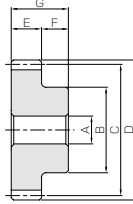




Specifications	
Precision grade	JIS grade N9 (JIS B1702-1: 1998) JIS grade 5 (JIS B1702: 1976)
Reference section of gear	Normal plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Helix angle	45°
Material	SUS303
Heat treatment	—



51

Catalog No.	Module	No. of teeth	Direction of helix	Shape	Bore		Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total length G									
					A <sub>H7</sub>	B														
SUN1-13R SUN1-13L	m1	13	R	S1	6	15	18.38	20.38	10	10	20									
			L																	
SUN1-15R SUN1-15L	m1.5	15	R	S1	6	18	21.21	23.21	10	10	20									
			L																	
SUN1.5-10R SUN1.5-10L	m1.5	10	R	S1	8	16	21.21	24.21	15	10	25									
			L																	
SUN1.5-13R SUN1.5-13L	m1.5	13	R	S1	10	23	27.58	30.58	15	10	25									
			L																	
SUN1.5-15R SUN1.5-15L	m1.5	15	R	S1	10	25	31.82	34.82	15	10	25									
			L																	
SUN1.5-20R SUN1.5-20L	m1.5	20	R	S1	12	30	42.43	45.43	15	10	25									
			L																	
SUN2-10R SUN2-10L	m2	10	R	S1	12	22	28.28	32.28	20	15	35									
			L																	
SUN2-13R SUN2-13L	m2	13	R	S1	12	30	36.77	40.77	20	15	35									
			L																	
SUN2-15R SUN2-15L	m2	15	R	S1	12	35	42.43	46.43	20	15	35									
			L																	
SUN2-20R SUN2-20L	m2	20	R	S1	15	45	56.57	60.57	20	15	35									
			L																	
SUN2.5-10R SUN2.5-10L	m2.5	10	R	S1	12	26	35.36	40.36	22	16	38									
			L																	
SUN2.5-13R SUN2.5-13L	m2.5	13	R	S1	15	35	45.96	50.96	22	16	38									
			L																	
SUN2.5-15R SUN2.5-15L	m2.5	15	R	S1	15	40	53.03	58.03	22	16	38									
			L																	
SUN2.5-20R SUN2.5-20L	m2.5	20	R	S1	20	60	70.71	75.71	22	16	38									
			L																	
SUN3-10R SUN3-10L	m3	10	R	S1	15	34	42.43	48.43	25	18	43									
			L																	
SUN3-13R SUN3-13L			13									R	S1	20	45	55.15	61.15	25	18	43
												L								
SUN3-15R SUN3-15L	15	R	S1	20	50	63.64	69.64	25	18	43										
		L																		
SUN3-20R SUN3-20L	20	R	S1	20	60	84.85	90.85	25	18	43										
		L																		

- [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 327 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 326 for more details.
  - ⑤ If the bore diameter is less than  $\phi 4$ , then the bore tolerance class is H8. If the bore diameter is  $\phi 5$  or  $\phi 6$ , and the hole length (total length) exceeds 3 times the diameter, then the class is also H8.

\* For products not categorized in our KHK Stock Gear series, custom gear production services with **short lead times** is available. For details see Page 8.

Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No.
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 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, 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.

### GCU-N Screw Gear Kit



Installment : Nonparallel and nonintersecting gears  
 Gear Type : Screw Gears  
 Gears : SN2.5-10R  
 PN2.5-10R  
 Gear Ratio : 1  
 Weight : Approx. 1kg

Screw Gears are helical gears used in nonparallel and nonintersecting situations. Applications include devices like conveyers with light loads.