



Specifications	
Precision grade	JIS grade N10 (JIS B1702-1:1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	Polyacetal (Hub: SUS303)
Heat Treatment	—
Tooth hardness	(110 to 120HRR)

* The gear grade listed is the value before clamping.
The precision grade of products with a module of 0.5 or less is equivalent to the value shown in the table.

Catalog Number	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total Length	Hex socket screw				
				A _{H7}	B	C	D	E	F	G	M	J	K		
DSF0.5-36 DSF0.5-40 DSF0.5-45 DSF0.5-48 DSF0.5-50	m0.5	36 40 45 48 50	S1	5	14	18 20 22.5 24 25	19 21 23.5 25 26	5	8.5	13.5	M2.5	3.3	4.4		
DSF0.5-60 DSF0.5-64 DSF0.5-70 DSF0.5-80 DSF0.5-90		60 64 70 80 90				30 32 35 40 45	31 33 36 41 46								
DSF0.5-100 DSF0.5-120		100 120				8	19		50 60	51 61	10	15	M3	4.5	6
DSF1-20 DSF1-24 DSF1-25 DSF1-28 DSF1-30		m1		20 24 25 28 30	S1	5	14	20 24 25 28 30	22 26 27 30 32	6	8.5	14.5	M2.5	3.3	4.4
DSF1-32 DSF1-35 DSF1-36 DSF1-40 DSF1-45				32 35 36 40 45				32 35 36 40 45	34 37 38 42 47		10	16	M3	4.5	6
DSF1-48 DSF1-50 DSF1-60 DSF1-64 DSF1-70	48 50 60 64 70		48 50 60 64 70	50 52 62 66 72											
DSF1-80 DSF1-90 DSF1-100	80 90 100		80 90 100	82 92 102											

- [Caution on Product Characteristics]
- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details.
 - ② 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.
 - ③ The tooth (acetal) and hub (SUS303) mating section has a rotation-stop pin inserted.
 - ④ F-Loc gears are attached to the shaft by a friction coupling. Recommended shaft tolerances are g6, h6, or h7. Torque slippage should be considered when making a selection.
 - ⑤ Do not tighten the clamping screw without inserting a shaft, or the bore will be permanently deformed and will not accept a shaft.

Allowable torque (N·m)	Allowable torque (kgf·m)	Ref. slipping torque / Standard screw tightening torque (N·m)	Backlash (mm)	Weight (g)	Catalog Number
Bending strength	Bending strength				
0.49 0.55 0.64 0.69 0.73	0.050 0.057 0.065 0.071 0.075	0.62 / 0.36	0~0.10	11.5 12.0 12.5 12.9 13.2	DSF0.5-36 DSF0.5-40 DSF0.5-45 DSF0.5-48 DSF0.5-50
0.90 0.97 1.07 1.25 1.42	0.092 0.099 0.11 0.13 0.14			14.7 15.4 16.5 18.6 31.1	DSF0.5-60 DSF0.5-64 DSF0.5-70 DSF0.5-80 DSF0.5-90
1.59 1.93	0.16 0.20			33.7 39.8	DSF0.5-100 DSF0.5-120
0.96 1.22 1.28 1.48 1.61	0.098 0.12 0.13 0.15 0.16		0~0.10	12.6 13.7 14.1 15.1 26.2	DSF1-20 DSF1-24 DSF1-25 DSF1-28 DSF1-30
1.75 1.96 2.04 2.33 2.69	0.18 0.20 0.21 0.24 0.27			27.0 28.3 28.8 30.8 33.6	DSF1-32 DSF1-35 DSF1-36 DSF1-40 DSF1-45
2.92 3.07 3.78 4.07 4.50	0.30 0.31 0.39 0.41 0.46			35.5 36.8 44.1 47.4 52.7	DSF1-48 DSF1-50 DSF1-60 DSF1-64 DSF1-70
5.23 5.95 6.68	0.53 0.61 0.68			62.7 74.0 86.6	DSF1-80 DSF1-90 DSF1-100

- [Caution on Secondary Operations]
- ① Avoid performing secondary operations, as this is a complete product.