

Spur Gear

Pressure Angle 20°, Module 1.5 Shaft Bore Configurable Type



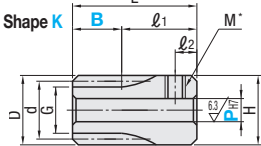
RoHS 10

Type			Material	Surface Treatment	Accessory
Straight Bore	Straight Bore + Tap	Keyway, Keyway + Tap			
GEAHB	GEAB	GEAKB	EN 1.1191 Equiv.	-	Set Screw (EN 1.7220 Equiv., Black Oxide)
GEAHBB	GEABB	GEAKBB		Black Oxide	
GEAHBG	GEABG	GEAKBG		Electroless Nickel Plating	
GEAHS	GEAS	GEAKS	EN 1.4301 Equiv.	-	Set Screw (EN 1.4301 Equiv.)

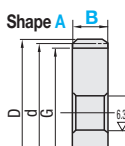
⚠ Set Screw is not included in Un-tapped Type products.
⚠ Selectable Gear Shapes differ depending on the number of teeth. Check the spec. table.

Gear Shape

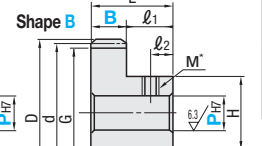
Shape K



Shape A



Shape B



Shaft Bore Specifications (Selectable Gear Shapes)

Straight Bore (Shape A, Shape B, Shape K)

Keyway (Shape A)

Keyway + Tap (Shape B, Shape K)

⚠ Keyway Dimension Details **P.1498**
⚠ Positioning of keyway and teeth is not fixed.
Accuracy Previous JIS B 1702 Class 4 (New JIS B 1702-1 Class 8 Equiv.)
⚠ Tapped shaft bores are not available for Shape A.

For alterations on tooth width and hub dimensions, see **P.1513**.

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 (Coarse)	*1. Allowable Transmission Force (N·m) Bending Strength			
Type	Module				Straight Bore Straight Bore + Tap	Keyway, Keyway + Tap												
Straight Bore (Shape A, Shape B, Shape K) GEAHB GEAHBB GEAHBG GEAHS	1.5	12	15	A	K	6-12	8N	18	21	14.25	21	30	15	4	M4	8.33	4.76	
		6-13				19.5		22.5	15.75	22.5	9.55					5.45		
		6-8				21		24	17.25	16	10.79					6.16		
		*15				22.5		25.5	18.75	18	12.09					-		
		16				6-12		24	27	20.25	20	24	9	13.39		7.64		
		17				25.5		28.5	21.75	21	14.72						8.40	
		18				6-13		27	30	23.25	22						16.06	9.17
		19				6-15		28.5	31.5	24.75	24						17.41	9.94
		20				6-16		30	33	26.25	25	18.81	10.74					
		21				31.5		34.5	27.75	20.20		11.52						
		22				6-17		33	36	29.25	26	21.63	12.34					
		23				6-18		34.5	37.5	30.75	27	23.02	13.14					
		24				6-20		36	39	32.25	30	24.45	13.95					
		25				37.5		40.5	33.75	25.92		14.79						
		26				6-22		39	42	35.25	32	27.42	15.65					
		27				6-23		40.5	43.5	36.75	34	28.85	16.46					
		28				42		45	38.25	30.43		17.36						
		29				6-24		43.5	46.5	39.75	35	31.79	18.14					
		30				45		48	41.25	33.30		19.00						
		*32				8N-24N		48	51	44.25	40	36.11	-					
		34						51	54	47.25		39.45	22.51					
		35						52.5	55.5	48.75		40.93	23.35					
		36						54	57	50.25		42.24	24.10					
		38						6-31	57	60	53.25	45	45.44	25.93				
		40						60	63	56.25	48.31		27.57					
		42						63	66	59.25	51.43		29.35					
		44						66	69	62.25	54.62		31.17					
		45						10N-28N	67.5	70.5	63.75	50	56.23	32.09				
		46							69	72	65.25		57.86	33.02				
		48							72	75	68.25		60.90	34.75				
		50							75	78	71.25		63.97	36.51				
		52				8-35		78	81	74.25	55	67.07	38.28					
54	81	84	77.25	70.21	40.07													
55	82.5	85.5	78.75	71.94	41.06													
56	84	87	80.25	73.70	42.05													
58	12N-31N	87	90	83.25	65	76.57	43.70											
60		90	93	86.25		79.80	45.54											
62		93	96	89.25		82.69	47.19											
64		96	99	92.25		85.97	49.06											
65	12N-35N	97.5	100.5	93.75	70	87.43	49.89											
66		99	102	95.25		89.28	50.95											
68		102	105	98.25		92.62	52.85											
70		105	108	101.25		95.56	54.53											
72	12N-42N	108	111	104.25	75	98.50	56.21											
75		112.5	115.5	108.75		103.39	59.00											
*80		120	123	116.25		111.30	-											
84		126	129	122.25		117.79	67.22											
85		127.5	130.5	123.75		119.29	68.07											
90		135	138	131.25		127.36	72.68											
95		142.5	145.5	138.75		135.52	77.33											
100		150	153	146.25		143.75	82.03											
120	12-49	180	183	176.25	175.06	99.90												