Zero Backlash

Megadrive

Megadrive

ZERO - B - FLEX - Range of Miniature Disc Coupling

Content

A coupling is specified as a mechanical device with a basic function that transfers speed and power from one rotating shaft to another shaft. For a torsional rigid coupling, it must have the ability to provide an identical speed from one shaft to another shaft and at the same time able to compensate for a small amount of misalignment within the motion of two shafts.

Our range of Zero B Flex couplings meet this requirement as it is quite impossible to have zero faults on the assembly of two shafts no matter how good the installation is, as there is always possibilty of forms of "drifts" between the two shafts and if not properly compensated for this misalignment,it causes premature failure on the entire system.

Selection

Each category of coupling is unique and has it's own advantages and limitations, hence, care must be taken to study the application requirements carefully before making the selection. Selections should be done against the coupling's characteristics and that it demands required by the application. This will enhance the service life expectancy of the coupling.

You can used the following data as a guide when making the selection:

- Torque
- Shaft diameters and fits
- Environment condition
- Load charateristics of the driven equipment
- Space limitation and maintenance

Each type or category of coupling is characterised by it own strength and limitations. Megadrive offers four basic category that allows engineers a wide selections to meets not only standard, but applications that are special and demanding.

The innovation in design, coupled with excellent control in manufacturing processes and stringent quality audit, ZERO-B-Flex is a superior quality coupling that meets the most demanding application for accuracy in movement.

The four type or category are:

1 - Helical / Helix	***3 - Oldham (Rubber)***
2 - Disc Type	***4 - Bellow***

Features

- *Zero backlash*
- *High Torque*
- *High Torsional Stiffness*
- *Parallel, Angular misalignment*
- *Low Maintenance*
- *High Fatigue Resistance*

Applications

Optical Systems	-	*Lead Screw / Feed Roller / Small Pumps*
X -Y Position Table / Robot	-	*Servo Motor / Stepping Motor / Encoder*
Semiconductor Instruments	-	*Medical Instruments / LAB Instruments*

Materials

High Aluminum Allo }
Stainless Steel }

Finishing : Clear Anodized

Ordering

MD - □□ - □□ - □□□ □ - □ - □□ - ø □□ ø □□

Series								
01 - 15	HP: Helical Parallel HS: Helical Spiral DS: Disc Single DD: Disc Double OH: Oldham BL: Bellow JM: Jaw Miniature EM: Encoder RC: Rigid Coupling	Refer to OD (OD size in ins)	L: Long M: Minature S: Short	C: Clamp K: Keyway L: Locking S: Setscrew	AL: Alum. Alloy SS: Stainless steel MS: Steel Hub c/w stainless steel disc	Bore d1	Bore d2

$$T \geq T1 \times f1 \times f2 \times f3$$

Notes

T = design torque
T1 = rated torque
f1 = load characteristic
f2 = operating cycle
f3 = stop/start frequency

Load Character f1	
Fluctuation	**Factor**
Constant	1
Small	1.2
Medium	1.7
Large	2.1

Operating Hours Factor f2	
Hrs/Day	**Factor**
≤ 2	0.7
≤ 4	0.85
≤ 8	1
≤ 16	1.18
≤ 24	1.28

Stop/start coefficient f3	
Stop/Start	**Factor**
≤ 10 Times	1
≤ 30 Times	1.1
≤ 60 Times	1.2
≤ 120 Times	1.5
≤ 240 Times	2

Motor Torque Table

Motor (kw)	Rated Torque (Nm)			
	3000rpm	1500rpm	1000rpm	750rpm
0.05	0.16	0.32	0.48	0.64
0.1	0.32	0.64	0.96	1.28
0.2	0.64	1.28	1.91	2.55
0.4	1.28	2.55	3.82	5.1
0.75	2.39	4.78	7.17	9.55
1.0	3.19	6.37	9.55	12.74
1.5	4.78	9.55	14.33	19.1
2.0	6.37	12.74	19.1	25.47
3.0	9.55	19.1	28.65	38.2
3.5	11.15	22.29	33.43	44.57
5.0	15.92	31.84	47.75	63.67
7.0	22.29	44.57	66.85	89.14

$$T(Nm) = \frac{kW \times 9550}{n\ (rpm)}$$

Selection

Example

a: Motor : 0.75kw / 4 poles
b: Application : X Y Table (motor to gear reducer)
c: Duty cyle: 12 hours x 10 stop / start per day
d: Load : Constant

1: T = Check required torque either by using the torque formula or against the motor torque table
2: T1 = Multiple the required torque by the the factor f1 * f2 * f3 to give design torque T1
3: Check approx type and size of coupling. Coupling rated torque should be equal or higher than T1.

Working

1: Torque 0.75kw / 1500rpm
T1 = 4.78 Nm

2: = 4.78 x 1 x 1.18 x 1
= 5.64 Nm

3: Selected MDS-02HP-200-S
Rated at 9Nm

MD 01 Series

Helical Parrallel

Zero-B-Flex

Setscrew Type

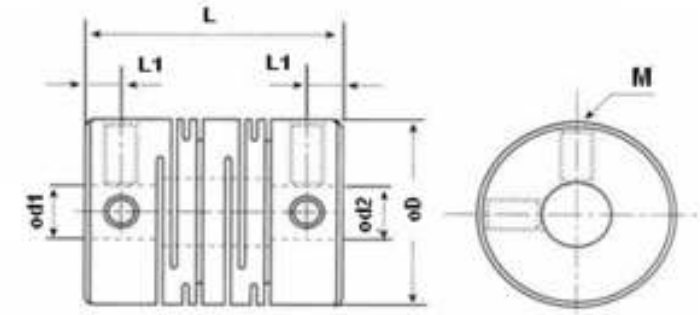
- Ω One-piece metallic spring coupling
- Ω Zero backlash
- Ω Low torque
- Ω High misalignment on parallel, angular and end float
- Ω Material: Aluminum Alloy & Stainless Steel

Aluminum Alloy

Stainless Steel (SS)

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (N.m/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-01HP-015M-S-AL	0.2	0.4	13000	3.0x10 -7	35	0.1	1.5	+/- 0.15	10
MD-01HP-015-S-AL		0.4			36				
MD-01HP-017-S-AL	0.3	0.6	12000	6.1x10 -7	65	0.1	1.5	+/- 0.25	12
MD-01HP-019-S-AL	0.4	0.8	10000	8.5x10 -7	100	0.1	1.5	+/- 0.25	14
MD-01HP-015M-S-SS	0.3	0.6	13000	8.7x10 -7	70	0.1	1.5	+/- 0.15	28
MD-01HP-015-S-SS				8.9x10 -7	72				30
MD-01HP-017-S-SS	0.4	0.8	12000	1.5x10 -6	160	0.1	1.5	+/- 0.25	34
MD-01HP-019-S-SS	0.9	1.8	10000	2.0x10 -6	205	0.1	1.5	+/- 0.25	40



Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (Nm)
MD-01HP-015M-S-AL	15.5	21	3 4 5	2.6	M3	0.7
MD-01HP-015-S-AL		23		3.1		
MD-01HP-017-S-AL	17.5	23	4 5 6	3.1	M3	0.7
MD-01HP-019-S-AL	19.5	24.5	5 6 6.35 8	3.5	M4	1.5
MD-01HP-015M-S-SS	15.5	21	3 4 5	2.6	M3	0.7
MD-01HP-015-S-SS		23		3.1		
MD-01HP-017-S-SS	17.5	23	4 5 6	3.1	M3	0.7
MD-01HP-019-S-SS	19.5	24.5	5 6 6.35 8	3.5	M4	1.5

MD 01 Series

Helical Spiral

Zero-B-Flex

Setscrew Type

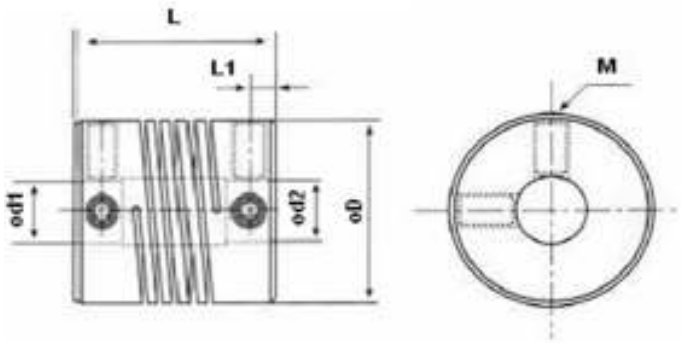
- Ω One-piece metallic spring coupling
- Ω Zero backlash
- Ω Low torque
- Ω High misalignment on parallel, angular and end float
- Ω Material: Aluminum Alloy & Stainless Steel

Aluminum Alloy

Stainless Steel (SS)

Technical

Model	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
					Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-01HS-015M-S-AL	0.4	13000	3.0x10 -7	35	0.12	2	+/- 0.15	10
MD-01HS-015-S-AL	0.4			36				
MD-01HS-017-S-AL	0.6	12000	6.1x10 -7	65	0.12	2	+/- 0.25	12
MD-01HS-019-S-AL	0.8	10000	8.5x10 -7	100	0.12	2	+/- 0.25	14
MD-01HS-015M-S-SS	0.6	13000	8.7x10 -7	70	0.12	2	+/- 0.15	28
MD-01HS-015-S-SS			8.9x10 -7	72				30
MD-01HS-017-S-SS	0.8	12000	1.5x10 -6	160	0.12	2	+/- 0.25	34
MD-01HS-019-S-SS	1.8	10000	2.0x10 -6	205	0.12	2	+/- 0.25	40



Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (Nm)
MD-01HS-015M-S-AL	15.5	21	3 4 5	2.6	M3	0.7
MD-01HS-015-S-AL		23		3.1		
MD-01HS-017-S-AL	17.5	23	4 5 6	3.1	M3	0.7
MD-01HS-019-S-AL	19.5	24.5	5 6 6.35 8	3.5	M4	1.5
MD-01HS-015M-S-SS	15.5	21	3 4 5	2.6	M3	0.7
MD-01HS-015-S-SS		23		3.1		
MD-01HS-017-S-SS	17.5	23	4 5 6	3.1	M3	0.7
MD-01HS-019-S-SS	19.5	24.5	5 6 6.35 8	3.5	M4	1.5

MD 02 Series
Helical Spiral

Zero-B-Flex

Setscrew Type

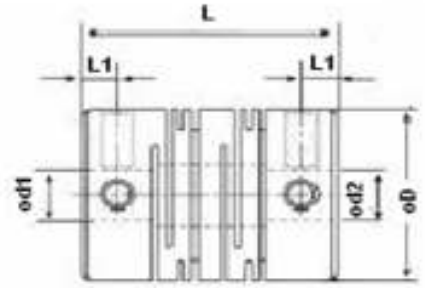
- Ω One-piece metallic spring coupling
- Ω Higer Torque Range
- Ω Zero backlash
- Ω High misalignment on parallel, angular and end float
- Ω Material: Aluminum Alloy & Stainless Steel

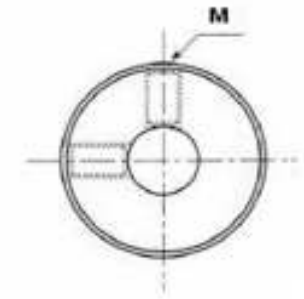
Aluminium Alloy

Stainless Steel (SS)

