	19	16.75						0.94	0.2	0.54						
		40				20	21	18.75						0.72	0.16	0.41						
		42				21	22	19.75						0.76	0.17	0.43						
		45				22.5	23.5	21.25						0.83	0.18	0.48						
		48				24	25	22.75						0.9	0.2	0.51						
		50				25	26	23.75						0.95	0.21	0.54						
		*62				26	27	24.75						0.99	0.22							
		*60				30	31	28.75						1.18	0.26							
		*70				35	36	33.75						1.42	0.31							
		*80				40	41	38.75						1.65	0.36							
		*100				50	51	48.75						2.13	0.46							
		*120				60	61	58.75						2.59	0.56							
Straight Bore (Shape A, Shape B, Shape K)	0.8	15	3	A	3~6, 6.35	12	13	10.75	10	8				0.72	0.16	0.41						
		16				13	14	11.75						0.76	0.17	0.43						
		18				14	15	12.75						0.83	0.18	0.48						
		20				15	16	13.75						0.9	0.2	0.51						
		24				18	19	16.75						1.18	0.26							
		25				19	20	17.75						1.25	0.28							
		26				20	21	18.75						1.32	0.3							
		28				22	23	20.75						1.49	0.33							
		30				24	25	22.75						1.66	0.36							
		32				26	27	24.75						1.83	0.39							
		35				30	31	28.75						2.13	0.46							
		40				36	37	33.75						2.59	0.56							
Straight Bore + Tap (Shape B, Shape K)	0.5	15	2	B	5~16	7.5	8.5	6.25	9	18	10	3	M3	0.72	0.16	0.41						
		16				8	9	6.75						0.79	0.17	0.45						
		18				9	10	7.75						0.95	0.21	0.54						
		20				10	11	8.75						1.12	0.24	0.64						
		20				10	11	8.75	8.5					0.42	0.09	0.24						
		24				12	13	10.75						0.54	0.12	0.31						
		25				12.5	13.5	11.25						0.58	0.13	0.33						
		26				13	14	11.75						0.61	0.13	0.35						
		28				14	15	12.75						0.68	0.15	0.39						
		30				15	16	13.75						0.74	0.16	0.42						
		32				16	17	14.75						0.8	0.17	0.46						
		35				17.5	18.5	16.25						0.91	0.2	0.52						
Straight Bore (Shape A, Shape B, Shape K)	0.8	15	3	A	3~6, 6.35	12	13	10.75	10	8				0.72	0.16	0.41						
		16				13	14	11.75						0.76	0.17	0.43						
		18				14	15	12.75						0.83	0.18	0.48						
		20				15	16	13.75						0.9	0.2	0.51						
		24				18	19	16.75						1.18	0.26							
		25				19	20	17.75						1.25	0.28							
		26				20	21	18.75						1.32	0.3							
		28				22	23	20.75						1.49	0.33							
		30				24	25	22.75						1.66	0.36							
		32				26	27	24.75						1.83	0.39							
		35				30	31	28.75						2.13	0.46							
		40				36	37	33.75						2.59	0.56							

* marked number of teeth is not available for GEABS. Shaft Bore Dia. 6.35 is available. The "-" text on the above table means that any Shaft Bore Dia. is not selectable.

*1. Allowable Transmission Forces in the table are reference values calculated with prescribed conditions. For conditions, see P1534.

Part Number	Number of Teeth	B	Gear Shape	P
GEAB0.5	20	3	B	3
GEAHB0.5	30	3	A	6
GEABS0.5	16	8	K	5

When gear shape is not specified, number of teeth 15 ~ 20 (B=8) will be Shape K, and number of teeth 20 ~ 120 (B=3, 2) will be Shape B.

