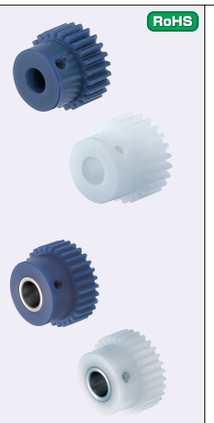
Resin Spur Gears

—Pressure Angle 20° Module 0.5/0.8/1.0/1.5/2.0—

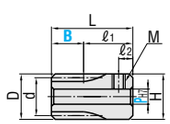
For similar dimensions, refer to Mechanical Custom Components Catalog : P.119～124

CAD Data Folder Name : Spur_Gears File Name gm □□ (Module) □□ (No. of Teeth) □□.dxf (B Dim.)

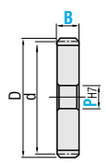


Type	M	
	Gears	Core Rods
GEABM	MC Nylon	—
GEABMS		S45C
GEABP	Polyacetal	—
GEABPS		S45C

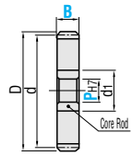
Tooth Shape : K Shape



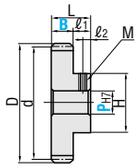
Tooth Shape : A Shape



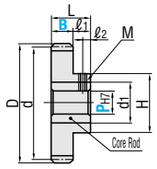
(with Core Rod)



Tooth Shape : B Shape



(with Core Rod)



Precision JIS B 1702 Class 4

(P) P Dimension of GEABM (MC nylon) may shorten due to water absorption.

Catalog No. Type	Module	Teeth No.	B	Shaft Hole Dia. PH7	Tooth Shape	d	D	H	L	ℓ1	ℓ2	M (Coarse)	d1	Unit Price GEABM, GEABP	Qty. 1～4 GEABMS, GEABPS
GEABM (MC Nylon) GEABP (Polyacetal)	0.5	15	8	3 4 5	K	7.5	8.5	9	18	10	3	M3	—	840	—
		16				8	9							840	
		18		3 4 5 6		9	10	10						840	
		20				10	11	11						840	
		20	3	3 4 5	B	10	11	8.5	8	5	2.5			840	
		24				12	13	10						840	
		25				12.5	13.5							840	
		28				14	15							840	
		30				15	16							1,010	
		32		3 4 5 6		16	17							1,010	
		36				18	19							1,140	
		40				20	21		7					1,140	
		45	2			22.5	23.5							1,140	
		48				24	25							1,270	
		50				25	26							1,270	
	0.8	12	7	4 5	K	9.6	11.2	11.2	20	13	3	M3	—	840	—
		14				11.2	12.8	12.8						840	
		15				12	13.6	13.6						840	
		16	5	4 5 6	B	12.8	14.4	10	14	9				840	
		18				14.4	16							990	
		20				16	17.6							990	
		24				19.2	20.8	12.5						1,180	
		25		5 6 8		20	21.6							1,180	
		28				22.4	24							1,180	
		30				24	25.6							1,300	
		32				25.6	27.2				4	M4		1,300	
		36				28.8	30.4	14						1,410	
		40		6 8		32	33.6							1,410	
		45				36	37.6							1,640	
		48				38.4	40							1,670	
		50				40	41.6							1,670	
	1.0	＊15	12	6	A	15	17	—	—	—	—	—	10	1,010	1,440
		16			K	16	18	18	25	13	3	M3	—	1,020	—
		＊18	10	8	B	18	20	15	20	10	4	M4	12	1,040	1,470
		＊20				20	22	16						1,070	1,500
		＊24				24	26	20						1,170	1,600
		＊25				25	27							1,200	1,630
		＊26				26	28	22						1,220	1,650
		＊30				30	32	25						1,380	1,860
		＊35				35	37	26						1,570	2,050
		＊36				36	38	28						1,680	2,160
		＊40		10		40	42	30					14	1,990	2,470
		＊45				45	47							2,120	2,600
		＊48				48	50							2,410	2,890
		＊50				50	52	35						2,440	2,920
	1.5	＊16	15	8	B	24	27	20	27	12	3	M3	12	1,200	1,630
		＊18		10		27	30	22			4	M4	14	1,250	1,730
		＊20				30	33	25						1,440	1,920
		＊24		12		36	39	30						1,620	2,130
		＊25				37.5	40.5						16	2,060	2,560
		＊26				39	42	32						2,090	2,600
		＊28		14		42	45	34					18	2,140	2,690
		＊30				45	48	35						2,190	2,740
		＊35		16		52.5	55.5	40						2,780	3,370
		＊36				54	57						20	2,820	3,400
		＊40				60	63	45						3,160	3,740
	2.0	＊16	20	12		32	36	25	34	14			16	1,770	2,280
		＊20		14		40	44	33					18	2,190	2,700
		＊24		18		48	52	40					22	2,710	3,260
		＊25				50	54							2,900	3,490
		＊30		20		60	64	48						3,310	3,890
		＊32				64	68	50					24	3,710	4,330
		＊40				80	84	60						4,130	4,780

