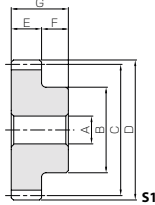




Specifications	
Precision grade	JIS grade N9 (JIS B1702-1:1998) * JIS grade 5 (JIS B1702:1978)
Gear teeth	Standard full depth
Pressure angle	20°
Material	MC901
Heat treatment	—
Tooth hardness	(115 ~ 120HRR)
Face width (E)	10
Hub width (F)	10
Total length (G)	20
Screw offset (J)	5



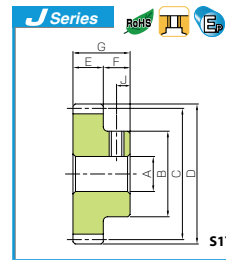
* The precision grade of J Series products is equivalent to the value shown in the table.

Catalog No.	No. of teeth	Shape	Bore		Hub dia.	Pitch dia.	Outside dia.	Allowable torque (N·m)	Allowable torque (kgf·m)	Backlash	Weight
			A _{H7}	B							
PS1-15	15	S1	6	12	15	17	0.41	0.042	0~0.32	0.0027	
PS1-16	16				16	18	0.45	0.046			
PS1-18	18				18	20	0.53	0.054			
PS1-20	20				20	22	0.61	0.063			
PS1-22	22				22	24	0.69	0.071			
PS1-24	24		8	20	24	26	0.77	0.079	0~0.34	0.0077	
PS1-25	25				25	27	0.82	0.083			
PS1-26	26				26	28	0.86	0.088			
PS1-28	28				28	30	0.94	0.096			
PS1-30	30				30	32	1.03	0.10			
PS1-32	32	10	26	32	34	1.11	0.11	0~0.36	0.014		
PS1-35	35			35	37	1.25	0.13				
PS1-36	36			36	38	1.30	0.13				
PS1-40	40			40	42	1.48	0.15				
PS1-45	45			45	47	1.71	0.17				
PS1-48	48	35	48	50	52	1.86	0.19	0.030	0.032		
PS1-50	50			50	57	2.18	0.22				
PS1-55	55			60	62	2.41	0.25				
PS1-60	60			65	67	2.64	0.27				
PS1-65	65			70	72	2.87	0.29				
PS1-70	70	40	70	75	77	3.11	0.32	0.064	0.071		
PS1-75	75			80	82	3.34	0.34				
PS1-80	80			85	87	3.57	0.36				
PS1-85	85			90	92	3.80	0.39				
PS1-90	90			95	97	4.03	0.41				
PS1-95	95	40	100	102	102	4.27	0.44	0.095	0.10		
PS1-100	100			100	102	4.27	0.44				

- [Caution on Product Characteristics]
- ① Significant variations in temperature or humidity can cause dimensional changes in plastic gears (MC Nylon gears), including bore size (H8 when produced), tooth diameter, and backlash. Please see the section "Design of Plastic Gears" in separate technical reference book. (Page 101).
 - ② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 for more details.
 - ③ Without lubrication, using plastic gears in pairs may generate heat and dilation. It is recommended to mate them with steel gears.
 - ④ 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.

- [Caution on Secondary Operations]
- ① Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
 - ② Plastic gears are susceptible to the effects of temperature and moisture. Dimensional changes may occur while performing secondary operations and during post-machining operations.

* In regards to MC Nylon gears, other materials are available for plastic gears, including Ultra High Molecular Weight Polyethylene (UHMW-PE), which has excellent abrasion resistance. Poly Ether Ether Ketone (PEEK) also has quality properties. A single piece order is acceptable and will be produced as a custom-made gear. For details on quotations and orders please see page 8.



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.																																																																														
	6	8	10	12	14	15	16	17	18	19	20	22	25	28	30																																																																
Keyway Js9	—		4 × 1.8			5 × 2.3			6 × 2.8			8 × 3.3																																																																			
Screw size	M4		M5		M4			M5			M6																																																																				
Catalog No.	PS1-15 J BORE		PS1-16 J BORE		PS1-18 J BORE			PS1-20 J BORE			PS1-22 J BORE			PS1-24 J BORE			PS1-25 J BORE			PS1-26 J BORE			PS1-28 J BORE			PS1-30 J BORE			PS1-32 J BORE			PS1-35 J BORE			PS1-36 J BORE			PS1-40 J BORE			PS1-45 J BORE			PS1-48 J BORE			PS1-50 J BORE			PS1-55 J BORE			PS1-60 J BORE			PS1-65 J BORE			PS1-70 J BORE			PS1-75 J BORE			PS1-80 J BORE			PS1-85 J BORE			PS1-90 J BORE			PS1-95 J BORE			PS1-100 J BORE		

