

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	
SUKB20030	T8	10	30	6	M5	42	51	20	30	3.00	0.31	83	8.5	0.24
SUKB20046			46			58	67					115	11.7	
SUKB20066			66			78	87					154	15.7	
SUKB25038	T8	12	38	6	M6	53	63	24.5	37	5.20	0.53	151	15.4	0.48
SUKB25058			58			73	83					208	21.2	
SUKB25083			83			98	108					280	28.5	
SUKB30046	T8	15	46	6	M8	64	76	30	45	12.5	1.27	329	33.6	0.83
SUKB30070			70			88	100					453	46.2	
SUKB30100			100			118	130					607	61.9	

- [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 screw comes loose, the 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.
- [Caution on Secondary Operations]**
- 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.
 - For modifying tapped holes at the outer circumference of the hub, apply machining at positions which will not interfere with the mounting bolt head, using the S1KBK figure as reference.

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.

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

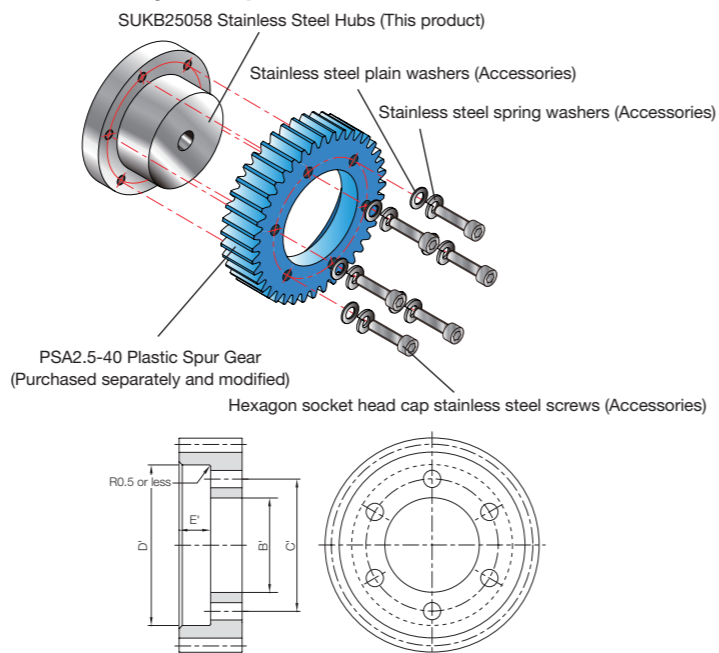
- n : Number → No. of threaded holes shown in the dimension table.
- T : Tightening torque (N·m) → Fastening torque shown in the dimension table.
- K : Torque coefficient → Set the value at 0.164
- d : Nominal diameter (mm) → Socket head screw size shown in the dimension table (M5 = 5mm)

Coupling torque T_r(N·m) is calculated from the equation below.

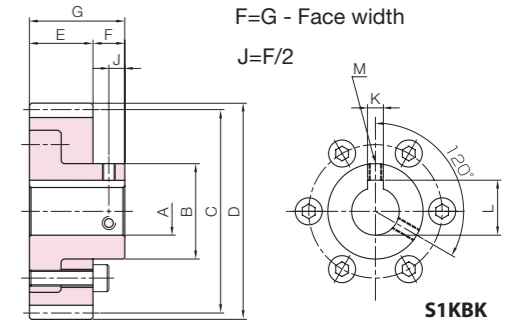
$$T_r = \frac{F \cdot \mu \cdot d_w}{2000}$$

- 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 _{H7}	No.	Size	C'	D ^{+0.1/0}	E'±0.1	Bolt (size)
SUKB20030	PSA2-32 ~ PSA2-36	30	6	φ 5.5	42	51	10	M5×20
SUKB20046	PSA2-40 ~ PSA2-48	46			58	67		
SUKB20066	PSA2-50 ~	66			78	87		
SUKB25038	PSA2.5-32 ~ PSA2.5-36	38	6	φ 6.6	53	63	12.5	M6×25
SUKB25058	PSA2.5-40 ~ PSA2.5-48	58			73	83		
SUKB25083	PSA2.5-50 ~	83			98	108		
SUKB30046	PSA3-32 ~ PSA3-36	46	6	φ 9	64	76	15	M8×30
SUKB30070	PSA3-40 ~ PSA3-48	70			88	100		
SUKB30100	PSA3-50 ~	100			118	130		



To order J Series products, please specify: **Catalog No. + J + BORE.**

Bore H7	* The product shapes of J Series items are identified by background color.																			
	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50		
Keyway J _{S9}	4x1.8		5x2.3			6x2.8			8x3.3			10x3.3		12x3.3		14x3.8				
Screw size	M4				M5				M6				M8				M10			
Catalog Number	[Grid of product shapes with background colors]																			

[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.