(P) Types with Core Rods are available for the numbers of teeth marked with ＊ only.

Order Example

Catalog No.	—	Teeth No.	—	B	—	P
GEABM1.0	—	20	—	10	—	8
GEABP 1.5	—	40	—	15	—	16

Production Time: 3 Days

Express A 500 yen/piece P.82

(P) A flat charge of 1,350 yen for 3 or more identical pieces.

•Module 2.0 only: 5 Days

Price

■Volume Discount Rate (P) Round down to the nearest one yen. P.81

Quantity	1～4	5～9	10～14	15～29
Rate	—	5%	10%	15%

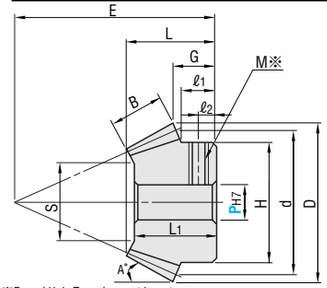
(P) For orders larger than indicated values, please request for quotation.

Bevel Gears

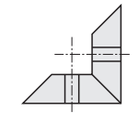
—Pressure Angle 20° Straight, Spiral Type Module 1.0/1.5—

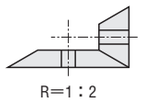
CAD Data Folder Name : Spur_Gears File Name (KGEAST) kgs □□ (Module) □□ (No. of Teeth) □□.dxf (Gear Ratio)
(KGEAPT) kgp □□ □□ □□.dxf

Type: Straight Type: Round Hole	Straight Type: Round Hole+Tap	Straight Type: Key Groove Hole+Tap	Spiral Type: Round Hole	Spiral Type: Round Hole+Tap	Spiral Type: Key Groove Hole+Tap	M	S	A
KGEASH	KGEAST	KGEASK	KGEAPH	KGEAPT	KGEAPK	S45C	—	Set Screws ※Not attached for Round Hole Type.
KGEASHB	KGEASTB	KGEASKB	KGEAPHB	KGEAPTB	KGEAPKB		Black Oxide	
KGEASHG	KGEASTG	KGEASKG	KGEAPHG	KGEAPTG	KGEAPKG		Electroless Nickel Plating	



※Round Hole Type does not have taps.





