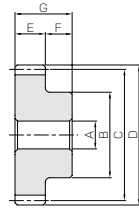




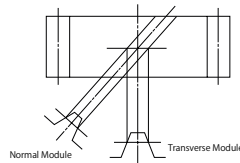
Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998) JIS grade 4 (JIS B1702-1976)
Reference section of gear	Normal plane
Gear teeth	Standard full depth
Transverse pressure angle	20°
Helix angle	15°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)



S1

Catalog No.	Module	No. of teeth	Direction of helix	Shape	Bore		Pitch dia.	Outside dia.	Face width	Hub width	Total length
					A _{H7}	B					
SH2-15R SH2-15L	m2	15	R L	S1	12	24	31.06	35.06	25	10	35
SH2-20R SH2-20L		20	R L	S1	12	32	41.41	45.41	25	10	35
SH2-30R SH2-30L		30	R L	S1	12	50	62.12	66.12	25	10	35
SH2-40R SH2-40L		40	R L	S1	18	60	82.82	86.82	25	10	35
SH2-60R SH2-60L		60	R L	S1	18	70	124.23	128.23	25	10	35
SH2-90R SH2-90L		90	R L	S1	18	120	186.35	190.35	25	10	35
SH3-15R SH3-15L	m3	15	R L	S1	15	36	46.59	52.59	35	15	50
SH3-20R SH3-20L		20	R L	S1	15	50	62.12	68.12	35	15	50
SH3-30R SH3-30L		30	R L	S1	20	70	93.17	99.17	35	15	50
SH3-40R SH3-40L		40	R L	S1	20	80	124.23	130.23	35	15	50
SH3-60R SH3-60L		60	R L	S1	20	140	186.35	192.35	35	15	50

- [Caution on Product Characteristics]
- The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 165 for more details.
 - The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.
 - These gears produce axial thrust forces. See Page 167 for more details.
 - Right handed and left handed helical gears in the same module are designed to mesh as a pair, but SH gears are not interchangeable with KHG type helical gears.



* Above is for illustration purposes only and differs from actual tooth forms. To find more details, please see the section "4.3 Helical Gears" in separate technical reference book (Page 22).

* For products not categorized in our KHK Stock Gear series, custom gear production services with **short lead times** is available. For details see Page 8.

Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog No.
Bending strength	Surface durability	Bending strength	Surface durability			
43.7	2.90	4.46	0.30	0.12~0.26	0.15	SH2-15R SH2-15L
67.1	5.85	6.84	0.60	0.12~0.26	0.30	SH2-20R SH2-20L
117	15.3	11.9	1.56	0.14~0.30	0.72	SH2-30R SH2-30L
169	28.9	17.2	2.95	0.14~0.30	1.21	SH2-40R SH2-40L
275	70.8	28.0	7.22	0.18~0.36	2.61	SH2-60R SH2-60L
437	173	44.6	17.6	0.20~0.44	6.17	SH2-90R SH2-90L
138	9.67	14.0	0.99	0.14~0.32	0.52	SH3-15R SH3-15L
211	19.4	21.6	1.98	0.14~0.32	0.99	SH3-20R SH3-20L
368	50.2	37.5	5.12	0.18~0.38	2.20	SH3-30R SH3-30L
531	95.5	54.1	9.73	0.18~0.38	3.80	SH3-40R SH3-40L
866	236	88.3	24.0	0.20~0.44	9.18	SH3-60R SH3-60L

- [Caution on Secondary Operations]
- Please read "Caution on Performing Secondary Operations" (Page 166) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
 - Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

■ SH Helical Gear Center Distance

Catalog No.	SH2-15 ^R _L	SH2-20 ^R _L	SH2-30 ^R _L	SH2-40 ^R _L	SH2-60 ^R _L	SH2-90 ^R _L
SH2-15 ^R _L	31.06	—	—	—	—	—
SH2-20 ^R _L	36.23	41.41	—	—	—	—
SH2-30 ^R _L	46.59	51.76	62.12	—	—	—
SH2-40 ^R _L	56.94	62.12	72.47	82.82	—	—
SH2-60 ^R _L	77.65	82.82	93.17	103.53	124.23	—
SH2-90 ^R _L	108.70	113.88	124.23	134.59	155.29	186.35

■ SH Helical Gear Center Distance

Catalog No.	SH3-15 ^R _L	SH3-20 ^R _L	SH3-30 ^R _L	SH3-40 ^R _L	SH3-60 ^R _L
SH3-15 ^R _L	46.59	—	—	—	—
SH3-20 ^R _L	54.35	62.12	—	—	—
SH3-30 ^R _L	69.88	77.65	93.17	—	—
SH3-40 ^R _L	85.41	93.17	108.70	124.23	—
SH3-60 ^R _L	116.47	124.23	139.76	155.29	186.35