

ROTEX® GS

Torsionally flexible shaft coupling

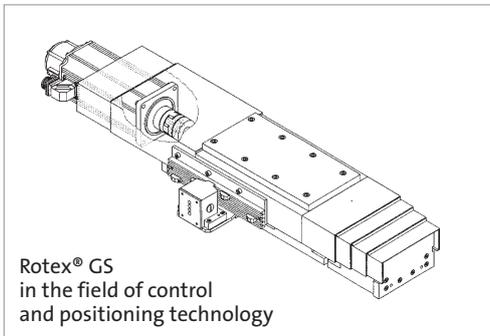
Developed for servo technology.



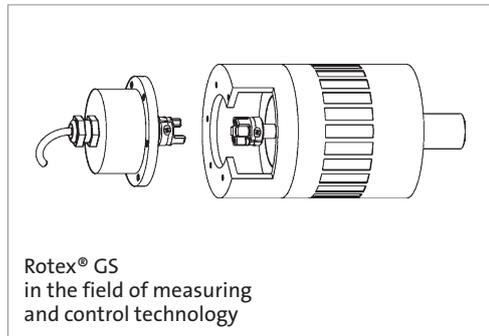
The ROTEX® GS is a three-piece coupling that can be plugged in axially and is backlash-free under initial tension. It impresses even in critical applications thanks to its backlash-free torque transmission, rigidity that matches the individual deployment and excellent vibration damping. This coupling is particularly easy to mount and provides the user with production-optimised installation options.

Highlights

- High power density with large range of variants
- Can be plugged in axially for easy mounting
- Torque transmission up to 4,500 Nm
- Small built-in dimensions – also in aluminium (for particularly low moments of inertia)
- Friction-locking shaft-hub connection for absolutely no backlash



Rotex® GS
in the field of control
and positioning technology



Rotex® GS
in the field of measuring
and control technology

ROTEX® GS

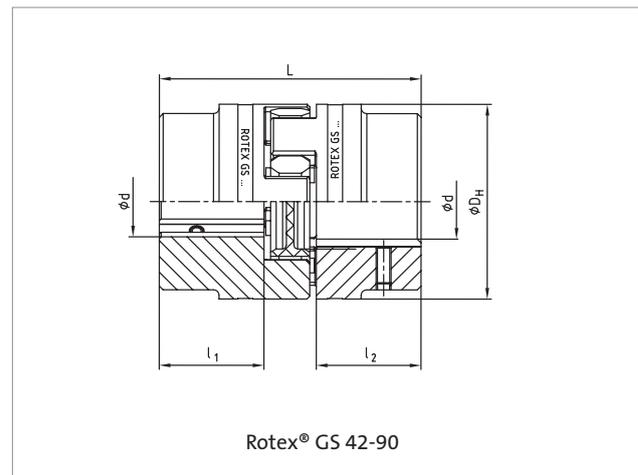
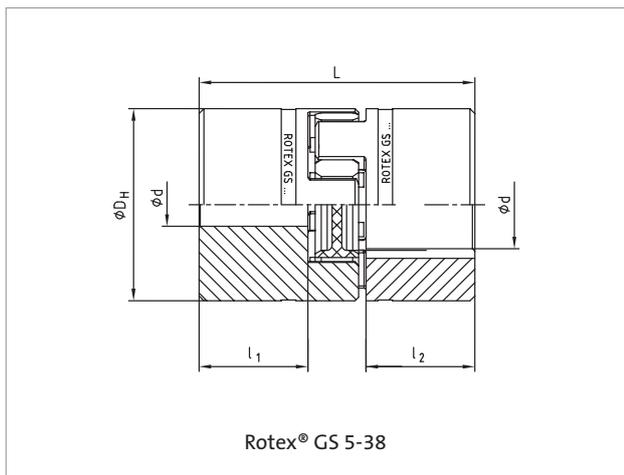
Torsionally flexible shaft coupling

Structure/function

The straight toothing of the spider mounted under initial tension leads to lower surface pressure and thus to increased rigidity of the coupling system. The elastic teeth that compensate for misalignments have radial support in the form of a raised collar along the internal diameter. This prevents excessive inward/outward deformation during powerful acceleration and when operated at high speeds.

This is vital for smooth operation and a long service life. To facilitate easy mounting, the cams of the hubs and the plastic teeth are bevelled. This shaft coupling is also available in an ATEX version on request.

The spiders are also available in various degrees of hardness for a very diverse range of applications.



ROTEX® GS technical specifications and main dimensions

Size	Finished bore max. d [mm]	Torque		Speed max. [rpm]	Dimensions		
		T_{KN} for 95/98Sh-A [Nm]	T_{Kmax} for 95/98Sh-A [Nm]		D_H [mm]	L [mm]	l_1/l_2 [mm]
5	6	0.9	1.7	47,700	10	15	5
7	7	2	4	34,100	14	22	7
9	11	5	10	23,800	20	30	10
12	12	9	18	19,100	25	34	11
14	16	12.5	25	15,900	30	35	11
19	24	17	34	11,900	40	66	25
24	28	60	120	8,650	55	78	30
28	38	160	320	7,350	65	90	35
38	45	325	650	5,950	80	114	45
42	55	450	900	5,000	95	126	50
48	62	525	1,050	4,550	105	140	56
55	74	685	1,370	3,950	120	160	65
65	80	940	1,880	3,500	135	185	75
75	95	1,920	3,840	2,950	160	210	85
90	110	3,600	7,200	2,380	200	245	100

T_{KN} ... Rated torque

T_{Kmax} ... Maximum torque

We are happy to help and advise you with your individual dimensioning requirements.