* The keyways on right and left sides face

CPSHWK (Single Disc)

the same direction.

CPSHC (Single Disc)

55.5

CPSHCK (Single Disc)

High Rigidity Disc (Outer Dia. 65) Keywayed / Clamping

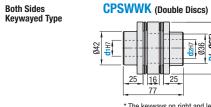
Couplings – High Rigidity Disc Both Sides Keywayed

Couplings – High Rigidity Disc Both Sides Clamping

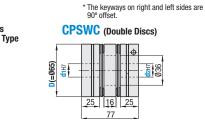
Couplings – High Rigidity Disc One Side Clamping / One Side **Kewayed Bore**

RoHS10

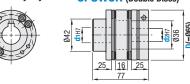
1 Tolerance values for d1, d2, are applied before slit is machined. The lateral, angular, and axial misalignment values shown are for each occuring individually. When more than one misalignments are occuring simultaneously, the allowable maximum value of each will be reduced by 1/2. ① Shipped after center-aligned and assembled. • For the selection criteria and alignment procedures, see P.1091, 1093.



Both Sides Clamping Type



One Side Clamping /
One Side Keywayed Bore CPSWCK (Double Discs)



		- ''		-				
	Ty	ре	Disc Type	Body	Body		Accessories	
Both Sides Keywayed	Both Sides Clamping	One Side Clamping / One Side Keywayed Bore		Material	Surface Treatment	Material	Material	Surface Treatment
CPSWWK	CPSWC	CPSWCK	Double	1045 Carbon Steel		301 Stainless	4137 Alloy	Black Oxide
CPSHWK	CPSHC	CPSHCK	Single or Equivalent		_	Steel	Steel	black Uxide

Part Number		d ₁ , d ₂ Selection	Clamp Screw		
Туре	D	(Keywayed bores are available up to Ø25)	Size	Tightening Torque (N·m)	
Double Disc Coupling Both Sides Keywayed CPSWWK Both Sides Clamping CPSWC One Side Clamping / One Side Keywayed Bore CPSWCK	65	15 16 17 18 19 20 22 24 25 30	M6 x 20	15.7	

Part Nun	ber		d₁, d₂ Selection	Clamp Screw		
Туре		D	(Keywayed bores are available up to Ø25)	Size	Tightening Torque (N·m)	
Single Disc Coupling Both Sides Keywayed Both Sides Clamping One Side Clamping / One Side Keywayed Bore	CPSHWK CPSHC CPSHCK	65	15 16 17 18 19 20 22 24 25 30	M6 x 20	15.7	

Double Disc Coupling

Part Number			Allow.	Angular	Lateral	Static Torsional	Max. Rot.	Moment	Allow. Axial	Factor	Mass
Туре	D	d ₁ , d ₂	(N·m)	Misalign. (°)	Misalign. (mm)	Spring Constant (N·m/rad)	Speed (r/min)	of Inertia (Kg·m²)	Misalign. (mm)		(g)
CPSWWK		15–25	1	0.6	0.2	58000	8000	4.87 x 10 ⁻⁴	±0.6	1.5	884
CPSWC	65	15–30						8.29 x 10 ⁻⁴			1275
CPSWCK		15–30						6.58 x 10 ⁻⁴			1080

O Static torsional spring constant, inertia moment, and mass values are for cases



Part Number

Shaft Bore Dia. d₁ - Shaft Bore Dia. d₂

Single Disc Coupling

Part Number		Allow.		Angular Misalign.	Static Torsional Spring	Max Rotational	Rotational Moment		Comp.	Mass
Туре	D	d ₁ , d ₂	(N·m)	(°)	Constant (N·m/rad)	Speed (r/min)	(Kg·m²)	Misalign. (mm)	Factor	(g)
CPSHWK	65	15-25	-	0.6	120000	8000	2.87 x 10 ⁻⁴	±0.3	1.5	595
CPSHC		15-30					6.30 x 10 ⁻⁴			985
CPSHCK		15-30					4.59 x 10 ⁻⁴			790

Single Disc Type cannot tolerate lateral misalignment.

Keyway Dimension

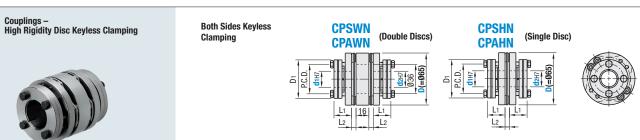
<u> </u>	
d_1, d_2	
	ŀ

	Shaft Bore	b		1	t	Key	Set Screw		
	Dia. d ₁ , d ₂	Dim.	Tol.	Dim.	Tol.	Nom. Dim. b x h	Size	Tightening Torque (N·m)	
2	15, 16, 17	5	±0.015	2.3	+0.1	5 x 5	M4	1.7	
	18, 19, 20, 22	6	±0.015	2.8	0	6 x 6	M5	4	
	24, 25	8	±0.018	3.3	+0.2 0	8 x 7	M6	7	

Couplings

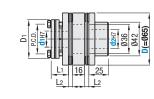
RoHS10

High Rigidity Disc (Outer Dia. 65) Keyless Clamping



One Side Keyless Clamping / One Side Keywayed Bore





CPSWMK (Double Discs)





1 The coupling with Ø35mm bore diameter conforms to servo motor shaft tolerance of Ø35 +0.01 / 0.

1 Tolerance values for d1, d2, are applied before slit is machined. The lateral, angular, and axial misalignment values shown are for each occuring individually. When more than one misalignments are occuring simultaneously, the allowable maximum value of each will be reduced by 1/2.

