



Specifications

Precision	JIS N9 grade (JIS B1702-1: 1998) OLD JIS 5 grade (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	Less than 194HB
Surface treatment	Black oxide
Tooth surface finishing	Cut
Datum reference surface for gear cutting	Outside diameter
Secondary Operations	Possible

Module 2

Catalog No.	Module <i>m</i>	No. of teeth <i>z</i>	Bore <i>A</i>	Pitch dia. <i>C</i>	Outside dia. <i>D</i>	Face width <i>E</i>	Shape	Allowable torque (N·m) <small>NOTE 1</small>		Allowable torque (kgf·m)		Backlash (mm) <small>NOTE 2</small>	Weight (kgf)
								Bending strength	Surface durability	Bending strength	Surface durability		
SIR2 -120	2	120	236	240	286	20	T1	413.1	68.82	(42.13)	(7.018)	0.18 ~ 0.37	2.98
SIR2 -200	2	200	396	400	446	20	T1	676.9	109.6	(69.03)	(11.18)	0.2 ~ 0.41	4.79

Module 2.5

SIR2.5-120	2.5	120	295	300	355	25	T1	807	137.6	(82.29)	(14.03)	0.2 ~ 0.41	5.55
SIR2.5-200	2.5	200	495	500	555	25	T1	1322	220.4	(134.8)	(22.47)	0.22 ~ 0.46	8.94

Module 3

SIR3 -120	3	120	354	360	424	30	T1	1394	244.1	(142.2)	(24.89)	0.22 ~ 0.45	9.27
SIR3 -160	3	160	474	480	544	30	T1	1839	315.1	(187.5)	(32.13)	0.22 ~ 0.45	12.11

CAUTION: Ring gears are susceptible to deformation, so careful handling is required.

NOTE 1: The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 148 for more details.

NOTE 2: The backlash values shown in the table are the theoretical values of a 30 tooth SS spur gear in mesh with the internal gear.