


Spur Gear

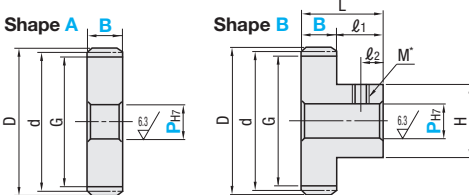
Pressure Angle 20°, Module 2.5, Shaft Bore Configurable Type



Type			Material	Surface Treatment	Accessory
Straight Bore	Straight Bore + Tap	Keyway, Keyway + Tap			
GEAHB	GEAB	GEAKB	S45C	-	Set Screw (SCM435, Black Oxide)
GEAHBB	GEABBB	GEAKBB	Equivalent	Black Oxide	

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

Gear Shape



⊗ Tapped shaft bores are not available for Shape A.

Shaft Bore Specifications (Selectable Gear Shapes)	
Straight Bore (Shape A, Shape B)	Straight Bore + Tap (Shape B)
Keyway (Shape A) Keyway + Tap (Shape B)	

⚠ For Tap, Keyway Dimension Details, see **P.1532**
 ⚠ Positioning of keyway and teeth is not fixed.

Accuracy Previous JIS B 1702 Class 4 (New JIS B 1702-1 Class 8 Equivalent)

RoHS10

When desiring to fix the gear hub onto the shaft through MechaLock, see Keyless Type on **P.1557**. For configuring the tooth width / hub dimensions, see **P.1551**.

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	l ₁	l ₂	M (Coarse)	*1 Allowable Transmission Force (N·m) Bending Strength S45C Equivalent
				Straight Bore	Keyway, Keyway + Tap									
Straight Bore (Shape A, Shape B) GEAHB GEAHBB	12	2.5	A B	8-13	8N	30	35	23.75	23	37	12	6	M5	38.58
	14			8-15	8N-12N	35	40	28.75	25					49.96
	15			8-20	8N-15N	37.5	42.5	31.25	30					55.96
	16			8-22	8N-17N	40	45	33.75	32					61.98
	17			8-24	8N-19N	42.5	47.5	36.25	35					68.13
	18			8-26	8N-22N	45	50	38.75	38					74.36
	19			8-27		47.5	52.5	41.25	39					80.6
	20			8-28	8N-23N	50	55	43.75	40					87.09
	21			8-30	8N-27N	52.5	57.5	46.25	42					93.5
	22			8-32	8N-29N	55	60	48.75	44					100.13
	23			8-34	8N-30N	57.5	62.5	51.25	46					106.58
	24			8-36	8N-32N	60	65	53.75	48					113.19
	25			8-38	8N-33N	62.5	67.5	56.25	50					119.98
	26			8-43	8N-37N	65	70	58.75	55					126.94
	27			8-48	8N-40N	67.5	72.5	61.25	60					133.57
	28					70	75	63.75	60					140.86
	29			8-49	8N-41N	72.5	77.5	66.25	62					147.18
	30			8-51	8N-43N	75	80	68.75	65					154.16
	32			8-55	8N-47N	80	85	73.75	70					167.17
	34			10-55	10N-47N	85	90	78.75						182.65
	35			10-57	10N-49N	87.5	92.5	81.25	75					189.48
	36					90	95	83.75						195.56
	38			10-60	10N-50N	95	100	88.75	80					210.35
	40					100	105	93.75						223.66
	42			10-60	12N-50N	105	110	98.75	85					238.12
	44					110	115	103.75						252.85
	45			12-60	15N-50N	112.5	117.5	106.25	M6					260.32
	46					115	120	108.75						267.86
	48			15-60	15N-50N	120	125	113.75	85					281.94
	50					125	130	118.75						296.17
	52			25-60	15N-50N	130	135	123.75	85					310.53
	54					135	140	128.75						325.04
55	150	155	137.5	142.5	131.25	85	333.08							
56			140	145	133.75		341.19							
58	145	150	145	150	138.75	85	354.5							
60			150	155	143.75		369.44							
62	155	160	155	160	148.75	85	382.84							
64			160	165	153.75		398.01							
65	162.5	167.5	162.5	167.5	156.25	85	404.75							
68			170	175	163.75		428.78							
70	175	180	175	180	168.75	85	442.41							
72			180	185	173.75		456.04							
75	187.5	192.5	187.5	192.5	181.25	85	478.65							
80			200	205	193.75		396.36							

⊗ Shaft bore diameter 9N is not available for Keyway Bore + Tap. ⚠ The "-" text on the above table means that any Shaft Bore Dia. is not selectable.

⚠ Specify 10K as the P dimension if keyway width of 4.0mm (height 1.8mm) for Keyway + Tap with shaft bore diameter of 10 is desired **P.1532**.

*1. Allowable Transmission Forces in the table are reference values calculated with prescribed conditions. For conditions, see **P.1534**.

Ordering Example	Part Number	-	Number of Teeth	-	B	-	Gears Shape	-	P
	GEAB2.5	-	15	-	25	-	B	-	8
	GEAKB2.5	-	30	-	25	-	A	-	10N