

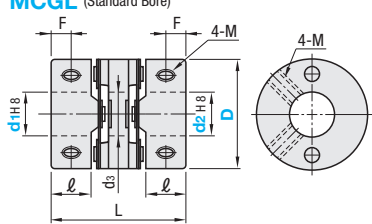
Disc Couplings

Standard Torque, Set Screw

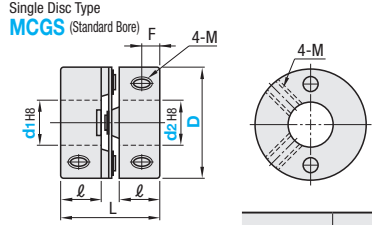
■Features: Couplings with polyimide discs highly tolerant on lateral and angular misalignments.



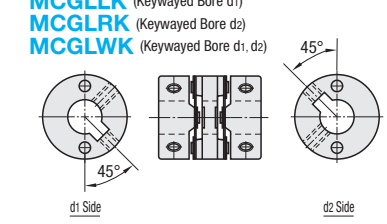
Double Disc Type
MCGL (Standard Bore)



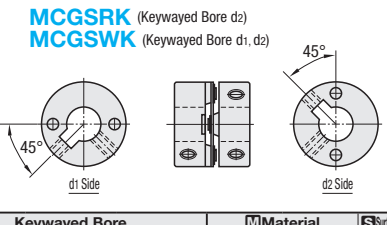
Single Disc Type
MCGS (Standard Bore)



MCGLLK (Keywayed Bore d1)
MCGLRK (Keywayed Bore d2)
MCGLWK (Keywayed Bore d1, d2)



MCGSRK (Keywayed Bore d2)
MCGSWK (Keywayed Bore d1, d2)



Standard Bore		Keywayed Bore				Material		Surface Treatment		Accessory	
		d1 (One Side)	d2 (One Side)	d1, d2 (Both Sides)		Main Body	Disc	Main Body	Disc		
MCGL	MCGLLK	MCGLRK	MCGLWK			Aluminum Diecast	Polyimide	Electroless Nickel Plating		Set Screw	

Part Number		d1, d2 Selection (d1≤d2)										d3	L	ℓ	F	Set Screw		Unit Price		
Type	D	🔑Keywayed Bore Type is selectable for diameter 6 or larger (D=13 is not available)														M	Tightening Torque (N · m)	MCGL	MCGLLK MCGLRK	MCGLWK
Double Disc Type MCGL MCGLLK MCGLRK MCGLWK	10	2	3	4								4.1	15	4.2	2	M2	0.3		-	-
	13	3	4	5	6							5.5	19	5.5	2.5				-	-
	16	4	5	6	6.35	7	8					6.8	23.2	7	3	M3	0.7			
	20	4	5	6	6.35	7	8	10				8.1	26	7.5	3.7					
	25		5	6	6.35	7	8	9.53	10	11	12	10.4	30.2	9	4					
	32			6	6.35	7	8	9.53	10	11	12	14	15	16	M4	1.7				
	40				8	9.53	10	11	12	14	15	16	18	20	M5	4				
	50														19.5	47	15.5	7.8	M6	7
															25	53	18	9		

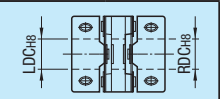
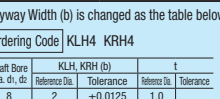
Part Number		d1, d2 Selection (d1≤d2)														L	ℓ	F	Set Screw		Unit Price		
Type	D	🔑Keywayed Bore Type is selectable for diameter 6 or larger (D=13 is not available)																	M	Tightening Torque (N · m)	MCGS	MCGSRK	MCGSWK
Single Disc Type MCGS MCGSRK MCGSWK	10	2	3	4											10.5	4.2	2	M2	0.3		-	-	
	13	3	4	5	6										13.5	5.5	3				-	-	
	16	4	5	6	6.35	7	8								16.5	7	3						
	20	4	5	6	6.35	7	8	10							18.4	7.5	4	M3	0.7				
	25	5	6	6.35	7	8	9.53	10	11	12					21.6	9	4						
	32	6	6.35	7	8	9.53	10	11	12	14	15	16				29	12.4	6	M4	1.7			
	40	8	9.53	10	11	12	14	15	16	18	20			35	15.5	7.8	M5	4					
	50	14	15	16	18	20	22	24	25					41	18	9	M6	7					

