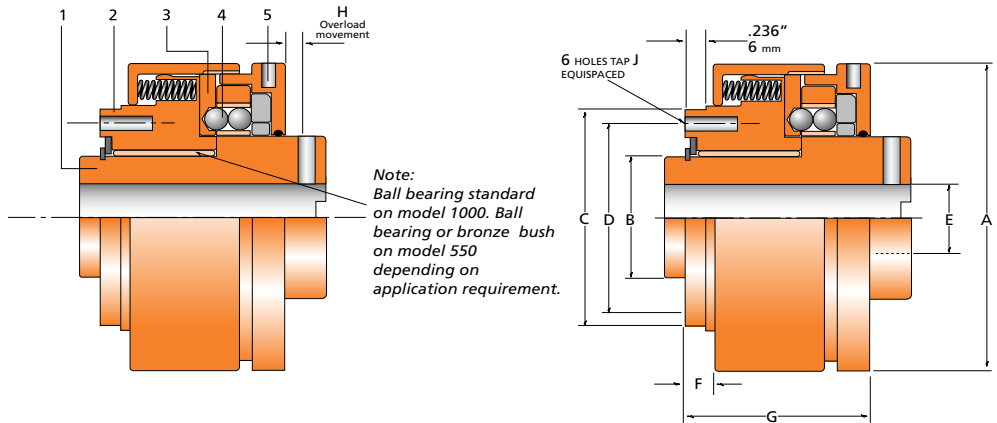


Brunel Torque Limiting Clutches

Type JBB - Automatic Reset

Release Torque: 50 to 1000 lb ft, 70 to 1356Nm



Technical Features

- Instant release at pre-set torque
- Smooth hold-out for one revolution
- Means for motor switch-off
- Automatic self-engagement on restart without loss of phasing
- Also available fitted with pulley (JBP)
- Rigid Coupling (JBR)

Model	Release Torque		① Max Speed rpm	Dimensions in mm and inches										Weight kg lb
	Min Nm lb ft	Max Nm lb ft		A	B	C	D	E Max	E Min	F	G	H	J	
JBB6	68	745	500	145	67	106f7	95	44	19	15	100	3		8
	50	550		5.70	2.63	4.173	3.74	1.75	0.75	0.59	3.93	0.12	5/16-18	17.6
JBB7	338	1356	500	205	85	142f7	125	57	32	20	150	4		25
	250	1000		8.07	3.34	5.591	4.92	2.25	1.25	0.78	5.9	0.16	7/16-14	55

Normal Running

The drive is transmitted between the hub flange 1 and the drive flange 2 by the balls 4, spring-loaded into the pockets on the ball detent ring 3 secured by dowels.

Disengagement

On overload, the balls are displaced axially through the hub flange, further compressing the springs. Once out of their pockets, the balls roll on the face of the hub flange for one revolution before re-engaging and synchronizing the drive.

Torque Adjustment

The release torque is set by tightening nut 5 thus increasing the spring pressure. After setting, the nut is locked by a set screw.

Installation

Clutches can be supplied pilot bored or finish bored and keywayed. The hub may be fitted to either shaft and should be axially constrained against a shoulder to resist the resetting force and locked by means of a set screw onto the shaft key. The drive flange may be connected to a flexible coupling or can carry a sprocket or pulley.

Application

This type of protection is ideally suited to drives where it is essential to restart in the correct sequence and where access for manual resetting is not available.

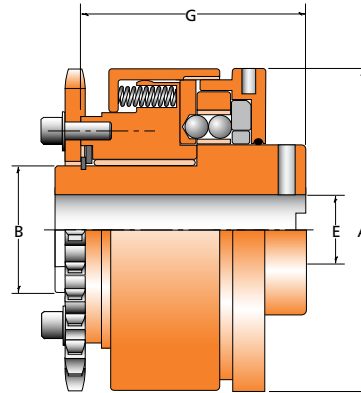
① Applicable to all variants.

Note: Type JBB clutches should always be used with a limit switch to bring the drive to rest within a few revolutions thus preventing possible damage by continual releasing and resetting.

Brunel Torque Limiting Clutches

Type JBS

Type JBB combined with chainwheel



Ball bearing standard on Model JBS7. Ball bearing or bronze bush on Model JBS6 depending on application requirement.

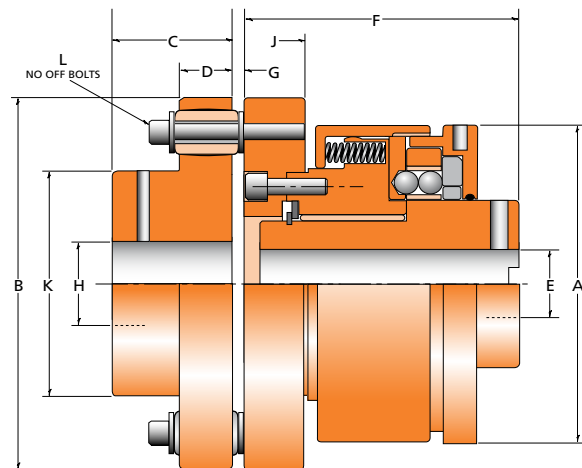
Duplex and Triplex sprockets will usually be supplied bushed to run on customer's shaft for additional support.

For sprockets smaller than listed, an adapter is used. Details on request.

Model	Release Torque		Dimensions in mm and inches					Smallest standard sprocket (number of teeth)				
	Min. Nm lb ft	Max. Nm lb ft	A	B	E Max	E Min	G	3/8" pitch	1/2" pitch	5/8" pitch	3/4" pitch	1" pitch
JBS6	68	745	145	67	44	19	85	40	31	26	22	18
	50	550	5.70	2.63	1.75	0.75	3.34					
JBS7	338	1356	205	80	57	32	130	51	40	32	28	22
	250	1000	8.07	3.14	2.25	1.25	5.11					

Type JBF

Type JBB combined with Brunel Eflex flexible coupling



Model	Release Torque		Dimensions in mm and inches													Weight Kg lb
	Min. Nm lb ft	Max. Nm lb ft	A	B	C	D	E Max	E Min	F	G	H Max	H Min	J	K	L	
JBF6	68	745	145	145	40	25	44	19	105	5	58	16	22	80	4	23
	50	550	5.70	5.70	1.57	0.98	1.75	0.75	4.13	0.19	2.28	0.63	0.87	3.15		51
JBF7	338	1356	205	195	65	30	57	32	155	5	90	32	25	120	6	40
	250	1000	8.07	7.67	2.56	1.18	2.25	1.25	6.10	0.19	3.54	1.26	1.0	4.72		88

Consult factory for special application