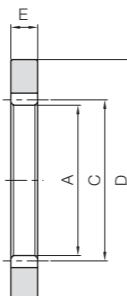




Specifications									
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*								
Gear teeth	Standard full depth								
Pressure angle	20°								
Material	S45C								
Heat treatment	—								
Tooth hardness	(less than 194HB)								
Surface treatment	Black oxide coating								

\* The precision grade of products with a module of less than 0.8 is equivalent to the value shown in the table.



T1

Catalog Number	Module	No. of teeth	Shape	Outside dia.	Pitch dia.	Outside dia.	Face width	Allowable torque (N·m)	Allowable torque (kgf·m)	Backlash (mm)	Weight (kg)
				A	C	D	E	Bending strength	Surface durability		
SI0.5-60	m0.5	60	T1	29	30	50	5	3.75	0.67	0.38	0.068
SI0.5-80		80		39	40	60	5	4.85	0.75	0.49	0.077
SI0.5-100		100		49	50	70		5.97	0.87	0.61	0.089
SI0.8-60	m0.8	60	T1	46.4	48	75	8	15.4	2.87	1.57	0.29
SI0.8-80		80		62.4	64	90		19.9	3.24	2.03	0.33
SI0.8-100		100		78.4	80	105		24.5	3.75	2.50	0.38
SI1-60	m1	60	T1	58	60	90	10	30.0	5.95	3.06	0.61
SI1-80		80		78	80	110		38.8	6.59	3.96	0.67
SI1-100		100		98	100	130		47.8	7.64	4.87	0.78
SI1.5-50	m1.5	50	T1	72	75	115		87.1	20.9	8.88	2.13
SI1.5-60		60		87	90	130	15	101	20.6	10.3	2.10
SI1.5-80		80		117	120	160		131	23.3	13.4	2.38
SI1.5-100		100		147	150	190		161	27.0	16.5	2.75
SI2-50	m2	50	T1	96	100	150	20	206	50.3	21.0	5.13
SI2-60		60		116	120	170		240	50.5	24.5	5.15
SI2-80		80		156	160	210		311	57.0	31.7	5.81
SI2-100		100		196	200	250		382	65.7	39.0	6.70
SI2.5-50	m2.5	50	T1	120	125	185	25	403	101	41.1	10.3
SI2.5-60		60		145	150	210		469	101	47.8	10.3
SI2.5-80		80		195	200	260		607	114	61.9	11.6
SI3-50	m3	50	T1	144	150	220	30	697	178	71.0	18.1
SI3-60		60		174	180	250		811	178	82.7	18.2

[Caution on Product Characteristics] ① The backlash values shown in the table are the theoretical values for the normal direction for the internal ring in mesh with an SS spur gear.

② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 207 for more details.

③ Please check for the involute interference, trochoid interference and trimming interference prior to using internal gears.

[Caution on Secondary Operations] ① Please read "Cautions on Performing Secondary Operations" (Page 207) when performing modifications and/or secondary operations for safety concerns.

KHK Quick-Mod Gears, the KHK system for quick modification of KHK stock gears, is also available.

② Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.

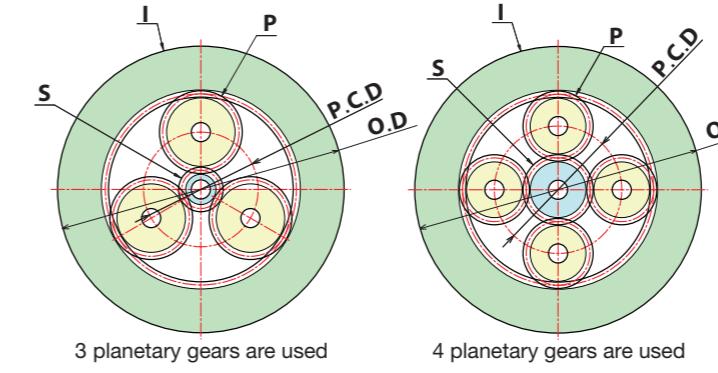
## Ground internal gears are available.



Klingelnberg Gear Grinding Machine VIPER 500W

Internal ground gear machining range	
Maximum gear accuracy	JIS B 1702-1:1998 Grade N5 (former JIS Grade 1)
Maximum module	About m4 (DP6, CP12), special sizes available
Max. helix angle	27°, right/left helix direction available
Maximum outer diameter	φ 500mm
Minimum inner diameter	φ 150mm
Maximum weight	500 kgf (jig weight included)

## ■ Planetary Gear Systems created by using KHK Stock Gears



KHK's stock internal and spur gears working together will allow you to create planetary gear devices.

"In the table below, we introduce examples of planetary gear

The Speed ratio Note 1 are for planetary gear systems created with a stationary internal gear. When used as speed reducers, the input is the sun gear and the output is the carrier.

"Selection of the number of teeth also enables you to create various planetary gear devices with different transmission

Speed ratio Note 1	Stock gears used in the system							Allowable transmission torque (kgf·m)			Total weight (kg)		
	Internal gears (I)			Planetary gears (P)			Sun gear (S)	Sun gear_T <sub>1</sub>	Planetary carrier_T <sub>2</sub>				
OD(mm)	Catalog Number	No. of teeth	Catalog Number	No. of teeth	Quantity	P.C.D(mm)	Equal angles	Catalog Number	No. of teeth	Bending strength	Surface durability	Bending strength	Surface durability
6	90	SI1-60	SSA1-24	60	36	120°	120°	SSS1-12	12	0.58	0.0023	3.47	0.11
	130	SI1.5-60	SSA1.5-24		54			SS1.5-12		1.77	0.0081	10.7	0.40
	170	SI2-60	SSA2-24		72			SS2-12		4.21	0.020	25.2	0.99
	210	SI2.5-60	SSA2.5-24		90			SS2.5-12		8.21	0.040	49.3	1.98
	250	SI3-60	SSA3-24		108			SS3-12		14.2	0.070	85.2	3.49
	110	SI1-80	SSA1-32	80	48	120°	120°	SS1-16	16	0.99	0.0047	5.96	0.24
	160	SI1.5-80	SSA1.5-32		72			SS1.5-16		3.35	0.026	20.1	1.32
	210	SI2-80	SSA2-32		96			SS2-16		7.95	0.064	47.7	3.22
	260	SI2.5-80	SSA2.5-32		120			SS2.5-16		15.5	0.13	93.2	6.45
	105	SI0.8-100	SS0.8-40A	100	48	90°	90°	SS0.8-20A	20	0.95	0.0082	5.68	0.41
	130	SI1-100	SSA1-40										