

# Spur Gear

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

Fixing Parts				Others			
Rotary Shaft	Can/lever Shaft	MechaLock	Parallel Key	Bearing with Housings	Bearing	Shaft Collar	
P.1-837	P.1-901	P.1-1521	P.1-277	P.1-947	P.1-1017	P.1-297	
P.1-900	P.1-926	P.1-1530	P.1-282	P.1-1014	P.1-1049	P.1-330	

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

Type	Material	Surface Treatment	Accessory	Shaft Bore Specifications (Selectable Gear Shapes)	
Straight Bore	S45C Equivalent Free-Cutting Brass Bar SUS304	Black Oxide Electroless Nickel Plating	Set Screw (SCM435 Black Oxide)  Set Screw (SUS304)	Straight Bore (Shape A, Shape B, Shape K)	Straight Bore + Tap (Shape B, Shape K)
GEABN					
GEABB					
GEABG					
GEAHB					
GEABS					

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

Gear Shape Shape K

Shape A

Shape B

Accuracy Previous JIS B 1702 Class 4 (New JIS B 1702-1 Class 3 Equivalent)

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	Module	Number of Teeth	B	Gear Shape	Shaft Bore Dia. Ppr (1mm Increment)	*1 Allowable Transmission Force (N·m) Bending Strength										Unit Price				
						d	D	G	H	L	l1	l2	M	S45C Equivalent	Free-Cutting Brass Bar	SUS304	GEAHB	GEABB	GEABG	GEAHS
(Selectable Gear Shapes)	0.8	12	7	K	4, 5	9.6	11.2	7.6	11.2	20	13	M3	1.11	0.24	0.63					
		14	7	4-6, 6.35	11.2	12.8	9.2	12.8	10	14	1.43		0.31	0.82						
		15	7		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						
		18	5		14.4	16	12.4	7			1.78		0.39	1.01						
		18	7		16	17.6	14	7			1.52		0.33	0.87						
		20	5		19.2	20.8	17.2	9			2.13		0.46	1.22						
		20	7		20	21.6	18	7			1.78		0.39	1.02						
		24	5		22.4	24	20.4	7			2.5		0.54	1.42						
		24	7		24	25.6	22	9			2.32		0.5	1.32						
24	7	25.6	27.2		23.6	9	3.25	0.71			1.85									
28	5	28	30.4	26.8	7	2.46	0.53	1.4												
28	7	32	33.6	30	9	3.44	0.75	1.96												
30	5	36	37.6	34	7	2.89	0.63	1.65												
30	7	38.4	40	36.4	9	4.04	0.88	2.3												
32	5	40	41.6	38	7	3.16	0.69	1.8												
36	5	42	43.2	39.6	9	4.42	0.96	2.52												
40	5	45	45	41.5	7	3.42	0.74	1.95												
45	5	48	48	44.4	9	4.01	0.87	2.29												
50	5	50	50	46.5	7	4.58	1	2.61												
50	5	50	50	46.5	9	5.33	1.16	3.04												
50	5	50	50	46.5	9	5.77	1.26	3.3												
50	5	50	50	46.5	9	6.07	1.32	3.46												

\*1. Allowable Transmission Forces in the table are reference values calculated with prescribed conditions. For conditions, see P1534. Shaft Bore Dia. 6.35 is available. The "-" text on the above table means that any Shaft Bore Dia. is not selectable.

Ordering Example

Part Number	Number of Teeth	B	Gears Shape	P
GEAB0.8	25	5	B	6
GEAHB0.8	30	7	A	8
GEABS0.8	15	7	K	5

Alterations

Part Number	Number of Teeth	B	Gears Shape	P
GEAB0.8	30	7	B	6
GEAHB0.8	40	5	A	8

(KC90, TPC, DHL, WDH... etc.)

Alterations	Set Screw	Tapped Hole Dimension	Stepped Hole	Both Ends Stepped Bore
Code	KC90, KC120	TPC	DHL, DHR	WDH
Spec.	KC90: Adds another set screw at 90° position. KC120: Adds another set screw at 120° position. Not applicable to Shape A. Not applicable to Straight Bore Type.	Changes the tapped hole dimension. Ordering Code TPC4 Not applicable to Shape A. Not applicable to Straight Bore Type.	Changes shaft bores to stepped bores. (Z: 1mm Increment, J: 0.1mm Increment) Ordering Code DHL-Z20-J2.0. Applicable to Straight Bore Type Only.	Changes shaft bores to both ends stepped hole. (Q, R, S, T: 1mm Increment) S, T: 3 Ordering Code WDH-Q10-R10-S5-T5

Alterations	Side Slotted Hole	Side Through Hole	Side Tapped Hole
Code	LFC, LTC	KFC, KTC	QFC, QTC
Spec.	Machines slotted holes on the side surface (30°). (LFC, LTC: 1mm Increment) P+C+4 ≤ LFC(LTC) ≤ G-C-4 Applicable to Shape A only. M Selection M3, M4, M5, M6 Ordering Code LFC20-M3	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 KFC20-K3.5	Machines tapped holes on the side surface of the gear. (QFC, QTC: 1mm Increment) Applicable to Shape A only. P+M+4 ≤ QFC(QTC) ≤ G-M-4 M Selection M3, M4 Ordering Code QFC25-M3 Tapped Hole Depth Mx1.5 (When B < Mx1.5, through)