- [Caution on J series]
- ① As available-on-request products, requires a lead-time for shipping within 2 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.
 - ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
 - ③ Keyways are made according to JIS B1301 standards, Js9 tolerance.
 - ④ Certain products which would otherwise have a very long tapped hole are contoured to reduce the length of the tap.
 - ⑤ For products having a tapped hole, a set screw is included.
 - ⑥ Since tapped holes of plastic products are easily broken, avoid too much tightening when fastening screws. For products which have a short tapped hole (Products marked with "*" are the tap size), fasten with torques less than 0.12N · m for M4, and 0.38N · m for M5.

GCU-S Spur Gear Kit

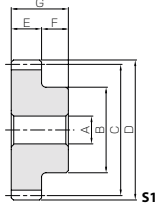


Installation : Parallel axes gears (Two-stage)
 Gear Type : Spur Gears
 Gears : 2 units of SS1.5-16
 2 units of PS1.5-22
 Gear Ratio : 1.89
 Weight : Approx. 1kg

The Gear Kit contains two-stage spur gears and allows speed increases / reductions, and includes the most commonly used combinations of gears.



Specifications	
Precision grade	JIS grade N9 (JIS B1702-1:1998) * JIS grade S (JIS B1702:1978)
Gear teeth	Standard full depth
Pressure angle	20°
Material	MC901
Heat treatment	—
Tooth hardness	(115 ~ 120HRR)
Face width (E)	15
Hub width (F)	10
Total length (G)	25
Screw offset (J)	5



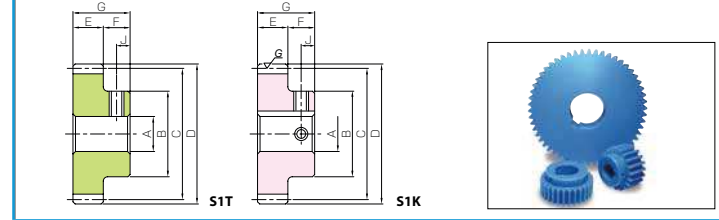
* The precision grade of J Series products is equivalent to the value shown in the table.

Catalog No.	No. of teeth	Shape	Bore		Hub dia. B	Pitch dia. C	Outside dia. D	Allowable torque (N·m)		Backlash (mm)	Weight (kg)
			A _{H7}	H ₇				Bending strength	Bending strength		
PS1.5-15	15	S1	8		18	22.5	25.5	1.39	0.14	0~0.38	0.0084
PS1.5-16	16				20	24	27	1.53	0.16		0.010
PS1.5-18	18				22	27	30	1.79	0.18		0.013
PS1.5-20	20				24	30	33	2.07	0.21		0.016
PS1.5-22	22				26	33	36	2.34	0.24		0.020
PS1.5-24	24				28	36	39	2.61	0.27		0.023
PS1.5-25	25				30	37.5	40.5	2.76	0.28		0.026
PS1.5-26	26				32	39	42	2.91	0.3		0.029
PS1.5-28	28				36	42	45	3.18	0.32		0.034
PS1.5-30	30				38	45	48	3.46	0.35		0.039
PS1.5-32	32				40	48	51	3.76	0.38		0.045
PS1.5-35	35				42	52.5	55.5	4.22	0.43		0.052
PS1.5-36	36	45	54	57	4.38	0.45	0.057				
PS1.5-40	40	45	60	63	5.00	0.51	0.065				
PS1.5-45	45	45	67.5	70.5	5.79	0.59	0.078				
PS1.5-48	48	45	72	75	6.27	0.64	0.087				
PS1.5-50	50	45	75	78	6.60	0.67	0.093				
PS1.5-55	55	45	82.5	85.5	7.36	0.75	0.11				
PS1.5-60	60	50	90	93	8.14	0.83	0.13				
PS1.5-65	65	50	97.5	100.5	8.91	0.91	0.15				
PS1.5-70	70	50	105	108	9.69	0.99	0.17				
PS1.5-75	75	50	112.5	115.5	10.5	1.07	0.19				
PS1.5-80	80	55	120	123	11.3	1.15	0.22				
PS1.5-85	85	55	127.5	130.5	12.0	1.23	0.25				
PS1.5-90	90	55	135	138	12.8	1.31	0.27				
PS1.5-95	95	60	142.5	145.5	13.6	1.39	0.31				
PS1.5-100	100	60	150	153	14.4	1.47	0.34				

