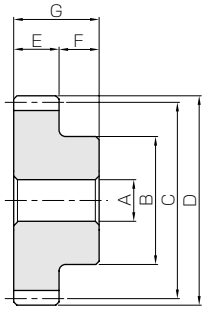
Specifications	
Precision grade	JIS grade N9 (JIS B1702-1: 1998) JIS grade 5 (JIS B1702: 1976)
Reference section of gear	Normal plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Helix angle	45°
Material	SUS303
Heat treatment	—



S1

Catalog No. New items indicated in blue letters	Module	No. of teeth	Direction of helix	Shape	Bore A_{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total length G
SUN1-13R **SUN1-13L**	***m*1**	13	R L	S1	6	15	18.38	20.38	10	10	20
SUN1-15R **SUN1-15L**		15	R L	S1	6	18	21.21	23.21	10	10	20
SUN1.5-10R **SUN1.5-10L**	***m*1.5**	10	R L	S1	8	16	21.21	24.21	15	10	25
SUN1.5-13R **SUN1.5-13L**		13	R L	S1	10	23	27.58	30.58	15	10	25
SUN1.5-15R **SUN1.5-15L**		15	R L	S1	10	25	31.82	34.82	15	10	25
SUN1.5-20R **SUN1.5-20L**		20	R L	S1	12	30	42.43	45.43	15	10	25
SUN2-10R **SUN2-10L**	***m*2**	10	R L	S1	12	22	28.28	32.28	20	15	35
SUN2-13R **SUN2-13L**		13	R L	S1	12	30	36.77	40.77	20	15	35
SUN2-15R **SUN2-15L**		15	R L	S1	12	35	42.43	46.43	20	15	35
SUN2-20R **SUN2-20L**		20	R L	S1	15	45	56.57	60.57	20	15	35
SUN2.5-10R **SUN2.5-10L**	***m*2.5**	10	R L	S1	12	26	35.36	40.36	22	16	38
SUN2.5-13R **SUN2.5-13L**		13	R L	S1	15	35	45.96	50.96	22	16	38
SUN2.5-15R **SUN2.5-15L**		15	R L	S1	15	40	53.03	58.03	22	16	38
SUN2.5-20R **SUN2.5-20L**		20	R L	S1	20	60	70.71	75.71	22	16	38
SUN3-10R **SUN3-10L**	***m*3**	10	R L	S1	15	34	42.43	48.43	25	18	43
SUN3-13R **SUN3-13L**		13	R L	S1	20	45	55.15	61.15	25	18	43
SUN3-15R **SUN3-15L**		15	R L	S1	20	50	63.64	69.64	25	18	43
SUN3-20R **SUN3-20L**		20	R L	S1	20	60	84.85	90.85	25	18	43

[Caution on Product Characteristics]

① When mating screw gears made of the same material they may cause abrasion and scoring. It is recommended to mate Screw Gears composed of different materials.
② The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 495 for more details.
③ 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.
④ For offset shaft applications, match a RH with a RH, or LH with a LH, to make a set of screw gears. For parallel shaft applications, mesh opposite hands (RH and LH) of helical gear sets. See page 494 for more details.
⑤ If the bore diameter is less than ϕ 4, then the bore tolerance class is H8. If the bore diameter is ϕ 5 or ϕ 6, and the hole length (total length) exceeds 3 times the diameter, then the class is also H8.

Stainless Steel Screw Gears

Newly added

Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog No. New items indicated in blue letters
Bending strength	Surface durability	Bending strength	Surface durability			
—	0.19	—	0.019	0.08~0.18	0.030	**SUN1-13R SUN1-13L**
—	0.29	—	0.029	0.08~0.18	0.043	**SUN1-15R SUN1-15L**
—	0.29	—	0.029	0.08~0.20	0.047	**SUN1.5-10R SUN1.5-10L**
—	0.62	—	0.063	0.10~0.22	0.087	**SUN1.5-13R SUN1.5-13L**
—	0.93	—	0.095	0.10~0.22	0.12	**SUN1.5-15R SUN1.5-15L**
—	2.14	—	0.22	0.10~0.22	0.20	**SUN1.5-20R SUN1.5-20L**
—	0.66	—	0.068	0.10~0.22	0.11	**SUN2-10R SUN2-10L**
—	1.42	—	0.14	0.12~0.26	0.22	**SUN2-13R SUN2-13L**
—	2.14	—	0.22	0.12~0.26	0.30	**SUN2-15R SUN2-15L**
—	4.84	—	0.49	0.12~0.26	0.53	**SUN2-20R SUN2-20L**
—	1.27	—	0.13	0.12~0.24	0.20	**SUN2.5-10R SUN2.5-10L**
—	2.68	—	0.27	0.14~0.28	0.35	**SUN2.5-13R SUN2.5-13L**
—	4.03	—	0.41	0.14~0.28	0.48	**SUN2.5-15R SUN2.5-15L**
—	9.07	—	0.92	0.14~0.28	0.93	**SUN2.5-20R SUN2.5-20L**
—	2.14	—	0.22	0.12~0.26	0.34	**SUN3-10R SUN3-10L**
—	4.51	—	0.46	0.14~0.32	0.58	**SUN3-13R SUN3-13L**
—	6.75	—	0.69	0.14~0.32	0.79	**SUN3-15R SUN3-15L**
—	15.04	—	1.53	0.14~0.32	1.39	**SUN3-20R SUN3-20L**

[Caution on Secondary Operations]

① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's 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.

To find information on new products, see Page 6 and 7.