

Spur Gear

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

Fixing Parts				Others		
Rotary Shaft	Canllever Shaft	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	Shaft Bore Specifications (Selectable Gear Shapes)	
Straight Bore	Straight Bore + Tap			Straight Bore (Shape A, Shape B, Shape K)	Straight Bore + Tap (Shape B, Shape K)
-	GEABN	-	-		
-	GEABB	S45C Equivalent	Set Screw (SCM435 Black Oxide)		
-	GEABG	Electroless Nickel Plating	-		
-	GEABH	Free-Cutting Brass Bar	Set Screw (SUS304)		
-	GEABS	SUS304	-		

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

Accuracy Previous JIS B 1702 Class 4 (New JIS B 1702-1 Class 3 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. P (1mm Increment)	d	D	G	H	L	l1	l2	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												GEABH	GEABN	GEABB	GEABG	GEABH	GEABS									
(Selectable Gear Shapes)	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	13	10.75	0.54	0.12						0.31														
	26		12.5	13.5	11.25	0.58	0.13						0.33														
	28		13	14	11.75	0.61	0.13						0.35														
	30		14	15	12.75	0.68	0.15						0.39														
	32		15	16	13.75	0.74	0.16						0.42														
	35	16	17	14.75	0.8	0.17	0.46																				
	40	17.5	18.5	16.25	0.91	0.2	0.52																				
	42	18	19	16.75	0.94	0.2	0.54																				
	45	20	21	18.75	0.72	0.16	0.41																				
	48	21	22	19.75	0.76	0.17	0.43																				
	50	22.5	23.5	21.25	0.83	0.18	0.48																				
	*52	24	25	22.75	0.9	0.2	0.51																				
	*60	25	26	23.75	0.95	0.21	0.54																				
	*70	26	27	24.75	0.99	0.22																					
	*80	30	31	28.75	1.18	0.26																					
*100	35	36	33.75	1.42	0.31																						
*120	40	41	38.75	1.65	0.36																						
	50	51	48.75	2.13	0.46																						
	60	61	58.75	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
GEABH0.5	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
GEABH0.5	50	2	A	5	KFC15-K3.0

Alterations	Set Screw	Side Through Hole	Tapped Hole Dimension	
Code	KC90	KC120	KFC, KTC	
Spec.	<p>Adds another set screw at 90° position.</p> <p>Not applicable to Shape A.</p> <p>Not applicable to Straight Bore Type.</p>	<p>Adds another set screw at 120° position.</p> <p>Not applicable to Shape A.</p> <p>Not applicable to Straight Bore Type.</p>	<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> <p>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> <p>Not applicable to Shape A.</p> <p>Not applicable to Straight Bore Type.</p>

Spur Gear

Pressure Angle 20°, Module 0.8, Shaft Bore Configurable Type

Fixing Parts				Others		
Rotary Shaft	Canllever Shaft	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	Shaft Bore Specifications (Selectable Gear Shapes)	
Straight Bore	Straight Bore + Tap			Straight Bore (Shape A, Shape B, Shape K)	Straight Bore + Tap (Shape B, Shape K)
-	GEABN	-	-		
-	GEABB	S45C Equivalent	Set Screw (SCM435 Black Oxide)		
-	GEABG	Electroless Nickel Plating	-		
-	GEABH	Free-Cutting Brass Bar	Set Screw (SUS304)		
-	GEABS	SUS304	-		

