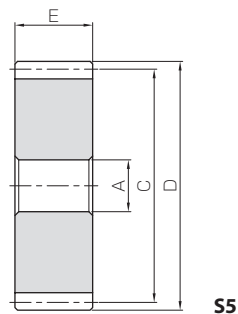




Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



S5

Catalog Number	Module	No. of teeth	Shape	Bore			Face width E	Allowable torque (N·m)		Allowable torque (kgf·m)	
				A <sub>H7</sub>	C	D		Bending strength	Surface durability	Bending strength	Surface durability
KSSAY1-20	m1	20	S5	6	20	22	6	3.45	0.20	0.35	0.021
KSSAY1-24		24			26	4.48		0.30	0.46	0.030	
KSSAY1-25		25			27	4.74		0.32	0.48	0.033	
KSSAY1-28		28			30	5.55		0.41	0.57	0.042	
KSSAY1-30		30			32	6.08		0.47	0.62	0.048	
KSSAY1-32		32			34	6.63		0.54	0.68	0.055	
KSSAY1-35		35		37	7.45	0.66	0.76	0.067			
KSSAY1-36		36		38	7.73	0.70	0.79	0.071			
KSSAY1-40		40		42	8.84	0.87	0.90	0.089			
KSSAY1-45		45		47	10.3	1.12	1.05	0.11			
KSSAY1-48		48		50	11.1	1.28	1.13	0.13			
KSSAY1-50		50		52	11.7	1.39	1.19	0.14			
KSSAY1-55		55		57	13.1	1.70	1.34	0.17			
KSSAY1-56		56		58	13.4	1.77	1.37	0.18			
KSSAY1-60		60		62	14.5	2.04	1.48	0.21			
KSSAY1-70		70		72	17.4	2.82	1.78	0.29			
KSSAY1-80		80		82	20.3	3.74	2.07	0.38			
KSSAY1-100		100		102	26.2	5.98	2.67	0.61			

- [Caution on Product Characteristics]
- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details.
  - ② 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.

Backlash (mm)	Weight (kg)	Catalog Number
0.08~0.18	0.013	KSSAY1-20
	0.020	KSSAY1-24
	0.022	KSSAY1-25
	0.028	KSSAY1-28
	0.032	KSSAY1-30
	0.037	KSSAY1-32
	0.044	KSSAY1-35
	0.047	KSSAY1-36
	0.058	KSSAY1-40
	0.074	KSSAY1-45
	0.084	KSSAY1-48
	0.090	KSSAY1-50
	0.11	KSSAY1-55
	0.11	KSSAY1-56
	0.13	KSSAY1-60
	0.18	KSSAY1-70
	0.23	KSSAY1-80
	0.37	KSSAY1-100

- [Caution on Secondary Operations]
- ① Please read "Cautions on Performing Secondary Operations" (Page 26) when performing modifications and/or secondary operations for safety concerns.
  - ② When using a product with secondary operations applied, please be careful of runout and deformation as the tooth width is thin. Heat treatment in particular may cause the gear to warp.
  - ③ Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.

Spur Gears  
Helical Gears  
Internal Gears  
Racks  
CP Racks & Pinions  
Miter Gears  
Bevel Gears  
Screw Gears  
Worm Gear Pairs  
Bevel Gearboxes  
Other Products

Spur Gears  
Helical Gears  
Internal Gears  
Racks  
CP Racks & Pinions  
Miter Gears  
Bevel Gears  
Screw Gears  
Worm Gear Pairs  
Bevel Gearboxes  
Other Products