Disc Couplings

The stainless discs of this product have sharp edges that may cause injuries.

Use of thick protective gloves is recommended.

High Rigidity (O.D. 87), Keywayed Bore / Clamping

For Servo Motors

Features: The keywayed bore type covers high torque of up to 180N · m.

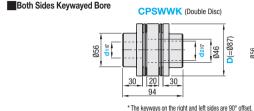


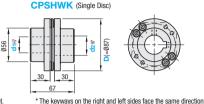
Tolerances for d1 and d2 are values before slit machining.

Shipped after center-aligned and





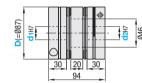








CPSWC (Double Disc)





RoHS10

Part Number	Part Number		Clamp Screw		Allowable	Angular	Lateral	Static Torsional	Max.	Moment	Allowable Axial Misalignment	Commonation	Mass	Unit
Туре	D	d ₁ , d ₂ Selection	Size	Tightening Torque (N · m)			Misalignment (mm)	Spring Constant (N·m/rad)	Rotational Speed (r/min)		Misalignment (mm)	Factor	(kg)	Price
Double Disc Type Both Sides Keywayed Bore CPSWWK	07	20 22 24 25 30 35	M8x25	28	180	- 0.6	0.2	140000	6000	1.94x10 ⁻³	.10		1.9	
Double Disc Type Both Sides Clamping CPSWC	01				100					3.40x10 ⁻³	- ±1.0 1.	1.5	3.0	

The coupling with Ø35mm bore diameter conforms to servo $^{+0.01}_{0}$ motor shaft tolerance of 35mm.

Part Number			Clam	p Screw	Allowable	Angular	Static Torsional	Max.	Moment	Allowable Axial	Compensation	Mana	Unit
Туре	D	d ₁ , d ₂ Selection	Size	Tightening Torque (N · m)		Misalignment (°)	Spring Constant (N·m/rad)	Rotational Speed (r/min)	of Inertia (kg·m³)	Misalignment (mm)	Factor	(kg)	Price
Single Disc Type Both Sides Keywayed Bore CPSHWK	87	20 22 24 25 30 35	M8x25	28	180	0.6	330000	6000	1.11x10 ⁻³	±0.5	1.5	1.3	

- \P The coupling with Ø35mm bore diameter conforms to servo $^{+0.01}_{0.01}$ motor shaft tolerance of 35mm.
- 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.
- Tor the selection criteria and alignment procedures, see F. P.1061



	Part Number	-
•	CPSWC65	_









Shaft		b	1	t	Key Nominal	Set Screw		
		Tolerance	Reference Dia.	Tolerance	Dim. bxh	Size	Tightening Torque (N · m)	
20, 22	6	±0.015	2.8	+0.1 0	6x6	M5	4	
24, 25, 30	8	±0.018	3.3	+0.2	8x7	M6	7	
35	10	±0.018	3.3	0	10x8	M8	15	
	Bore Dia. d1, d2 20, 22 24, 25, 30	Bore Dia. Reference Dia. 20, 22 6 24, 25, 30 8	Bore Dia. d1, d2 20, 22 6 ±0.015 24, 25, 30 8 ±0.018	Bore Dia. d1, d2 Reference Dia. Tolerance Reference Dia. 20, 22 6 ±0.015 2.8 24, 25, 30 8 ±0.018 3.3	Bore Dia. Affence Dia. Tolerance Reference Dia. Tolerance Tolerance Reference Dia. Tolerance Tolera	Bore Dia	Bore Dia.	

• Cautions on Installations

- Do not tighten the locking screws before inserting shafts into coupling. (Tightening the lock screws with empty bores will cause bushing distortion)
- · Use a torque wrench to tighten the locking screws. · Never use screws other than included for the locking screws.

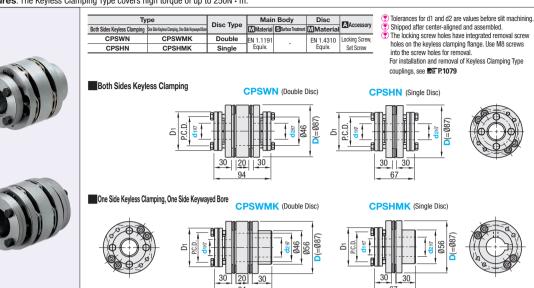
- Ensure that the machine has completely stopped before starting work.
- · Loosen the locking screws sequentially in a circumferential order.
- Insert screws into removal screws holes and tighten evenly.
- · Repeat the installation procedure for re-installation.

