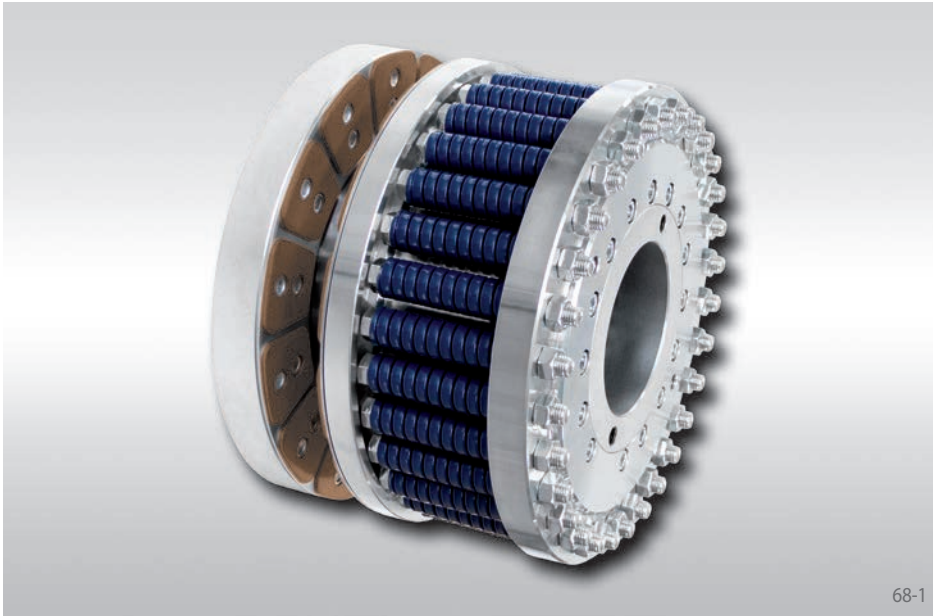


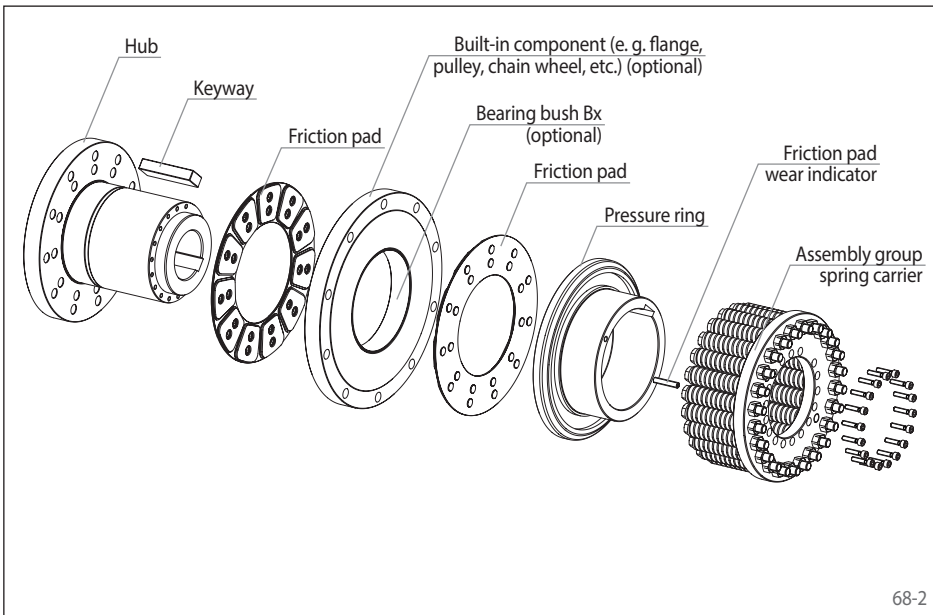
for heavy-duty applications



68-1

## Features

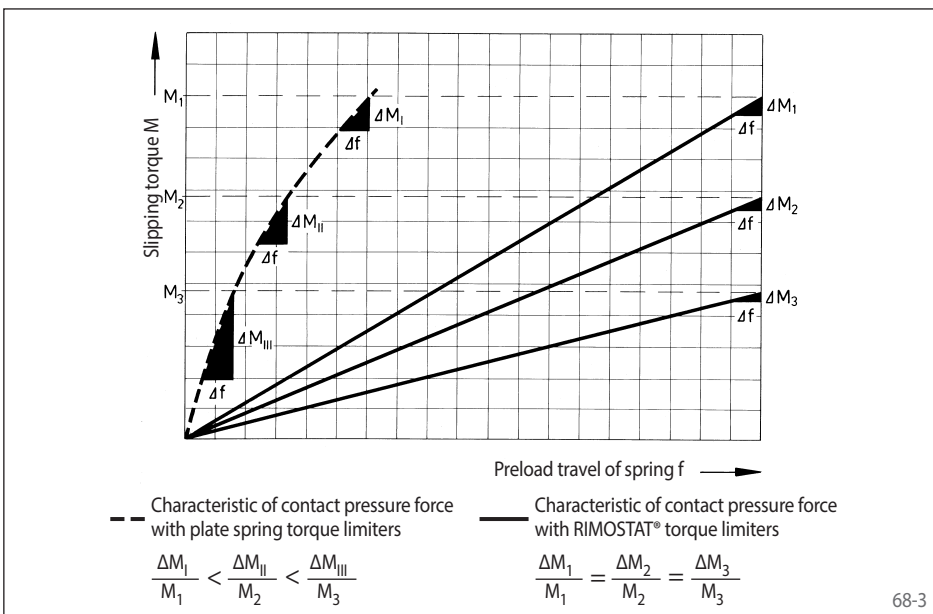
- Better stability of slipping torque than Belleville spring torque limiters over duration of the operating period
- Adjustment of slipping torque setting according to the number of active springs – not through modification of spring pressure
- Superb wear-behaviour during high energy consumption
- High temperature resistant



68-2

## The RIMOSTAT® Principle

The contact pressure on the friction surfaces is produced by long coil springs. Because of the RIMOSTAT® Torque Limiter's linear, flat-angle characteristic of the pressure force, practically no reduction of the slipping torque occurs even when friction linings are subjected to wear. As the diagram 68-3 shows, compared with Belleville spring torque limiters, assuming a friction wear of  $\Delta f$  the reduction of the slipping torque  $\Delta M$  is negligible.

