

Roller type torque limiter

(High wear-resistant roller torque limiter) Torque up to 5000 Nm, opening 110 mm

BMF



BMOOM
Torque Limiter

Shanghai Bmoom Electromechanical Co.,ltd
上海宝牧机电设备有限公司

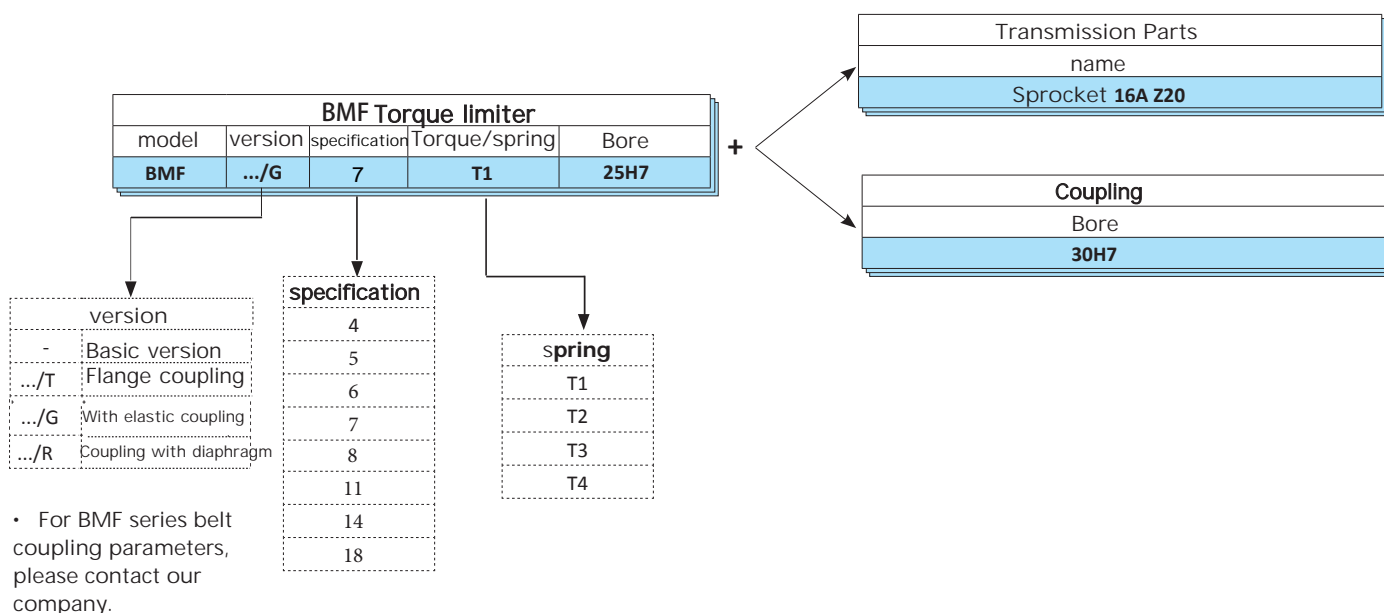
BMF – Roller Torque Limiter: Description



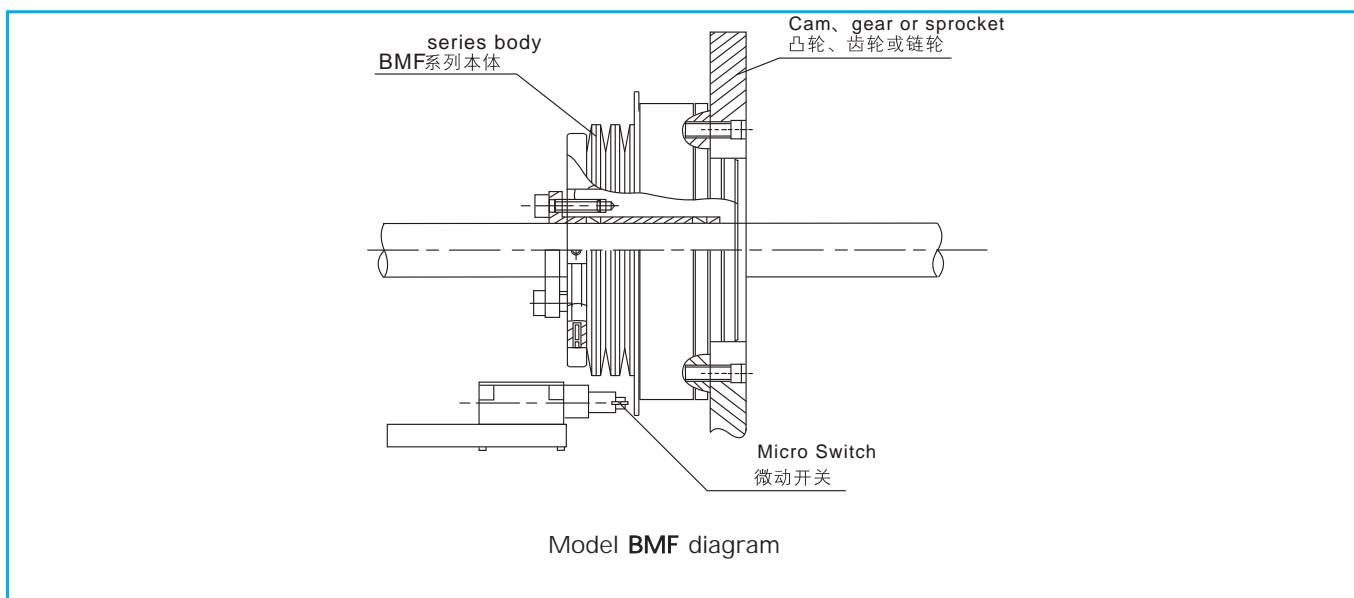
- Roller drive.
- This specification belongs to the super wear-resistant limiter, which is suitable for the working conditions that require frequent disengagement.
- It can be re-engaged with a single point reset or 360° equidistant 30°, 45°, 60°, etc.
- The transmission can be disconnected by electromechanical switch/proximity switch.
- Compared with the electronic system, the device can directly intervene, and the response ability is improved. No maintenance, long service life and high stability.
- Suitable for working in humid and oily environment.
- On demand
- ▲ Equipped with a complete set of transmission gears, all turned and installed (sprockets, pulleys, gear pairs).
- For low intervention torques, coil springs can be used.
- Connect through openings and keyways or tents tight sleeves.
- A half coupling can be added to realize the transmission between the shaft and the shaft (for this specification, if you need to add the coupling parameters, please contact our company).