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·m²)	Allowable Misalignment (mm)	Mass (g)
Double Disc Type	MCGL	10	0.15	0.3	21	26000	4.6x10 ⁻⁸	±0.2	3
	MCGLLK	13	0.25		44	20000	8.0x10 ⁻⁸	±0.3	5
	MCGLRK	16	0.4		70	19000	2.4x10 ⁻⁷	±0.4	9
	MCGLWK	20	0.6		130	18000	7.2x10 ⁻⁷	±0.4	14
	MCGLRK	25	1.4	0.4	240	16000	2.2x10 ⁻⁶	±0.5	27
	MCGLWK	32	2.6		560	12000	6.0x10 ⁻⁶	±0.6	60
	MCGLWK	40	4.4		980	8000	1.7x10 ⁻⁵	±0.6	104
50		7.0			1100	6000	4.6x10 ⁻⁵		210

Ordering Example	Part Number	Shaft Bore Dia. d1	Shaft Bore Dia. d2
	MCGL20	5	10
	MCGLRK25	8	12

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·m²)	Allowable Misalignment (mm)	Mass (g)
Single Disc Type	MCGL	10	0.15	0.1	27	26000	4.0x10 ⁻⁸	±0.1	2
	MCGLLK	13	0.25		60	20000	7.0x10 ⁻⁸	±0.1	4
	MCGLRK	16	0.4		90	19000	2.0x10 ⁻⁷	±0.2	7
	MCGLWK	20	0.6		170	18000	6.0x10 ⁻⁷	±0.2	11
	MCGLRK	25	1.4	0.15	300	16000	1.8x10 ⁻⁶	±0.2	22
	MCGLWK	32	2.6		700	12000	5.2x10 ⁻⁶	±0.3	50
	MCGLWK	40	4.4		1200	8000	1.3x10 ⁻⁵	±0.3	85
50		7.0			1450	6000	3.6x10 ⁻⁵		170

Alterations	Part Number	Shaft Bore Dia. d1 (LDC)	Shaft Bore Dia. d2 (RDC)	Keyway Width (KLH, KRH)
	MCGL20	LDC6.5	RDC9	(KLH, KRH)
	MCGLWK32	8	10	KRH4

Spec.	Shaft Bore Dia.		Keyway Width	
				
	0.1mm Increment		Keyway Width (b) is changed as the table below.	
	Ordering Code		Ordering Code KLH4 KRH4	
LDC7.8		D	LDC, RDC	
RDC9.3		10	2-4	
		13	2-6	
		16	4-8	
		20	4-10	
		25	5-12	
		32	6-16	
		40	8-20	
		50	14-25	
			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)	

Keyway Dimension		Shaft Bore		b		t		Key Nominal		
Dia. d ₁ , d ₂		Reference Dia.		Tolerance		Reference Dia.		Dim. b, h		
	6~7.9	2	±0.0125	1.0		+0.1 0		2x2		
	8~10	3		1.4				3x3		
	10.1~12	4		1.8				4x4		
	12.1~17	5	±0.0150	2.3				5x5		
	17.1~22	6		2.8				6x6		
	22.1~25	8	±0.0180	3.3		+0.2 0		8x7		

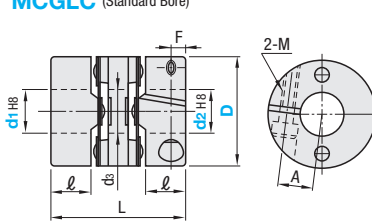
Disc Couplings

Standard Torque, Clamping

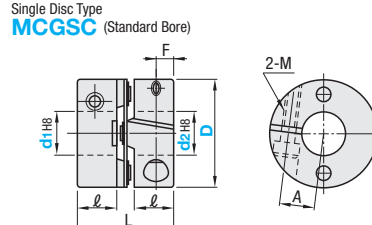
■Features: Couplings with polyimide discs highly tolerant on lateral and angular misalignments.