Disc Couplings

The stainless discs of this product have sharp edges that may cause injuries. Use of thick protective gloves is recommended.

High Rigidity (O.D. 87), Keyless Clamping For Servo Motors

Features: The Keyless Clamping Type covers high torque of up to 250N • m.



Part Number		d. d. O.I#	de Colondian				Locking	Screw	Unit	Price
Type	D	d1, d2 Selection (Keyless Clamping)		d1,d2	D1	P.C.D.	Size	Tightening Torque (N · m)	CPSWN	CPSWMK
Double Disc Type, Both Sides Keyless Clamping			20 22 24 25 30 35	25	62	50		13.7		
Double Disc Type		25 30 35 38		30	66	54	M6x30			
One Side Keyless Clamping, One Side Keywayed Bore CPSWMK	87	40 45		35	68	54	Miox3U			
				38~45	78	64				

The coupling with Ø35mm bore diameter conforms to servo $^{+0.01}_{0.01}$ motor shaft tolerance of 35mm.

RoHS10

Part Number		d ₁ , d ₂ Selection	d ₂ Selection				Locking	g Screw	Unit	Price
Туре	D	(Keyless Clamping)		d ₁ ,d ₂	D ₁	P.C.D.	Size	Tightening Torque (N · m)	CPSHN	СРЅНМК
Single Disc Type Both Sides Keyless Clamping				25	62	50		13.7		
CPSHN	87	25 30 35 38 40 45	20 22 24 25 30 35	30	66	54	M6x30			
Single Disc Type One Side Keyless Clamping, One Side Keywayed Bore				35	68	54	Wioxau			
CPSHMK				38~45	78	64				

The coupling with Ø35mm bore diameter conforms to servo +0.01 motor shaft tolerance of 35mm.

■ Characteristic Values

Double Disc Type

Part Num	ber	d1,d2	Allowable Torque	Angular Missionment	Lateral		Max. Hotational	Moment of Inertia	Allowable Axial Missignment	Compensation	Mass
Type	D	u1,u2	(N · m)	(1)	(mm)	(N • m/rad)	Speed (r/min)	(kg·m²)	(mm)	Factor	(kg)
		25	200								
CPSWN	87	30, 35, 38 40, 45	250	0.6	0.2	140000	6000	2.49x10 ⁻³	±1.0	1.5	2.3
CPSWMK		20~45	180					2.22x10 ⁻³			2.1

- Static torsional spring constant, inertia moment, and mass values are for cases of maximum shaft diameter.
- 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
 P.1061



Single Disc Type

Part Number		d1,d2	Allowable		Static Torsional Spring Constant	Max. Rotational	Moment of Inertia	Alovable Axial Misalionment	Compensation	Mass
Type	D	u1,u2	Torque (N • m)	(°)		Speed (r/min)	(kg·m²)	[mi]	Factor	(kg)
		25	200							
CPSHN	87	30, 35, 38 40, 45	250 0.6	330000	6000	1.68x10 ⁻³	±0.5	1.5	1.6	
СРЅНМК		20~45	180				1.40x10 ⁻³			1.5

Single Disc Type cannot tolerate lateral misalignment.



on	Shaft Bore Dia.		b	1	t	Key Nominal	Set Screw		
	d1, d2	Reference Dia.	Tolerance	Reference Dia.	Tolerance	Dim. bxh	Size	Tightening Torque (N · m	
	20, 22	6	±0.015	2.8	+0.1 0	6x6	M5	4	
	24, 25, 30	8	±0.018	3.3	+0.2	8x7	M6	7	
	35	10	±0.018	3.3	0	10x8	M8	15	

Installation

- ① Wipe the shaft surface clean and apply a thin layer of oil or grease.
- (Do not use oils or greases containing Molybdenum Sulfide.) ② Wipe clean the contacting inner bores of the coupling, as well as the screw and seating surfaces of the locking screws.
- 3 Insert the shaft into the coupling.
- (Please do not tighten keyless clamping flange to the bolt before inserting the shaft.)
- 4 After locating, tighten the locking screws using a torque wrench in the diagonal order, beginning lightly (approx. 1/4 of the predetermined tightening
- (5) Tighten the screws to higher torque (Approx. 1/2 of specified max.)
- (6) Tighten the screws to the specified max torque
- Finally, tighten the screws in a circumferential order.