


Helical Gear

Pressure Angle 20°, Helix Angle 45°, Module 1.0, 1.5, 2.0, 2.5, 3.0

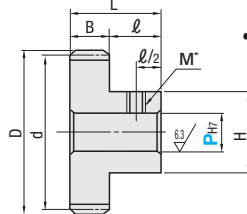
■ **Features:** Spur gears used for the power transmission between unparallel shafts.



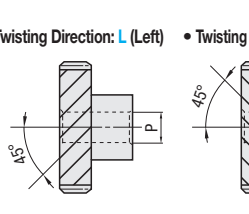
RoHS10

Type			Material	Surface Treatment	Accessory
Straight Bore	Straight Bore + Tap	Keyway + Tap			
NEGHN	NEGTN	NEGKN	S45C	-	Set Screw (SCM435, Black Oxide)
NEGHB	NEGTB	NEGKB	Equivalent	Black Oxide	
NEGHS	NEGTS	NEGKS	SUS304	-	Set Screw (SUS304)
NEGHM	NEGTM	-	MC Nylon	-	Set Screw (SUS304)

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



• Twisting Direction: L (Left)



• Twisting Direction: R (Right)

Shaft Bore Specifications

Straight Bore	Straight Bore + Tap	Keyway + Tap

☑ Keyway Dimension Details: **P1498**
☑ Positioning of keyway and teeth is not fixed.

■ **Tapped Hole Dimension List**

Shaft Bore Dia. PH7	M (Coarse)	Accessory Set Screw
6-12	M4	M4x3
13-17	M5	M5x4
18-30	M6	M6x5
31-45	M8	M8x6
46-65	M10	M10x8

Accuracy: New JIS B 1702-1 Class 9
Previous JIS B 1702 Class 5

* Rectangular tooth Module
* Straight Bore Type does not have tapped holes.

Part Number	Type	Module	Number of Teeth	Shaft Bore Dia. Ph7 (1mm Increment)		Twisting Direction	d	D	B	H	L	ℓ
				Straight Bore	Keyway + Tap							
Straight Bore NEGHN NEGHB NEGHS NEGHM	1.0	13	6-7	8	L (Left) R (Right)	18.38	20.38	10	15	20	10	10
		15	6-10	8		21.21	23.21		18			
		20	8-16	8-13		28.28	30.28		25			
		26	10-20	10-17		36.77	38.77		30			
		30	10-25	10-22		42.43	44.43		35			
		10	8	-		21.21	24.21		16			
Straight Bore + Tap NEGTN NEGTB NEGTS NEGTM	1.5	13	10-14	10-12	L (Left) R (Right)	27.58	30.58	15	23	25	10	10
		15	10-16	10-13		31.82	34.82		25			
		20	12-20	12-17		42.43	45.43		30			
		26	12-30	12-26		55.15	58.15		40			
		30	12-33	12-30		63.64	66.64		45			
		10	12-13	12		28.28	32.28		22			
Keyway + Tap NEGKN NEGKB NEGKS	2.0	13	12-20	12-17	L (Left) R (Right)	36.77	40.77	20	30	35	15	15
		15	12-25	12-22		42.43	46.43		35			
		20	15-33	15-30		56.57	60.57		45			
		26	20-46	20-44		73.54	77.54		60			
		30	20-51	20-47		84.85	88.85		65			
		10	12-17	12-14		35.36	40.36		26			
	2.5	13	15-25	15-22	L (Left) R (Right)	45.96	50.96	22	35	38	16	16
		15	15-30	15-26		53.03	58.03		40			
		20	20-46	20-44		70.71	75.71		60			
		26	20-56	20-50		91.92	96.92		70			
		30	20-65	20-50		106.07	111.07		80			
		10	15-24	15-21		42.43	48.43		34			
	3.0	13	20-33	20-30	L (Left) R (Right)	55.15	61.15	25	45	43	18	18
		15	20-38	20-34		63.64	69.64		50			
		20	20-46	20-44		84.85	90.85		60			
		26	20-65	20-50		110.31	116.31		80			
		30	20-65	20-50		127.28	133.28		90			
		10	15-24	15-21		42.43	48.43		34			

☑ Shaft Bore Dia. 6.35 is available for Straight Bore and Straight Bore + Tap. ☑ Specify 10K as P dimension if keyway width of 4.0mm (height 1.8mm) for Keyway + Tap with shaft bore diameter of 10 is desired. **P1498**
 ☑ Shaft Bore Dia. 9 is not available for Keyway + Tap. ☑ Combine the same handedness (L and L or R and R) for unparallel shafts and different handedness (L and R) for parallel shafts.
 ☑ Helical gears generate axial thrust on shafts. Choose bearings that can withstand the axial thrust generated by the gears.

Ordering Example: **Part Number** - **Number of Teeth** - **Shaft Bore Dia. Ph7** - **Twisting Direction**
NEGHN1.0 - **20** - **10** - **L**

Alterations: **Part Number** - **Number of Teeth** - **Shaft Bore Dia. Ph7** - **Twisting Direction** - (KC90, KC120)
NEGTN1.5 - **30** - **20** - **R** - **KC90**

Alterations	Set Screw	
	KC90	KC120
Code		
Spec.		

Adds another set screw.

☑ Not applicable to Straight Bore Type.

Module	Number of Teeth	Unit Price 1 ~ 10 pc(s).										
		Straight Bore				Straight Bore + Tap				Keyway + Tap		
		NEGHN	NEGHB	NEGHS	NEGHM	NEGTN	NEGTB	NEGTS	NEGTM	NEGKN	NEGKB	NEGKS
1.0	13											
	15											
	20											
	26											
	30											
1.5	10											
	13											
	15											
	20											
	26											
2.0	10											
	13											
	15											
	20											
	26											
2.5	10											
	13											
	15											
	20											
	26											
3.0	10											
	13											
	15											
	20											
	26											

☑ For orders larger than indicated quantity, please request a quotation.