

# RSXM



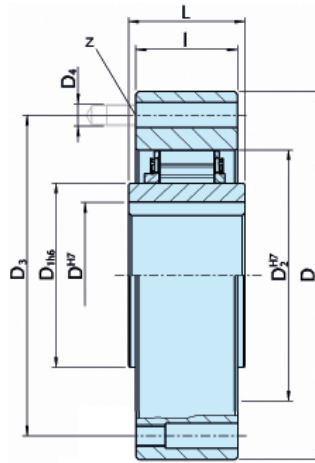
## TYPE



The series RSXM completes the small to medium backstop range, which commenced with the highly successful RSCI programme. Type RSXM is a centrifugal lift off sprag type freewheel with the inner race rotating. Only the inner race is designed for freewheeling. It is a non self-supported type. Bearings must be provided to ensure concentricity of the inner and outer races and support axial and radial loads, as shown overleaf. Concentricity and run-out limits must be observed.

The RSXM type accepts all types of lubricant currently used in power transmission equipment. It is possible to mount these freewheels directly in gear-boxes without separate lubrication. An oil mist is generally sufficient. Grease lubrication may be acceptable if the unit works mostly in overrunning condition, as on E-motors. When used as a backstop, it must be checked that the overrunning speed will not go below the minimum speed given in the characteristic table.

RSXM



Type	Bore dia. d <sup>H7</sup> (mm)	Torque T <sub>KN</sub> <sup>1)</sup> (Nm)	Overrunning speeds			D <sup>5)</sup> (mm)	D <sub>1h6</sub> (mm)	D <sub>2</sub> <sup>H7</sup> (mm)	D <sub>3</sub> (mm)	D <sub>4</sub> (mm)	z (nb)	L (mm)	l (mm)	l <sub>1</sub> (mm)	t <sub>min</sub> (mm)	d <sub>min</sub> (mm)	Weight (kg)
			n <sub>max</sub> <sup>2)</sup> (min <sup>-1</sup> )	n <sub>min</sub> <sup>3)</sup> (min <sup>-1</sup> )	n <sub>imax</sub> <sup>4)</sup> (min <sup>-1</sup> )												
31	20	100	340	820	20000	85	31	55	70	M6	6	24	25	17	1	41	0.75
38	20.25	135	320	770	18500	90	38	62	75	M6	6	24	25	17	1	50	0.95
46	25.30	425	300	720	13500	95	46	70	82	M6	6	35	35	25	1	53	1.4
51	30.35	525	220	525	12500	105	51	75	90	M6	6	35	35	25	1	62	1.8
56	35.40	625	210	500	11500	110	56	80	96	M6	8	35	35	25	1	70	1.8
61	35.40	420	265	640	14000	120	61	85	105	M8	6	25	27	17	2	73	1.8
66	35.40,45	850	200	480	10000	132	66	90	115	M8	8	35	35	25	1	78	2.7
76	40.45,50	1100	190	460	9000	140	76	100	125	M8	8	35	35	25	1	90	3.1
86	45.50	1450	180	440	8000	150	86	110	132	M8	8	40	40	25	1	100	4.2
101	45.55,60,70	1950	175	420	6500	175	101	125	155	M10	8	50	50	25	1	117	7.3

1) T<sub>max</sub> = 2 × T<sub>KN</sub> | 2) Inner race overruns

NOTES

- 1) T<sub>max</sub> = 2 × T<sub>KN</sub>  
» Refer to Selection page 10 to 13
- 2) This maximum allowable torque transmission speed n<sub>max</sub> must not be exceeded when transmitting torque.
- 3) This minimum allowable overrunning speed n<sub>imin</sub> should not be reduced under continuous operation. Possible reduction of this minimum speed in request.
- 4) Inner race overruns.  
Keyway to DIN 6885.1
- 5) Tolerance +1
- » Refer to mounting and maintenance instructions page 16 to 19.

Other bore diameters on request.

MOUNTING EXAMPLE

