

Disc Couplings

Standard Torque, Set Screw

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

RoHS 10

Double Disc Type
MCGL (Standard Bore)

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

Single Disc Type
MCGS (Standard Bore)

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

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

⚠ 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](#)

Part Number	Type	D	d1, d2 Selection (d1≠d2)					Set Screw		Unit Price				
			⚠ Keywayed Bore Type is selectable for diameter 6 or larger (D=13 is not available)					M	Tightening Torque (N·m)	MCGL	MCGLLK/MCGLRK	MCGLWK		
10	2	3	4	5	6	4.1	15	4.2	2	M2	0.3	-	-	-
13	3	4	5	6	7	5.5	19	5.5	2.5	M2	0.3	-	-	-
16	4	5	6	6.35	7	6.8	23.2	7	3	M3	0.7	-	-	-
20	4	5	6	6.35	7	8	8.1	26	7.5	3.7	M3	0.7	-	-
25	5	6	6.35	7	8	9.53	10	11	12	M4	1.7	-	-	-
32	6	6.35	7	8	9.53	10	11	12	14	15	16	-	-	-
40	8	9.53	10	11	12	14	15	16	18	20	M5	4	-	-
50	14	15	16	18	20	22	24	25	M6	7	-	-	-	

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10	2	3	4	5	6	10.5	4.2	2	M2	0.3	-	-	-
13	3	4	5	6	7	13.5	5.5	3	M2	0.3	-	-	-
16	4	5	6	6.35	7	16.5	7	3	M3	0.7	-	-	-
20	4	5	6	6.35	7	18.4	7.5	4	M3	0.7	-	-	-
25	5	6	6.35	7	8	21.6	9	4	M4	1.7	-	-	-
32	6	6.35	7	8	9.53	29	12.4	6	M4	1.7	-	-	-
40	8	9.53	10	11	12	35	15.5	7.8	M5	4	-	-	-
50	14	15	16	18	20	41	18	9	M6	7	-	-	-

Part Number	Type	D	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 Misalignment (mm)	Mass (g)
13	0.25	3.5	0.3	44	20000	8.0x10 ⁻⁸	±0.2	5		
16	0.4	3.5	0.3	70	19000	2.4x10 ⁻⁷	±0.3	9		
20	0.6	3.5	0.3	130	18000	7.2x10 ⁻⁷	±0.4	14		
25	1.4	3.5	0.3	240	16000	2.2x10 ⁻⁶	±0.5	27		
32	2.6	3.5	0.3	560	12000	6.0x10 ⁻⁶	±0.5	60		
40	4.4	3.5	0.4	980	8000	1.7x10 ⁻⁵	±0.6	104		
50	7.0	3.5	0.4	1100	6000	4.6x10 ⁻⁵	±0.6	210		

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13	0.25	2	0.1	60	20000	7.0x10 ⁻⁸	±0.1	4		
16	0.4	2	0.1	90	19000	2.0x10 ⁻⁷	±0.2	7		
20	0.6	2	0.1	170	18000	6.0x10 ⁻⁷	±0.2	11		
25	1.4	2	0.1	300	16000	1.8x10 ⁻⁶	±0.2	22		
32	2.6	2	0.1	700	12000	5.2x10 ⁻⁶	±0.3	50		
40	4.4	2	0.15	1200	8000	1.3x10 ⁻⁵	±0.3	85		
50	7.0	2	0.15	1450	6000	3.6x10 ⁻⁵	±0.3	170		

Ordering Example

Part Number	-	Shaft Bore Dia. (d)	-	Shaft Bore Dia. (d)
MCGL20	-	5	-	10
MCGLRK25	-	8	-	12

Alterations

Part Number	-	Shaft Bore Dia. (LDC)	-	Shaft Bore Dia. (RDC)	-	(KLH, KRH)
MCGL20	-	LDC6.5	-	RDC9	-	
MCGLWK32	-	8	-	10	-	KRH4

Keyway Dimension

Shaft Bore Dia. d1, d2	b	Tolerance	Reference Dia.	t	Tolerance	Key Nominal Dim. b x t
6~7.9	2	±0.0125	1.0			2x2
8~10	3	±0.0125	1.4			3x3
10.1~12	4	±0.0125	1.8			4x4
12.1~17	5	±0.0150	2.3			5x5
17.1~22	6	±0.0150	2.8			6x6
22.1~25	8	±0.0180	3.3			8x7

Alterations	Shaft Bore Dia.		Keyway Width																										
	LDC (Left Shaft)	RDC (Right Shaft)	KLH (Left Shaft)	KRH (Right Shaft)																									
Spec.			Keyway Width (b) is changed as the table below. Ordering Code KLH4 KRH4																										
	0.1mm Increment		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Shaft Bore Dia. d1, d2</th> <th>Reference Dia.</th> <th>Tolerance</th> <th>Reference Dia.</th> <th>Tolerance</th> </tr> </thead> <tbody> <tr><td>8</td><td>2</td><td>±0.0125</td><td>1.0</td><td>±0.1</td></tr> <tr><td>10</td><td>4</td><td>±0.0150</td><td>1.8</td><td>0</td></tr> <tr><td>12</td><td>5</td><td>±0.0150</td><td>2.3</td><td>0</td></tr> <tr><td>22</td><td>8</td><td>±0.0180</td><td>3.3</td><td>±0.2</td></tr> </tbody> </table>		Shaft Bore Dia. d1, d2	Reference Dia.	Tolerance	Reference Dia.	Tolerance	8	2	±0.0125	1.0	±0.1	10	4	±0.0150	1.8	0	12	5	±0.0150	2.3	0	22	8	±0.0180	3.3	±0.2
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	LDC7.8		⚠ Cannot be combined with shaft bore change (LDC, RDC) alterations. ⚠ Applicable to Keywayed Bore only.																										
	RDC9.3																												
	Ordering Code		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>D</th> <th>LDC, RDC</th> </tr> </thead> <tbody> <tr><td>10</td><td>2-4</td></tr> <tr><td>13</td><td>3-6</td></tr> <tr><td>16</td><td>4-8</td></tr> <tr><td>20</td><td>4-10</td></tr> <tr><td>25</td><td>5-12</td></tr> <tr><td>32</td><td>6-16</td></tr> <tr><td>40</td><td>8-20</td></tr> <tr><td>50</td><td>14-25</td></tr> </tbody> </table>		D	LDC, RDC	10	2-4	13	3-6	16	4-8	20	4-10	25	5-12	32	6-16	40	8-20	50	14-25							
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