

T8

Material : SUS303

Catalog No. <small>Catalog No. in blue color : New Products</small>	Partner	Shape	Bore	Hub dia.	Socket head screw			Flange diameter	Flange length	Hub width	Total length
			A _{H7}	B	No. of threaded hole	Size	C	D	E	F	G
SUKB20030 SUKB20046 SUKB20066	PSA2-32 or more PSA2-40 or more PSA2-50 or more	T8	10	30 46 66	6	M5	42 58 78	51 67 87	10	20	30
SUKB25038 SUKB25058 SUKB25083	PSA2.5-32 or more PSA2.5-40 or more PSA2.5-50 or more	T8	12	38 58 83	6	M6	53 73 98	63 83 108	12.5	24.5	37
SUKB30046 SUKB30070 SUKB30100	PSA3-32 or more PSA3-40 or more PSA3-50 or more	T8	15	46 70 100	6	M8	64 88 118	76 100 130	15	30	45

[Caution on Product Characteristics]

- The area where PSA Plastic Spur Gears are attached, with hub tolerance h7.
- The friction coupling torques shown in the table are reference values calculated according to these set values; friction factors and fastening torques of the tapping screw.
- Please refer to the assembly example below, and then attach the hub to the gear with the accessories, plain washers, spring washers and hexagon socket head cap screws.
- In accordance with the fastening torque values shown in the dimension table, use a torque wrench and fasten hexagon socket head cap screws firmly, to attach the hub.
- If a fastened hexagon socket head cap screws come loose, friction tightening torque values shown in the table can not be maintained. It is recommended to check the fasteners regularly and retighten when required.
- For secure positioning, it is recommended to use dowel pins.

Features of Stainless Steel Hubs

- This is an attached stainless steel hub with excellent rust resistance.
- Perfectly matches with PSA Plastic Spur Gears, and suitable for food processing machinery.
- Efficient use of materials and superior cost performance for this product.

Friction Coupling Torque for Stainless Steel Hubs

Friction coupling torque, for Stainless Steel Hubs, is calculated from the frictional force generated by the fastening torque at the contact face of the gear and the stainless steel hub.

Fastening Torque F(N) is calculated from the equation below.

$$F = \frac{n \cdot 1000 \cdot T}{K \cdot d}$$

n : Number → No. of threaded holes shown in the dimension table.

T : Tightening torque (N · m) → Fastening torque shown in the dimension table.

K : Torque coefficient → Set the value at 0.164

d : Nominal diameter (mm) → Socket head screw size shown in the dimension table (M5 = 5mm)

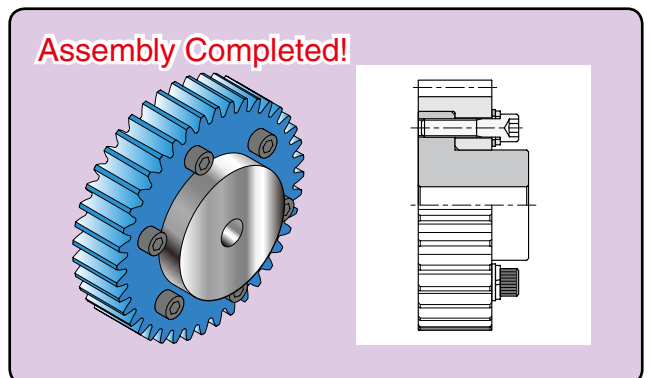
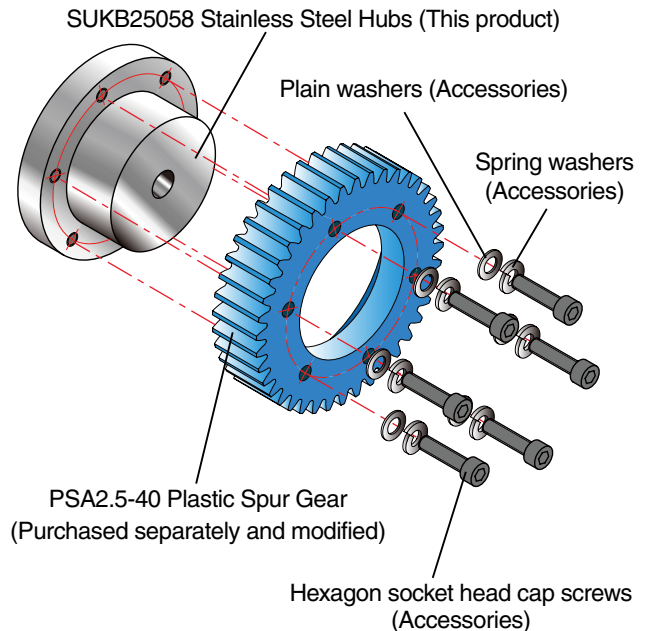
Friction Coupling Torque T_f (N · m) is calculated from the equation below.

$$T_f = \frac{F \cdot \mu \cdot d_w}{2000}$$

F : Fastening torque (N) → The value obtained from the calculation above.

