

Spur Gear

Pressure Angle 20°, Module 2.0, Shaft Bore Configurable Type

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

For products uncovered by the e-Catalog Standard, see P.131.

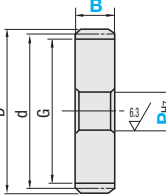


Type			Material	Surface Treatment	Accessory
Straight Bore	Straight Bore + Tap	Keyway, Keyway + Tap			
GEAHB	GEAB	GEAKB	S45C Equivalent	Black Oxide	Set Screw (SCM435, Black Oxide)
GEAHBB	GEABB	GEAKBB			
-	GEABG	GEAKBG			
GEAHS	-	GEAKS	SUS304	Electroless Nickel Plating	Set Screw (SUS304)

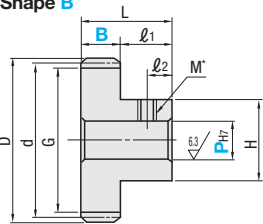
Set Screw is not included in Un-tapped Type products.

Gear Shape

Shape A



Shape B



Shaft Bore Specifications (Selectable Gear Shapes)

Straight Bore (Shape A, Shape B)



Keyway (Shape A)



Straight Bore + Tap (Shape B)



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. P17 (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									S45C Equivalent	SUS304
Straight Bore (Shape A, Shape B) GEAHB GEAHBB GEAHS	2	12	20	A	8	8N	24	28	19	18	30	10	5	M5	19.75	11.27
		13			8~11	8N	26	30	21	20					22.65	12.92
		14					28	32	23						25.58	14.6
		15			8~15	8N~12N	30	34	25	24					28.65	16.35
		16			8~16		32	36	27	25					31.73	18.11
		17			8~19	8N~14N	34	38	29	28					34.89	19.91
		18			8~21	8N~16N	36	40	31	30					38.07	21.73
		19			8~21	8N~17N	38	42	33	31					41.27	23.55
		20			8~23	8N~18N	40	44	35	33					44.59	25.45
		21			8~23	8N~19N	42	46	37	34					47.87	27.32
		22			8~25	8N~21N	44	48	39	36					51.27	29.26
		23			8~25	8N~22N	46	50	41	37					54.57	31.14
		24			8~28	8N~23N	48	52	43						57.96	33.07
		25			8~30	8N~27N	50	54	45	40					61.43	35.05
		26			8~30	8N~27N	52	56	47	42					64.99	37.09
		27			8~33	8N~30N	54	58	49	45					68.39	39.02
		28			8~35	8N~31N	56	60	51						72.12	41.16
		29			8~36	8N~32N	58	62	53	47					75.35	43
		30			8~38	8N~33N	60	64	55	48					78.93	45.04
Straight Bore + Tap (Shape B) GEAB GEABB GEABG	2	32		B	10~38	10N~33N	64	68	59	50	34	14	7	M6	85.59	48.84
		34			10~40	10N~35N	68	72	63						93.52	53.37
		35			10~43	10N~37N	70	74	65	52					97.01	55.36
		36					72	76	67						100.13	57.14
		38					76	80	71	55					107.7	61.46
		40					80	84	75						114.52	65.35
		42			10~48	10N~40N	84	88	79						121.92	69.57
		44					88	92	83	60					129.46	73.88
		45					90	94	85						133.29	76.06
		46					92	96	87						137.15	78.26
Keyway (Shape A) Keyway + Tap (Shape B) GEAKB GEAKBB GEAKS	2	48		A	10~50	10N~42N	96	100	91	62	34	14	7	M6	144.35	82.38
		50					100	104	95						151.64	86.53
		52					104	108	99						158.99	90.73
		54					108	112	103						166.42	94.97
		55			12~52	12N~44N	110	114	105						170.54	97.32
		56					112	116	107						174.69	99.69
		58					116	120	111						181.5	103.58
		60					120	124	115						189.16	107.94
		62					124	128	119						196.02	111.86
		64			15~52	15N~44N	128	132	123						203.78	116.29
	2	65		B			130	134	125		34	14	7	M6	207.23	118.26
		66					136	140	131						219.54	125.28
		68					140	144	135						226.51	129.26
		70					144	148	139						233.49	
		*72			20~52	20N~44N	150	154	145						245.07	
		*80					160	164	155						263.82	
		*85					170	174	165						282.76	
		*90			20~55	20N~47N	180	184	175	70					301.9	
		*95					190	194	185						321.22	
		*100					200	204	195						262.11	

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

Shaft bore diameter 9N is not available for Keyway Bore + Tap.

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	-	Gear Shape	-	P
	GEAKBG2.0	-	15	-	20	-	B	-	10N
	GEAHB2.0	-	30	-	20	-	A	-	8

Gear shape will be "B" when not specified.

Number of Teeth	Unit Price								
	Straight Bore			Straight Bore + Tap			Keyway, Keyway + Tap		
	GEAHB	GEAHBB	GEAHS	GEAB	GEABB	GEABG	GEAKB	GEAKBB	GEAKBG
12									
13									
14									
15									
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17									
18									
19									
20									
21									
22									
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65									
68									
70									
72									
75									
80									
85									
90									
95									
100									



Alterations



Part Number

Number of Teeth

B

Gears Shape

P

(KC90, KC120, TPC, DHL, DHR, WDH, LFC, LTC, KTC, KFC, QFC, QTC)

GEAB2.0

- 15 - 20 - B - 8 - KC120

GEAHS2.0

- 50 - 20 - A - 20 - WDH-Q25-R25-S6-T5