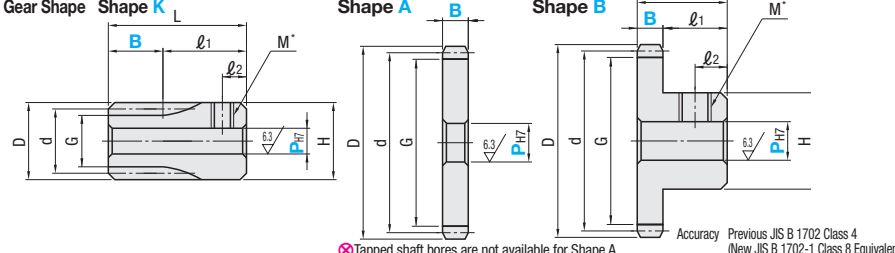
Part Number	Number of Teeth	B	Gear Shape	P
GEAB0.5	20	3	B	3
GEAHB0.5	30	3	A	6
GEABS0.5	16	8	K	5

Alterations	Set Screw	Side Through Hole	Tapped Hole Dimension
Code	KC90	KC120	KFC, KTC
Spec.	Adds another set screw at 90° position. Not applicable to Shape A. Not applicable to Straight Bore Type.	Adds another set screw at 120° position. Not applicable to Shape A. Not applicable to Straight Bore Type.	Machines through holes on the side surface. (KFC, KTC: 1mm Increment, K: 0.5mm Increment) Applicable to Shape A only. P+K+4≤KFC(KTC)≤G-K-4 [K Selection] K3.0~K6.0 [Ordering Code] KFC15-K3.5



Type	Material	Surface Treatment	Accessory	Shaft Bore Specifications (Selectable Gear Shapes)	
Straight Bore	GEABN	-	-	Straight Bore (Shape A, Shape B, Shape K)	Straight Bore + Tap (Shape B, Shape K)
-	GEABB	-	-		
-	GEABG	-	-		
GEAHB	GEAB	-	-		
-	GEABS	-	-		

Set Screw is not included in Un-tapped Type products.



Tapped shaft bores are not available for Shape A.

When desiring to fix the gear hub onto the shaft through MechaLock, see Keyless Type on P1557. For configuring the tooth width / hub dimensions, see P1551.

Part Number		Number of Teeth	B	Gear Shape	Shaft Bore Dia. P (1mm Increment)	d Reference Dia.	D Tip Dia.	G Root Dia.	H	L	ℓ1	ℓ2	M (Coarse)	*1 Allowable Transmission Force (N · m) Bending Strength			Straight Bore		Straight Bore + Tap							
Type	Module													S45C Equivalent	Free-Cutting Brass Bar	SUS304	GEAHB	GEABN	GEABB	GEABG	GEAB	GEABS				
(Selectable Gear Shapes) Straight Bore (Shape A, Shape B, Shape K) GEAHB Straight Bore + Tap (Shape B, Shape K) GEABN GEABB GEABG GEAB GEABS	0.8	12	7	K	4, 5	9.6	11.2	7.6	11.2	20	13		3	M3	1.11	0.24	0.63									
		14				11.2	12.8	9.2	12.8						1.43	0.31	0.82									
		15				12	13.6	10	13.6						1.6	0.35	0.92									
		16				5	12.8	14.4	10.8							9	1.27	0.28	0.72							
		16				7	7								1.78	0.39	1.01									
		18				5	15.2	0.33	0.87																	
		18				7	14.4	16	12.4							9	2.13	0.46	1.22							
		20				5									9	1.78	0.39	1.02								
		20				7	16	17.6	14							7	2.5	0.54	1.42							
		24				5									9	2.32	0.5	1.32								
		24				7	19.2	20.8	17.2							7	3.25	0.71	1.85							
		25				5	20	21.6	18							9	2.46	0.53	1.4							
		25				7										7	3.44	0.75	1.96							
		28				5	22.4	24	20.4						12.5	14	9	2.89	0.63	1.65						
		28				7										7	4.04	0.88	2.3							
30	5	24	25.6	22		9	3.16	0.69	1.8																	
30	7					7	4.42	0.96	2.52																	
32		25.6	27.2	23.6				3.42	0.74	1.95																
36		28.8	30.4	26.8				4.01	0.87	2.29																
40	5	32	33.6	30	14	9	4	M4	4.58	1	2.61															
45		36	37.6	34					5.33	1.16	3.04															
48		38.4	40	36.4					5.77	1.26	3.3															
50		40	41.6	38					6.07	1.32	3.46															