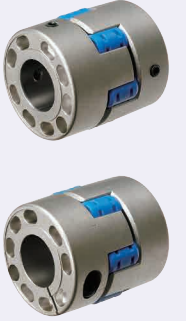


Jaw Couplings

Set Screw / Clamping

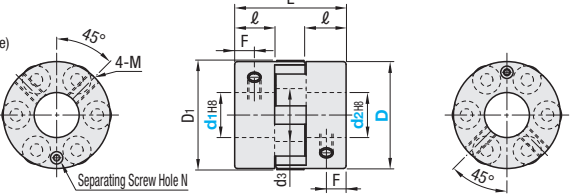
■Features: Deals high torque and has significantly little backlash because the spacer is assembled by press-fitting. Suitable for transfer mechanism using servo motors, since the overall length is short and spacer absorbs the shocks of direction reversals.



RoHS10

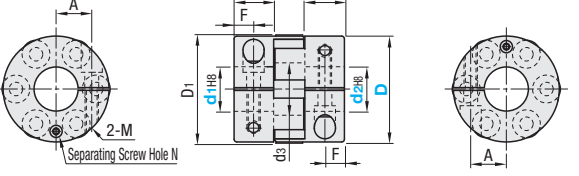
■Set Screw

MMJN (High Rigidity)
MMJP (Misalignment Tolerant Type)



■Clamping

MMJCN (High Rigidity)
MMJCP (Misalignment Tolerant Type)



Type	Standard Bore	Material Hub	Material Spacer	Surface Treatment Hub	Accessory
Set Screw	MMJN	Aluminum Diecast	Nylon (Black)	Electroless Nickel Plating	Set Screw
	MMJP		Polyurethane (Blue)		
Clamping	MMJCN	Aluminum Diecast	Nylon (Black)	Electroless Nickel Plating	Hex Socket Head Cap Screw
	MMJCP		Polyurethane (Blue)		

- Operating Temperature: -20°C ~ 60°C
- Tolerances for d1 and d2 are values before slit machining.
- The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
- For the selection criteria and alignment procedures, see **P1061**
- A separation of hub is possible by fitting commercially available bolt into the separating screw hole.

Part Number		d1, d2 Selection (d1≤d2)		D1	d3	L	ℓ	F	Set Screw			Unit Price
Type	D								M	Tightening Torque (N·m)	Separating Tap Dia. N	
MMJN MMJP	55	15 16 18 20 24		56	27	60	21	10.5	M6	8	M4	
	70	18 20 24 28 30 35		72	35	75	26	13	M8	16	M5	
	95	24 28 30 35 40		97	46	100	35.5	17.5	M10	33	M6	

Part Number		d1, d2 Selection (d1≤d2)		D1	d3	L	ℓ	F	A	Clamp Screw			Unit Price
Type	D									M	Tightening Torque (N·m)	Separating Tap Dia. N	
MMJCN MMJCP	55	15 16 18 20 24		56	27	60	21	10.5	18.5	M6	15	M4	
	70	18 20 24 28 30 35		72	35	75	26	13	24	M8	32	M5	
	95	24 28 30 35 40		97	46	100	35.5	17.5	32	M10	65	M6	

Part Number		Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Mass (g)
MMJN	55	80	1	0.1	8000	11000	1.0x10 ⁻⁴	±0.5	300
	70	120			11000	8000	4.0x10 ⁻⁴	±0.7	600
	95	180	0.15		20000	6000	1.0x10 ⁻³	±1.0	1200

Part Number		Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Mass (g)
MMJCN	55	80	1	0.1	8000	8000	1.0x10 ⁻⁴	±0.5	300
	70	120			11000	6000	4.0x10 ⁻⁴	±0.7	600
	95	180	0.15		20000	4000	1.0x10 ⁻³	±1.0	1200

⚠ The allowable torque varies depending on temperature. See **P.1062**

Alterations	Part Number	Shaft Bore Dia. d1 (D1)	Shaft Bore Dia. d2 (D2)	(LK, RK, LDC, RDC, KLH, KRH)
MMJN55	LDC19		RDC22	

