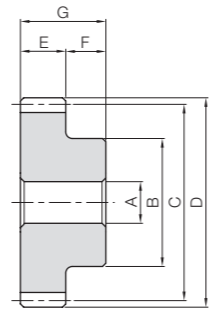




Specifications	
Precision grade	JIS grade N8 (JIS B1702-1:1998)
Reference section of gear	Normal plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Helix angle	15°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



S1

H To order Hardened Plus, please specify **Catalog No. + H**. Example: **SH2-15RH**

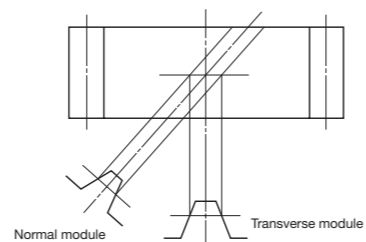
Catalog Number	Module	No. of teeth	Direction of helix	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length
					A _{H7}	B	C	D	E	F	G
SH2-15R SH2-15L	m2	15	R L	S1	12	24	31.06	35.06	25	10	35
SH2-20R SH2-20L		20	R L		12	32	41.41	45.41			
SH2-30R SH2-30L		30	R L		12	50	62.12	66.12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

[Caution on Secondary Operations] ① See Page 22 for more details on Hardened Plus (H Series and HJ Series).

Allowable torque						Backlash (mm)	Weight (kg)	Catalog Number
Bending strength		Surface durability		Surface durability H				
N·m	kgf·m	N·m	kgf·m	N·m	kgf·m			
43.7	4.46	2.90	0.30	13.7	1.40	0.12~0.26	0.15	SH2-15R SH2-15L
67.1	6.84	5.85	0.60	27.2	2.78		0.30	SH2-20R SH2-20L
117	11.9	15.3	1.56	69.8	7.12		0.72	SH2-30R SH2-30L
169	17.2	28.9	2.95	130	13.3		1.21	SH2-40R SH2-40L
275	28.0	70.8	7.22	310	31.6		2.61	SH2-60R SH2-60L
138	14.0	9.67	0.99	44.8	4.57		0.14~0.32	0.52
211	21.6	19.4	1.98	88.7	9.05	0.99		SH3-20R SH3-20L
368	37.5	50.2	5.12	225	22.9	2.20		SH3-30R SH3-30L
531	54.1	95.5	9.73	418	42.6	3.80		SH3-40R SH3-40L
866	88.3	236	24.0	993	101	9.18		SH3-60R SH3-60L

Reference Section of Gears

Transverse module (SH helical gears) and normal module (KHG ground helical gears) are available for the gear teeth according to the gear reference cross section. Even if products have the same helix angle and module, transverse and normal module gears have different gear teeth and thus are not interchangeable.



* Above is for illustration purposes only and differs from actual tooth forms.

Center Distance Table of SH Helical Gears

Catalog Number	SH2-15 ^R _L	SH2-20 ^R _L	SH2-30 ^R _L	SH2-40 ^R _L	SH2-60 ^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

Center Distance Table of SH Helical Gears

Catalog Number	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