- [Caution on Product Characteristics]
- ① Significant variations in temperature or humidity can cause dimensional changes in plastic gears (MC Nylon gears), including bore size (H8 when produced), tooth diameter, and backlash. Please see the section "Design of Plastic Gears" in separate technical reference book. (Page 101).
 - ② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 for more details.
 - ③ Without lubrication, using plastic gears in pairs may generate heat and dilation. It is recommended to mate them with steel gears.
 - ④ 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.

- [Caution on Secondary Operations]
- ① Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
 - ② Plastic gears are susceptible to the effects of temperature and moisture. Dimensional changes may occur while performing secondary operations and during post-machining operations.

* In regards to MC Nylon gears, other materials are available for plastic gears, including Ultra High Molecular Weight Polyethylene (UHMW-PE), which has excellent abrasion resistance. Poly Ether Ether Ketone (PEEK) also has quality properties. A single piece order is acceptable and will be produced as a custom-made gear. For details on quotations and orders please see page 8.



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.																										
	6	8	10	12	14	15	16	17	18	19	20	22	25	28	30												
Keyway Js9	—		4 × 1.8			5 × 2.3			6 × 2.8			8 × 3.3															
Screw size	M4		M5		M4			M5			M6																
Catalog No.	PS1.5-15 J BORE	PS1.5-16 J BORE	PS1.5-18 J BORE	PS1.5-20 J BORE	PS1.5-22 J BORE	PS1.5-24 J BORE	PS1.5-25 J BORE	PS1.5-26 J BORE	PS1.5-28 J BORE	PS1.5-30 J BORE	PS1.5-32 J BORE	PS1.5-35 J BORE	PS1.5-36 J BORE	PS1.5-40 J BORE	PS1.5-45 J BORE	PS1.5-48 J BORE	PS1.5-50 J BORE	PS1.5-55 J BORE	PS1.5-60 J BORE	PS1.5-65 J BORE	PS1.5-70 J BORE	PS1.5-75 J BORE	PS1.5-80 J BORE	PS1.5-85 J BORE	PS1.5-90 J BORE	PS1.5-95 J BORE	PS1.5-100 J BORE

- [Caution on J series]
- ① As available-on-request products, requires a lead-time for shipping within 2 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.
 - ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
 - ③ Keyways are made according to JIS B1301 standards, Js9 tolerance.
 - ④ Certain products which would otherwise have a very long tapped hole are contoured to reduce the length of the tap.
 - ⑤ For products having a tapped hole, a set screw is included.
 - ⑥ Since tapped holes of plastic products are easily broken, avoid too much tightening when fastening screws. For products which have a short tapped hole (Products marked with "*" are the tap size), fasten with torques less than 0.12N · m for M4, and 0.38N · m for M5.

GCU-S Spur Gear Kit



Installation : Parallel axes gears (Two-stage)
 Gear Type : Spur Gears
 Gears : 2 units of SS1.5-16
 2 units of PS1.5-22
 Gear Ratio : 1.89
 Weight : Approx. 1kg

The Gear Kit contains two-stage spur gears and allows speed increases / reductions, and includes the most commonly used combinations of gears.



Specifications	
Precision grade	JIS grade N9 (JIS B1702-1:1998) * JIS grade S (JIS B1702:1978)
Gear teeth	Standard full depth
Pressure angle	20°
Material	MC901
Heat treatment	—
Tooth hardness	(115 ~ 120HRR)
Face width (E)	20
Hub width (F)	10 (Shape S1)
Total length (G)	30 (Shape S1)
Screw offset (J)	5 (Shape S1)

* The precision grade of J Series products is equivalent to the value shown in the table.