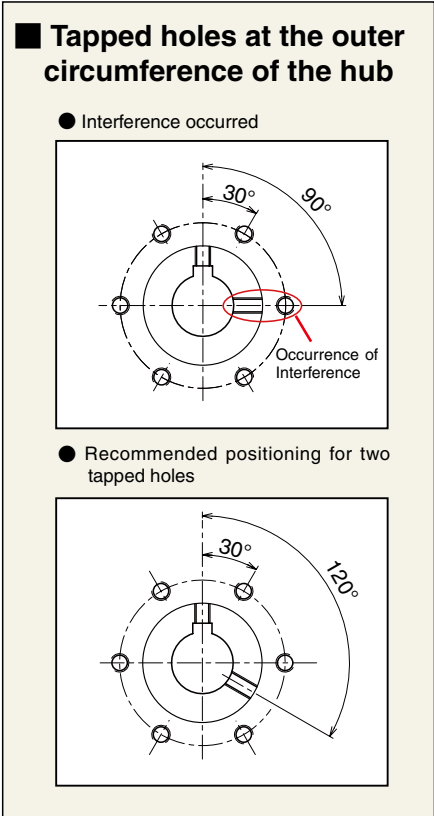
μ : Friction factor at the contact face of the gear and the stainless steel hub → Set the value at 0.18

d_w : Pitch diameter of the threaded hole (mm) → Socket head screw size C shown in the dimension table

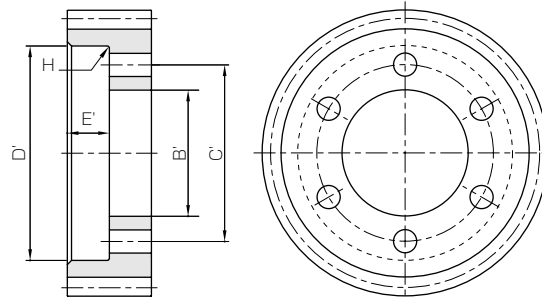


Recommended fastening torque		Friction coupling torque		Weight (kg)	Catalog No. <small>Catalog No. in blue color : New Products</small>
(N-m)	(kgf-m)	(N-m)	(kgf-m)		
0.9	0.092	24.9	2.54	0.24	SUKB20030
		34.4	3.51	0.51	SUKB20046
		46.2	4.71	0.97	SUKB20066
1.5	0.15	43.6	4.45	0.47	SUKB25038
		60.1	6.13	0.98	SUKB25058
		80.7	8.23	1.88	SUKB25083
3.7	0.38	97.5	9.94	0.82	SUKB30046
		134	13.7	1.72	SUKB30070
		180	18.3	3.29	SUKB30100

- [Caution on Secondary Operations]
- ① Please read "Cautions on Performing Secondary Operations" in Page 36 when performing modification and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
 - ② Datum plane for machining hubs is the outer circumference of the hub, where PSA Plastic Spur Gears are attached, and the flank of the flange is facing the hub.
 - ③ For modifying tapped holes at the outer circumference of the hub, apply machining with care and in consideration of the positions of the screw holes for the fastening screws, that attach the hub. (This position is where no interference occurs with the hexagon socket head cap screws).



■ Partner Products and Modifications



Stainless Steel Hubs Catalog No. <small>Catalog No. in blue color : New Products</small>	Partner Catalog No.	Bore	Drilled hole			Bore 2	Length of bore	Fillet radius
		B' _{H8}	No. of threaded hole	Size	C'	D'	E'±0.1	H
SUKB20030	PSA2-32 or more	30	6	φ5.5	42	51	10	R0.5 or less
SUKB20046	PSA2-40 or more	46			58	67		
SUKB20066	PSA2-50 or more	66			78	87		
SUKB25038	PSA2.5-32 or more	38	6	φ6.6	53	63	12.5	R0.5 or less
SUKB25058	PSA2.5-40 or more	58			73	83		
SUKB25083	PSA2.5-50 or more	83			98	108		
SUKB30046	PSA3-32 or more	46	6	φ9	64	76	15	R0.5 or less
SUKB30070	PSA3-40 or more	70			88	100		
SUKB30100	PSA3-50 or more	100			118	130		

歯車工房
信頼の追加加工

Modifications for bores, keyways and tapped holes done in 3 days!

Please request modifications at [Haguruma Kobo](#).

Modifications for SUKB Products (With fee)

Modifications for PSA Products (Purchased separately and modified with fee)

To find more information on Haguruma Kobo, please see Page 10.