Ordering Example	Part Number	Shaft Bore Dia. d1	Shaft Bore Dia. d2
MMJN55	15	18	

Spec.	Keyway		Shaft Bore Dia.		Keyway Width	
	MMJN MMJP	MMJCN MMJCP	LDC RDC	KLH KRH	KLH10 KRH10	KLH KRH
Ordering Code	LK5 RK5	LK RK	LDC19 RDC21	LK RK	KLH10 KRH10	KLH KRH
	15, 16 18, 20 24~30 35 40	5 6 8 10 12				
⚠ Cannot be combined with shaft bore change (LDC, RDC) alterations. ⚡ For key dimensions, refer to the following.						
Code	LK (Left Shaft)	RK (Right Shaft)	LDC (Left Shaft)	RDC (Right Shaft)	KLH (Left Shaft)	KRH (Right Shaft)

Keyway Dimension

Shaft Bore Dia. d1, d2	LK RK	b Reference Dia.	t Tolerance	Key Nominal Dim. Inch
15, 16	5	6	±0.0150	2.3
18, 20	6	8	±0.0150	2.8
24~30	8	8	±0.0180	3.3
35	10	10	±0.0215	
40	12	12	±0.0215	

N Coupling / Chain Coupling

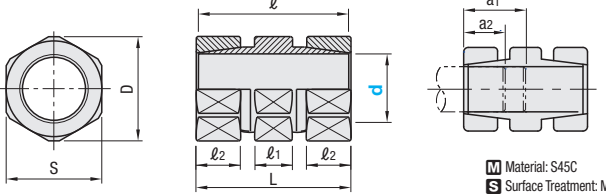
■Features: Easy to tighten the shaft by nut alone, and able to handle thrust load.



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■N Coupling

CPN

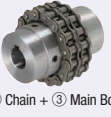


Material: S45C
Surface Treatment: Manganese Phosphate

Part Number	S	D	ℓ	ℓ1	ℓ2	L	Shaft Insertion Depth (mm)	Tightening Torque (N·m)	Moment of Inertia GD² (kg·m²)	Allowable Torque (N·m)	Max. Allowable Thrust (N)	Mass (g)	Unit Price
Type	d						Standard a1	Minimum a2					
6	12	13	20.5	5.5	5.5	21.5	10.25	7.5	11.8	4.24x10 ⁻⁶	7.8	833	13
7	14	15	20.5	5.5	5.5	21.9	10.25	7.5	12.7	5.25x10 ⁻⁷	8.8	981	17.5
8	14	15	21	6	6	23	10.5	7.5	13.7	8.25x10 ⁻⁷	9.8	1128	18
9	17	18.5	23.5	6.5	7	25.5	11.75	8.5	15.7	1.98x10 ⁻⁶	11.8	1520	30
10	17	18.5	25.4	7	7.5	27.4	12.7	9.2	19.6	2.08x10 ⁻⁶	15.7	1804	30
11	19	21	29	8	9	31	14.5	10.5	24.5	3.75x10 ⁻⁶	19.6	1912	43
12	19	21	30	8	9	32	15	11	29.4	3.75x10 ⁻⁶	37.3	2010	41
14	22	24.6	34	9	10	36	17	12.5	34.3	7.50x10 ⁻⁶	41.2	2442	60
15	23	25	37.5	9.5	11.5	39.5	18.75	14	39.2	1.00x10 ⁻⁵	49	2942	75
16	24	26	39	10	12	41	19.5	14.5	49	1.45x10 ⁻⁵	54.9	3275	100
17	26	28.5	41	11	12.5	43	20.5	15	53.9	1.93x10 ⁻⁵	60.8	3687	115
18	27	30	43	12	12.5	45	21.5	15.5	58.8	2.48x10 ⁻⁵	68.6	3942	130
19	29	32	45	12	13.5	47	22.5	16.5	63.7	3.25x10 ⁻⁵	75.5	4364	150
20	30	32.5	48	13	14.5	50	24	17.5	68.6	3.50x10 ⁻⁵	88.2	4952	160
22	32	35	50	14	15	52	25	18	78.4	5.00x10 ⁻⁵	103	5491	190
24	35	38.5	52	14	16	54	26	19	83.3	7.25x10 ⁻⁵	123	6080	230
25	36	40	55	15	17	57	27.5	20	88.2	9.00x10 ⁻⁵	157	7159	260
30	41	45	63	17	17	65	31.5	23	127	8.75x10 ⁻⁵	177	11768	350
35	46	51	69	19	19	71	34.5	25	167	1.55x10 ⁻⁴	206	11768	480

Ordering Example	Part Number
	CPN10

■Features: Dual row roller chains and sprockets construction has excellent torque transmission efficiency.