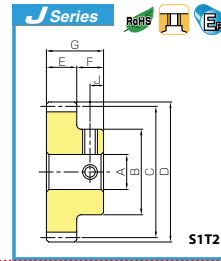
Catalog No.	No. of teeth	Shape	Bore A _{H7}	Hub dia. B	Pitch dia. C		Outside dia. D		Allowable torque (N·m)	Allowable torque (kgf·m)	Backlash (mm)	Weight (kg)
					B	C	D	D				
PS2-12	12	S1	10	18	24	28	2.25	0.23	0~0.42	0.011		
PS2-13	13			20	26	30	2.59	0.26				
PS2-14	14			20	28	32	2.96	0.30				
PS2-15	15			24	30	34	3.29	0.34				
PS2-16	16			26	32	36	3.63	0.37				
PS2-18	18			30	36	40	4.24	0.43				
PS2-20	20			32	40	44	4.91	0.50				
PS2-22	22			35	44	48	5.55	0.57				
PS2-24	24			38	48	52	6.19	0.63				
PS2-25	25			40	50	54	6.54	0.67				
PS2-26	26			42	52	56	6.90	0.70			0~0.44	
PS2-28	28			45	56	60	7.54	0.77				
PS2-30	30			50	60	64	8.20	0.84				
PSA2-32	32			64	68	72	8.91	0.91				
PSA2-35	35			70	74	78	10.0	1.02				
PSA2-36	36			72	76	80	10.4	1.06				
PSA2-40	40	80	84	88	11.9	1.21						
PSA2-45	45	90	94	98	13.7	1.40						
PSA2-48	48	96	100	104	14.9	1.52	0~0.46					
PSA2-50	50	100	104	108	15.7	1.60						
PSA2-55	55	110	114	118	17.5	1.78						
PSA2-60	60	120	124	128	19.3	1.97						
PSA2-65	65	130	134	138	21.1	2.15						
PSA2-70	70	140	144	148	23.0	2.34						
PSA2-75	75	150	154	158	24.9	2.54						
PSA2-80	80	160	164	168	26.7	2.72						
PSA2-85	85	170	174	178	28.5	2.91						
PSA2-90	90	180	184	188	30.4	3.10						
PSA2-95	95	190	194	198	32.3	3.29						
PSA2-100	100	200	204	208	34.2	3.48						

[Caution on Product Characteristics] ① Significant variations in temperature or humidity can cause dimensional changes in plastic gears (MC Nylon gears), including bore size (H8 when produced), tooth diameter, and backlash. Please see the section "Design of Plastic Gears" in separate technical reference book. (Page 101).

- ② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 for more details.
- ③ Without lubrication, using plastic gears in pairs may generate heat and dilation. It is recommended to mate them with steel gears.
- ④ 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.

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
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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 Js9	4 x 1.8				5 x 2.3				6 x 2.8				8 x 3.3				10 x 3.3				12 x 3.3				14 x 3.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Screw size	M4				M5				M6				M8				M10				M12																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Catalog No.	PS2-12 J BORE																PS2-13 J BORE																PS2-14 J BORE																PS2-15 J BORE																PS2-16 J BORE																PS2-18 J BORE																PS2-20 J BORE																PS2-22 J BORE																PS2-24 J BORE																PS2-25 J BORE																PS2-26 J BORE																PS2-28 J BORE																PS2-30 J BORE																PSA2-32 J BORE																PSA2-35 J BORE																PSA2-36 J BORE																PSA2-40 J BORE																PSA2-45 J BORE																PSA2-48 J BORE																PSA2-50 J BORE																PSA2-55 J BORE																PSA2-60 J BORE																PSA2-65 J BORE																PSA2-70 J BORE																PSA2-75 J BORE																PSA2-80 J BORE																PSA2-85 J BORE																PSA2-90 J BORE																PSA2-95 J BORE																PSA2-100 J BORE															

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② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
③ Keyways are made according to JIS B1301 standards, Js9 tolerance.
④ Certain products which would otherwise have a very long tapped hole are centerbored to reduce the length of the tap.
⑤ For products having a tapped hole, a set screw is included.
⑥ Since tapped holes of plastic products are easily broken, avoid too much tightening when fastening screws. For products which have a short tapped hole (Products marked with *** are the tap size), fasten with torques less than 0.12N · m for M4, and 0.38N · m for M5.

Stainless Steel Hubs for PSA are now available!
Standardized sectional stainless steel hubs. It enhances a secure fastening to the shaft.

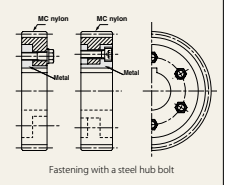
For details, please see Page 150.