The torque limiter uses rollers to achieve motion transmission, and when the set torque is reached, the overload slips. At the same time, it can be equipped with a proximity switch or a mechanical switch to detect the overload displacement and output an electrical signal. It is suitable for use in environments that require frequent disengagement, such as automatic screwing machines, capping machines, etc.

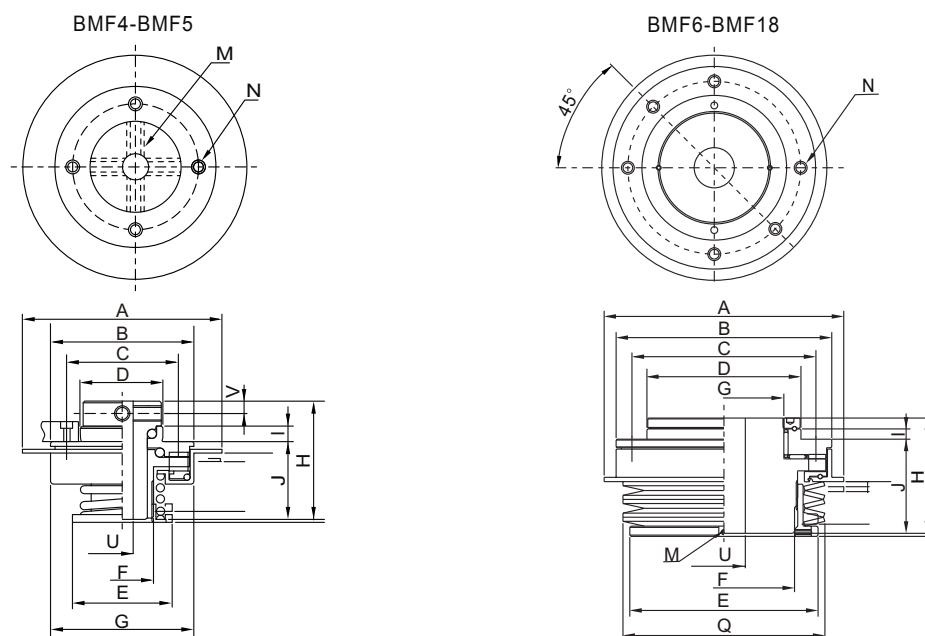
Order example



Assembly example



BMF Roller type torque limiter: technical data



Dimensions

specification	A	B	C	U H7(Bore)	D	E	F	G	H	I	J	M	N	Q	S	V
				maximum												
4	64	46	36	12	26	32	M20	46	38	4.7	25	M5x4	M4x4	-	7	4
5	82	63	50	20	35	45	M30	63	50	4.7	34	M6x4	M4x4	-	9	6
6	88	88	75	30	60	58	M40	M40	60	5	48	M5x2	M6x6	-	12.5	-
7	128	113	95	40	75	88	M55	M52	70	6.6	55	M5x2	M6x6	102	16.5	-
8	164	138	120	52	100	108	M75	M72	82	7.6	65	M5x2	M8x6	130	16.5	-
11	198	170	148	68	120	134	M96	M90	95	9.6	75	M5x2	M10x6	160	27	-
14	236	206	180	90	150	158	M120	M120	105	10.4	85	M6x2	M12x6	186	27	-
18	280	252	215	110	180	220	M165	M140	135	12	110	M6x2	M16x6	236	50	-

Technical details

specification	Torque[Nm]				stroke (mm)	inertia (Kg.m ²)	Maximum speed (Rpm)	weight (Kg)
	T1	T2	T3	T4				
4	0.3-0.7	0.4-1	1-3	1.5-4.5	1.2	0.00005	2000	0.25
5	0.8-3	1.5-6	2-10	4-18	1.2	0.00024	1600	0.50
6	2-7	3-10	10-30	15-50	1.6	0.0013	800	1.5
7	22-70	40-120	80-250	120-400	2.0	0.0048	600	3.4
8	50-120	70-200	120-400	200-600	2.0	0.015	400	6.2
11	80-250	120-350	220-850	350-1200	2.5	0.035	300	11.4
14	110-300	150-450	420-1200	600-1800	2.8	0.085	250	20
18	400-1300	800-1800	1500-3000	3000-5000	3.9	0.3	180	42

Description

- If it is not required, the keyway is produced in accordance with "the national standard".
- Assembly tolerance can be processed according to requirements.
- The weight is related to how big the inner hole is.
- Can be equipped with micro mechanical switch or proximity switch.