

Spur Gear

Pressure Angle 20°, Module 1.0, Shaft Bore Configurable Type

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

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

Standard Type and Thin Type are available.

Type			Material	Surface Treatment	Accessory
Straight Bore	Straight Bore + Tap	Keyway, Keyway + Tap			
GEAHB	GEAB	GEAKB	S45C Equivalent	Black Oxide	Set Screw (SCM435, Black Oxide)
GEAHBB	GEABB	GEAKBB			
GEAHBG	GEABG	GEAKBG			
GEAHS	GEAS	GEAKS	SUS304	Electroless Nickel Plating	Set Screw (SUS304)

Set Screw is not included in Un-tapped Type products.
Selectable Gear Shapes differ depending on the number of teeth. Check the spec. table.

Gear Shape

Shape K

Shape A

Shape B

Shaft Bore Specifications (Selectable Gear Shapes)

Keyway (Shape A) | Keyway + Tap (Shape B)

For Tap, Keyway Dimension Details, see P1532.
Positioning of keyway and teeth is not fixed.

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

Tapped shaft bores are not available for Shape A.

Part Number		Number of Teeth	B	Gear Shape	Shaft Bore Dia. Ph7 (1mm Increment)	d Reference Dia.	D Tip Dia.	G Root Dia.	H	L	L1	L2	M (Course)	*1 Allowable Transmission Force (N·m) Bending Strength		Unit Price													
Type	Module													Straight Bore	Straight Bore + Tap	Straight Bore + Tap						Keyway Keyway + Tap							
																S45C Equivalent	SUS304	GEAHB	GEAHBB	GEAHBG	GEAHS	GEAB	GEABB	GEABG	GEAS	GEAKB	GEAKBB	GEAKBG	GEAKS
Straight Bore (Shape A, Shape B, Shape K) GEAHB GEAHBB GEAHBG GEAHS	1	12	10	K	6~8	12	14	9.5	14	30	20 (B=10)	5	M4	2.47	1.41														
		A			6~10	-	13	15	10.5					15	2.83	-													
				K	6~12		14	16	11.5				16	3.2	1.83														
		12			6~10	8N	15	17	12.5				17	3.58	2.04														
				6~12		16	18	13.5	18				3.97	-															
		6~10				17	19	14.5	19				4.36	-															
				6~10		18	20	15.5	20				4.76	-															
		6~12				19	21	16.5	20				5.16	-															
				6~12		20	22	17.5	18				5.57	3.18															
		6~12				21	23	18.5	18				5.98	3.41															
Straight Bore + Tap (Shape B, Shape K) GEAB GEABB GEABG GEAS	1		22	12	A	6~12	22	24	19.5	20	30	10 (B=10)	4	M4	6.41	-													
		8~15	8N, 10N			23	25	20.5	20	6.82					-														
			6~15		8N~12N	24	26	21.5	20	7.24				4.13															
		8~17			10N~12N	25	27	22.5	22	7.68				-															
			6~18		10N~15N	26	28	23.5	22	8.12				4.64															
		8~18				27	29	24.5	24	8.55				-															
			8~18			28	30	25.5	24	9.02				5.14															
		8~18				29	31	26.5	26	9.42				-															
			8~18			30	32	27.5	27	9.87				5.63															
		8~18				31	33	28.5	27	10.27				6.11															
Keyway (Shape A) (19 teeth or more) Keyway + Tap (Shape B) (19 teeth or more) GEAKB GEAKBB GEAKBG GEAKS	1		32	10	A	8~22	32	34	29.5	28	30	8 (B=12)	5	M5	10.7	6.11													
		8~22	10N~17N			33	35	32.5	28	11.69					-														
			8~32		10N~30N	34	36	33.5	28	12.13				6.92															
		8~34			10N~32N	35	37	34.5	28	12.52				7.14															
			10~38		10N~36N	36	38	35.5	28	12.92				7.36															
		10~44			12N~42N	37	39	36.5	28	13.32				7.58															
			10~48		15N~46N	38	40	37.5	28	13.72				7.80															
		17~50			17N~48N	39	41	38.5	28	14.12				8.02															
			17~58		17N~50N	40	42	39.5	28	14.52				8.24															
		Keyway (Shape A) (19 teeth or more) Keyway + Tap (Shape B) (19 teeth or more) GEAKB GEAKBB GEAKBG GEAKS			1	41	12	A	10~44	41				43	40.5	30	30	10 (B=12)	5	M5	14.31	8.17							
10~48	12N~46N		42	44		41.5			30	15.24	8.7																		
	10~48		15N~46N	43		45		42.5	30	16.18	-																		
17~50			17N~48N	44		46		43.5	30	16.66	9.51																		
	17~58		17N~50N	45		47		44.5	30	17.14	-																		
17~58			17N~50N	46		48		45.5	30	17.62	10.3																		
	17~58		17N~50N	47		49		46.5	30	18.04	10.82																		
17~58			17N~50N	48		50		47.5	30	18.46	11.34																		
	17~58		17N~50N	49		51		48.5	30	18.87	11.87																		