How to attach gears to shafts

To attach gears to shafts, in case of light loads, methods include using keys, taper pins, spring pins, and press fitting after mounting the setscrews. While looseness tends to occur in the conditions below, plastic gears are fastened by applying a steel hub.

1. When the circumferential temperature is high
2. For large diameter gears
3. If forward-reverse motion impacts keys

For fastening steel hubs into plastic gears with bolts, see below for various methods. For gears, which cannot be fasten with bolts due to their shape; it is recommended to use the method of fusion bonding with metal cores.





Specifications	
Precision grade	JIS grade N9 (JIS B1702-1:1998) * JIS grade S (JIS B1702:1978)
Gear teeth	Standard full depth
Pressure angle	20°
Material	MC901
Heat treatment	—
Tooth hardness	(115 ~ 120HRR)
Face width (E)	20
Hub width (F)	12 (Shape S1)
Total length (G)	37 (Shape S1)
Screw offset (J)	6 (Shape S1)

* The precision grade of J Series products is equivalent to the value shown in the table.



Catalog No.	No. of teeth	Shape	Bore		Pitch dia.	Outside dia.		Allowable torque (N·m)	Allowable torque (kgf·m)	Backlash	Weight
			A _{H7}	B		C	D				
PS2.5-12	12	S1	10	23	30	35	4.39	0.45	0~0.44	0.023	
PS2.5-13	13				32.5	37.5	5.06	0.52			
PS2.5-14	14				35	40	5.77	0.59			
PS2.5-15	15				37.5	42.5	6.42	0.65			
PS2.5-16	16				40	45	7.09	0.72			
PS2.5-18	18				45	50	8.28	0.84			
PS2.5-20	20	12	12	40	50	55	9.59	0.98	0~0.46	0.028	
PS2.5-22	22				55	60	10.8	1.11			
PS2.5-24	24				60	65	12.1	1.23			
PS2.5-25	25				62.5	67.5	12.8	1.30			
PS2.5-26	26				65	70	13.5	1.37			
PS2.5-28	28				70	75	14.7	1.50			
PS2.5-30	30	75	80	16.0	1.63	0.17	0.15	0~0.48	0.037		
PSA2.5-32	32	S5	15	—	80	85	17.4			1.77	
PSA2.5-35	35				87.5	92.5	19.5			1.99	
PSA2.5-36	36				90	95	20.3			2.07	
PSA2.5-40	40				100	105	23.2			2.36	
PSA2.5-45	45				112.5	117.5	26.8			2.73	
PSA2.5-48	48				120	125	29.0	2.96			
PSA2.5-50	50	125	130	30.6	3.12	0.36	0.43	0.51	0.043		
PSA2.5-55	55	137.5	142.5	34.1	3.48						
PSA2.5-60	60	150	155	37.7	3.84	0.51	0.15	0.17	0.23	0.29	

- [Caution on Product Characteristics]**
- Significant variations in temperature or humidity can cause dimensional changes in plastic gears (MC Nylon gears), including bore size (H8 when produced), tooth diameter, and backlash. Please see the section "Design of Plastic Gears" in separate technical reference book. (Page 101).
 - The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 for more details.
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 - 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.

- [Caution on Secondary Operations]**
- Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
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*** In regards to MC Nylon gears, other materials are available for plastic gears, including Ultra High Molecular Weight Polyethylene (UHMW-PE), which has excellent abrasion resistance. Poly Ether Ether Ketone (PEEK) also has quality properties. A single piece order is acceptable and will be produced as a custom-made gear. For details on quotations and orders please see Page 8.**

GCU-S Spur Gear Kit



Installation : Parallel axes gears
(Two-stage)
Gear Type : Spur Gears
Gears : 2 units of SS1.5-16
2 units of PS1.5-22
Gear Ratio : 1.89
Weight : Approx. 1kg

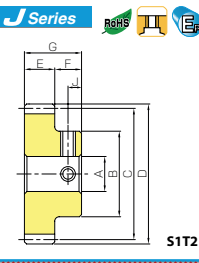
The Gear Kit contains two-stage spur gears and allows speed increases / reductions, and includes the most commonly used combinations of gears.

Stainless Steel Hubs for PSA are now available!

Standardized sectional stainless steel hubs. It enhances a secure fastening to the shaft.