Shaft Hole Specifications

Round Hole	Round Hole+Tap	Key Groove Hole+Tap

(P) Key Groove Hole Dimension Details P.1940

Precision JIS B 1704 Class 4

■Straight Type

Catalog No. Type	Module	Nominal	Shaft Hole Dia. PH7 1 mm Increment: Round Hole Round Hole+Tap	Shaft Hole Dia. PH7 1 mm Increment: Key Groove Hole+Tap	Teeth No.	R (Gear Ratio)	Matching Nominal	B	H	d	D	S	E	L	G	ℓ1	ℓ2	L1	A°	M (Coarse)
Round Hole KGEASH KGEASHB KGEASHG Round Hole+Tap KGEAST KGEASTB KGEASTG Key Groove Hole+Tap KGEASK KGEASKB KGEASKG	1.0	2020	6, 8	6, 8	20	1 : 1	2020	4.3	16	20	21.41	11.8	21	14.53	11.71	9	4.5	13	49° 3′	M4
		2525	6, 8, 10	6, 8, 10	25		2525	5.3	20	25	26.41	15	23	14.7	11.21	8	4	13	48° 51′	M4
		3030	8, 10, 12	8, 10, 12	30		3030	6.2	22	30	31.41	19.4	26	15.89	11.71	8.9	4.5	14.5	47° 42′	M4
		2040	6, 8	8	20	1 : 2	4020	5.7	16	20	21.79	12.1	29.6	15.03	10.05	8.6	4	14	29° 8′	M4
		4020	8, 10, 12	8, 10, 12	40		2040	5.7	25	40	40.89	28.4	21.8	15.02	12.69	8	4	13	66° 0′	M4
	1.5	2020	10, 12	10, 12	20	1 : 1	2020	6.8	24	30	32.12	17.7	28	18.53	14.06	10	5	16.5	49° 3′	M4
		2525	10～14	10～14	25		2525	7.5	30	37.5	39.62	23.7	34	21.26	16.31	11.5	5	19	48° 51′	M4
		3030	12～16	12～16	30		3030	9.3	33	45	47.12	29.6	38	22.83	16.56	12.34	6	21	47° 42′	M5
		1836	8, 10, 12	8	18	1 : 2	3618	9.8	22	27	29.68	12.2	40.74	22.96	14.41	12.5	6	21	29° 25′	M4
		3618	10～15	10～15	36		1836	9.8	30	54	55.34	34.3	26.75	18.54	14.59	10	5	15.5	66° 17′	M5

■Spiral Type (Twisting Angle 35°)

Catalog No. Type	Module	Nominal	Shaft Hole Dia. PH7 1 mm Increment: Round Hole Round Hole+Tap	Shaft Hole Dia. PH7 1 mm Increment: Key Groove Hole+Tap	Twisting Direction	Teeth No.	R (Gear Ratio)	Matching Nominal	B	H	d	D	S	E	L	G	ℓ1	ℓ2	L1	A°	M (Coarse)
Round Hole KGEAPH KGEAPHB KGEAPHG Round Hole+Tap KGEAPT KGEAPTB KGEAPTG Key Groove Hole+Tap KGEAPK KGEAPKB KGEAPKG	1.0	2020	6, 8	8	L R (Left) (Right)	20	1 : 1	2020	4.5	16	20	21.12	11.3	21	14.43	11.56	9	4.5	13	50° 31′	M4
		3030	10, 12	10, 12		30		3030	6.2	22	30	31.09	19.4	26	15.67	11.54	9	4.5	14.5	48° 21′	M5
		2040	8, 10, 12	8	L(Left)	20	1 : 2	4020	5.7	16	20	21.87	12.1	29.6	15	10.07	8.6	4	14	30° 13′	M4
		4020	10, 12	10, 12	R(Right)	40		2040	5.7	25	40	40.41	28.4	21.8	14.57	12.21	8	4	13	65° 36′	M5
	1.5	2020	10, 12	10, 12	L R	20	1 : 1	2020	7	24	30	31.85	17.2	28	18.44	13.93	10	5	16.5	50° 5′	M4
		3030	12～16	12～16	(Left) (Right)	30		3030	9.3	33	45	46.79	29.7	38	22.64	16.4	12	6	21	47° 54′	M5
		1836	8, 10, 12	8	L(Left)	18	1 : 2	3618	9.8	22	27	30.09	12.2	40.74	22.96	14.51	12.49	6	21	30° 44′	M4
		3618	10～15	10～15	R(Right)	36		1836	9.8	30	54	54.76	34.3	26.75	18.01	14.01	9	4.5	15.5	65° 57′	M5

(P) Shaft Hole Dia. 11 is not available. (P) Round Hole is not applicable to 3030, 2040 and 4020 of Spiral Type Module 1.0. (P) Select Spiral Type gears appropriately so that they make a right pair of L and R.
(P) Bevel gears may not work properly when used as meshing gears for other manufacturers'. Please select a pair of bevel gears.

