

Centrifugally Lift Off Sprags Freewheels

RSCI 20-130



TYPE



Type RSCI 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.

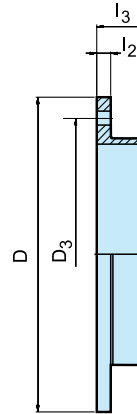
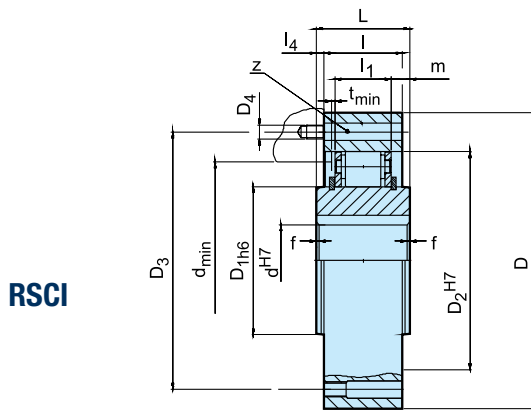
Bearings must be provided to ensure concentricity of the inner and outer races and support axial and radial loads, as shown overleaf. Concentricity and run-out limits must be observed. The RSCI type accepts all types of lubricant currently used in power transmission equipment.

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 characteristics table. Please refer to page 74 (RSCI 180–300) for further information.

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F8

Type	Size	Speeds										Number										Weight	
		d^{H7} [mm]	$T_{KN}^{1)}$ [Nm]	$n_{max}^{2)}$ [min ⁻¹]	$n_{min}^{3)}$ [min ⁻¹]	$n_{imax}^{4)}$ [min ⁻¹]	$D^{5)}$ [mm]	D_{1h6} [mm]	D_2^{H7} [mm]	D_3 [mm]	D_4 [mm]	z	L [mm]	l [mm]	l_1 [mm]	l_4 [mm]	$f \times 45^\circ$ [mm]	d_{min} [mm]	m [mm]	t_{min} [mm]	l_2 [mm]	l_3 [mm]	RSCI [kg]
RSCI	20	212	315	750	15000	90	36	66	78	M6	6	35	35	25	0	0,8	52	5	1	8	16	1,5	0,3
	25	319	300	725	14000	95	40	70	82	M6	6	35	35	25	0	1,0	56	5	1	8	16	1,6	0,4
	30	375	290	700	11000	100	45	75	87	M6	6	35	35	25	0	1,5	62	5	1	8	16	1,8	0,4
	35	550	280	670	11000	110	50	80	96	M6	8	35	35	25	0	1,5	66	5	1	8	16	2,1	0,5
	40	800	260	630	8000	125	60	90	108	M8	8	35	35	25	0	1,5	76	5	1	10	21	2,7	0,7
	45	912	255	610	7000	130	65	95	112	M8	8	35	35	25	0	1,5	82	5	1	10	21	2,9	0,9
	50	1400	235	560	6000	150	80	110	132	M8	8	40	40	25	0	1,5	100	7,5	1	10	21	4,3	1
	60	2350	210	510	6000	175	85	125	155	M10	8	60	50	36	5	2,0	110	12	2	12	35	6,5	1,8
	70	3050	195	470	4000	190	100	140	165	M10	12	60	50	36	5	2,0	120	12	2	12	35	8,6	1,9
	80	4500	180	440	4000	210	120	160	185	M10	12	70	60	36	5	2,0	140	17	3	12	35	12,5	2,6
	80M	5800	155	375	4000	210	120	160	185	M10	12	70	60	46	5	2,0	140	12	2	12	35	13,1	2,6
	90	5600	170	410	3000	230	140	180	206	M12	12	80	70	36	5	2,5	165	22	3	12	35	17,4	3,0
	90M	8700	145	350	3000	245	140	180	206	M12	12	80	70	46	5	2,5	160	17	2	12	35	18,3	3,0
	100	10500	145	355	3000	290	140	210	258	M16	12	90	80	52,6	5	2,5	180	18,6	3	15	37	28	5,0
	100M	16000	140	340	2400	290	170	210	258	M16	12	90	80	63	5	2,5	200	13,5	2	12	35	30	5,0
	130	15750	135	330	2400	322	170	240	278	M16	12	90	80	52,6	5	3,0	210	18,6	3	15	37	35	6,0
	130M	21000	130	320	2400	322	200	240	278	M16	12	90	80	63	5	3,0	230	14	2	15	37	37	6,0

NOTES

- $T_{max} = 2 \times T_{KN}$
» Refer to Selection page 7 to 11
- This maximum allowable torque transmission speed n_{max} must not be exceeded when transmitting torque
- This minimum allowable overrunning speed n_{min} should not be reduced under continuous operation. Possible reduction of this minimum speed on request
- Inner race overruns
Keyway to DIN 6885.1
- Tolerance +1

Cover F8 must be ordered separately
» Refer to mounting and maintenance instructions page 12 to 13

Other bore diameters on request

MOUNTING EXAMPLE

