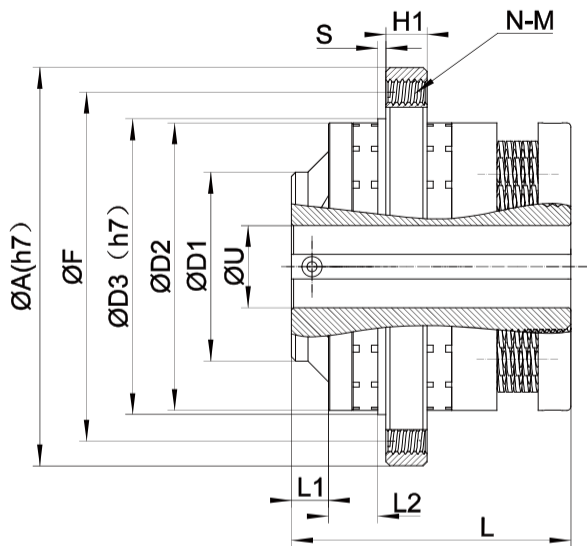


MFF 扭矩保持器

TYPE MFF slipping clutch

MFF 轴-法兰连接

Shaft-to-ring connection



MFF70-MFF240



MFF 扭矩保持器参数表 Parameter of MFF slipping clutch

型号 TYPE	扭矩范围					惯性 (10 ³ kgm ²)	重量 (Kg)	极限转速 (Rpm)
	X	L	M	H	N			
MFF70	0.6-15	1-20	4-30	10-45	15-70	0.039	1.1	Speed and torque must adhere to strict technical ratio requirements. For more details, please contact Mishkin
MFF100	3-37	5-55	15-90	20-130	30-170	2.156	2.6	
MFF130	30-120	40-200	45-290	60-450	80-550	9.882	3.4	
MFF160	40-220	50-350	110-550	120-820	150-1000	22.95	9.8	
MFF190	60-400	100-700	150-1000	160-1600	300-2100	65.088	19.5	
MFF240	100-800	200-1400	300-2000	400-3100	1000-4233	155.66	30.2	

MFF 扭矩保持器主要尺寸 Dimension of MFF slipping clutch

尺寸：(mm)
Dimensions in mm

型号 TYPE	φ A	φ F	φ D3	φ D2	φ D1	φ Umax	S	H1	L1	L2	L	N-M
MFF70	97	85	72	70	47	20	2	10	9	12	68	6-M5
MFF100	130	116	102	100	71	32	2	15	10	13	88	6-M6
MFF130	163	148	132	130	104	55	3	19	12	14	98	8-M8
MFF160	198	180	162	160	124	70	3	22	13	17	106	8-M10
MFF190	246	220	192	190	140	85	4	25	15	20	130	8-M12
MFF240	296	270	244	240	176	100	5	28	25	36	180	8-M16

MFF 扭矩保持器特点

Characteristics of MFF slipping clutch

- | | |
|---------------------|---|
| ①：摩擦片使用精细化工材料，使用寿命长 | ①：Using special fine chemical fibers for the friction facings, longer life can be expected. |
| ②：扭矩变化小，可顺畅的传动打滑扭矩 | ②：Smoothly transmits slipping torque due to the small torque fluctuations. |
| ③：高频率反复打滑也可稳定的传递扭矩 | ③：high-frequency, repeated slipping torque, stable torque is transmitted consistently |
| ④：还可以安装联轴器 | ④：Coupling type is also available. |

MFF 常用行业

Applicable use

- | | |
|--------|----------------|
| ①：堆垛 | ①：Accumulation |
| ②：刹车制动 | ②：Braking |
| ③：拖动 | ③：Dragging |

订货描述：
Order form:

规格与型号	扭矩范围	U-成品孔径	A型国标键槽
Size/Type	Torque range(N.M)	Finish bore(H7)	Key way 6(JS9)
MFF70	L	Y20	A6

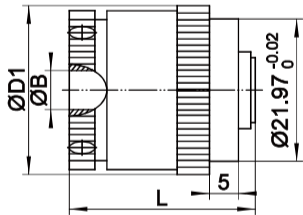
MFF1.0 扭矩保持器

TYPE MFF1.0 slipping clutch

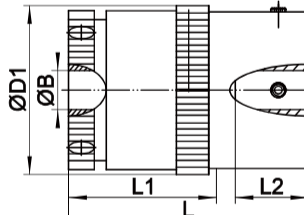
MFF1.0 轴-法兰, 轴-轴连接

Shaft-to-ring connection Shaft-to-shaft connection

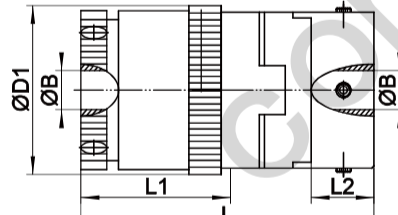
MFF1.0- 安装类型:



MFF1.0-A Type: Shaft-to-Flange Connection
Connects the shaft to transmission components such as timing pulleys, sprockets, gears, etc.



MFF1.0-B Type: Shaft-to-Shaft Connection
Connects shaft to shaft, with one side connected to the drive unit and the other side capable of mounting chucks or other passive tools.