Order Example

Catalog No.	—	Nominal (Teeth No., Matching Teeth Number)	—	Shaft Hole Dia. PH7	—	Twisting Direction
KGEASH1.0	—	2020	—	6		
KGEAPTG1.5	—	3618	—	10	—	R

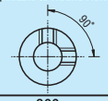
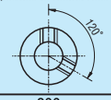
Production Time: 3 Days

Module	Nominal	Unit Price Qty. 1～10: Straight Type: Round Hole KGEASH	KGEASHB	KGEASHG	Straight Type: Round Hole+Tap KGEAST	KGEASTB	KGEASTG	Straight Type: Key Groove Hole+Tap KGEASK	KGEASKB	KGEASKG	Spiral Type: Round Hole KGEAPH	KGEAPHB	KGEAPHG	Spiral Type: Round Hole+Tap KGEAPT	KGEAPTB	KGEAPTG	Spiral Type: Key Groove Hole+Tap KGEAPK	KGEAPKB	KGEAPKG
1.0	2020	1,480	1,630	1,850	1,920	2,110	2,400	2,160	2,370	2,700	1,720	1,890	2,150	2,150	2,370	2,690	2,400	2,640	3,000
	2525	1,780	1,960	2,230	2,220	2,440	2,780	2,460	2,710	3,080	—	—	—	—	—	—	—	—	—
	3030	2,120	2,340	2,660	2,560	2,820	3,200	2,810	3,090	3,510	—	—	—	3,070	3,380	3,840	3,320	3,650	4,150
	2040	1,850	2,040	2,320	2,290	2,520	2,860	2,530	2,790	3,170	—	—	—	2,560	2,820	3,200	2,810	3,090	3,510
	4020	3,010	3,310	3,760	3,450	3,790	4,310	3,690	4,060	4,610	—	—	—	3,650	4,020	4,570	3,890	4,280	4,870
1.5	2020	1,800	1,980	2,250	2,240	2,460	2,800	2,480	2,730	3,100	2,160	2,370	2,700	2,600	2,860	3,250	2,840	3,120	3,550
	2525	2,480	2,730	3,100	2,920	3,210	3,650	3,160	3,480	3,950	—	—	—	—	—	—	—	—	—
	3030	3,100	3,420	3,880	3,400	3,740	4,250	3,640	4,000	4,550	3,840	4,220	4,800	4,130	4,540	5,160	4,370	4,810	5,460
	1836	2,450	2,690	3,060	2,890	3,170	3,610	3,130	3,440	3,910	3,010	3,310	3,760	3,450	3,790	4,310	3,690	4,060	4,610
	3618	4,690	5,160	5,860	4,980	5,480	6,220	5,220	5,740	6,530	5,880	6,470	7,350	6,170	6,790	7,710	6,410	7,050	8,020

(P) For orders larger than indicated values, please request for quotation.

Alterations

Catalog No.	—	Nominal	—	Shaft Hole Dia. PH7	—	Twisting Direction	—	(KC90, KC120)
KGEAPTB1.0	—	3030	—	10	—	R	—	KC90

Alterations	Set Screw	
Code	KC90	KC120
Details	Adds another set screw at the position of 90°. ⊗Not applicable to Round Hole Type. 	Adds another set screw at the position of 120°. ⊗Not applicable to Round Hole Type. 
Price Adder	200	200