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

Accuracy Previous JIS B 1702 Class 4 (New JIS B 1702-1 Class 3 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. P (1mm Increment)	d	D	G	H	L	l1	l2	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												GEABH	GEABN	GEABB	GEABG	GEABH	GEABS								
(Selectable Gear Shapes)	12	7	K	4, 5	9.6	11.2	7.6	11.2	20	13	3	M3	1.11	0.24	0.63											
	14				8	9	8.6						1.2	0.25	0.68											
	16				9	10	9.6						1.3	0.26	0.73											
	18				10	11	10.6						1.4	0.27	0.78											
	20				10	11	10.6						1.5	0.28	0.83											
	24		12	13	12.6	1.8	0.33						1.01													
	25		12.5	13.5	13.6	1.9	0.34						1.06													
	28		13	14	14.6	2.1	0.36						1.16													
	30		14	15	15.6	2.2	0.37						1.21													
	32		15	16	16.6	2.3	0.38						1.26													
	35	16	17	17.6	2.4	0.39	1.31																			
	40	17.5	18.5	18.6	2.6	0.41	1.41																			
	42	18	19	19.6	2.7	0.42	1.46																			
	45	19	20	20.6	2.8	0.43	1.51																			
	48	20	21	21.6	2.9	0.44	1.56																			
	50	21	22	22.6	3.0	0.45	1.61																			
		22.5	23.5	23.6	3.1	0.46	1.66																			
		24	25	24.6	3.2	0.47	1.71																			
		25	26	25.6	3.3	0.48	1.76																			
		26	27	26.6	3.4	0.49	1.81																			
	30	31	31.6	3.6	0.51	1.91																				
	35	36	36.6	3.9	0.54	2.06																				
	40	41	41.6	4.2	0.56	2.21																				

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

For conditions, see P1534. Shaft Bore Dia. 6.35 is available. The "-" text on the above table means that any Shaft Bore Dia. is not selectable.

Ordering Example

Part Number	Number of Teeth	B	Gears Shape	P
GEAB0.8	25	5	B	6
GEABH0.8	30	7	A	8
GEABS0.8	15	7	K	5

Alterations

Part Number	Number of Teeth	B	Gears Shape	P	(KC90, TPC, DHL, WDH, etc.)
GEAB0.8	30	7	B	6	KC120
GEABH0.8	40	5	A	8	QTC16-M4

Alterations	Set Screw	Tapped Hole Dimension	Stepped Hole	Both Ends Stepped Bore						
Code	KC90, KC120	TPC	DHL, DHR	WDH						
Spec.	<p>KC90: Adds another set screw at 90° position.</p> <p>KC120: Adds another set screw at 120° position.</p> <p>Not applicable to Shape A.</p> <p>Not applicable to Straight Bore Type.</p>	<p>Changes the tapped hole dimension.</p> <p>[Ordering Code] TPC4</p> <p>Not applicable to Shape A.</p> <p>Not applicable to Straight Bore Type.</p> <table border="1"> <tr> <td>Number of Teeth</td> <td>TPC</td> </tr> <tr> <td>16-32</td> <td>M4</td> </tr> <tr> <td>36-50</td> <td>M3 M5</td> </tr> </table>	Number of Teeth	TPC	16-32	M4	36-50	M3 M5	<p>Changes shaft bores to stepped bores.</p> <p>(Z: 1mm Increment, J: 0.1mm Increment)</p> <p>[Ordering Code] DHL-Z20-J2.0</p> <p>Applicable to Straight Bore Type Only.</p>	<p>Changes shaft bores to both ends stepped bore.</p> <p>(Q, R, S, T: 1mm Increment)</p> <p>[Ordering Code] WDH-Q10-R10-S5-T5</p>
Number of Teeth	TPC									
16-32	M4									
36-50	M3 M5									

Alterations	Side Slotted Hole	Side Through Hole	Side Tapped Hole
Code	LFC, LTC	KFC, KTC	QFC, QTC
Spec.	<p>Machines slotted holes on the side surface (30°).</p> <p>(LFC, LTC: 1mm Increment)</p> <p>P+C+4≤LFC(LTC)≤G-C-4</p> <p>Applicable to Shape A only.</p> <p>[M Selection] M3, M4, M5, M6</p> <p>[Ordering Code] LFC20-M3</p>	<p>Machines through holes on the side surface.</p> <p>(KFC, KTC: 1mm Increment)</p> <p>K: 0.5mm Increment</p> <p>Applicable to Shape A only.</p> <p>P+K+4≤KFC(KTC)≤G-K-4</p> <p>[K Selection] K3.0-K6.0 [Ordering Code] KFC20-K3.5</p>	<p>Machines tapped holes on the side surface of the gear.</p> <p>(QFC, QTC: 1mm Increment)</p> <p>Applicable to Shape A only.</p> <p>P+M+4≤QFC(QTC)≤G-M-4</p> <p>[M Selection] M3, M4 [Ordering Code] QFC25-M3</p> <p>Tapped Hole Depth Mx1.5 (When B<Mx1.5, through)</p>