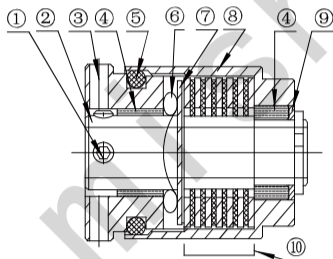


MFF1.0-C Type: Shaft-to-Shaft Connection
Connects shaft to shaft, with an elastic coupling added to the passive end, suitable for applications requiring axial misalignment compensation.

- Material and Specifications: Housing Material: NCP surface-treated aluminum alloy. Internal Hub Material: Copper.
- Maximum Sliding Speed: 1000 min⁻¹. Coupling Torque Backlash: Less than 2°.
- Ordering Information: Example: MFF1.0-00-A-6mm (Explanation: MFF1.0-model, 00-specification code, A-connection type, 6-6mm bore)
- For B and C types, there are two bore sizes available. For more details, please contact us.

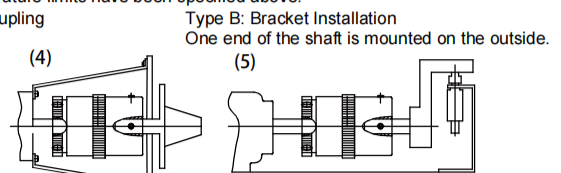
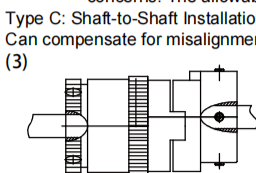
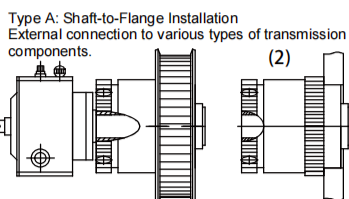
MFF 扭矩保持器主要尺寸 Dimension of MFF slipping clutch

型号 TYPE MFF1.0	连接 方式	摩擦片 数量	扭矩 范围 (N. CM)	L	L1	L2	内孔ØB (+0.03)	固定螺钉	重量 (g)
00	A	2	2.4-53.8	26.4	-	-	6	3xM3	37
01	A	2	2.4-53.8	26.4	-	-	8	2X90°	37
02	A	6	7.8-132.4	32.4	-	-	6	3xM3	48
03	A	6	7.8-132.4	32.4	-	-	8	2X90°	48
04	B	2	2.4-53.8	36	25	9	6	3xM3 2X90°	50
05	B	2	2.4-53.8	36	25	9	8	3xM3 2X90°	50
06	B	6	7.8-132.4	42.5	31	9	6	4xM4 2X90°	61
07	B	6	7.8-132.4	42.5	31	9	8	4xM4 2X90°	61
08	C	2	2.4-53.8	46.5	25	8.6	6	3xM3 2X90°	57
09	C	2	2.4-53.8	46.5	25	8.6	8	3xM3 2X90°	57
10	C	6	7.8-132.4	53.4	31	8.6	6	4xM4 2X90°	83
11	C	6	7.8-132.4	53.4	31	8.6	8	4xM4 2X90°	83



- ①: 固定顶丝
- ②: 通孔衬套
- ③: 扭力调整环
- ④: 烧结轴承
- ⑤: O型圈
- ⑥: 弹簧
- ⑦: 压板
- ⑧: 外壳
- ⑨: 挡圈
- ⑩: 离合器盘

注意: 固定螺钉如果太松会损坏调整环。3/4~1圈已足够。



- (1): Bonding a Timing Pulley: The drive shaft can be used as a bearing.
- (2): Permanent Brake Installation: Can be installed on a sleeve as a permanent brake and bearing.

- (3): Connecting Electric Motor and Gearbox: Includes coupling to accommodate axial displacement.

- (4): Multi-Turn Potentiometer Shaft: Distributed with a sliding clutch to prevent excessive speed reduction.
- (5): Lever Protection: Use a sliding clutch to protect the lever from damage.

Torque Range with 2 Friction Plates: 2.4 N·cm ~ 53.8 N·cm. Power loss at 20°C ambient temperature is 1 watt.

Torque Range with 6 Friction Plates: 7.8 N·cm ~ 132.4 N·cm. Power loss at 20°C ambient temperature is 8.6 watts.

Maximum Surface Operating Temperature: 80°C for all sizes.

Adjustment Ring: Secured to the external body with screws and used to adjust torque. This ring acts on the clutch or friction disc through a disc spring.

Bearings: Two sintered bearing bushings serve as bearing sleeves for internal components.

Sealing: An O-ring seals the hub, providing dust protection and ensuring the adjustment ring stays securely in place through friction.

Power Connection: Can be connected to either the hub or the sleeve.

Depending on the specific application, the friction clutch can function as a torque limiter, overrunning clutch, or brake. The generated heat is primarily due to sliding torque and operational torque, which can be calculated using the following formula:

$$\text{滑动 (min}^{-1}\text{)} \times \text{扭矩 (Ncm)} = \text{热量损耗 (瓦)}$$

955

The modular design principle used in the sliding clutch allows for various designs and potential connection components, such as special flanges and other parts. Refer to the drawings for more details.

Since the connection components (e.g., shafts, gears) aid in heat dissipation, it is important to calculate the effective surface temperature under adverse operating conditions if there are any concerns. The allowable temperature limits have been specified above.