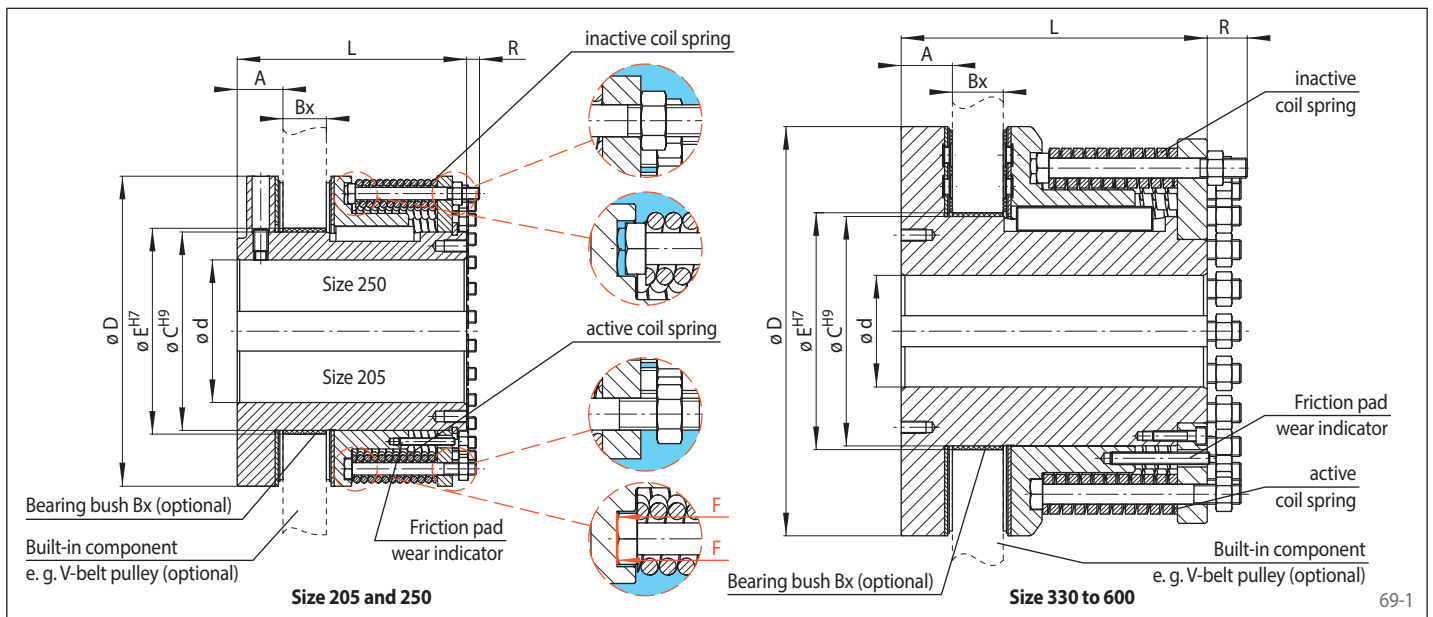


68-3

## Function

- When the preset slipping torque has been reached the built-in component (e. g. v-belt pulley) slips.
- During the slipping process, input and output rotate relative to each other and the preset slipping torque continues to be transmitted.
- Inherent in the slipping process is a high energy consumption.
- Re-engagement is not necessary.
- No wear adjustment required due to coil springs.

for heavy-duty applications



## Technical Data and Dimensions

Type	Slipping torque Nm	Max. speed <sup>1)</sup> min <sup>-1</sup>	Bore <sup>2)</sup> d <sup>H7</sup>		A mm	Bx mm	C <sup>3)</sup> mm	D mm	E <sup>4)</sup> mm	L mm	R <sup>5)</sup> mm	Weight <sup>6)</sup> kg
			min. mm	max. mm								
RSHD 205	600 - 3 000	2 700	50	90	29,9	28	125	205	131	160	10	26,6
RSHD 250	1 200 - 6 000	2 100	55	115	36,9	35	160	250	166	185	10	46,5
RSHD 330	3 000 - 14 000	1 800	90	125	41,3	41	185	330	191	247	30	103,0
RSHD 400	5 000 - 24 000	1 500	125	150	51,3	63	250	400	260	286	22	173,6
RSHD 500	8 000 - 50 000	1 200	150	200	56,3	63	350	500	360	275	48	292,0
RSHD 600	10 000 - 68 000	1 000	150	300	66,3	63	450	600	460	298	35	510,5

<sup>1)</sup>The max. speed relates to the dimensional stability of the Torque Limiter. • <sup>2)</sup>Further bores as well as internal spline available on request. • <sup>3)</sup>Without a RINGSPANN bearing bush, the bore C must have a tolerance H9 and a surface finish of Rz ≤ 10. • <sup>4)</sup>If the optional RINGSPANN bearing bush is used, the bore in the built-in component must be manufactured to tolerance H7. • <sup>5)</sup>Dimension for inactive springs. • <sup>6)</sup>Weight with smallest bore.

