

Disc Couplings

High Rigidity (O.D. 65), Keywayed Bore / Clamping



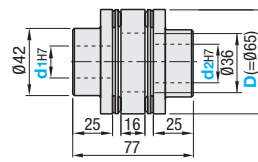
The stainless discs of this product have sharp edges that may cause injuries. Use of thick protective gloves is recommended.

For Servo Motors

Features: High torque capacity of up to 60N · m, and shaft tightening methods are freely selectable.

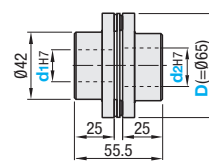


Both Sides Keywayed Bore CPSWWK (Double Disc)



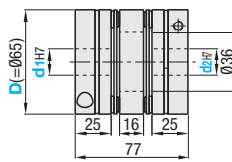
* The keyways on the right and left sides are 90° offset.

CPSHWK (Single Disc)

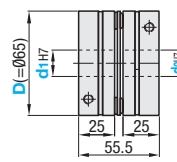


* The keyways on the right and left sides face the same direction.

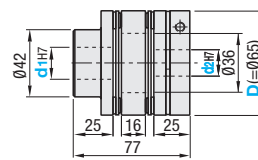
Both Sides Clamping CPSWC (Double Disc)



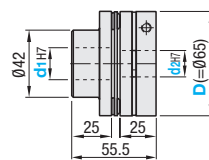
CPSHC (Single Disc)



One Side Clamping, One Side Keywayed Bore CPSWCK (Double Disc)



CPSHCK (Single Disc)



- 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.
- Shipped after center-aligned and assembled.
- For the selection criteria and alignment procedures, see P:1061.

Type			Disc Type	Main Body	Disc	Accessory
Both Sides Keywayed Bore	Both Sides Clamping	One Side Clamping, One Side Keywayed Bore	Material	Surface Treatment	Material	Accessory
CPSWWK	CPSWC	CPSWCK	Double	S45C	-	Clamp Screw
CPSHWK	CPSHC	CPSHCK	Single		SUS301CSP	Set Screw

Part Number		D	d1, d2 Selection (Keywayed bores are available up to Ø25)	Clamp Screw		Unit Price		
Type	Size			Tightening Torque (N · m)	Both Sides Keywayed Bore	Both Sides Clamping	One Side Clamping, One Side Keywayed Bore	
Double Disc Type								
Both Sides Keywayed Bore	CPSWWK	65	15 16 17 18 19 20 22 24 25 30	M6x20	15.7	CPSWWK	CPSWC	CPSWCK
Both Sides Clamping	CPSWC							
One Side Clamping, One Side Keywayed Bore	CPSWCK							

Part Number		D	d1, d2 Selection (Keywayed bores are available up to Ø25)	Clamp Screw		Unit Price		
Type	Size			Tightening Torque (N · m)	Both Sides Keywayed Bore	Both Sides Clamping	One Side Clamping, One Side Keywayed Bore	
Single Disc Type								
Both Sides Keywayed Bore	CPSHWK	65	15 16 17 18 19 20 22 24 25 30	M6x20	15.7	CPSHWK	CPSHC	CPSHCK
Both Sides Clamping	CPSHC							
One Side Clamping, One Side Keywayed Bore	CPSHCK							

Double Disc Type

Part Number	d1, d2	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 · m ²)	Allowable Axial Misalignment (mm)	Compensation Factor	Mass (g)
CPSWWK	15-25						4.87x10 ⁻⁴			884
CPSWC	65 15-30	60	0.6	0.2	58000	8000	8.29x10 ⁻⁴	±0.6	1.5	1275
CPSWCK	15-30						6.58x10 ⁻⁴			1080

Single Disc Type

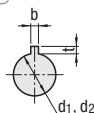
Part Number	d1, d2	Allowable Torque (N · m)	Angular Misalignment (°)	Static Torsional Spring Constant (N · m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg · m ²)	Allowable Axial Misalignment (mm)	Compensation Factor	Mass (g)
CPSHWK	15-25					2.87x10 ⁻⁴			595
CPSHC	65 15-30	60	0.6	120000	8000	6.30x10 ⁻⁴	±0.3	1.5	985
CPSHCK	15-30					4.59x10 ⁻⁴			790

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

Single Disc Type cannot tolerate lateral misalignment.

Ordering Example: Part Number - Shaft Bore Dia. d1 - Shaft Bore Dia. d2
CPSWC65 - 20 - 30

Keyway Dimension



Shaft Bore Dia. d1, d2	b		t		Key Nominal Dim. b x h	Set Screw	
	Reference Dia.	Tolerance	Reference Dia.	Tolerance		Size	Tightening Torque (N · m)
15, 16, 17	5	±0.015	2.3	+0.1	5x5	M4	1.7
18, 19, 20, 22	6	±0.015	2.8	0	6x6	M5	4
24, 25	8	±0.018	3.3	+0.2 0	8x7	M6	7