Technical

Model	Rated Torque (Nm)	Max Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-02HP-075-S-AL	0.5	1.0	10000	6.6x10 -7	110	0.1	1.5	+/- 0.15	12
MD-02HP-100-S-AL	1.2	2.4	10000	2.6x10 -6	170	0.1	1.5	+/- 0.15	26
MD-02HP-112-S-AL	1.6	3.2	8000	4.9x10 -6	260	0.1	1.5	+/- 0.15	42
MD-02HP-150-S-AL	4.2	8.4	8000	1.9x10 -5	330	0.15	1.5	+/- 0.15	76
MD-02HP-200-S-AL	9.0	18.0	6000	8.9x10 -5	560	0.15	1.5	+/- 0.15	128
MD-02HP-075-S-SS	1.0	2.0	10000	2.1x10 -6	230	0.15	1.5	+/- 0.15	34
MD-02HP-100-S-SS	2.2	4.4	10000	6.8x10 -6	320	0.1	1.5	+/- 0.15	74
MD-02HP-112-S-SS	3.1	6.2	8000	2.2x10 -5	790	0.1	1.5	+/- 0.15	118
MD-02HP-150-S-SS	7.5	15.0	8000	8.2x10 -5	980	0.15	1.5	+/- 0.15	212
MD-02HP-200-S-SS	14.0	28.0	6000	2.1x10 -4	1450	0.15	1.5	+/- 0.15	358





Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (Nm)
MD-02HP-075-S-AL	19.1	19.1	3 4 5 6 6.35	2.55	M3	0.7
MD-02 HP-100-S-AL	25.4	25.4	5 6 6.35 8 10	3.55	M4	1.7
MD-02HP-112-S-AL	28.6	28.6	6 8 10 12.7	3.6	M5	1.7
MD-02HP-150-S-AL	38.1	38.1	8 10 12 12.7 14 15	4.15	M5	3.8
MD-02HP-200-S-AL	50.8	50.8	12 12.7 14 15 16 18 19	5.25	M6	4.0
MD-02 HP-075-S-SS	19.1	19.1	3 4 5 6 6.35	2.55	M3	0.7
MD-02HP-100-S-SS	25.4	25.4	5 6 6.35 8 10	3.55	M4	1.7
MD-02HP-112-S-SS	28.6	28.6	6 8 10 12.7	3.6	M5	1.7
MD-02HP-150-S-SS	38.1	38.1	8 10 12 12.7 14 15	4.15	M5	3.8
MD-02HP-200-S-SS	50.8	50.8	12 12.7 14 15 16 18 19	5.25	M6	4.0

MD 02 Series
Helical Spiral

Zero-B-Flex

Setscrew Type

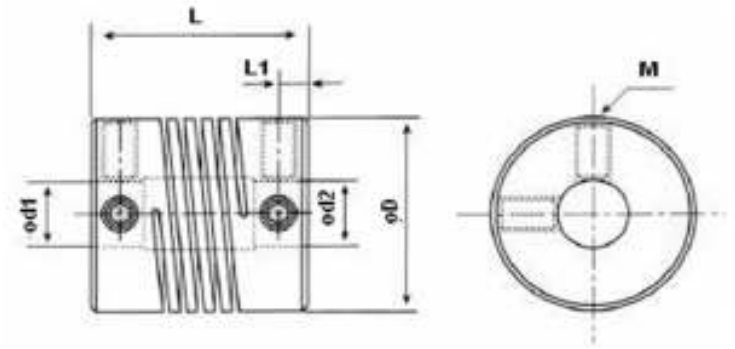
- One-piece metallic spring coupling
- Higer Torque Range
- Zero backlash
- High misalignment on parallel, angular and end float
- Material: Aluminum Alloy & Stainless Steel

Aluminum Alloy

Stainless Steel (SS)

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-02HS-075-S-AL	0.5	1.0	10000	6.9x10 -7	110	0.1	2	+/- 0.15	12
MD-02HS-100-S-AL	1.2	2.4	10000	2.8x10 -6	170	0.1	2	+/- 0.15	28
MD-02HS-112-S-AL	1.6	3.2	8000	5.1x10 -6	260	0.1	2	+/- 0.15	44
MD-02HS-150-S-AL	4.2	8.4	8000	2.1x10 -5	330	0.15	2	+/- 0.15	78
MD-02HS-200-S-AL	9.0	18.0	6000	9.0x10 -5	560	0.15	2	+/- 0.15	130
MD-02HS-075-S-SS	1.0	2.0	10000	2.2x10 -6	230	0.15	2	+/- 0.15	36
MD-02HS-100-S-SS	2.2	4.4	10000	7.0x10 -6	320	0.1	2	+/- 0.15	76
MD-02HS-112-S-SS	3.1	6.2	8000	2.3x10 -5	790	0.1	2	+/- 0.15	120
MD-02HS-150-S-SS	7.5	15.0	8000	8.3x10 -5	980	0.15	2	+/- 0.15	214
MD-02HS-200-S-SS	14.0	28.0	6000	2.7x10 -4	1450	0.15	2	+/- 0.15	362



Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (Nm)
MD-02HS-075-S-AL	19.1	19.1	3 4 5 6 6.35	2.55	M3	0.7
MD-02HS-100-S-AL	25.4	25.4	5 6 6.35 8 10	3.55	M4	1.7
MD-02HS-112-S-AL	28.6	28.6	6 8 10 12.7	3.6	M5	1.7
MD-02HS-150-S-AL	38.1	38.1	8 10 12 12.7 14 15	4.15	M5	3.8
MD-02HS-200-S-AL	50.8	50.8	12 12.7 14 15 16 18 19	5.25	M6	4.0
MD-02HS-075-S-SS	19.1	19.1	3 4 5 6 6.35	2.55	M3	0.7
MD-02HS-100-S-SS	25.4	25.4	5 6 6.35 8 10	3.55	M4	1.7
MD-02HS-112-S-SS	28.6	28.6	6 8 10 12.7	3.6	M5	1.7
MD-02HS-150-S-SS	38.1	38.1	8 10 12 12.7 14 15	4.15	M5	3.8
MD-02HS-200-S-SS	50.8	50.8	12 12.7 14 15 16 18 19	5.25	M6	4.0

MD 02 Series

Helical Parellel

Zero-B-Flex

Clamp Type

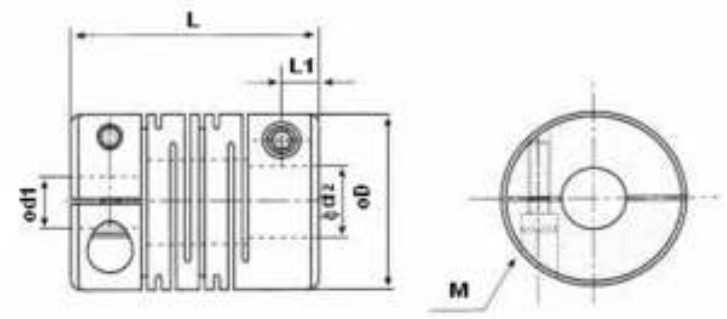
- Ω One-piece metallic spring coupling
- Ω Higer Torque Range
- Ω Zero backlash
- Ω High misalignment on parallel, angular and end float
- Ω Material: Aluminum Alloy & Stainless Steel

Aluminium Alloy

Stainless Steel (SS)

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular °(deg)	End Float (mm)	
MD-02HP-075-C-AL	0.5	1.0	8000	9.0x10 -7	110	0.1	1.5	+/- 0.15	14
MD-02HP-100-C-AL	1.2	2.4	6000	2.5x10 -6	170	0.1	1.5	+/- 0.15	32
MD-02HP-112-C-AL	1.6	3.2	5000	8.8x10 -6	260	0.1	1.5	+/- 0.15	46
MD-02HP-150-C-AL	4.2	8.4	4500	3.0x10 -5	330	0.1	1.5	+/- 0.15	92
MD-02HP-200-C-AL	9.0	18.0	4500	9.6x10 -5	560	0.1	1.5	+/- 0.15	136
MD-02HP-075-C-SS	1.0	2.0	8000	2.3x10 -6	230	0.1	1.5	+/- 0.15	40
MD-02HP-100-C-SS	2.2	4.4	6000	7.2x10 -6	320	0.1	1.5	+/- 0.15	90
MD-02HP-112-C-SS	3.1	6.2	5000	2.4x10 -5	790	0.1	1.5	+/- 0.15	128
MD-02HP-150-C-SS	7.5	15.0	4500	8.4x10 -5	980	0.1	1.5	+/- 0.15	256
MD-02HP-200-C-SS	14.0	28.0	4500	2.8x10 -4	1450	0.1	1.5	+/- 0.15	380



Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (Nm)
MD-02HP-075-C-AL	19.1	22.9	3 4 5 6 6.35	3.10	M2.5	1.0
MD-02HP-100-C-AL	25.4	31.8	5 6 6.35 8 10	4.15	M3	1.5
MD-02HP-112-C-AL	28.6	38.1	6 8 10 12.7	5.00	M3	2.0
MD-02HP-150-C-AL	38.1	41.3	8 10 12 12.7 14 15	5.90	M5	4.0
MD-02HP-200-C-AL	50.8	51.0	12 12.7 14 15 16 18 19	6.70	M6	7.5
MD-02HP-075-C-SS	19.1	22.9	3 4 5 6 6.35	3.10	M2.5	1.0
MD-02HP-100-C-SS	25.4	31.8	5 6 6.35 8 10	4.15	M3	1.5
MD-02HP-112-C-SS	28.6	38.1	6 8 10 12.7	5.00	M3	2.0
MD-02HP-150-C-SS	38.1	41.3	8 10 12 12.7 14 15	5.90	M5	4.0
MD-02HP-200-C-SS	50.8	51.0	12 12.7 14 15 16 18 19	6.70	M6	7.5

MD 02 Series

Helical Spiral

Zero-B-Flex

Clamp Type

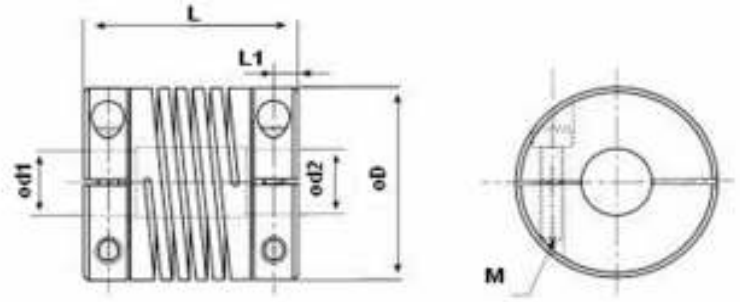
- One-piece metallic spring coupling
- Higer Torque Range
- Zero backlash
- High misalignment on parallel, angular and end float
- Material: Aluminum Alloy & Stainless Steel

Aluminum Alloy

Stainless Steel (SS)

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-02HS-075-C-AL	0.5	1.0	8000	9.0x10 -7	110	0.1	2	+/- 0.15	14
MD-02HS-100-C-AL	1.2	2.4	6000	2.6x10 -6	170	0.1	2	+/- 0.15	34
MD-02HS-112-C-AL	1.6	3.2	5000	8.9x10 -6	260	0.1	2	+/- 0.15	48
MD-02HS-015-C-AL	4.2	8.4	4500	3.2x10 -5	330	0.1	2	+/- 0.15	96
MD-02HS-200-C-AL	9.0	18.0	4500	9.8x10 -5	560	0.1	2	+/- 0.15	140
MD-02HS-075-C-SS	1.0	2.0	8000	2.4x10 -6	230	0.1	2	+/- 0.15	40
MD-02HS-100-C-SS	2.2	4.4	6000	7.3x10 -6	320	0.1	2	+/- 0.15	96
MD-02HS-112-C-SS	3.1	6.2	5000	2.6x10 -5	790	0.1	2	+/- 0.15	134
MD-02HS-150-C-SS	7.5	15.0	4500	8.6x10 -5	980	0.1	2	+/- 0.15	268
MD-02HS-200-C-SS	14.0	28.0	4500	3.0x10 -4	1450	0.1	2	+/- 0.15	392



Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (N.m)
MD-02HS-075-C-AL	19.1	22.9	3 4 5 6 6.35	3.10	M2.5	1.0
MD-02HS-100-C-AL	25.4	31.8	5 6 6.35 8 10	4.15	M3	1.5
MD-02HS-112-C-AL	28.6	38.1	6 8 10 12.7	5.00	M3	2.0
MD-02HS-150-C-AL	38.1	41.3	8 10 12 12.7 14 15	5.90	M5	4.0
MD-02HS-200-C-AL	50.8	51.0	12 12.7 14 15 16 18 19	6.70	M6	7.5
MD-02HS-075-C-SS	19.1	22.9	3 4 5 6 6.35	3.10	M2.5	1.0
MD-02HS-100-C-SS	25.4	31.8	5 6 6.35 8 10	4.15	M3	1.5
MD-02HS-112-C-SS	28.6	38.1	6 8 10 12.7	5.00	M3	2.0
MD-02HS-150-C-SS	38.1	41.3	8 10 12 12.7 14 15	5.90	M5	4.0
MD-02HS-200-C-SS	50.8	51.0	12 12.7 14 15 16 18 19	6.70	M6	7.5

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MD 03 Series

Disc Single & Disc Double

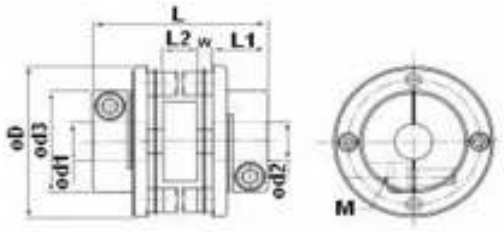
Zero-B-Flex

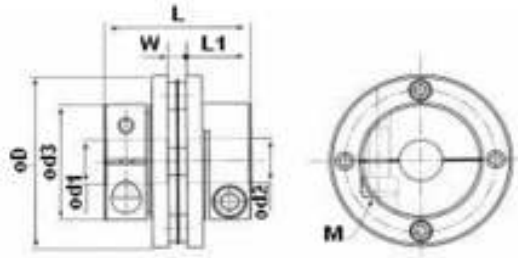
Clamp Type

- One-piece metallic spring coupling
- Zero backlash
- High misalignment on angular and end float
- Material: Aluminum Alloy & Stainless Steel Disc Plate

Disc Single

Disc Double





Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment		Mass (gm)
						Angular ° (deg)	End Float (mm)	
MD-03DS-034-C	3.8	7.6	6000	3.8x10 -6	1500	1	+/- 0.15	38
MD-03DS-044-C	9.7	19.4	6000	14.5x10 -6	3000	1	+/- 0.15	84
MD-03DS-056-C	24	48	6000	48.5x10 -6	4200	1	+/- 0.15	132
MD-03DS-068-C	40	80	6000	126x10 -6	6500	1	+/- 0.15	232
MD-03DS-082-C	85	170	6000	565x10 -6	8600	1	+/- 0.15	420
MD-03DD-034-C	3.8	7.6	6000	6.5x10 -6	1300	2	+/- 0.3	46
MD-03DD-044-C	9.7	19.4	6000	25.4x10 -6	2800	2	+/- 0.3	98
MD-03DD-056-C	24	48	6000	82.5x10 -6	4000	2	+/- 0.3	194
MD-03DD-068-C	40	80	6000	225x10 -6	6200	2	+/- 0.3	376
MD-03DD-082-C	85	170	6000	985x10 -6	8300	2	+/- 0.3	640

Dimensions

Model	D	L	L1	d1 & d2	d3	M	Wrench Torque (Nm)	L2	W
MD-03DS-034-C	34	27	12	6 8 9	21.6	M3	1.5	-	3
MD-03DS-044-C	44	34	15	10 11 12 14	29.6	M4	3.4	-	4
MD-03DS-056-C	56	45	20	14 16 19 20	38.0	M5	7.0	-	5
MD-03DS-068-C	68	54	24	15 19 20 22 24 25	46.0	M6	14.0	-	6
MD-03DS-082-C	82	68	30	20 24 25 28 30	56.0	M8	25.0		8
MD-03DD-034-C	34	37	12	6 8 9	21.6	M3	1.5	7	3
MD-03DD-044-C	44	47	15	10 11 12 14	29.6	M4	3.4	9	4
MD-03DD-056-C	56	61	20	14 16 19 20	38.0	M5	7.0	11	5
MD-03DD-068-C	68	74	24	15 19 20 22 24 25	46.0	M6	14.0	14	6
MD-03DD-082-C	82	98	30	20 24 25 28 30	56.0	M8	25.0	22	8

MD 04 Series

Oldham

Zero-B-Flex

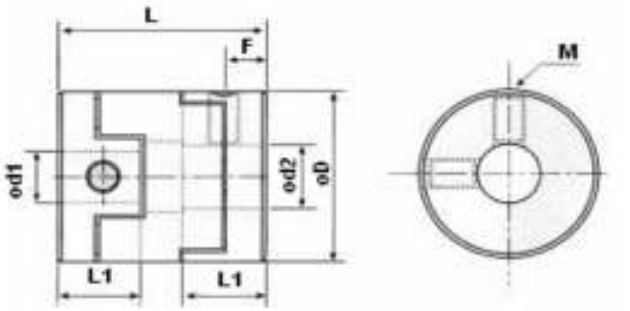
Setscrew Type

- Ω Oldham Type Flexible Coupling
- Ω Simple and easy installation.
- Ω Zero backlash
- Ω High torque
- Ω High misalignment on parallel and angular.
- Ω Material: Aluminum Alloy

Aluminum Alloy

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment		Mass (gm)
						Parallel (mm)	Angular ° (deg)	
MD-04OH-016-S-AL	0.7	1.4	9000	3.0x10 -7	29	1.0	3	6
MD-04OH-020-S-AL	1.6	3.2	7400	9.0x10 -7	58	1.4	3	14
MD-04OH-025-S-AL	3.0	6.0	5800	2.8x10 -6	125	1.9	3	24
MD-04OH-032-S-AL	5.5	11.0	4700	8.9x10 5	260	2.4	3	46
MD-04OH-040-S-AL-	9.0	18.0	3600	2.1x10 -5	505	2.8	3	80
MD-04OH-050-S-AL	19.0	38.0	3000	6.0x10 -5	780	3.3	3	144
MD-04OH-063-S-AL	33.0	66.0	2400	2.1x10 -4	1200	3.8	3	318



Dimensions

Model	D	L	L1	d1 & d2	F	M	Wrench Torque (Nm)
MD-04OH-016-S-AL	16	18	7	4 5 6	3.5	M3	0.7
MD-04OH-020-S-AL	20	23	9	6 6.35 8	4.5	M4	1.7
MD-04OH-025-S-AL	25	28	11	6.35 8 9.525 10	5.5	M5	4.0
MD-04OH-032-S-AL	32	33	13	8 9.525 10 11 12 14	6.5	M6	7.0
MD-04OH-040-S-AL	40	35	14	12 14 15 16	7.0	M6	7.0
MD-04OH-050-S-AL	50	38	17	14 15 16 18 19 20	8.5	M8	15.0
MD-04OH-063-S-AL	63	47	21	16 18 19 20 24 25	10.5	M10	30.0

MD 04 Series

Oldham

Zero-B-Flex

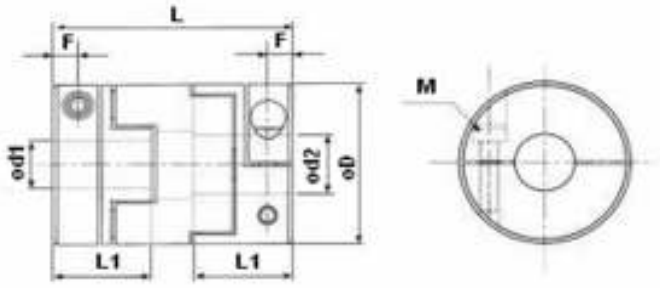
Clamp Type

- Oldham Type Flexible Coupling
- Simple and easy installation.
- Zero backlash
- High Torque
- High misalignment on parallel and angular.
- Material: Aluminum Alloy

Aluminum Alloy

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (N.m/rad)	Misalignment		Mass (gm)
						Parallel (mm)	Angular ° (deg)	
MD-04OH-016-C-AL	0.7	1.4	9000	5.0x10 -7	29	1.0	3	12
MD-04OH-020-C-AL	1.6	3.2	7400	1.4x10 -7	58	1.4	3	20
MD-04OH-025-C-AL	3.0	6.0	5800	4.1x10 -6	125	1.9	3	36
MD-04OH-032-C-AL	5.5	11.0	4700	1.2x10 5	260	2.4	3	66
MD-04OH-040-C-AL	9.0	18.0	3600	3.8x10 -5	505	2.8	3	114
MD-04OH-050-C-AL	19.0	38.0	3000	1.0x10 -4	780	3.3	3	206
MD-04OH-063-C-AL	33.0	66.0	2400	3.5x10 -4	1200	3.8	3	454



Dimensions

Model	D	L	L1	d1 & d2	F	M	Wrench Torque (Nm)
MD-04OH-016-C-AL	16	30	13	4 5 6	3.0	M2.5	0.7
MD-04OH-020-C-AL	20	33	14	6 6.35 8	3.0	M2.5	1.7
MD-04OH-025-C-AL	25	39	17	6.35 8 9.525 10	3.8	M3	4.0
MD-04OH-032-C-AL	32	45	19	8 9.525 10 11 12 14	4.5	M4	7.0
MD-04OH-040-C-AL	40	50	23	12 14 15 16	7.0	M5	7.0
MD-04OH-050-C-AL	50	58	27	14 15 16 18 19 20	8.0	M6	15.0
MD-04OH-063-C-AL	63	71	33	16 18 19 20 24 25	10.0	M8	30.0

MD 05 Series

Disc Single

Zero-B-Flex

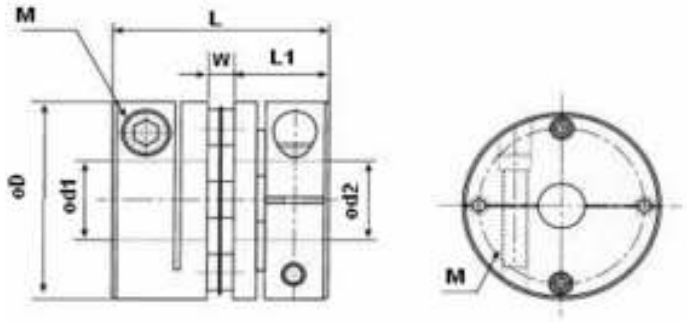
Clamp Type

- Ω Disc Type Coupling
- Ω Zero backlash
- Ω High torque
- Ω High misalignment on angular and end float
- Ω Material: Aluminum Alloy & Stainless Steel Disc Plate

Aluminum Alloy

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment		Mass (gm)
						Angular ° (deg)	End Float (mm)	
MD-05DS-026-C-AL	1.4	2.8	10000	1.8x10 -6	690	1	+/- 0.2	24
MD-05DS-034-C-AL	2.8	5.6	10000	7.2x10 -6	1650	1	+/- 0.2	46
MD-05DS-039-C-AL	5.8	11.6	10000	1.8x10 -5	2500	1	+/- 0.2	78
MD-05DS-044-C-AL	8.7	17.4	10000	2.5x10 -5	2900	1	+/- 0.2	96
MD-05DS-056-C-AL	25.0	50.0	10000	1.0x10 -4	8400	1	+/- 0.2	206
MD-05DS-068-C-AL	55.0	110.0	10000	1.9x10 -4	11500	1	+/- 0.2	366
MD-05DS-082-C-AL	80.0	160.0	10000	7.0x10 -4	14550	1	+/- 0.2	710