The friction surfaces of the built-in component must have the total axial runout of ≤ 0.05 to the bore and the surface quality of Rz12.

Keyway as per DIN 6885, page 1 · Tolerance of keyway width P9. Further designs available on request.

## Supply

The Torque Limiters are supplied with inactive coil springs when fully equipped, without slipping torque setting and without bearing bush. An optical friction pad wear indicator is integrated. A factory slipping torque preset is only possible with a built-in component e. g. V-belt pulley.

## Types (optional)

- Special bore designs on request
- Design also for connecting two shaft ends
- Can be combined with Flexible Couplings

## Accessories

Torque Limiter RSHD is available with the following accessories:

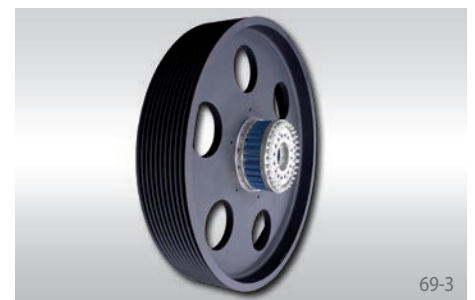
- Bearing bush Bx
- V-belt pulley
- Split V-belt pulley
- Built-in component as flange design

## Please specify when ordering

- Type of Torque Limiter
- Information of the bore
- Bearing bush required: Yes / No
- Information on the built-in component, if applicable
- Specify slipping torque (torque setting only possible with built-in component)



RIMOSTAT®-Torque Limiter RSHD with Pin and Bush Coupling  
REB ... DCO



RIMOSTAT®-Torque Limiter RSHD for heavy-duty applications with V-belt pulley