

T8

Material: SUS303

Catalog Number	Shape	Bore		Socket head screw			Flange diameter	Flange length	Hub width	Total length	Recommended fastening torque		Coupling torque		Weight (kg)
		A _{H7}	B	No.	Size	C	D	E	F	G	(N·m)	(kgf·m)	(N·m)	(kgf·m)	
SUKB20030	T8	10	30	6	M5	42	51	10	20	30	3.00	0.31	83	8.5	0.24
SUKB20046			46			58	67						115	11.7	0.51
SUKB20066			66			78	87						154	15.7	0.97
SUKB25038	T8	12	38	6	M6	53	63	12.5	24.5	37	5.20	0.53	151	15.4	0.47
SUKB25058			58			73	83						208	21.2	0.98
SUKB25083			83			98	108						280	28.5	1.88
SUKB30046	T8	15	46	6	M8	64	76	15	30	45	12.5	1.27	329	33.6	0.82
SUKB30070			70			88	100						453	46.2	1.72
SUKB30100			100			118	130						607	61.9	3.29

- [Caution on Product Characteristics]
- ① The area where PSA Plastic Spur Gears are attached, with hub tolerance h7.
 - ② The coupling torques shown in the table are reference values calculated according to these set values: friction coefficients and fastening torques of the tapping screw.
 - ③ 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.
 - ④ 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.
 - ⑤ If a fastened hexagon socket head cap screw comes loose, the tightening torque values shown in the table cannot be maintained. It is recommended to check the fasteners regularly and retighten when required.
 - ⑥ 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.

Coupling Torque for Stainless Steel Hubs

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.

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

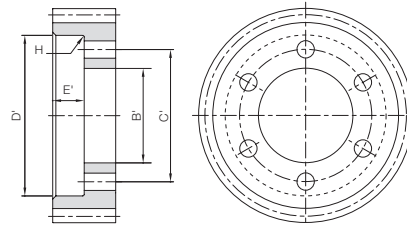
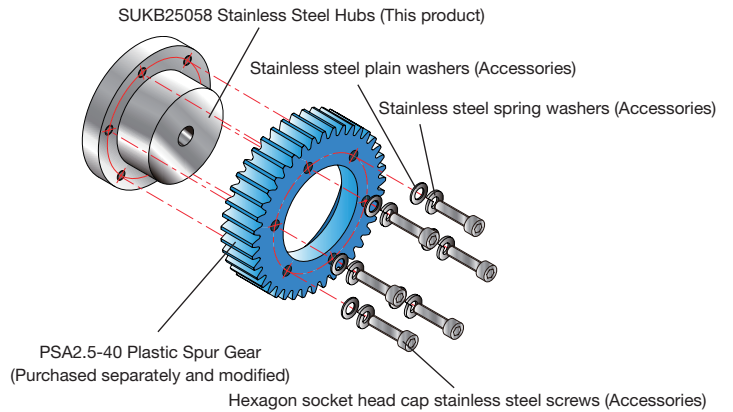
- n : Number → No. of threaded holes shown in the dimension table.
- T : Tightening torque (N·m) → Fastening torque shown in the dimension table.
- K : Torque coefficient → Set the value at 0.164
- d : Nominal diameter (mm) → Socket head screw size shown in the dimension table (M5 = 5mm)

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

Assembly Example of Stainless Steel Hubs



Stainless Steel Hubs		Partner						
Catalog Number	Catalog Number	Bore	Drilled hole			Bore 2	Hole length	Accessories
		B' _{H8}	No.	Size	C'	D'	E'±0.1	Bolt (size)
SUKB20030	PSA2-32 ~ PSA2-36 PSA2-40 ~ PSA2-48 PSA2-50 ~	30	6	φ 5.5	42	51	10	M5×20
SUKB20046		46			58	67		
SUKB20066		66			78	87		
SUKB25038	PSA2.5-32 ~ PSA2.5-36 PSA2.5-40 ~ PSA2.5-48 PSA2.5-50 ~	38	6	φ 6.6	53	63	12.5	M6×25
SUKB25058		58			73	83		
SUKB25083		83			98	108		
SUKB30046	PSA3-32 ~ PSA3-36 PSA3-40 ~ PSA3-48 PSA3-50 ~	46	6	φ 9	64	76	15	M8×30
SUKB30070		70			88	100		
SUKB30100		100			118	130		