Dimensions

Model	D	L	L1	d1 & d2	W	M	Wrench Torque (Nm)
MD-05DS-026-C-AL	26	25.5	11.5	5 6 8 9.525 10	2.5	M3	1.5
MD-05DS-034-C-AL	34	31.3	14.1	8 9.525 10 11 12 14	3.1	M4	1.5
MD-05DS-039-C-AL	39	34.1	15.0	10 11 12 14 15 16	4.1	M4	2.5
MD-05DS-044-C-AL	44	34.5	15.0	11 12 14 15 16 19	4.5	M4	2.5
MD-05DS-056-C-AL	56	45.0	20.0	14 15 16 19 20 22 24	5.0	M5	7.0
MD-05DS-068-C-AL	68	54.0	24.0	19 20 22 24 30 35	6.0	M6	12.0
MD-05DS-082-C-AL	82	68.0	30.0	24 28 30 35 38 40	8.0	M8	16.0

MD 05 Series
Disc Double

Zero-B-Flex

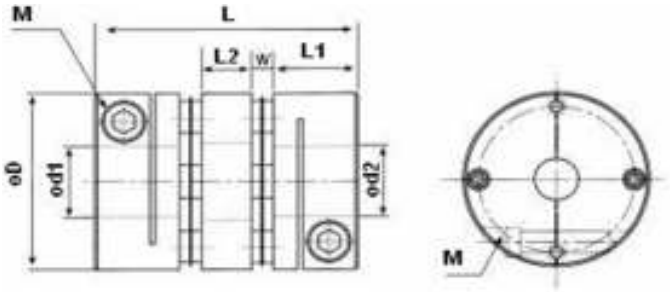
Clamp Type

- Ω Disc Type Coupling
- Ω Zero backlash
- Ω High torque
- Ω High misalignment on angular and end float
- Ω Material: Aluminum Alloy & Stainless Steel Disc Plate

Aluminum Alloy

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-05DD-026-C-AL	1.4	2.8	10000	3.3x10 -6	950	0.04	1.5	+/- 0.4	34
MD-05DD-034-C-AL	2.8	5.6	10000	8.9x10 -6	1960	0.04	1.5	+/- 0.4	70
MD-05DD-039-C-AL	5.8	11.6	10000	2.4x10 -5	4500	0.04	1.5	+/- 0.4	118
MD-05DD-044-C-AL	8.7	17.4	10000	3.2x10 -5	5100	0.04	1.5	+/- 0.4	142
MD-05DD-056-C-AL	25.0	50.0	10000	1.1x10 -4	10500	0.04	1.5	+/- 0.4	296
MD-05DD-0368-C-AL	55.0	110.0	10000	2.8x10 -4	18500	0.04	1.5	+/- 0.4	544
MD-05DD-082-C-AL	80.0	160.0	10000	1.0x10 -3	21800	0.04	1.5	+/- 0.4	1020



Dimensions

Model	D	L	L1	d1 & d2	W	M	Wrench Torque (Nm)	L2
MD-05DD-026-C-AL	26	35	11.5	5 6 8 9.525 10	2.5	M3	1.5	7.0
MD-05DD-034-C-AL	34	45	14.1	8 9.525 10 11 12 14	3.1	M4	1.5	10.6
MD-05DD-039-C-AL	39	49	15.0	10 11 12 14 15 16	4.1	M4	2.5	10.8
MD-05DD-044-C-AL	44	50	15.0	11 12 14 15 16 19	4.5	M4	2.5	11.0
MD-05DD-056-C-AL	56	63	20.0	14 15 16 19 20 22 24	5.0	M5	7.0	13.0
MD-05DD-068-C-AL	68	74	24.0	19 20 22 24 30 35	6.0	M6	12.0	14.0
MD-05DD-082-C-AL	82	98	30.0	24 28 30 35 38 40	8.0	M8	16.0	22.0

MD 06 Series

Bellow

Zero-B-Flex

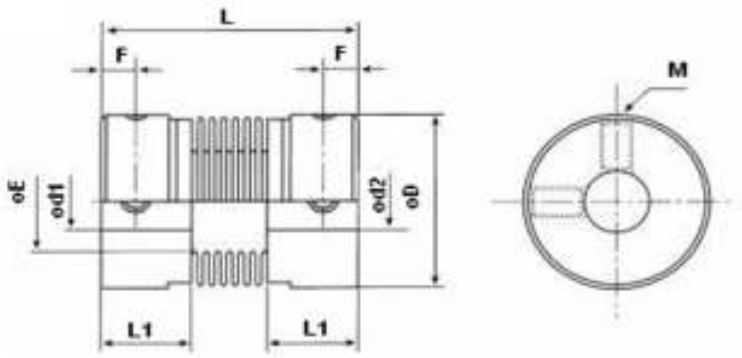
Setscrew Type

- Ω Bellow Type Coupling
- Ω Zero backlash
- Ω High torque
- Ω High misalignment on parallel, angular and end float
- Ω Material: Aluminum Alloy

Aluminum Alloy

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-06BL-016-S-AL	0.8	1.6	20000	3.4x10 -7	100	0.10	1.5	+0.3/-1.0	8
MD-06BL-020-S-AL	1.5	3.0	15000	8.9x10 -7	160	0.10	1.5	+0.3/-1.0	12
MD-06BL-025-S-AL	2.0	4.0	13000	2.8x10 -6	220	0.15	2.0	+0.5/-1.3	28
MD-06BL-032-S-AL	2.5	5.0	10000	8.8x10 -6	310	0.20	2.0	+0.5/-1.3	46
MD-06BL-032L-S-AL	2.5	5.0	10000	8.9x10 -6	310	0.20	2.0	+0.5/-1.3	52
MD-06BL-040-S-AL	10.0	20.0	8000	1.5x10 -5	520	0.20	2.0	+0.7/-1.5	88
MD-06BL-055-S-AL	25.0	50.0	6000	2.3x10 -5	850	0.20	2.0	+0.7/-1.5	180



Dimensions

Model	D	L	L1	d1 & d2	F	M	Wrench Torque (Nm)	E
MD-06BL-016-S-AL	16	27	8.5	4 5 6 6.35 8	3.0	M3	0.7	9.5
MD-06BL-020-S-AL	20	29	8.5	6 6.35 8 9.525 10 12	3.0	M3	0.7	12.5
MD-06BL-025-S-AL	25	34	10.5	6 6.35 8 9.525 10 12	4.0	M4	1.7	15.0
MD-06BL-032-S-AL	32	38	11.5	8 9.525 10 12 14	4.0	M4	1.7	21.0
MD-06BL-032L-S-AL	32	49	11.5	8 9.525 10 12 14	4.0	M4	1.7	21.0
MD-06BL-040-S-AL	40	51	12.5	10 11 12 14 15 16	4.5	M5	4.0	27.0
MD-06BL-055-S-AL	55	57	13.5	12 14 15 16 19	5.0	M6	7.0	40.0

MD 06 Series

Bellow

Zero-B-Flex

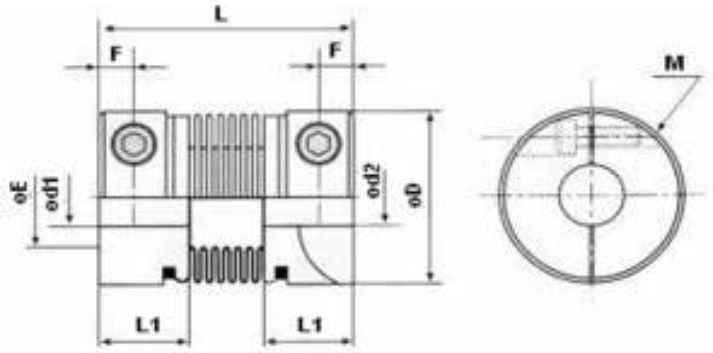
Clamp Type

- Ω Bellow Type Coupling
- Ω Zero backlash
- Ω High torque
- Ω High misalignment on parallel, angular and end float
- Ω Material: Aluminum Alloy

Aluminum Alloy

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-06BL-016-C-AL	0.8	1.6	20000	3.4x10 -7	100	0.10	1.5	+0.3/-1.0	8
MD-06BL-020-C-AL	1.5	3.0	15000	8.9x10 -7	160	0.10	1.5	+0.3/-1.0	14
MD-06BL-025-C-AL	2.0	4.0	13000	2.8x10 -6	220	0.15	2.0	+0.5/-1.3	32
MD-06BL-032-C-AL	2.5	5.0	10000	8.8x10 -6	310	0.20	2.0	+0.5/-1.3	52
MD-06BL-032L-C-AL	2.5	5.0	10000	8.9x10 -6	310	0.20	2.0	+0.5/-1.3	58
MD-0BL-040-C-AL	10.0	20.0	8000	1.5x10 -5	520	0.20	2.0	+0.7/-1.5	98
MD-06BL-055-C-AL	25.0	50.0	6000	2.3x10 -5	850	0.20	2.0	+0.7/-1.5	200
MD-06BL-065-C-AL	60.0	120.0	4500	2.8x10 -5	960	0.20	2.0	+0.7/-1.5	350
MD-06BL-082-C-AL	80.0	160.0	4000	6.0x10 -5	1290	0.20	2.0	+0.7/-1.5	750



Dimensions

Model	D	L	L1	d1 & d2	F	M	Wrench Torque (Nm)	E
MD-06BL-016-C-AL	16	30	10,5	4 5 6 6.35 8	4.0	M3	0.7	9.5
MD-06BL-020-C-AL	20	33	10.5	6 6.35 8 9.525 10 12	4.0	M3	0.7	12.5
MD-06BL-025-C-AL	25	38	12.5	6 6.35 8 9.525 10 12	5.0	M4	1.7	15.0
MD-06BL-032-C-AL	32	43	14.0	8 9.525 10 12 14	6.0	M4	1.7	21.0
MD-06BL-032L-C-AL	32	54	14.0	8 9.525 10 12 14	6.0	M4	1.7	21.0
MD-06BL-040-C-AL	40	62	21.5	10 11 12 14 15 16	6.5	M5	4.0	27.0
MD-06BL-055-C-AL	55	72	23.0	12 14 15 16 19	7.0	M6	8.0	40.0
MD-06BL-065-C-AL	65	81	25.5	18,19,20,24,25,28,30,32,35,38	9.0	M8	15.0	45.0
MD-06BL-082-C-AL	82	103	34.5	20,24,25,28,30,32,35,38,40,42	11.0	M10	28.0	56.0

Setscrew Type

- One-piece metallic spring coupling
- Zero backlash
- Low torque
- High misalignment on parallel, angular and end float
- Material: Aluminum Alloy & Stainless Steel

