

# Bevel Gear

Pressure Angle 20°, Straight / Spiral Type, Module 1.0, 1.5, 2.0



Type					Material	Surface Treatment	Accessory
Straight Type		Spiral Type					
Straight Bore	Straight Bore + Tap	Keyway + Tap	Straight Bore + Tap	Keyway + Tap	S45C Equivalent SUS304	Black Oxide Electroless Nickel Plating	Set Screw (SCM435, Black Oxide) Set Screw (SUS304)
KGEASH	KGEAST	KGEASK	KGEAPT	KGEAPK			
KGEASHB	KGEASTB	KGEASKB	KGEAPTB	KGEAPKB			
KGEASHG	KGEASTG	KGEASKG	KGEAPTG	KGEAPKG			
KGHS	KGTS	KGKS	-	-			

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

### Shaft Bore Specifications

Straight Bore	Straight Bore + Tap	Keyway + Tap

⚠ Keyway Dimension Details **P.1498**  
 ⚠ Positioning of keyway and teeth is not fixed.  
 \* Straight Bore Type does not have tapped holes.

Accuracy: JIS B 1702 (Class 4)

## Straight Type

Part Number	Type	Module	Nominal	Shaft Bore Dia. P <sub>hr</sub> (1mm Increment)		Number of Teeth	R (Gear Ratio)	Mating Gear Number	B	H	d	D	S	E	L	G	ℓ <sub>1</sub>	ℓ <sub>2</sub>	L <sub>1</sub>	A°	M (Coarse)
				Straight Bore	Keyway + Tap																
Straight Bore	1.0	2020	6, 8	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	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 (M5)		
		2040	6, 8	8	20	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 (M5)		
Straight Bore + Tap	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	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		
Keyway + Tap	2.0	2020	12-14	12-14	20	1:1	2020	8.5	34	40	41.32	23.9	37	24	18.41	14	7	21	49°3'	M5	
		2525	12-14	12-14	25	2525	10.5	42	50	51.33	32.3	40	23.34	16.41	10.99	5	21	48°51'	M5		
		3030	16-18	16-18	30	3030	12.4	44	60	61.36	38.9	51	30.77	22.41	16.79	8	28	47°42'	M6		
		1836	10	10	18	3618	12.6	28	36	37.81	19.1	53.12	29	18.01	15.12	7	27	29°25'	M4		
		3618	12-14	12-14	36	1836	12.6	36	72	72.15	47.6	35.21	24.07	19	13	6.5	21	66°17'	M5		

- ⚠ Sizes marked with \* are only applicable to S45C. ⚠ Sizes in ( ) are for SUS 304. ⚠ Module 1.0 is not available for KGHS (Straight Bore Type of SUS304).
- ⚠ Spiral bevel gears from different manufacturers may not mesh correctly. Always select mating sets from MISUMI. ⚠ (Note.) The gears are sold in each piece qty, not as sets.
- ⚠ 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.1498**
- ⚠ The set screw sizes are respectively M4x3, M5x4, and M6x5.

## Spiral Type (Spiral Angle 35°)

Part Number	Type	Module	Nominal	Shaft Bore Dia. P <sub>hr</sub> (1mm Increment)		Twisting Direction	Number of Teeth	R (Gear Ratio)	Mating Gear Number	B	H	d	D	S	E	L	G	ℓ <sub>1</sub>	ℓ <sub>2</sub>	L <sub>1</sub>	A°	M (Coarse)
				Straight Bore + Tap	Keyway + Tap																	
Straight Bore + Tap	1.0	2020	6, 8	8	L R	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	(Left) (Right)	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	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		
Keyway + Tap	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	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		

- ⚠ Use Spiral Type in L and R sets.
- ⚠ Spiral bevel gears from different manufacturers may not mesh correctly. Always select mating sets from MISUMI. ⚠ (Note.) The gears are sold in each piece qty, not as sets.
- ⚠ 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.1498**

Ordering Example

Part Number	Nominal (Number of Teeth, Mating Gear)	Shaft Bore Dia. P <sub>hr</sub>	Twisting Direction
KGEASH1.0	2020	6	
KGEAPTG1.5	3618	10	R

Module	Nominal	Unit Price 1 ~ 5 pc(s).											
		Straight Type					Spiral Type						
		Straight Bore		Keyway + Tap			Straight Bore + Tap		Keyway + Tap				
1.0	2020	KGEASH	KGEASHB	KGEASHG	KGHS	KGEAST	KGEASTB	KGEASTG	KGTS	KGEASK	KGEASKB	KGEASKG	KGKS
	2525												
	3030												
	2040												
	4020												
1.5	2020												
	2525												
	3030												
	1836												
	3618												
2.0	2020												
	2525												
	3030												
	1836												
	3618												

Module	Nominal	Unit Price 1 ~ 5 pc(s).					
		Straight Type			Spiral Type		
		Straight Bore + Tap		Keyway + Tap			
1.0	2020	KGEAPT	KGEAPTB	KGEAPTG	KGEAPK	KGEAPKB	KGEAPKG
	3030						
	2040						
	4020						
	2020						
1.5	2020						
	3030						
	1836						
	3030						
	3618						

Alterations

Part Number	Nominal	Shaft Bore Dia. P <sub>hr</sub>	Twisting Direction	(KC90, KC120)
KGEAPT1.0	3030	10	R	KC90

Alterations	Set Screw	
	KC90	KC120
Code		
Spec.	Adds another set screw at 90° position. ⚠ Not applicable to Straight Bore Type.	Adds another set screw at 120° position. ⚠ Not applicable to Straight Bore Type.