Disc Couplings

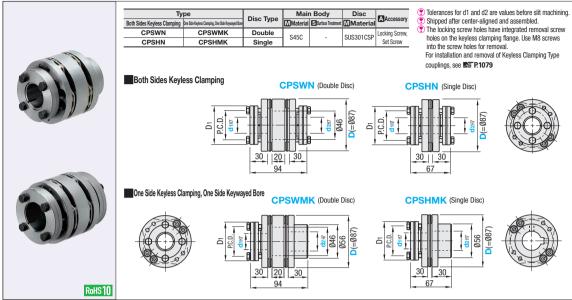
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The stainless discs of this product have sharp edges that may cause injuries. Use of thick protective gloves is recommended.

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							Locking Screw		Unit Price	
Туре	D	d1, d2 Selection (Keyless Clamping)		d1,d2	D ₁	P.C.D.	Size	Tightening Torque (N · m)	CPSWN	CPSWMK
Double Disc Type, Both Sides Keyless Clamping		. 25 30 35 38 40 45	20 22 24 25 30 35	25	62	50	- M6x30	13.7		
Double Disc Type One Side Keyless Clamping, One Side Keywayed Bore CPSWMK	87			30	66	54				
				35	68	54				
				38~45	78	64				

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

Part Number	Part Number		d ₂ Selection				Locking Screw		Unit Price	
Туре		d1, d2 Selection (Keyless Clamping)	(Keywayed Bore)	d ₁ ,d ₂	D ₁	P.C.D.	Size	Tightening Torque (N · m)	CPSHN	СРЅНМК
Single Disc Type Both Sides Keyless Clamping CPSHN Single Disc Type One Side Keyless Clamping, One Side Keyweyed Bore CPSHMK	87	25 30 35 38 40 45	20 22 24 25 30 35	25	62	50	- M6x30	13.7		
				30	66	54				
				35	68	54				
				38~45	78	64				

 ${f ?}$ The coupling with Ø35mm bore diameter conforms to servo ${}^{+0.01}_0$ motor shaft tolerance of 35mm.

Characteristic Values

Double Disc Type

Part Number		d1,d2	Allowable	Angular	Lateral	Static Torsional	Max. Rotational	Moment of Inertia	Allowable Axial	Compensation	Mass
Туре	D	u1,u2	Torque (N • m)		(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

Ordering	Part Number	-	Shaft Bore Dia. d1	-	Shaft Bore Dia. d2
Example	CPSWN65	-	35	-	20

Single Disc Type

Part Number		d1,d2	Allowable Torque		Static Torsional Spring Constant	Max. Rotational	Moment of Inertia	Alovable Axial Misalionment	Compensation	Mass
Туре	D	u1,u2	(N · m)	(°)		Speed (r/min)	III CI LIA	(nn)	Factor	(kg)
		25	200	0.6	330000 6000					
CPSHN	87	30, 35, 38 40, 45	250			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.

[1]	Keyway Dimensio
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n	Shaft Bore Dia.		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	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	