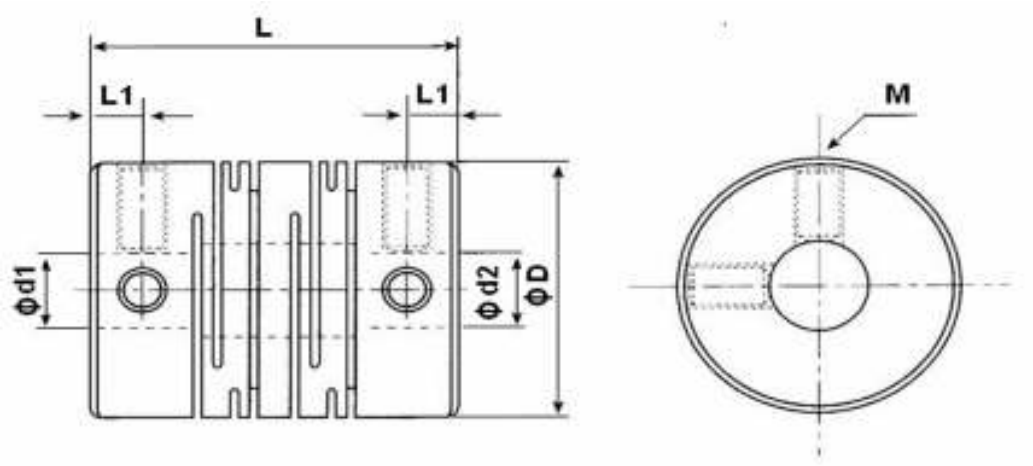
Aluminum Alloy

Stainless Steel (SS)

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular º (deg)	End Float (mm)	
MD-07HP-012-S-AL	0.5	1.0	30000	8.2x10 -8	33	0.1	1.5	+/- 0.3	4
MD-07HP-016-S-AL	0.8	1.6	22000	3.2x10 -7	46	0.1	1.5	+/- 0.3	8
MD-07HP-020-S-AL	1.1	2.2	18000	8.8x10 -6	115	0.1	1.5	+/- 0.3	16
MD-07HP-025-S-AL	1.4	2.8	14000	2.5x10 -6	165	0.15	1.5	+/- 0.35	28
MD-07HP-032-S-AL	2.8	5.6	10000	9.5x10 -6	270	0.15	1.5	+/- 0.35	62
MD-07HP-040-S-AL	6.3	12.6	9400	3.1x10 -5	345	0.2	1.5	+/- 0.35	134
MD-07HP-050-S-AL	11	22	7600	1.0x10 -5	580	0.2	1.5	+/- 0.35	166
MD-07HP-063-S-AL	22	44	6000	3.0x10 -4	830	0.2	1.5	+/- 0.35	500
MD-07HP-012-S-SS	0.8	1.6	30000	2.0x10 -7	60	0.1	1.5	+/- 0.3	12
MD-07HP-016-S-SS	1.1	2.2	22000	8.3x10 -7	80	0.1	1.5	+/- 0.3	22
MD-07HP-020-S-SS	1.6	3.2	18000	2.2x10 -6	235	0.1	1.5	+/- 0.3	40
MD-07HP-025-S-SS	2.2	4.4	14000	6.7x10-6	315	0.15	1.5	+/- 0.35	74
MD-07HP-032-S-SS	5.5	11.0	10000	2.5x10 -5	837	0.15	1.5	+/- 0.35	162
MD-07HP-040-S-SS	8.7	17.4	9400	8.6x10 -5	980	0.2	1.5	+/- 0.35	354
MD-07HP-050-S-SS	16	32.0	7600	2.6x10 -4	1385	0.2	1.5	+/- 0.35	710
MD-07HP-063-S-SS	38	76.0	6000	8.2x10 -4	1795	0.2	1.5	+/- 0.35	1310

Setscrew Type



Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (Nm)
MD-07HP-012-S-AL	12	18.5	3 4 5	2.5	M2.5	0.5
MD-07HP-016-S-AL	16	23	4 5 6 6.35	3	M3	0.7
MD-07HP-020-S-AL	20	26	5 6 8 9.525	3	M3	0.7
MD-07HP-025-S-AL	25	31	8 9.525 10 11 12	4	M4	1.7
MD-07HP-032-S-AL	32	41	10 11 12 14	6	M4	1.7
MD-07HP-040-S-AL	40	56	10 11 12 14 15 16 18	8.5	M5	4.0
MD-07HP-050-S-AL	50	71	12 14 15 16 18 19	10.5	M6	7.0
MD-07HP-063-S-AL	63	90	14 15 16 18 19 24	13	M8	15.0
MD-07HP-012-S-SS	12	18.5	3 4 5	2.5	M2.5	0.5
MD-07HP-016-S-SS	16	23	4 5 6 6.35	3	M3	0.7
MD-07HP-020-S-SS	20	26	5 6 8 9.525	3	M3	0.7
MD-07HP-025-S-SS	25	31	8 9.525 10 11 12	4	M4	1.7
MD-07HP-032-S-SS	32	41	10 11 12 14	6	M4	1.7
MD-07HP-040-S-SS	40	56	10 11 12 14 15 16 18	8.5	M5	4.0
MD-07HP-050-S-SS	50	71	12 14 15 16 18 19	10.5	M6	7.0
MD-07HP-063-S-SS	63	90	14 15 16 18 19 24	13	M8	15.0

MD 07 Series
Helical Parellel

Zero-B-Flex

Clamp Type

- One-piece metallic spring coupling
- Zero backlash
- Low torque
- High misalignment on parallel, angular and end float
- Material: Aluminum Alloy & Stainless Steel

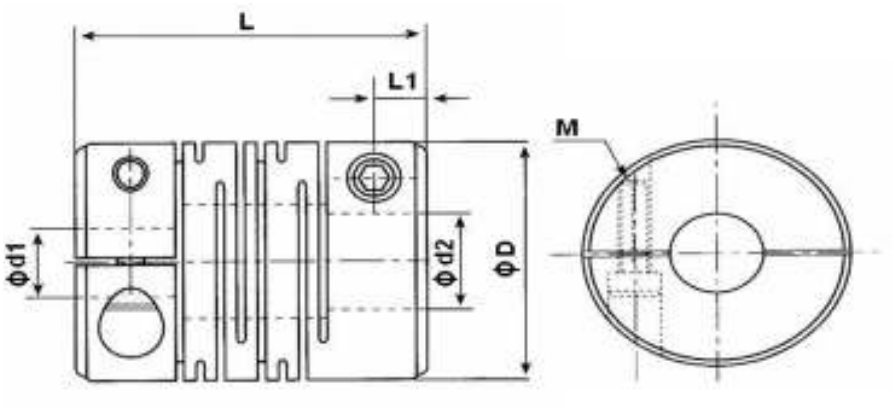
Aluminum Alloy

Stainless Steel (SS)

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-07HP-012-C-AL	0.5	1.0	10000	7.6x10 -8	34	0.1	1.5	+/- 0.3	4
MD-07HP-016-C-AL	0.8	1.6	9300	3.2x10 -7	46	0.1	1.5	+/- 0.3	8
MD-07HP-020-C-AL	1.1	2.2	7500	8.8x10 -6	118	0.1	1.5	+/- 0.3	18
MD-07HP-025-C-AL	1.4	2.8	6000	2.5x10 -6	167	0.15	1.5	+/- 0.35	32
MD-07HP-032-C-AL	2.8	5.6	4600	9.6x10 -6	228	0.15	1.5	+/- 0.35	66
MD-07HP-040-C-AL	6.3	12.6	3600	3.2x10 -5	346	0.2	1.5	+/- 0.35	138
MD-07HP-050-C-AL	11	22	3000	9.0x10 -5	580	0.2	1.5	+/- 0.35	272
MD-07HP-063-C-AL	22	44	2200	3.1x10 -4	843	0.2	1.5	+/- 0.35	530
MD-07HP-012-C-SS	0.8	1.6	10000	2.1x10 -7	62	0.1	1.5	+/- 0.3	14
MD-07HP-016-C-SS	1.1	2.2	9300	8.9x10 -7	83	0.1	1.5	+/- 0.3	26
MD-07HP-020-C-SS	1.6	3.2	7500	2.4x10 -6	246	0.1	1.5	+/- 0.3	48
MD-07HP-025-C-SS	2.2	4.4	6000	7.0x10-6	315	0.15	1.5	+/- 0.35	78
MD-07HP-032-C-SS	5.5	11.0	4600	2.6x10 -5	845	0.15	1.5	+/- 0.35	174
MD-07HP-040-C-SS	8.7	17.4	3600	8.9x10 -5	990	0.2	1.5	+/- 0.35	372
MD-07HP-050-C-SS	16	32.0	3000	2.7x10 -4	1380	0.2	1.5	+/- 0.35	760
MD-07HP-063-C-SS	38	76.0	2200	8.7x10 -4	1790	0.2	1.5	+/- 0.35	1410

Clamp Type



Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (Nm)
MD-07HP-012-C-AL	12	18.5	3 4 5	2.5	M2	0.5
MD-07HP-016-C-AL	16	23	4 5 6 6.35	3.25	M2.5	1.0
MD-07HP-020-C-AL	20	26	5 6 8 9.525	3.75	M2.5	1.0
MD-07HP-025-C-AL	25	31	8 9.525 10 11 12	4.25	M3	1.5
MD-07HP-032-C-AL	32	41	10 11 12 14	6	M4	2.5
MD-07HP-040-C-AL	40	56	10 11 12 14 15 16 18	8.5	M5	4.0
MD-07HP-050-C-AL	50	71	12 14 15 16 18 19	10.5	M6	8.0
MD-07HP-063-C-AL	63	90	14 15 16 18 19 24	13	M8	16.0
MD-07HP-012-C-SS	12	18.5	3 4 5	2.5	M2	0.5
MD-07HP-016-C-SS	16	23	4 5 6 6.35	3.25	M2.5	1.0
MD-07HP-020-C-SS	20	26	5 6 8 9.525	3.75	M2.5	1.0
MD-07HP-025-C-SS	25	31	8 9.525 10 11 12	4.25	M3	1.5
MD-07HP-032-C-SS	32	41	10 11 12 14	6	M4	2.5
MD-07HP-040-C-SS	40	56	10 11 12 14 15 16 18	8.5	M5	4.0
MD-07HP-050-C-SS	50	71	12 14 15 16 18 19	10.5	M6	8.0
MD-07HP-063-C-SS	63	90	14 15 16 18 19 24	13	M8	16.0

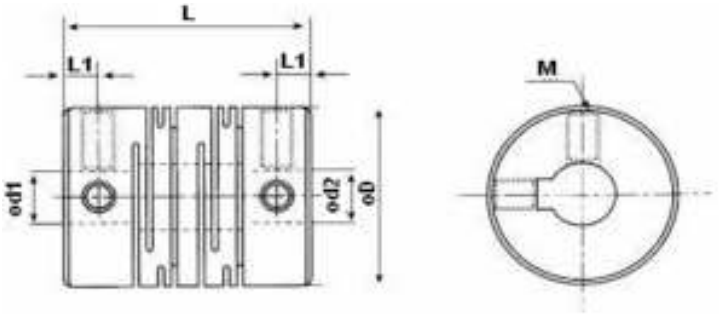
MD 07 Series
Helical Parellel

Zero-B-Flex

Keyway Type

- Ω One-piece metallic spring coupling
- Ω Zero backlash
- Ω Low torque
- Ω High misalignment on parallel, angular and end float
- Ω Material: Aluminum Alloy & Stainless Steel

Aluminum Alloy



Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-07HP-032-K-AL	2.8	5.6	4600	9.5x10 -6	270	0.15	1.5	+/- 0.3	62
MD-07HP-040-K-AL	6.3	12.6	3600	3.1x10 -5	330	0.15	1.5	+/- 0.3	134
MD-07HP-050-K-AL	11.0	22.0	3000	9.0x10 -5	570	0.20	1.5	+/- 0.3	274
MD-07HP-063K-AL	22.0	44.0	2200	3.0x10 -4	820	0.20	1.5	+/- 0.3	496
MD-07HP-032-K-SS	5.5	11.0	4600	2.5x10 -5	830	0.15	1.5	+/- 0.3	164
MD-07HP-040-K-SS	8.7	17.4	3600	8.3x10 -5	980	0.15	1.5	+/- 0.3	350
MD-07HP-050-K-SS	16.0	32.0	3000	2.6x10 -4	1380	0.20	1.5	+/- 0.3	740
MD-07HP-063-K-SS	38.0	76.0	2200	8.2x10 -4	1790	0.20	1.5	+/- 0.3	1320

Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (Nm)
MD-07HP-032-K-AL	32	41	10 12 14	6.0	M4	1.7
MD-07HP-040-K-AL	40	56	12 14 15 16 18	8.5	M5	4.0
MD-07HP-050-K-AL	50	71	14 15 16 18 19 20	10.5	M6	7.0
MD-07HP-063-K-AL	63	90	18 19 20 24 28 30	13.0	M8	15.0
MD-07HP-032-K-SS	32	41	10 12 14	6.0	M4	1.7
MD-07HP-040-K-SS	40	56	12 14 15 16 18	8.5	M5	4.0
MD-07HP-050-K-SS	50	71	14 15 16 18 19 20	10.5	M6	7.0
MD-07HP-063-K-SS	63	90	18 19 20 24 28 30	13.0	M8	15.0

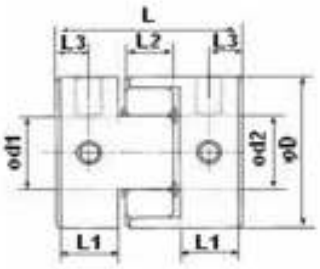
MD 08 Series

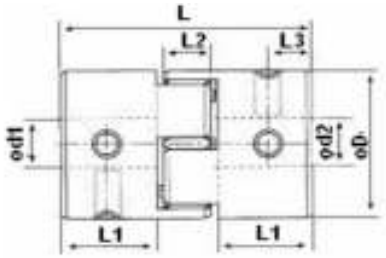
Jaw Miniature

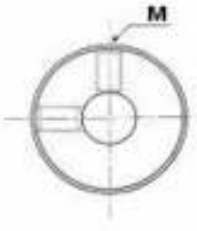
Zero-B-Flex

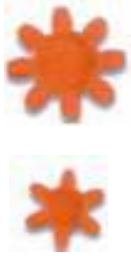
Setscrew Type

- High misalignment on parallel, angular and end float.
- Inserts: Come in two different shore hardness sleeves
- Reduce vibration
- Zero backlash
- Resistance to oil and electrical.
- Material: Aluminum Alloy Hubs









Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-08JM-014-S-AL	3.2	6.4	19000	5.9x10 -4	46	0.02	1	+ 0.6 - 0.0	26
MD-08JM-020-S-AL	5.0	10	17000	6.7x10 -4	55	0.02	1	+ 0.6 - 0.0	37
MD-08JM-030-S-AL	7.4	14.8	15000	8.5x10 -4	72	0.02	1	+ 0.6 - 0.0	46
MD-08JM-040S-S-AL	9.5	19	13000	9.4x10 -4	500	0.02	1	+ 0.8 - 0.0	140
MD-08JM-040-S-AL	9.5	19	13000	1.1x10 -3	550	0.02	1	+ 0.8 - 0.0	148
MD-08JM-055-S-AL	34	68	10500	4.4x10 -3	1500	0.02	1	+ 0.8 - 0.0	350
MD-08JM-065-S-AL	95	190	8300	9.0x10 -3	2800	0.02	1	+ 0.8 - 0.0	572
MD-08JM-080-S-AL	135	270	7000	1.8x10 -2	3500	0.02	1	+ 1.0 - 0.0	950
MD-08JM-095-S-AL	230	460	6000	2.0x10 -2	4600	0.02	1	+ 1.0 - 0.0	1800
MD-08JM-105-S-AL	380	760	5500	3.2x10 -2	5800	0.02	1	+ 1.0 - 0.0	2400

Dimensions

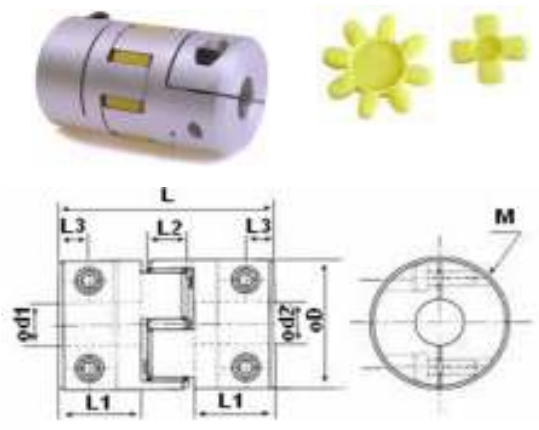
Model	D	L	L1	d1 & d2	L2	L3	Wrench Torque (Nm)	M
MD-08JM-014-S-AL	14	22	7	2 3 4 5 6 7	6	3.5	1.0	M3
MD-08JM-020-S-AL	20	30	10	4 5 6 7 8 10	8	5	1.3	M4
MD-08JM-030-S-AL	30	35	11	8 9.525 10 12 14 16	13	5	1.7	M4
MD-08JM-040S-S-AL	40	55	19.5	14 16 19 20 22 24	16	10	4.0	M5
MD-08JM-040-S-AL	40	66	25	14 16 18 19 20 22 24	16	10	4.0	M5
MD-08JM-055-S-AL	55	78	30	14 16 19 24 25 28	18	10	4.0	M5
MD-08JM-065-S-AL	65	90	35	19 20 24 28 30 35 38	20	15	15.0	M8
MD-08JM-080-S-AL	60	114	45	24 28 30 35 38 40 45	24	15	15.0	M8
MD-08JM-095-S-AL	95	126	50	30 35 38 40 45 50 55	26	20	15.0	M8
MD-08JM-105-S-AL	105	140	56	35 40 45 50 55 60	28	20	15.0	M8

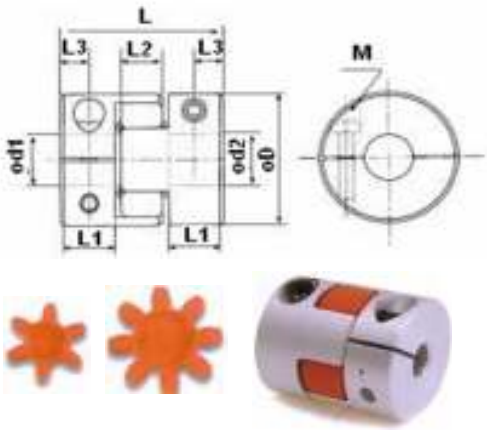
MD 08 Series
Jaw Miniature

Zero-B-Flex

Clamp Type

- Reduce vibration
- Zero backlash
- Material: Aluminum Alloy Hubs
- High misalignment on parallel, angular and end float.
- Resistance to oil and electrical.
- Inserts: Come in two different shore hardness sleeves





Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-08JM-014-C-AL	3.2	6.4	19000	5.9x10 -4	46	0.02	1	+ 0.6 - 0.0	26
MD-08JM-020-C-AL	5.0	10	17000	6.7x10 -4	55	0.02	1	+ 0.6 - 0.0	37
MD-08JM-030-C-AL	7.4	14.8	12000	8.5x10 -4	72	0.02	1	+ 0.6 - 0.0	50
MD-08JM-040S-C-AL	9.5	19	10000	9.4x10 -4	500	0.02	1	+ 0.8 - 0.0	150
MD-08JM-040-C-AL	9.5	19	10000	1.1x10 -3	550	0.02	1	+ 0.8 - 0.0	156
MD-08JM-055-C-AL	34	68	8000	4.4x10 -3	1500	0.02	1	+ 0.8 - 0.0	362
MD-08JM-065-C-AL	95	190	6000	9.0x10 -3	2800	0.02	1	+ 0.8 - 0.0	582
MD-08JM-080-C-AL	135	270	4600	1.8x10 -2	3500	0.02	1	+ 1.0 - 0.0	966
MD-08JM-095-C-AL	230	460	3800	2.0x10 -2	4600	0.02	1	+ 1.0 - 0.0	1820
MD-08JM-105-C-AL	380	760	3400	3.2x10 -2	5800	0.02	1	+ 1.0 - 0.0	2430

Dimensions

Model	D	L	L1	d1 & d2	L2	L3	Wrench Torque (Nm)	M
MD-08JM-014-C-AL	14	22	7	2 3 4 5 6 7	6	3.5	1.0	M2.5
MD-08JM-020-C-AL	20	30	10	4 5 6 7 8 10	8	5	1.3	M3
MD-08JM-030-C-AL	30	35	11	8 9.525 10 12 14 16	13	5	1.7	M4
MD-08JM-040S-C-AL	40	55	19.5	14 16 19 20 22 24	16	10	8.0	M6
MD-08JM-040-C-AL	40	66	25	14 16 18 19 20 22 24	16	10	8.0	M6
MD-08JM-055-C-AL	55	78	30	14 16 19 24 25 28	18	10.5	8.0	M6
MD-08JM-065-C-AL	65	90	35	19 20 24 28 30 35 38	20	11.5	15.0	M8
MD-08JM-080-C-AL	60	114	45	24 28 30 35 38 40 45	24	15.5	15.0	M8
MD-08JM-095-C-AL	95	126	50	30 35 38 40 45 50 55	26	18	25.0	M10
MD-08JM-105-C-AL	105	140	56	35 40 45 50 55 60	28	21	35.0	M12

MD 09 Series

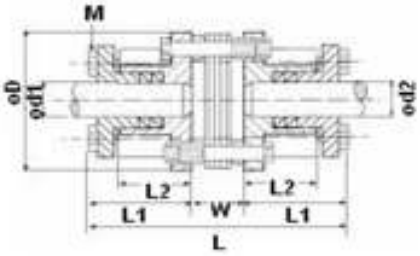
Disc Single & Disc Double

Zero-B-Flex

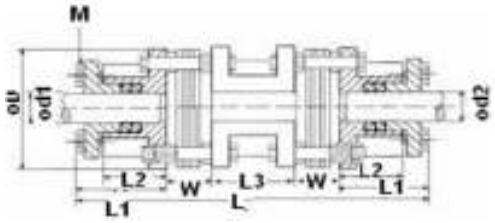
Locking Assembly Type

- Stainless Steel Disc Spring Coupling
- High torque
- Zero backlash
- High misalignment on angular and end float
- Material: Steel Hub & Stainless Steel Disc Plate

Disc Single



Disc Double



Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (nm/rad)	Misalignment		Mass (gm)
						Angular ° (deg)	End Float (mm)	
MD-09DS-068-L	55	110.0	4500	0.39x10 -3	31 x 10 -3	1	+/- 1.0	550
MD-09DS-082-L	80	160.0	4500	0.96x10 -3	89 x 10 -3	1	+/- 1.0	1100
MD-09DS-094-L	150	300	4500	1.85x10 -3	180x10 -3	1	+/- 1.0	1540
MD-09DS-104-L	220	440	4500	2.96x10 -3	265x10 -3	1	+/- 1.0	2310
MD-09DS-126-L	350	700	4500	7.1x10 -3	450x10 -3	1	+/- 1.0	3740
MD-09DS-144-L	500	1000	4500	14.3x10 -3	790x10 -3	1	+/- 1.0	5390
MD-09DD-068-L	55	110.0	4500	0.71x10 -3	15 x 10 -3	2	+/- 1.5	1078
MD-09DD-082-L	80	160.0	4500	1.85x10 -3	44 x 10 -3	2	+/- 1.5	1870
MD-09DD-094-L	150	300	4500	3.62x10 -3	90 x10 -3	2	+/- 1.5	2640
MD-09DD-104-L	220	440	4500	5.8 x10 -3	130x10 -3	2	+/- 1.5	4630
MD-09DD-126-L	350	700	4500	13.1x10 -3	220x10 -3	2	+/- 1.5	6380
MD-09DD-144-L	500	1000	4500	26.5x10 -3	380x10 -3	2	+/- 1.5	9460