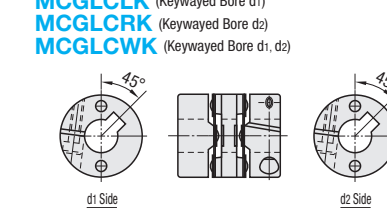
Double Disc Type
MCGLC (Standard Bore)



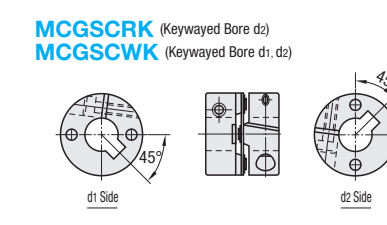
Single Disc Type
MCGSC (Standard Bore)



MCGLCLK (Keywayed Bore d1)
MCGLCRK (Keywayed Bore d2)
MCGLCWK (Keywayed Bore d1, d2)



MCGSCRK (Keywayed Bore d2)
MCGSCWK (Keywayed Bore d1, d2)



Standard Bore		Keywayed Bore				Material		Surface Treatment		Accessory	
		d1 (One Side)	d2 (One Side)	d1, d2 (Both Sides)		Main Body	Disc	Main Body	Disc		
MCGLC	MCGLCLK	MCGLCRK	MCGLCWK			Aluminum Diecast	Polyimide	Electroless Nickel Plating		Hex Socket Head Cap Screw	

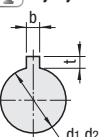
Part Number		d1, d2 Selection (d1≤d2)										d3	L	ℓ	A	F	Clamp Screw		Unit Price			
Type	D	🔑Keywayed Bore Type is selectable for diameter 6 or larger															M	Tightening Torque (N·m)	MCGLC	MCGLCLK	MCGLCRK	MCGLCWK
Double Disc Type MCGLC MCGLCLK MCGLCRK MCGLCWK	13	*3	4	5								5.5	19	5.5	4.1	2.5	M2	0.42				
	16		*4	5	6							6.8	23.2	7	5	3						
	20		*4	5	6	6.35	7	8				8.1	26	7.5	6.5	3.7	M2.5	1				
	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		M5	7				
	50											14	15	16	18	20	22	24				
												25	53	18	16.7	9	M6	12				

Part Number		d1, d2 Selection (d1≤d2)										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)	MCGSC	MCGSCRK	MCGSCWK						
Single Disc Type MCGSC MCGSCRK MCGSCWK	13	*3	4	5								13.5	5.5	4.1	2.5	M2	0.42		-	-						
	16	*4	5	6								16.5	7	5	3											
	20	*4	5	6	6.35	7	8					18.4	7.5	6.5	3.7	M2.5	1									
	25	*5	6	6.35	7	8	9.53	10				21.6	9	8.5	4	M3	1.7									
	32				8	9.53	10	11	12	14		29	12.4	10	6	M4	2.5									
	40				8	9.53	10	11	12	14	15	16	18				M5	7								
	50										14	15	16	18	20	22	24	41	18	16.7	9	M6	12			

⚠ When d1 is *3, *4, *5, use with the load torque 50% or less than that shown in the table to prevent slipping.

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·m²)	Allowable Misalignment (mm)	Mass (g)
Double Disc Type	MCGLC	13	0.25	0.3	44	12000	8.0x10 ⁻⁸	±0.2	5
	MCGLCLK	16	0.4		70	9000	2.4x10 ⁻⁷	±0.3	9
	MCGLCRK	20	0.6		130	7600	7.2x10 ⁻⁷	±0.4	14
	MCGLCWK	25	1.4		240	6000	2.2x10 ⁻⁶	±0.5	27
	MCGLCRK	32	2.6	0.4	560	4800	6.0x10 ⁻⁶	±0.6	60
	MCGLCWK	40	4.4		980	4000	1.7x10 ⁻⁵	±0.6	104
	MCGLCWK	50	7.0		1100	3500	4.6x10 ⁻⁵		210

Ordering Example	Part Number	Shaft Bore Dia. d1	Shaft Bore Dia. d2
	MCGLC16	5	6
	MCGLCWK20	6	8

	Shaft Bore		b		t		Key Nominal
	Dia. d ₁ , d ₂	Reference Dia.	Tolerance	Reference Dia.	Tolerance	Dim. b, h	
	6~7.9	2	±0.0125	1.0	+0.1 0	2x2	
	8~10	3		1.4		3x3	
	10.1~12	4		1.8		4x4	
	12.1~17	5	±0.0150	2.3		5x5	
	17.1~22	6		2.8		6x6	
	22.1~24	8		3.3		+0.2 0	8x7