For details, please see Page 150.



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.																																																																																																																																																																																																																																																																																																																																																															
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Keyway Js9	4 x 1.8				5 x 2.3				6 x 2.8				8 x 3.3				10 x 3.3				12 x 3.3				14 x 3.8																																																																																																																																																																																																																																																																																																																																							
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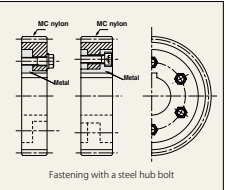
- [Caution on J series]**
- As available-on-request products, requires a lead-time for shipping within 2 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.
 - Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
 - Keyways are made according to JIS B1301 standards, Js9 tolerance.
 - Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap.
 - For products having a tapped hole, a set screw is included.
 - Since tapped holes of plastic products are easily broken, avoid too much tightening when fastening screws. For products which have a short tapped hole (Products marked with " *** " are the tap size), fasten with torques less than 0.12N · m for M4, and 0.38N · m for M5.

How to attach gears to shafts

To attach gears to shafts, in case of light loads, methods include using keys, taper pins, spring pins, and press fitting after mounting the setscrews. While looseness tends to occur in the conditions below, plastic gears are fastened by applying a steel hub.

- When the circumferential temperature is high
- For large diameter gears
- If forward-reverse motion impacts keys

For fastening steel hubs into plastic gears with bolts, see below for various methods. For gears, which cannot be fasten with bolts due to their shape; it is recommended to use the method of fusion bonding with metal cores.





Specifications	
Precision grade	JIS grade N9 (JIS B1702-1:1998) * JIS grade S (JIS B1702:1978)
Gear teeth	Standard full depth
Pressure angle	20°
Material	MC901
Heat treatment	—
Tooth hardness	(115 ~ 120HRR)
Face width (E)	30
Hub width (F)	15 (Shape S1)
Total length (G)	45 (Shape S1)
Screw offset (J)	7.5 (Shape S1)

* The precision grade of J Series products is equivalent to the value shown in the table.



Catalog No.	No. of teeth	Shape	Bore		Hub dia.		Pitch dia.		Outside dia.		Allowable torque (N·m)	Allowable torque (kgf·m)	Backlash (mm)	Weight (kg)			
			A _{H7}	H7	B	C	B	C	Bending strength	Bending strength							
P53-12	12	S1	12	12	28	36	42	7.58	0.77	0~0.52	0.040	0.048	0.056	0.065			
P53-13	13				30	39	45	8.74	0.89								
P53-14	14				32	42	48	9.97	1.02								
P53-15	15				36	45	51	11.1	1.13								
P53-16	16				38	48	54	12.3	1.25								
P53-18	18				40	54	60	14.3	1.46								
P53-20	20		50	60	66	16.6	1.69	0~0.54	0.12	0.15	0.18	0.19	0.22	0.25	0.29		
P53-22	22		54	66	72	18.7	1.91										
P53-24	24		58	72	78	20.9	2.13										
P53-25	25		60	75	81	22.1	2.25										
P53-26	26		65	78	84	23.3	2.37										
P53-28	28		70	84	90	25.5	2.60										
P53-30	30		75	90	96	27.7	2.82	0~0.56	0.25	0.30	0.32	0.39	0.50	0.57	0.61	0.74	0.89
PSA3-32	32		96	102	108	30.1	3.07										
PSA3-35	35		105	111	114	33.8	3.44										
PSA3-36	36		108	114	114	35.1	3.57										
PSA3-40	40	120	126	126	40.0	4.08											
PSA3-45	45	135	141	141	46.3	4.72											
PSA3-48	48	144	150	150	50.2	5.12	0~0.56	0.57	0.61	0.74	0.89						
PSA3-50	50	150	156	156	52.8	5.39											
PSA3-55	55	165	171	171	58.9	6.01											
PSA3-60	60	180	186	186	65.1	6.64											

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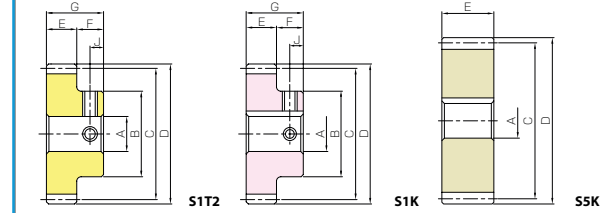
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