Dimensions

Model	D	L	L1	L2	d1 & d2	M	Wrench Torque (Nm)	L3 (mm)	W
MD-09DS-068-L	68	90	41.5	26	11 12 14 15 16 18 19 20 22	M5 (x4)	4	-	7
MD-09DS-082-L	82	95	44	26	14 15 16 19 20 22 24 25 28 30	M6 (x4)	7	-	7
MD-09DS-094-L	94	110	51	29	19 20 22 24 28 30 35	M6 (x4)	7	-	8
MD-09DS-104-L	104	124	57	34	24 25 28 30 35 38 40	M6 (x6)	7	-	10
MD-09DS-126-L	126	152	70.5	42	30 35 38 40 42 45 48 50	M8 (x4)	15	-	11
MD-09DS-144-L	144	170	79	48	35 38 40 42 45 48 50 55 58	M8 (x6)	15	-	12
MD-09DD-068-LL	68	121	41.5	26	11 12 14 15 16 18 19 20 22	M5 (x4)	4	24	7
MD-09DD-082-L	82	128	44	26	14 15 16 19 20 22 24 25 28 30	M6 (x4)	7	26	7
MD-09DD-094-L	94	148	51	29	19 20 22 24 28 30 35	M6 (x4)	7	30	8
MD-09DD-104-L	104	164	57	34	24 25 28 30 35 38 40	M6 (x6)	7	30	10
MD-09DD-126-L	126	201	70.5	42	30 35 38 40 42 45 48 50	M8 (x4)	15	38	11
MD-09DD-144-L	144	228	79	48	35 38 40 42 45 48 50 55 58	M8 (x6)	15	46	12

MD 10 Series

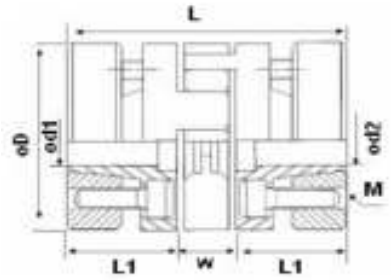
Jaw Miniature

Zero-B-Flex

Locking Assembly Type

- Reduce vibration
- Zero backlash
- High misalignment on parallel, angular and end float
- Material: Aluminum Alloy Hubs with locking assembly
- Inserts: Polyurethane sleeves

Aluminum Alloy



Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-10JM-030-L-AL	7.4	14.8	20000	8.7 x10 -4	510	0.02	1	+ 0.6 - 0.0	50
MD-10JM-040-L-AL	9.5	19	15000	1.12x10 -3	550	0.02	1	+ 0.8 - 0.0	120
MD-10JM-055-L-AL	34	68	13000	4.5 x10 -3	1510	0.02	1	+ 0.8 - 0.0	280
MD-10JM-065-L-AL	95	190	10500	9.1 x10 -3	2800	0.02	1	+ 0.8 - 0.0	450
MD-10JM-080-L-AL	135	270	8600	1.9 x10 -2	3600	0.02	1	+ 1.0 - 0.0	960
MD-10JM-095-L-AL	230	460	7500	2.2 x10 -2	4700	0.02	1	+ 1.0 - 0.0	2310
MD-10JM-105-L-AL	380	760	6000	3.3 x10 -2	5800	0.02	1	+ 1.0 - 0.0	3090

Dimensions

Model	D	L	L1	d1 & d2	W	M	Wrench Torque (Nm)
MD-10JM-030-L-AL	30	50	18.5	8 9.525 10 12 14	13	M3 (x 4)	1.3
MD-10JM-040-L-AL	40	66	25	11 12 14 16 19 20	16	M4 (x 6)	2.7
MD-10JM-055-L-AL	55	78	30	14 16 19 24 25 28	18	M5 (x 4)	6
MD-10JM-065-L-AL	65	90	35	19 20 24 28 30 35 38	20	M5 (x 8)	6
MD-10JM-080-L-AL	80	114	45	24 28 30 35 38 40 45	24	M6 (x 8)	10
MD-10JM-095-L-AL	95	126	50	30 35 38 40 45 50	26	M8 (x 4)	35
MD-10 JM-105-L-AL	105	140	56	35 40 45 50 55 60	28	M8 (x 4)	35

MD 11 Series

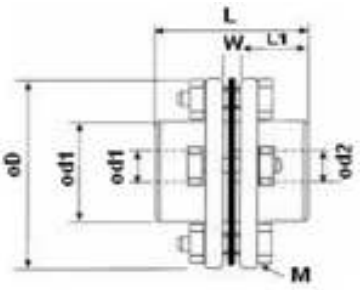
Disc Single & Disc Double

Zero-B-Flex

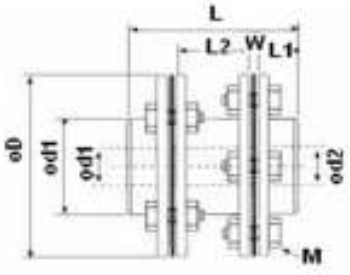
Keyway Type

- Stainless Steel Disc Spring Coupling
- High torque
- Zero backlash
- High misalignment on angular and end float
- Material: Steel Hub & Stainless Steel Disc Plate

Disc Single



Disc Double



Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-11DS-056-K	25	50	20000	0.1x 10 -3	15 x 10 -3	0.02	1	+/- 0.5	300
MD-11DS-068-K	55	110	15000	0.28x10 -3	28 x 10 -3	0.02	1	+/- 0.8	500
MD-11DS-082-K	80	160	14000	0.85x10 -3	81 x 10 -3	0.02	1	+/- 1.0	1000
MD-11DS-094-K	170	340	11000	1.5x 10 -3	165x10 -3	0.02	1	+/- 1.0	1400
MD-11DS-104-K	240	480	9800	2.4x 10 -3	240x10 -3	0.02	1	+/- 1.0	2100
MD-11DS-126-K	420	840	8000	6.3x 10 -3	410x10 -3	0.02	1	+/- 1.0	3400
MD-11DS-144-K	700	1400	6800	9.2x 10 -3	760x10 -3	0.02	1	+/- 1.0	4900
MD-11DD-056-K	25	50	15000	0.19x10 -3	7.5 x10 -3	0.04	1.5	+/- 1.0	500
MD-11DD-068-K	55	110	14000	0.54x10 -3	13 x 10 -3	0.04	1.5	+/- 1.5	900
MD-11DD-082-K	80	160	11000	1.6x 10 -3	39 x 10 -3	0.04	1.5	+/- 2.0	1700
MD-11DD-094-K	170	340	9500	2.8x 10 -3	78 x10 -3	0.04	1.5	+/- 2.0	2400
MD-11DD-104-K	240	480	8800	4.6x 10 -3	115x10 -3	0.04	1.5	+/- 2.0	3300
MD-11DD-126-K	420	840	6800	11.9x10 -3	200x10 -3	0.04	1.5	+/- 2.0	5800
MD-11DD-144-K	700	1400	6000	18.2x10 -3	350x10 -3	0.04	1.5	+/- 2.0	8600

Dimensions

Model	D	D1	L	L1	d1 & d2	M	L2 (mm)	W
MD-11DS-056-K	56	32	45	20	8 10 11 12 14 16 18 19 20	M5	-	5
MD-11DS-068-K	68	40	56	25	11 14 16 18 19 20 22 24 25	M6	-	6
MD-11DS-082-K	82	54	66	30	14 16 18 19 20 24 25 28 30 35	M6	-	6
MD-11DS-094-K	94	58	68	30	14 16 18 19 20 24 25 28 30 35 38	M8	-	8
MD-11DS-104-K	104	68	80	35	19 22 24 25 30 35 38 40 42	M8	-	10
MD-11DS-126-K	126	78	91	40	22 24 30 35 38 40 42 45 50	M10	-	11
MD-11DS-144-K	144	88	102	45	30 34 37 40 45 50 55 60	M12	-	12
MD-11DD-056-K	56	32	74	20	8 10 11 12 14 16 18 19 20	M5	24	5
MD-11DD-068-K	68	40	86	25	11 14 16 18 19 20 22 24 25	M6	24	6
MD-11DD-082-K	82	54	98	30	14 16 18 19 20 24 25 28 30 35	M6	26	6
MD-11DD-094-K	94	58	106	30	14 16 18 19 20 24 25 28 30 35 38	M8	30	8
MD-11DD-104-K	104	68	120	35	19 22 24 25 30 35 38 40 42	M8	30	10
MD-11DD-126-K	126	78	140	40	22 24 30 35 38 40 42 45 50	M10	38	11
MD-11DD-144-K	144	88	160	45	30 34 37 40 45 50 55 60	M12	46	12

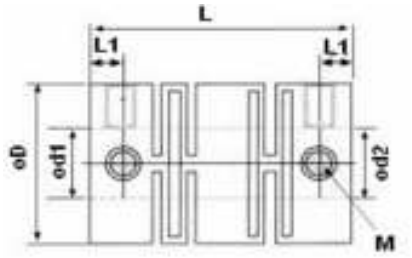
MD 12 Series

Encoder Miniature

Zero-B-Flex

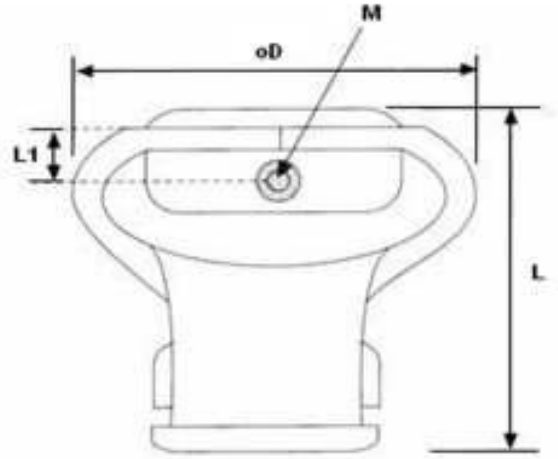
Setscrew Type

- Flexible Coupling
- Identical characteristics on both rotations
- Reduce vibration
- High misalignment on parallel, angular and end float
- Material: Aluminum Alloy , Fibre Glass & Polyester



Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed	Misalignment Angular ° (deg)	Mass (gm)
MD-12EM-013-S	0.6	1.2	6000	3	2.8
MD-12EM-015-S	0.8	1.6	6000	3	4
MD-12EM-015-S	0.8	1.6	6000	3	13



Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (Nm)
MD-12EM-013-S	13	22	4	3.2	M3	0.7
MD-12EM-015-S	15	22	6	3.2	M3	0.7
MD-12EM-015-S	25	32	4 6 8 10	3.2	M3	0.7

MD 13 Series
Rigid Coupling

Zero-B-Flex

Setscrew Type

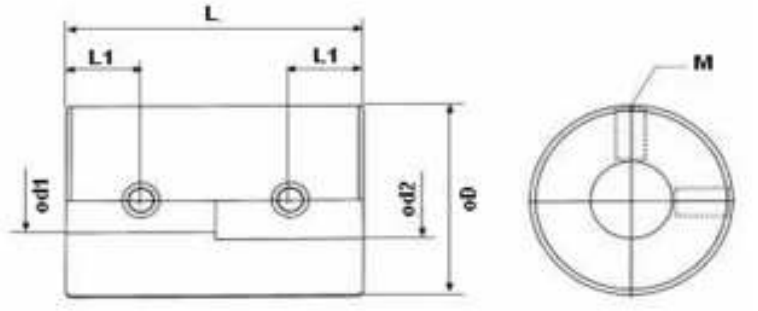
- Light weight
- Low inertia and highly responsive
- Material: Aluminum Alloy & Stainless Steel

