Disc Couplings



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

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

For Servo Motors

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

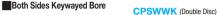




Tolerances for d1 and d2 are values

before slit machining.

• Shipped after center-aligned and assembled.



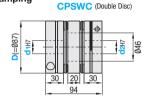




* The keyways on the right and left sides are 90° offset.

* The keyways on the right and left sides face the same direction







	RoHS 10
Part Number	

Part Number			Clamp Screw		Allowable Angular	Lateral	Static Torsional	Max.	Moment	Allowable Axial	Compensation	Mana	Unit	
Туре	D	d1, d2 Selection	Size	Tightening Torque (N·m)		Misalignment (mm)	Spring Constant (N·m/rad)	Rotational Speed (r/min)	of Inertia (kg·m³)	Misalignment (mm)	Factor	(kg)	Price	
Double Disc Type Both Sides Keywayed Bore CPSWWK	07	7 20 22 24 25 30 35	M8x25	28	180	- 0.6	0.2	140000	6000	1.94x10 ⁻³	10	1.5	1.9	
Double Disc Type Both Sides Clamping CPSWC	01				100					3.40x10 ⁻³	±1.0	1.5	3.0	

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

Part Number			Clamp Screw		Allowable		Static Torsional	Max.	Moment	Allowable Axial Misalignment	Compensation	Mace	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	

- The coupling with Ø35mm bore diameter conforms to servo +\(\frac{0}{2}^{10} \) 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	-	Shaft Bore Dia. d1	-	Shaft Bore Dia. d2
!	CPSWC65	_	20	_	30



ı	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	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	

· Cautions on Installations

distortion.)

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

Removal

- · 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.

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
- 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
- Tinally, tighten the screws in a circumferential order.