O Shipped after center-aligned and assembled.

or the selection criteria and anguintent procedures, see F.1091, 1093.
 Keyless Clamping flange has two screw holes for removal. Couplings
with Ø20 or larger bores, the locking screw holes have integrated removal
screw holes. Use M6 screws into the screw holes for removal. For installation
and removal of Keyless Clamping Type couplings, see P.1089.
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	Туре		Boo	dy	Disc	Accessories		
Both Sides Keyless Clamping	One Side Keyless Clamping / One Side Keywayed Bore	Disc Type	Material	Surface Treatment	Material	Material	Surface Treatment	
CPSWN	CPSWMK	Double	1045 Carbon		301 Stainless	4137	DI 10:1	
CPSHN	CPSHMK	Single	Steel or Equivalent	_				
CPAWN	_	Double	Aluminum	Aluminum Clear		Alloy Steel	Black Oxide	
CPAHN	_	Single	Alloy	Anodize				

Part Number		d1, d2						Locking Screws	(Keyless Clamping)
Туре	D	(Keywayed Bores Available Up to Ø25)	d ₁ , d ₂	L ₁	L_2	D ₁	P.C.D.	Size	Tightening Torque (N·m)
Double Disc Coupling			15			41	29		
Both Sides Keyless Clamping CPSWN (1045 Carbon Steel or Equivalent)		15 16 *17 18 *19	16	26.5	5.5 (1045 Carbon Steel		30	M5 x 25	
		20 22 24 25 30 35	17 18, 19				32		
	CE	20 22 24 23 30 33			or Equivalent)	44	35		_
CPAWN (Aluminum)	65	* marked sizes	20, 22	22	5.0 (Aluminum)	48	37	M5 x 22	6
One Side Keyless Clamping / One Side		are unavailable for	24, 25			53	42		
Keywayed Bore		CPAWN couplings	30			58	45		
CPSWMK			35			63	51		
		d ₁ , d ₂						Locking Screws	(Keyless Clamping)
Туре	D	(Keywayed Bores Available Up to Ø25)	d ₁ , d ₂	L ₁	L ₂	D ₁	P.C.D.	Size	Tightening Torque (N·m)
Single Disc Counting			15				29		

i ai t italliboi		u ₁ , u ₂					Lucking our cwa (Reyless Glamping)		
Туре	D	(Keywayed Bores Available Up to Ø25)	d ₁ , d ₂	L ₁	L ₂	D ₁	P.C.D.	Size	Tightening Torque (N·m)
Single Disc Coupling Both Sides Keyless Clamping			15			29			
		15 16 *17 18 *19	16	26.5	5.5	41	30	M5 x 25	- 6
		20 22 24 25 30 35	5 17 20.0 18,19 20,22 24.25	20.0	(1045 Carbon Steel		32	IVIO X ZO	
CPSHN (1045 Carbon Steel or Equivalent)	65	20 22 24 23 30 33			or Equivalent)	44	35		
CPAHN (Aluminum)		* marked sizes			5.0	48	37	M5 x 22	
One Side Keyless Clamping / One Side		are unavailable for CPAHN				53	42		
Keywayed Bore		couplings	30		(Aluminum)	58	45		
СРЅНМК			35			63	51		

I	Double Disc C	Coupling			
Ī	Part Number		Allow	Allow.	Alle

	Part Number			Allow.		Allow. Lateral	Static Torsional	Max. Rotational	Inertia	Allow. Axial	Mass
	Туре	D	d ₁ , d ₂	Torque (N·m)	Misalign. (°)	Misalign. (mm)	Spring Constant (N·m/rad)	Speed (r/min)	Moment (Kg·m²)	Misalign. (mm)	(g)
	CPSWN		15-19	60	0.6	0.2	58000	8000	6.53 x 10 ⁻⁴	±0.6	984
	PSWN		20-35	80							
C	CPAWN		15 16 18	20			47000		2.33 x 10 ⁻⁴		351
	CFAVIN		20-35	40					2.33 X 10 ·		331
	CPSWMK		15-35	60			58000		5.70 x 10 ⁻⁴		934

O Static torsional spring constant, inertia moment, and mass values are for cases



Part	Number	
Exar	nple	



Shaft Bore Dia. d₁ - Shaft Bore Dia. d₂

Single Disc Coupling

Part Number			Allow.	Allow. Angular	Static Torsional	Max. Rotational	Inertia Moment	Allow. Axial Misalign.	Mass
Туре	D	d ₁ , d ₂	Torque (N·m)	Misalign. (°)	Spring Constant (N·m/rad)	Speed (r/min)	(Kg-m²)	(mm)	(g)
CPSHN	65	15-19	60		120000	8000	4.53 x 10-4		695
CPSHN		20-35	80	0.6	120000		4.00 X 10 *	±0.3	090
CPAHN		15 16 18	20		98000		1.61 x 10 ⁻⁴		248
Grafin		20-35	40				1.01 X 10 °		240
CPSHMK		15-35	60		120000		3.70 x 10 ⁻⁴		645

① Single disc type cannot tolerate lateral misalignment.

Keyway Dimension



	Shaft		b		t	Key	Set Screw		
	Bore Dia. d ₁ , d ₂	Dim.	Tolerance	Dim.	Tolerance	Nominal Dim. bxh		Tightening Torque (N·m)	
12	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	