Aluminum Alloy

Stainless Steel (SS)

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed (rpm)	Moment of Inertia (kg/m2)	Mass (gm)
MD-13RC-016-S-AL	0.3	0.6	23000	3.1 x 10 -7	11
MD-13RC-020-S-AL	0.5	1	18000	8.5 x 10 -7	20
MD-13RC-025-S-AL	1	2	14000	2.6 x 10 -6	39
MD-13RC-032-S-AL	2	4	10000	9.1 x 10 -6	71
MD-13RC-016-S-SS	0.3	0.6	23000	8.1 x 10 -7	28
MD-13RC-020-S-SS	0.5	1	18000	2.2 x 10 -6	54
MD-13RC-025-S-SS	1	2	14000	7.1 x 10 -6	100
MD-13RC-032-S-SS	2	4	10000	2.4 x 10 -5	190



Dimensions

Model	D	L	d1 & d2	L1	M	Wrench Torque (Nm)
MD-13RC-016-S-AL	16	24	3 4 5 6	6	M3	0.7
MD-13RC-020-S-AL	20	30	5 6 8 10	7	M3	0.7
MD-13RC-025-S-AL	25	36	8 10 11 12	9	M4	1.7
MD-13RC-032-S-AL	32	41	12 14 15 16	10	M4	1.7
MD-13RC-016-S-SS	16	24	3 4 5 6	6	M3	0.7
MD-13RC-020-S-SS	20	30	5 6 8 10	7	M3	0.7
MD-13RC-025-S-SS	25	36	8 10 11 12	9	M4	1.7
MD-13RC-032-S-SS	32	41	12 14 15 16	10	M4	1.7

MD 13 Series

Rigid Coupling

Zero-B-Flex

Clamp Type

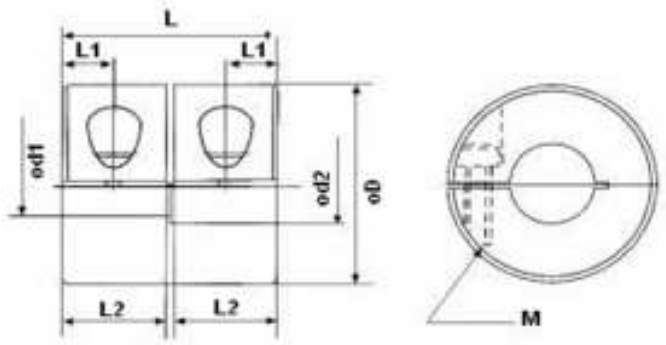
- Light weight
- Low inertia and highly responsive
- Material: Aluminum Alloy & Stainless Steel

Aluminum Alloy

Stainless Steel (SS)

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed (rpm)	Moment of Inertia (kg/m2)	Mass (gm)
MD-13RC-016-C-AL	0.3	0.6	9300	2.9 x 10 -7	8.2
MD-13RC-020-C-AL	0.5	1	7400	8.6 x 10 -7	14.5
MD-13RC-025-C-AL	1	2	6000	2.6 x 10 -6	28
MD-13RC-032-C-AL	2	4	4600	7.0 x 10 -6	50
MD-13RC-016-C-SS	0.3	0.6	9300	7.9 x 10 -7	21
MD-13RC-020-C-SS	0.5	1	7400	2.3 x 10 -6	40
MD-13RC-025-C-SS	1	2	6000	7.2 x 10 -6	79
MD-13RC-032-C-SS	2	4	4600	2.4 x 10 -5	158



Dimensions

Model	D	L	L1	d1 & d2	L2	M	Wrench Torque (Nm)
MD-13RC-016-C-AL	16	16	3.75	5 6	7.5	M2.5	1.0
MD-13RC-020-C-AL	20	20	4.75	6 8	9.5	M2.5	1.0
MD-13RC-025-C-AL	25	25	6.00	8 10	12.0	M3	1.5
MD-13RC-032-C-AL	32	32	7.75	10 12 14	15.5	M4	2.5
MD-13RC-016-C-SS	16	16	3.75	5 6	7.5	M2.5	1.0
MD-13RC-020-C-SS	20	20	4.75	6 8	9.5	M2.5	1.0
MD-13RC-025-C-SS	25	25	6.00	8 10	12.0	M3	1.5
MD-13RC-032-C-SS	32	32	7.75	10 11 12 14	15.5	M4	2.5

MD 14 Series

Bellow

Zero-B-Flex

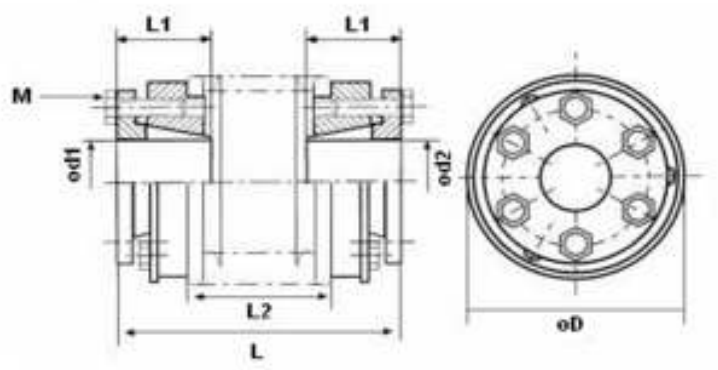
Locking Assembly Type

- Identical characteristics on both rotations
- High torque
- Zero backlash
- High misalignment on parallel, angular and end float
- Material: Stainless Steel

Stainless Steel (SS)

Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed (rpm)	Moment of Inertia (kg/m2)	Static Torsional (N.m/rad)	Misalignment			Mass (gm)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-14BL-040-L-SS	13	26.0	8000	9 x 10 -5	1.5 x 10 -4	0.15	2	1.0	210
MD-14BL-055-L-SS	28	56	6000	2.9 x 10 -4	3.5 x 10 -4	0.20	2	1.5	400
MD-14BL-065-L-SS	56	112	5000	4.6 x 10 -4	6.8 x 10 -4	0.25	2	1.5	790
MD-14BL-082-L-SS	120	240	4500	1.1 x 10 -3	1.2 x 10 -5	0.28	2	1.5	1210



Dimensions

Model	D	L	d1 & d2	L1	L2	M	Wrench Torque (Nm)
MD-14BL-040-L-SS	40	55	10 11 12 14 15 16	19	24	M4	3
MD-14BL-055-L-SS	55	65	11 12 14 16 19 20	22	31	M4	6
MD-14BL-065-L-SS	65	76	14 16 19 24 25 28	27	37	M5	8
MD-14BL-082-L-SS	82	88	19 20 24 28 30 35 38	32	41	M5	10

MD 15 Series

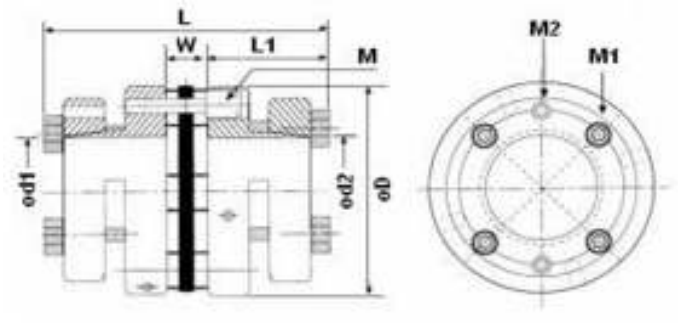
Disc Single & Disc Double

Zero-B-Flex

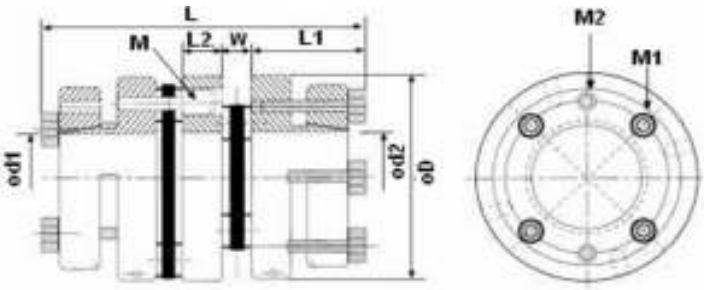
Locking Assembly Type

- High misalignment on angular and end float
- High torque
- Material: Steel Hub & Stainless Steel Disc Plate

Disc Single



Disc Double

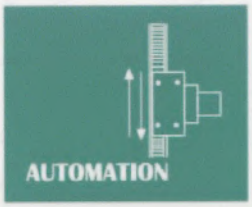


Technical

Model	Rated Torque (Nm)	Max. Torque (Nm)	Max Speed rpm	Moment of Inertia (kg/m2)	Static Torsional (Nm/rad)	Misalignment			Mass (kg)
						Parallel (mm)	Angular ° (deg)	End Float (mm)	
MD-15DS-070-L	70	140	17000	0.65X10 -3	58 x 10 -3	0.02	0.5	+/- 0.5	0.95
MD-15DS-080-L	125	250	16000	1.0 x 10 -3	62 x 10 -3	0.02	0.5	+/- 0.5	1.24
MD-15DS-090-L	180	360	14000	2.0 x 10 -3	140x10 -3	0.02	0.5	+/- 0.5	1.65
MD-15DS-100-L	280	560	12000	2.95x10 -3	160x10 -3	0.02	0.5	+/- 0.5	1.80
MD-15DD-070-L	70	140	13000	0.81x10 -3	30 x 10 -3	0.02	1	+/- 1.0	1.15
MD-15DD-080-L	125	250	11000	1.32x10 -3	32 x 10 -3	0.02	1	+/- 1.0	1.58
MD-15DD-090-L	180	360	10000	2.56x10 -3	68 x 10 -3	0.02	1	+/- 1.0	1.98
MD-15DD-100-L	280	560	8000	3.68x10 -3	79 x 10 -3	0.02	1	+/- 1.0	2.26

Dimensions

Model	D	L	L1	d1 & d2	M	M1	M2	W	L2
MD-15DS-070-L	70	65	29	18 19 20 22 24 25 28 30 32 35	M6	M6 (x4)	M6 (x2)	7	-
MD-15DS-080-L	80	70	31	18 19 20 22 24 25 28 30 32 35	M8	M6 (x4)	M6 (x2)	8	-
MD-15DS-090-L	90	70	31	28 30 32 35 38 40 42 45 48	M8	M6 (x6)	M6 (x3)	8	-
MD-15DS-100-L	100	70	31	32 35 38 40 42 45 48 50 55 60	M8	M6 (x6)	M6 (x3)	8	-
MD-15DD-070-L	70	80	29	18 19 20 22 24 25 28 30 32 35	M6	M6 (x4)	M6 (x2)	7	8
MD-15DD-080-L	80	88	31	18 19 20 22 24 25 28 30 32 35	M8	M6 (x4)	M6 (x2)	8	10
MD-15DD-090-L	90	88	31	28 30 32 35 38 40 42 45 48	M8	M6 (x6)	M6 (x3)	8	10
MD-15DD-100-L	100	88	31	32 35 38 40 42 45 48 50 55 60	M8	M6 (x6)	M6 (x3)	8	10



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