



AN ISO 9001 : 2015
CERTIFIED COMPANY

BONNA-FLEX[®]

MOTION DRIVE COUPLINGS



Encoder Coupling

GS Curved Jaw Coupling



DC Coupling



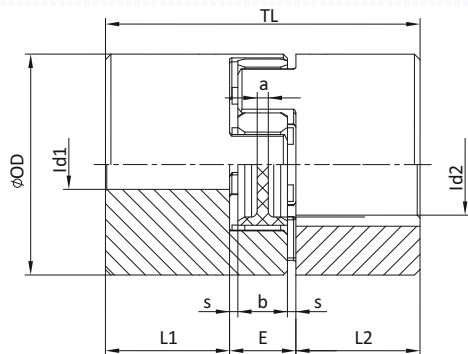
GS Coupling

Bonnaflex GS Type Curve jaw coupling is a 3 part axial plug in backlash-free coupling comes under pre stress. Because of its optimum damping of vibrations, its stiffness and backlash-free design it impresses with even critical applications. Pre stress mounted spider results in lower surface pressure and consequently higher stiffness of the coupling system. Bonnaflex GS Type couplings are suitable for potentially explosive atmospheres.

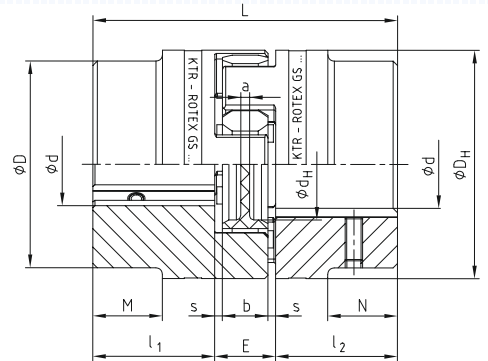
Due to its design Bonnaflex GS coupling is capable to absorb axial, radial and angular displacements, without causing any premature failure of the coupling. Because the spider is only stressed under pressure it is ensured that coupling will remain backlash free even after longer operation period.



BONNAFLEX GS 5 - 38

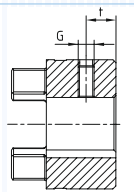


BONNAFLEX GS 42 - 90



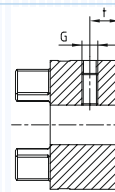
Types of hubs:

Type 1.0



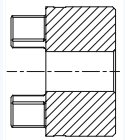
with feather keyway and setscrew

Type 1.1



without feather keyway, with setscrew

Type 1.2



without feather keyway and without setscrew

Features:

- Fail safe design
- Backlash Free
- Damping Vibrations
- Maintenance Free Design
- Compensate misalignments
- Positive-locking power transmission

Application :

- Main spindles Control & Positioning technology
- Measuring and testing technology
- Gearboxes
- Miniature drives
- Medical technology
- Packaging technology

BONNAFLEX® GS standard types - For size 5 to 38 hub material aluminium/for size 42 to 90 hub material steel

Size	Spider GS ¹⁾ torque T _{KN} [Nm] for 98 ShA	d _{max.} for hub design			Dimensions [mm]											Setscrew DIN EN ISO 4029		
		1.0	1.1	1.2	D	D _H	d _H	TL	l ₁ , l ₂	M, N	E	b	s	a	G	t	T _A	
5	0.9	-	6	5	-	10	-	15	5	-	5	4	0.5	4.0	M2	2.5	0.35	
7	2.0	7	7	7	-	14	-	22	7	-	8	6	1.0	6.0	M3	3.5	0.6	
9	5.0	10	11	11	-	20	7.2	30	10	-	10	8	1.0	1.5	M4	5.0	1.5	
12	9.0	12	12	12	-	25	8.5	34	11	-	12	10	1.0	3.5	M4	5.0	1.5	
14	12.5	16	16	16	-	30	10.5	35	11	-	13	10	1.5	2.0	M4	5.0	1.5	
19	21	24	-	-	-	40	18	66	25	-	16	12	2.0	3.0	M5	10	2.0	
24	60	28	-	-	-	55	27	78	30	-	18	14	2.0	3.0	M5	10	2.0	
28	160	38	-	-	-	65	30	90	35	-	20	15	2.5	4.0	M8	15	10	
38	325	45	-	-	-	80	38	114	45	-	24	18	3.0	4.0	M8	15	10	
42	450	55	-	-	-	85	95	46	126	50	28	26	20	3.0	4.0	M8	20	10
48	525	62	-	-	-	95	105	51	140	56	32	28	21	3.5	4.0	M8	20	10
55	685	74	-	-	-	110	120	60	160	65	37	30	22	4.0	4.5	M10	20	17
65	940	80	-	-	-	115	135	68	185	75	47	35	26	4.5	4.5	M10	20	17
75	1920	95	-	-	-	135	160	80	210	85	53	40	30	5.0	5.0	M10	25	17
90	3600	110	-	-	-	160	200	104	245	100	62	45	34	5.5	6.5	M12	30	40

¹⁾ For selections see page 22 et seqq/other spiders see page 123 and following

Ordering	BONNAFLEX® GS 24	98 ShA-GS	d 20	2.5 - Ø24			1.0 - Ø20	
	Coupling size	Spider hardness	Optional: Bore in spider	Hub design	Finish bore	Hub design	Finish bore	