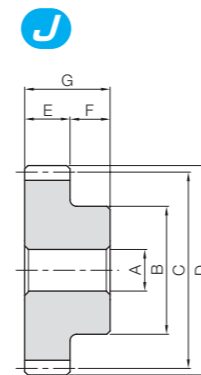




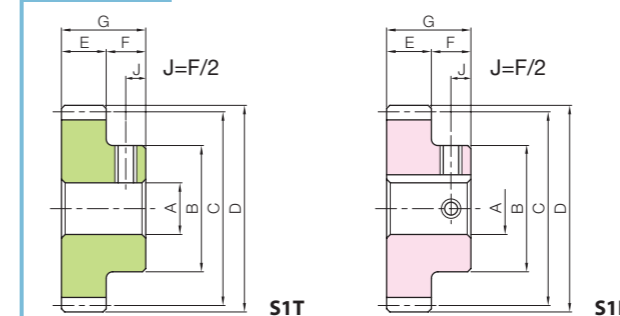
Specifications	
Precision grade	JIS grade N10 (JIS B1702-1:1998)*
Reference section of gear	Normal plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Helix angle	45°
Material	MC901
Heat treatment	—

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



S1

J Series



S1T

S1K

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

Catalog Number	Module	No. of teeth	Direction of helix	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Allowable torque		Backlash (mm)	Weight (kg)	
												(N·m)	(kgf·m)			
				A _{H8}		C	D	E	F	G	Surface durability	Surface durability				
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				30.28	0.66			
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			23	27.58	30.58				0.62	0.063			
PN1.5-15R PN1.5-15L		15	R L			25	31.82	34.82				0.93	0.095			
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	0.22			
PN2-20R PN2-20L		20	R L			12	45	56.57				60.57	4.84			0.49
PN2.5-10R PN2.5-10L	m2.5	10	R L	S1	10	26	35.36	40.36	22	16	38	1.27	0.13	0~0.44	0.031	
PN2.5-13R PN2.5-13L		13	R L			35	45.96	50.96				2.68	0.27			
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	0.92			
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	
PN3-13R PN3-13L		13	R L			45	55.15	61.15				4.51	0.46			
PN3-15R PN3-15L		15	R L			50	63.64	69.64				6.75	0.69			
PN3-20R PN3-20L		20	R L			60	84.85	90.85				15.0	1.53			

Bore H ₈	* 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 J ₅₉	—			4x1.8			5x2.3			6x2.8			8x3.3			10x3.3	
Screw size	M4		M5		M4			M5			M6			M8			
Catalog Number	M4	M5	M4	M5	M4	M5	M4	M5	M4	M5	M4	M5	M4	M5	M4	M5	M4
PN1-13RJ BORE	S1T																
PN1-13LJ BORE	S1T																
PN1-15RJ BORE	S1T	S1T															
PN1-15LJ BORE	S1T	S1T															
PN1-20RJ BORE		S1T	S1K	S1K													
PN1-20LJ BORE		S1T	S1K	S1K													
PN1.5-10RJ BORE	S1T																
PN1.5-10LJ BORE	S1T																
PN1.5-13RJ BORE		S1T	S1K														
PN1.5-13LJ BORE		S1T	S1K														
PN1.5-15RJ BORE		S1T	S1K	S1K													
PN1.5-15LJ BORE		S1T	S1K	S1K													
PN1.5-20RJ BORE			S1K	S1K	S1K	S1K	S1K	S1K									
PN1.5-20LJ BORE			S1K	S1K	S1K	S1K	S1K	S1K									
PN2-10RJ BORE			S1K														
PN2-10LJ BORE			S1K														
PN2-13RJ BORE			S1K	S1K	S1K	S1K	S1K	S1K									
PN2-13LJ BORE			S1K	S1K	S1K	S1K	S1K	S1K									
PN2-15RJ BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
PN2-15LJ BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
PN2-20RJ BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
PN2-20LJ BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
PN2.5-10RJ BORE			S1K	S1K													
PN2.5-10LJ BORE			S1K	S1K													
PN2.5-13RJ BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
PN2.5-13LJ BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
PN2.5-15RJ BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
PN2.5-15LJ BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
PN2.5-20RJ BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
PN2.5-20LJ BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
PN3-10RJ BORE			S1K	S1K	S1K	S1K											
PN3-10LJ BORE			S1K	S1K	S1K	S1K											
PN3-13RJ BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
PN3-13LJ BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
PN3-15RJ BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
PN3-15LJ BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
PN3-20RJ BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
PN3-20LJ BORE					S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K

* 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.