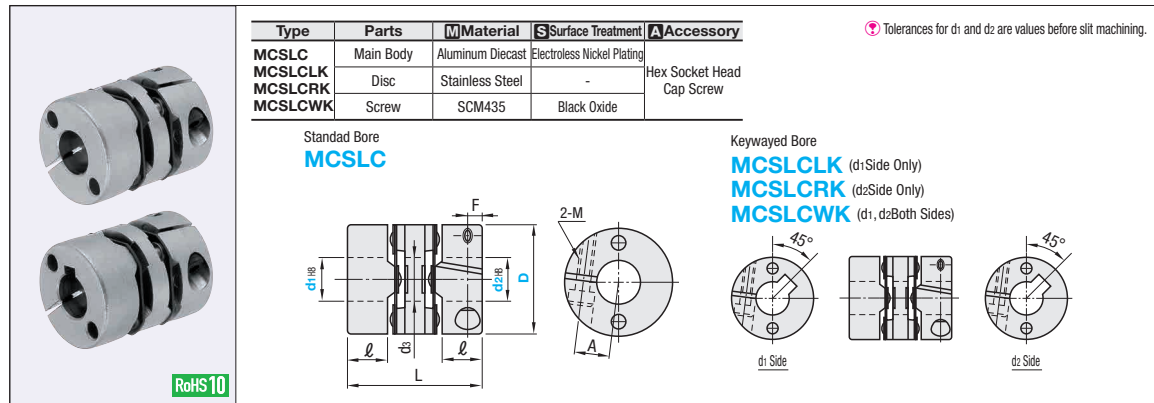


Disc Couplings

For Servo Motors

Ultra High Torque Clamping (Double Disc)

Points of comparison between similar products | Max. Rotational Speed: 3,500~6,000rpm



Part Number		d1, d2 Selection (d1≤d2)										d3	L	ℓ	A	F	Clamp Screw		Unit Price						
Type	D	🔑Keywayed Bore Type is selectable for diameter 6 or larger															M	Tightening Torque (N·m)	MCSLC	MCSLCLK MCSLCRK	MCSLCWK				
Clamping MCSLC MCSLCLK MCSLCRK MCSLCWK	16	*4	5	6								6.8	23.2	7	5	3	M2.5	1							
	20	*4	5	6	6.35	7	8					8.1	26	7.5	6.5	3.7									
	25	*5	6	6.35	7	8	9.53	10				10.4	30.2	9	8.5	4	M3	1.7							
	32				8	9.53	10	11	12	14			15	41	12.4	10	6	M4	2.5						
	40				8	9.53	10	11	12	14	15	16	18			19.5	47	15.5	13.1	7.8	M5	7			
	50										14	15	16	18	20	22	24	25	53	18	16.7	9	M6	12	

When d1, d2 is *, use with load torque 50% or less than shown in the table to prevent slipping.

Characteristic Values

Part Number	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)
Type	D								
MCSLC MCSLCLK MCSLCRK MCSLCWK	16	0.9	2	450	6000	2.7x10 ⁻⁷	±0.2	5~10	10
	20	1.3		700	5500	8.0x10 ⁻⁷			16
	25	2.8		950	5000	2.5x10 ⁻⁶			30
	32	5		1100	4000	6.6x10 ⁻⁶			62
	40	9	0.2	2800	3800	1.9x10 ⁻⁵	±0.5		110
	50	16		3400	3500	5.0x10 ⁻⁵	±0.6		220

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.

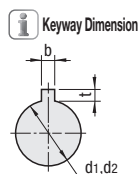
For the selection criteria and alignment procedures, see P.1061-1062.

Ordering Example	Part Number	-	Shaft Bore Dia. d1	-	Shaft Bore Dia. d2
	MCSLC40	-	10	-	15
	MCSLCWK40	-	10	-	12

Alterations	Part Number	-	Shaft Bore Dia. d1 (LDC)	-	Shaft Bore Dia. d2 (RDC)
	MCSLC40	-	LDC9.5	-	RDC10.5
	MCSLCWK40	-	8	-	10

Express service is not available.

Alterations	Shaft Bore Dia.	Keyway Width
Spec.		Keyway Width (b) is changed as the table below. Ordering Code: KLH4 KRH4 Shaft Bore Dia. d1, d2: 16 4-6, 20 4-8, 25 5-10, 32 6-14, 40 8-18, 50 14-24. LDC7.8, RDC9.3. Cannot be combined with shaft bore change (LDC, RDC) alterations. Applicable to Keywayed Bore only.
Code	LDC (Left Shaft) RDC (Right Shaft)	KLH (Left Shaft) KRH (Right Shaft)



Shaft Bore Dia. d1, d2	b		t		Key Nominal Dim. b x h
	Reference Dia.	Tolerance	Reference Dia.	Tolerance	
6~7.9	2	±0.0125	1.0	+0.1 0	2x2
8~10	3	±0.0150	1.4		3x3
10.1~12	4		1.8		4x4
12.1~17	5		2.3		5x5
17.1~22	6	±0.0180	2.8	+0.2 0	6x6
22.1~24	8		3.3		8x7

Note that, for some of the types shown here, order might be unable to be received by the MISUMI Indonesia offices.

