

Compared to similar products, 30% Off Max.

Compared to similar products, 30% Off Max.

■ Features: General purpose model with excellent flexibility and high rigidity. Most economical in MISUMI's disc couplings for Servo Motors.

Double Disc Type

Double Disc Type GCPSSW (Standard Bore)

Single Disc Type GCPSS (Standard Bore)

Keywayed Bore d1, d2 are values before slit machining.
Recommended Tolerance of Shaft Diameter: h7

GCPSWLK (Keywayed Bore d1)
GCPSWRK (Keywayed Bore d2)
GCPSWWK (Keywayed Bore d1, d2)

GCPSLTK (Keywayed Bore d1)
GCPSSRK (Keywayed Bore d2)
GCPSSWK (Keywayed Bore d1, d2)

Material
Main Body: Aluminum Alloy
Disc: Stainless Steel
Set Screw: SCM435

Surface Treatment
Main Body: Clear Anodize
Set Screw: Black Oxide

Disc Type	Standard Bore	Keywayed Bore			Main Body	Disc	Set Screw	Surface Treatment	
		d1 (One Side)	d2 (One Side)	d1, d2 (Both Sides)				Main Body	Set Screw
Double	GCPSSW	GCPSWLK	GCPSSWRK	GCPSWWK	Aluminum Alloy	Stainless Steel	SCM435	Clear Anodize	Black Oxide
Single	GCPSS	GCPSSLK	GCPSSSRK	GCPSSWK	Aluminum Alloy	Stainless Steel	SCM435	Clear Anodize	Black Oxide

Part Number	Type	D	d1, d2 Selection (d1≦d2)								d3	L			F	A	Set Screw		
			4	5	6	6.35	8	10	11	12		14	15	16			18	Double	Single
Double Disc GCPSS GCPSWLK GCPSSWRK GCPSSWK	Single Disc GCPSSW GCPSSLK GCPSSRK GCPSSWK	20	4	5	6	6.35	8				8.5	28.8	23.05	11	5.5	6.4	M3	0.7	
		26	5	6	6.35	8	10	11			11.5	34.1	25.45	11.9	5.5	9			
		29	5	6	6.35	8	10	11	12	14	14.5	34.3	25.7	11.9	5.5	10.5			
		33	6		8	10	11	12	14	15	16	16.5	40	28.5	13	6.5			12
		39			8	10	11	12	14	15	16	18	19	49.4	35	16			8

■ Characteristic Values

Part Number	Type	D	Allowable Torque (N·m)	Allowable Angle (°)	Allowable Lateral Misalignment (mm)	Static Torsional Rigidity (N·m/rad)	Max. Velocity (r/min)	Moment of Inertia (kg·m ²)	Allowable Axial Misalignment (mm)	Compressive Factor	Mass (g)	
Double Disc GCPSS GCPSWLK GCPSSWRK GCPSSWK	Single Disc GCPSSW GCPSSLK GCPSSRK GCPSSWK	20	1		0.1	550	1.1x10 ⁻⁶	±0.20			19	
		26	2		0.15	700	3.3x10 ⁻⁶	±0.20			31	
		29	3	2	0.15	1200	10000	5.5x10 ⁻⁶	±0.30	2	43	
		33	5		0.2	1500		1.1x10 ⁻⁵	±0.40			60
		39	8		0.25	3350		2.7x10 ⁻⁵	±0.50			113

Part Number	Type	D	Allowable Torque (N·m)	Allowable Angle (°)	Static Torsional Rigidity (N·m/rad)	Max. Velocity (r/min)	Moment of Inertia (kg·m ²)	Allowable Axial Misalignment (mm)	Compressive Factor	Mass (g)	
Single Disc GCPSS GCPSSLK GCPSSRK GCPSSWK	Single Disc GCPSSW GCPSSLK GCPSSRK GCPSSWK	20	1		700		8.8x10 ⁻⁷	±0.10		16	
		26	2		1000		2.5x10 ⁻⁶	±0.10		24	
		29	3	2	1350	10000		4.1x10 ⁻⁶	±0.15	2	31
		33	5		2000			7.7x10 ⁻⁶	±0.20		44
		39	8		4250			1.9x10 ⁻⁵	±0.25		82

⊕ 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.1093, 1138.

⊕ Single Disc Type cannot tolerate lateral misalignment.

■ Shaft Slip Torque (N·m)

Part Number	Type	D	4	5	6	6.35	8	10	11	12	14	15	16	18	
Double Disc GCPSSW GCPSSLK GCPSSRK GCPSSWK	Single Disc GCPSS	20	1	1	1	1	1	-	-	-	-	-	-	-	
		26	-	1	1.5	2	2	2	2	-	-	-	-	-	-
		29	-	1	1.5	2	2.5	2.5	3	3	3	-	-	-	-
		33	-	-	2.5	-	2.5	3.5	3.5	4	5	5	5	-	-
		39	-	-	-	-	5.5	8	8	8	8	8	8	8	8

Ⓜ Keyway Dimension

Shaft Bore Dia. d1, d2	Reference Dia.	b		t		Key Nominal Dim. b×h
		Reference Dia.	Tolerance	Reference Dia.	Tolerance	
6,6.35	2		±0.0125	1.0		2x2
8,10	3		±0.0125	1.4	+0.1	3x3
11,12	4		±0.0150	1.8	0	4x4
14	5		±0.0150	2.3		5x5

D	GCPSSW	GCPSWLK GCPSSWRK	GCPSSWK	GCPSS	GCPSSLK GCPSSSRK	GCPSSWK
20						
26						
29						
33						
39						



Ordering Example
Part Number: GCPSS20 - Shaft Bore Dia. d1: 6 - Shaft Bore Dia. d2: 8

■ Features: General purpose model with excellent flexibility and high rigidity. Most economical in MISUMI's disc couplings for Servo Motors.

