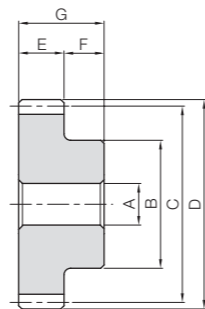


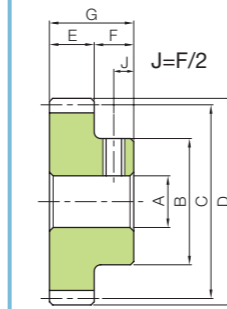


Specifications	
Precision grade	JIS grade N10 (JIS B1702-1:1998)*
Reference section of gear	Normal plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Helix angle	45°
Material	MC901
Heat treatment	—

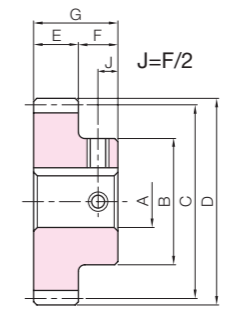
* The precision grade is equivalent to the value shown in the table.



S1



S1T



S1K



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

Catalog Number	Module	No. of teeth	Direction of helix	Shape	Bore		Pitch dia.	Outside dia.	Face width	Hub width	Total length	Allowable torque (N·m)	Allowable torque (kgf·m)	Backlash (mm)	Weight (kg)			
					A _{H8}	B												
PN1-13R PN1-13L	m1	13	R L	S1	6	15	18.38	20.38	10	10	20	0.19	0.019	0.18~0.32	0.0045			
PN1-15R PN1-15L		15	R L			18	21.21	23.21								0.29	0.029	0.20~0.34
PN1-20R PN1-20L		20	R L			8	25	28.28										
PN1.5-10R PN1.5-10L	m1.5	10	R L	S1	6	16	21.21	24.21	15	10	25	0.29	0.029	0~0.38	0.0077			
PN1.5-13R PN1.5-13L		13	R L			8	23	27.58								30.58	0.62	0.063
PN1.5-15R PN1.5-15L		15	R L			8	25	31.82								34.82		
PN1.5-20R PN1.5-20L		20	R L			10	30	42.43								45.43	2.14	0.22
PN2-10R PN2-10L	m2	10	R L	S1	10	22	28.28	32.28	20	15	35	0.66	0.068	0~0.42	0.018			
PN2-13R PN2-13L		13	R L			30	36.77	40.77								1.42	0.14	
PN2-15R PN2-15L		15	R L			35	42.43	46.43										2.14
PN2-20R PN2-20L		20	R L			12	45	56.57								60.57	4.84	
PN2.5-13R PN2.5-13L	m2.5	13	R L	S1	12	35	45.96	50.96	22	16	38	2.68	0.27	0~0.44	0.055			
PN2.5-15R PN2.5-15L		15	R L			40	53.03	58.03								4.03	0.41	
PN2.5-20R PN2.5-20L		20	R L			60	70.71	75.71										9.07
PN3-10R PN3-10L	m3	10	R L	S1	12	34	42.43	48.43	25	18	43	2.14	0.22	0~0.52	0.054			
PN3-15R PN3-15L		15	R L			15	50	63.64								69.64	6.75	0.69

Bore H8	* The product shapes of J Series items are identified by background color.																
	6	8	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35
Keyway JS9	—		4x1.8		5x2.3			6x2.8			8x3.3			10x3.3			
Screw size	—		4x1.8		5x2.3			6x2.8			8x3.3			10x3.3			
Catalog Number	M4	M5	M4			M5			M6			M8					
PN1-13RJ BORE																	
PN1-13LJ BORE																	
PN1-15RJ BORE																	
PN1-15LJ BORE																	
PN1-20RJ BORE																	
PN1-20LJ BORE																	
PN1.5-10RJ BORE																	
PN1.5-10LJ BORE																	
PN1.5-13RJ BORE																	
PN1.5-13LJ BORE																	
PN1.5-15RJ BORE																	
PN1.5-15LJ BORE																	
PN1.5-20RJ BORE																	
PN1.5-20LJ BORE																	
PN2-10RJ BORE																	
PN2-10LJ BORE																	
PN2-13RJ BORE																	
PN2-13LJ BORE																	
PN2-15RJ BORE																	
PN2-15LJ BORE																	
PN2-20RJ BORE																	
PN2-20LJ BORE																	
PN2.5-13RJ BORE																	
PN2.5-13LJ BORE																	
PN2.5-15RJ BORE																	
PN2.5-15LJ BORE																	
PN2.5-20RJ BORE																	
PN2.5-20LJ BORE																	
PN3-10RJ BORE																	
PN3-10LJ BORE																	
PN3-15RJ BORE																	
PN3-15LJ BORE																	

- [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.
 ② Since tapped holes of plastic products are easily damaged, avoid overtightening when fastening screws. For products with a short tapped hole, tighten screws to a torque of less than 0.12 N·m for M4 threads, and 0.38 N·m for M5 threads.

* In regard to MC Nylon gears, other materials are available for plastic gears, including Ultra High Molecular Weight Polyethylene (U-PE), which has excellent abrasion resistance and resin conforming to the Plastic Implementation Measure (PIM). A single piece order is acceptable and will be produced as a custom-made gear. Please see Page 26 for more details on quotations and orders.