Disc Couplings

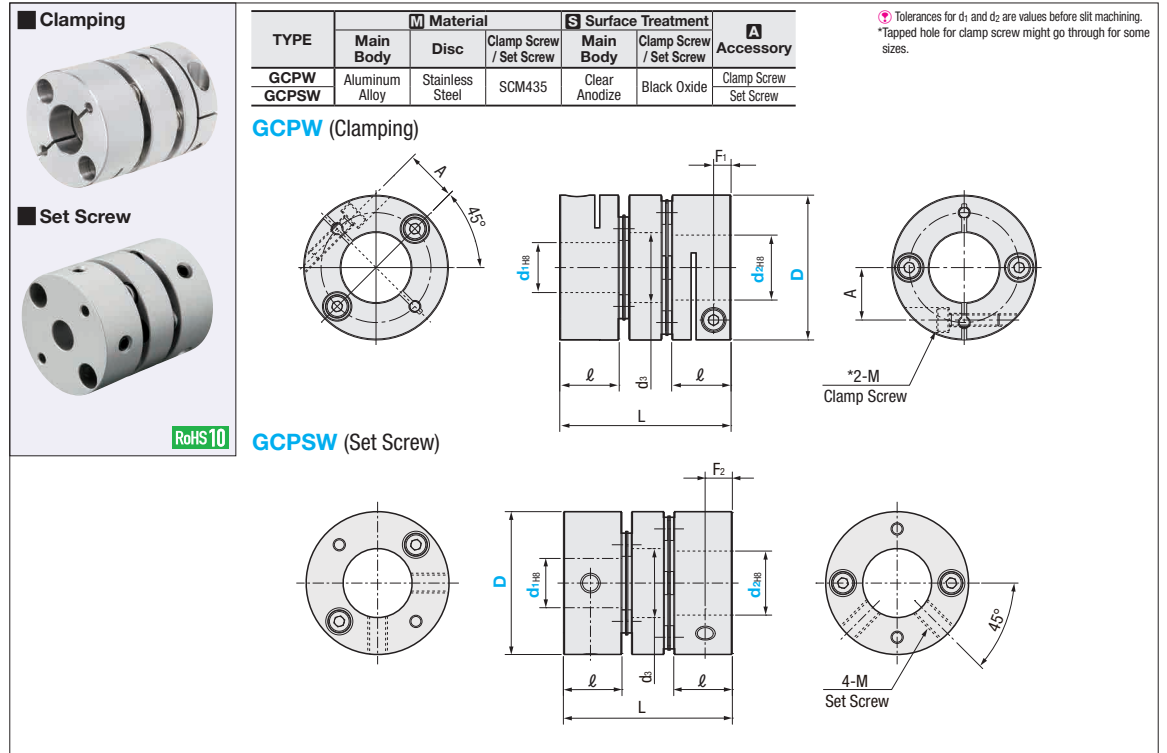
For Servo Motors

Ultra High Torque Clamping/Set Screw (Double Disc)

Points of comparison between similar products | Max. Rotational Speed: 10,000rpm

Similar products page P.1063

Features: General purpose model with excellent flexibility and high rigidity. Lowest price model in MISUMI's disc coupling range for Servo Motors.



Part Number		d1, d2 Selection (d1≤d2)										Clamp Screw		Set Screw		Unit Price	
Type	D											M	Tightening Torque (N·m)	M	Tightening Torque (N·m)	GCPW	GCPSW
Clamping GCPW Set Screw GCPSW	20	4	5	6	6.35	8						8.5	28.8	11	3.5	5.5	6.4
	26		5	6	6.35	8	10	11				11.5	34.1	11.9	3.5	5.5	9
	29		5	6	6.35	8	10	11	12	14		14.5	34.3	11.9	3.5	5.5	10.5
	33			6	8	10	11	12	14	15	16	16.5	40	13	4	6.5	12
	39				8	10	11	12	14	15	16	19	49.4	16	4.75	8	14

Characteristic Values

Part Number		Allowable Torque (N·m)	Allowable angle (°)	Allowable Lateral Misalignment (mm)	Static Torsional Rigidity (N·m/rad)	Max. Velocity (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Compensation Factor	Mass (g)		
Type	D									GCPW	GCPSW	
GCPW GCPSW	20	1	2	0.1	550	10000	1.1x10 ⁻⁵	±0.20	2	19	19	
	26	2		0.15	700		3.3x10 ⁻⁶	±0.20		31	33	
	29	3		0.15	1200		5.5x10 ⁻⁶	±0.30		43	44	
	33	5		0.2	1500		1.1x10 ⁻⁵	±0.40		60	65	
	39	8		0.25	3350		2.7x10 ⁻⁵	±0.50		113	118	

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

For the selection criteria and alignment procedures, see P.1061, 1062.

Shaft Slip Torque (N·m) When slip torque is less than the allowable torque, use within slip torque.

Part Number		d1, d2											
Type	D	4	5	6	6.35	8	10	11	12	14	15	16	18
GCPW GCPSW	20	1.0	1.0	1.0	1.0	1.0	-	-	-	-	-	-	-
	26	-	1.0	1.5	2.0	2.0	2.0	2.0	-	-	-	-	-
	29	-	1.0	1.5	2.0	2.5	2.5	3.0	3.0	3.0	-	-	-
	33	-	-	2.5	-	2.5	3.5	3.5	4.0	5.0	5.0	5.0	-
	39	-	-	-	-	5.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0

Ordering Example	Part Number	-	Shaft Bore Dia. d1	-	Shaft Bore Dia. d2
	GCPW29	-	10	-	14