


Spur Gear



Pressure Angle 20°, Module 0.5, Shaft Bore Configurable Type

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

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

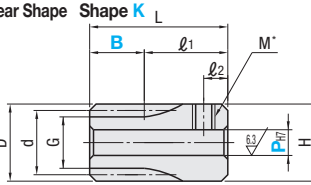


Type	Material	Surface Treatment	Accessory
Straight Bore	S45C Equivalent	Black Oxide	Set Screw (SCM435 Black Oxide)
Straight Bore + Tap	Free-Cutting Brass Bar SUS304	Electroless Nickel Plating	Set Screw (SUS304)

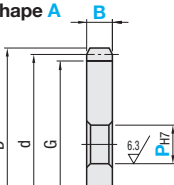
Shaft Bore Specifications (Selectable Gear Shapes)	
Straight Bore (Shape A, Shape B, Shape K)	Straight Bore + Tap (Shape B, Shape K)
	

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

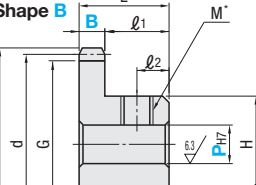
Gear Shape Shape K



Shape A



Shape B



Accuracy Previous JIS B 1702 Class 4 (New JIS B 1702-1 Class 8 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	Number of Teeth	B	Gear Shape	Shaft Bore Dia. Part (mm 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			Unit Price					
													S45C Equivalent	Free-Cutting Brass Bar	SUS304	Straight Bore			Straight Bore + Tap		
Type	Module			Straight Bore									GEAHB	GEABN	GEABB	GEABG	GEAB	GEABS			
(Selectable Gear Shapes) Straight Bore (Shape A, Shape B, Shape K) GEAHB Straight Bore + Tap (Shape B, Shape K) GEABN GEABB GEABG GEAB GEABS	15	8	K	3-5	7.5	8.5	6.25	9	18	10	3	M3	0.72	0.16	0.41						
	16				8	9	6.75						0.79	0.17	0.45						
	18				9	10	7.75						0.95	0.21	0.54						
	20				10	11	8.75						1.12	0.24	0.64						
	24				10	11	8.75						0.42	0.09	0.24						
	25				12.5	13.5	11.25						0.54	0.12	0.31						
	26				13	14	11.75						0.58	0.13	0.33						
	28				14	15	12.75						0.61	0.13	0.35						
	30				15	16	13.75						0.68	0.15	0.39						
	32				16	17	14.75						0.74	0.16	0.42						
	35	17.5	18.5	16.25	0.8	0.17	0.46														
	36	18	19	16.75	0.91	0.2	0.52														
	40	20	21	18.75	0.94	0.2	0.54														
	42	21	22	19.75	0.72	0.16	0.41														
	45	22.5	23.5	21.25	0.76	0.17	0.43														
	48	24	25	22.75	0.83	0.18	0.48														
	50	25	26	23.75	0.9	0.2	0.51														
	*52	26	27	24.75	0.95	0.21	0.54														
	*60	30	31	28.75	0.99	0.22															
	*70	35	36	33.75	1.18	0.26															
*80	40	41	38.75	1.42	0.31																
*100	50	51	48.75	1.65	0.36																
*120	60	61	58.75	2.13	0.46																
				2.59	0.56																

* marked number of teeth is not available for GEABS. Shaft Bore Dia. 6.35 is available. The "-" text on the above table means that any Shaft Bore Dia. is not selectable.

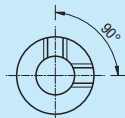
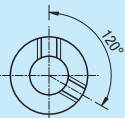
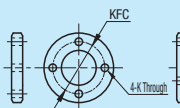
*1. Allowable Transmission Forces in the table are reference values calculated with prescribed conditions. For conditions, see P1534.

Ordering Example

Part Number	Number of Teeth	B	Gear Shape	P
GEAB0.5	20	3	B	3
GEAHB0.5	30	3	A	6
GEABS0.5	16	8	K	5

Alterations

Part Number	Number of Teeth	B	Gear Shape	P	(KC90, KTC---etc.)
GEAB0.5	20	3	B	3	KC120
GEAHB0.5	50	2	A	5	KFC15-K3.0

Alterations Code	Set Screw	Side Through Hole	Tapped Hole Dimension	
	KC90	KFC, KTC	TPC	
Spec.	<p>Adds another set screw at 90° position.</p> <ul style="list-style-type: none"> Not applicable to Shape A. Not applicable to Straight Bore Type. 	<p>Adds another set screw at 120° position.</p> <ul style="list-style-type: none"> Not applicable to Shape A. Not applicable to Straight Bore Type. 	<p>Machines through holes on the side surface.</p> <p>(KFC, KTC: 1mm Increment, K: 0.5mm Increment)</p> <p>Applicable to Shape A only. P+K+4<KFC(KTC)<=G-K-4</p> <p>[K Selection] K3.0-K6.0 [Ordering Code] KFC15-K3.5</p> 	<p>Changes the tapped hole dimension to M4.</p> <p>[Ordering Code] TPC4</p> <ul style="list-style-type: none"> Not applicable to Shape A. Not applicable to Straight Bore Type. 