Double Disc Type

Double Disc Type GCPW (Standard Bore)

Single Disc Type GCPSS (Standard Bore)

Keywayed Bore d1, d2 are values before slit machining.
Some size tapped hole for hex socket head cap screw might go through.
Recommended Tolerance of Shaft Diameter: h7

GCPWLK (Keywayed Bore d1)
GCPWRK (Keywayed Bore d2)
GCPWWK (Keywayed Bore d1, d2)

GCPSLK (Keywayed Bore d1)
GCPSSRK (Keywayed Bore d2)
GCPSSWK (Keywayed Bore d1, d2)

Material
Main Body: Aluminum Alloy
Disc: Stainless Steel
Hex Socket Head Cap Screw: SCM435

Surface Treatment
Main Body: Clear Anodize
Hex Socket Head Cap Screw: Black Oxide

Disc Type	Standard Bore	Keywayed Bore			Main Body	Disc	Hex Socket Head Cap Screw	Surface Treatment	
		d1 (One Side)	d2 (One Side)	d1, d2 (Both Sides)				Main Body	Hex Socket Head Cap Screw
Double	GCPW	GCPWLK	GCPWRK	GCPWWK	Aluminum Alloy	Stainless Steel	SCM435	Clear Anodize	Black Oxide
Single	GCPSS	GCPSLK	GCPSSRK	GCPSSWK	Aluminum Alloy	Stainless Steel	SCM435	Clear Anodize	Black Oxide

Part Number	Type	D	d1, d2 Selection (d1≦d2)								d3	L			F	A	Hex Socket Head Cap Screw				
			4	5	6	6.35	8	10	11	12		14	15	16			18	Double	Single	M	Tightening Torque (N·m)
Double Disc GCPW GCPWLK GCPWRK GCPWWK	Single Disc GCPSS GCPSSLK GCPSSRK GCPSSWK	20	4	5	6	6.35	8				8.5	28.8	23.05	11	3.5	6.4	M2.5	1			
		26	5	6	6.35	8	10	11			11.5	34.1	25.45	11.9	3.5	9					
		29	5	6	6.35	8	10	11	12	14	14.5	34.3	25.7	11.9	3.5	10.5					
		33	6		8	10	11	12	14	15	16	16.5	40	28.5	13	4			12	M3	1.5
		39			8	10	11	12	14	15	16	18	19	49.4	35	16			4.75	14	M4

■ Characteristic Values

Part Number	Type	D	Allowable Torque (N·m)	Allowable Angle (°)	Allowable Lateral Misalignment (mm)	Static Torsional Rigidity (N·m/rad)	Max. Velocity (r/min)	Moment of Inertia (kg·m ²)	Allowable Axial Misalignment (mm)	Compressive Factor	Mass (g)	
Double Disc GCPW GCPWLK GCPWRK GCPWWK	Single Disc GCPSS GCPSSLK GCPSSRK GCPSSWK	20	1		0.1	550	1.1x10 ⁻⁶	±0.20			19	
		26	2		0.15	700	3.3x10 ⁻⁶	±0.20			31	
		29	3	2	0.15	1200	10000	5.5x10 ⁻⁶	±0.30	2	43	
		33	5		0.2	1500		1.1x10 ⁻⁵	±0.40			60
		39	8		0.25	3350		2.7x10 ⁻⁵	±0.50			113

Part Number	Type	D	Allowable Torque (N·m)	Allowable Angle (°)	Static Torsional Rigidity (N·m/rad)	Max. Velocity (r/min)	Moment of Inertia (kg·m ²)	Allowable Axial Misalignment (mm)	Compressive Factor	Mass (g)	
Single Disc GCPSS GCPSSLK GCPSSRK GCPSSWK	Single Disc GCPSSW GCPSSLK GCPSSRK GCPSSWK	20	1		700		8.8x10 ⁻⁷	±0.10		16	
		26	2		1000		2.5x10 ⁻⁶	±0.10		24	
		29	3	2	1350	10000		4.1x10 ⁻⁶	±0.15	2	31
		33	5		2000			7.7x10 ⁻⁶	±0.20		44
		39	8		4250			1.9x10 ⁻⁵	±0.25		82

⊕ 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.1093, 1138.

⊕ Single Disc Type cannot tolerate lateral misalignment.

■ Shaft Slip Torque (N·m)

Part Number	Type	D	4	5	6	6.35	8	10	11	12	14	15	16	18	
Double Disc GCPW GCPWLK GCPWRK GCPWWK	Single Disc GCPSS	20	1	1	1	1	1	-	-	-	-	-	-	-	
		26	-	1	1.5	2	2	2	2	-	-	-	-	-	-
		29	-	1	1.5	2	2.5	2.5	3	3	3	-	-	-	-
		33	-	-	2.5	-	2.5	3.5	3.5	4	5	5	5	-	-
		39	-	-	-	-	5.5	8	8	8	8	8	8	8	8

Ⓜ Keyway Dimension

Shaft Bore Dia. d1, d2	Reference Dia.	b		t		Key Nominal Dim. b×h
		Reference Dia.	Tolerance	Reference Dia.	Tolerance	
6,6.35	2		±0.0125	1.0		2x2
8,10	3		±0.0125	1.4	+0.1	3x3
11,12	4		±0.0150	1.8	0	4x4
14	5		±0.0150	2.3		5x5

D	GCPW	GCPWLK GCPWRK	GCPWWK	GCPSS	GCPSSLK GCPSSRK	GCPSSWK
20						
26						
29						
33						
39						



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