① Chain + ③ Main Body

② Case

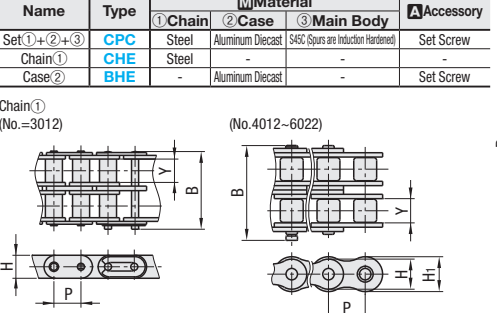
RoHS10

■Chain Coupling

Name	Type	Material	Accessory
Set (①+②+③)	CPC	Steel	Set Screw
Chain ①	CHE	Steel	-
Case ②	BHE	Aluminum Diecast	Set Screw

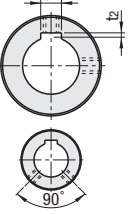
Chain ① (No.=3012)

(No.4012~6022)



Set (①+②+③)

Shaft Bore Specifications (New JIS Key + Tap)



For shaft bores marked with *, the set screw locations are as shown.

Part Number		d1, d2 Selection (d1≤d2)		Mass (kg)	D	E	F	G	L1	ℓ1	ℓ2	C	Max. Rotational Speed (r/min)	Allowable Torque (N·m) at less than 50rpm	Unit Price
Type	No.														
CPC (①+②+③)	3012	14'	16'	0.6	69	25	26.5	45	64.8	29.8	16	10.2	250	100	
	4012	14	15 16 17 18 19 20 22'	0.9	77	33	36	62	79.4	36	17	14.4	250	218	
	4014	17 18 19 20 22 24 25 26 28 30'	1.2	84	43	45	69	79.4	36	17	14.4	200	296		
	4016	19 20 22 24 25 28 30 32	1.7	92	48	51	77	87.4	40	23	14.4	200	386		
	5014	20 22 24 25 28 30 32 35	2.3	101	53	56	86	99.7	45	24	18.1	150	563		
	5016	22 24 25 28 30 32 35 38 40	3.1	111	60	63	96	99.7	45	24	18.1	150	735		
	5018	30 32 35 38 40 42 45	3.8	122	70	73	106	99.7	45	24	18.1	150	931		
	6018	40 42 45 48 50 55	7.0	142	85	88	127	123.5	56	28	22.8	100	1,754		
	6022	48 50 55	11.7	168	110	115	152	123.5	56	28	22.8	100	2,372		

Separate Item									
Part Number		Chain only							
Type	No.	Number of Links	P	H	H ₁	B	Y	Mass (kg)	Unit Price
CHE ① Chain only	3012	12	9.525	8.1	8.1	23.85	5.72	0.1	
	4012	12	12.70	10.41	12.06	32.78	7.90	0.2	
	4014	14	12.70	10.41	12.06	32.78	7.90	0.2	
	4016	16	12.70	10.41	12.06	32.78	7.90	0.3	
	5014	14	15.875	13.01	15.08	41.45	9.54	0.4	
	5016	16	15.875	13.01	15.08	41.45	9.54	0.5	
	5018	18	15.875	13.01	15.08	41.45	9.54	0.6	
	6018	18	19.05	15.64	18.09	52.30	12.7	1.0	
	6022	22	19.05	15.64	18.09	52.30	12.7	1.3	

Part Number		Chain only		Case only		Keyway Dimensions	
Type	No.	D	L	Mass (kg)	Unit Price		
BHE (② Case only)	3012	69	63	0.3			
	4012	77	72	0.3			
	4014	84	75	0.4			
	4016	92	75	0.4			
	5014	101	85	0.5			
	5016	111	85	0.6			
	5018	122	85	0.8			
	6018	142	106	1.2			
	6022	168	117	1.8			

- TOLERABLE MISALIGNMENTS
- Angular α = 0.5° or Less
 - Lateral ε = 1% or less of chain pitch