



AN ISO 9001 : 2015
CERTIFIED COMPANY

BONNA-FLEX®

MOTION DRIVE COUPLINGS



Encoder Coupling

GS Curved Jaw Coupling



DC Coupling

Manufacturer & Exporter :

BONNA-FLEX Industries Private Limited





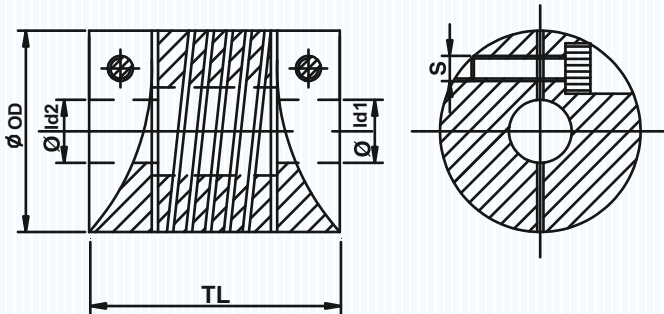
Encoder Coupling

Bonnaflex encoder shaft couplings are an innovative and reliable solution for increasing the life and maintaining the accuracy of your encoder mechanisms and other devices. Ideal for encoders this coupling is designed to satisfy today's higher performance requirements and can be used for parallel, axial or angular shaft misalignments, all while maintaining constant transmission of torque and angular velocity.

It comes with two variation as in :

- 1) **Clamping hub type (AF Type)**- That comes with Socket head type clamping bolts. It provides full surface grip with shaft and the chances of slipping are very less.
- 2) **Set Screw Clamping type (AS Type)**- That comes with set screw clamping. It gives point contact with shaft and the chances of slip are much higher. Mostly recommended for D type of shafts.

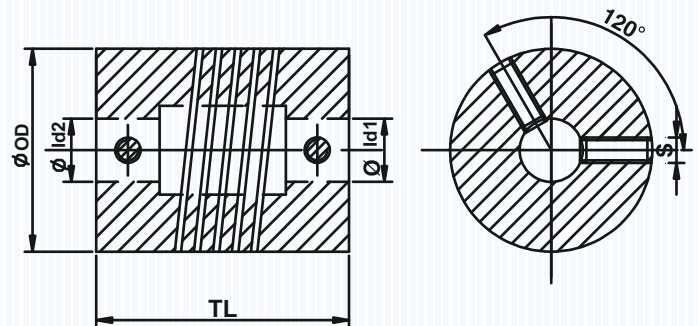
AF TYPE COUPLING



Outer Dia.	Length	Id1 & id2 H7mm	Clamping
OD	TL	Min.-Max.	Screw S
14	20	2.00-4.00	M2.5
16	24	3.00-6.00	M2.5
20	28	4.00-10.00	M3
25	32	5.00-11.00	M3
32	40	8.00-12.00	M4
35	40/50	10.00-17.00	M5
40	50	11.00-20.00	M5
50	50/60	12.00-25.00	M6

AS TYPE COUPLING

Outer Dia.	Length	Id1 & id2 H7mm	Clamping
OD	TL	Min.-Max.	Screw S
14	20	2.00-4.00	M3
16	24	3.00-8.00	M3
20	28	4.00-11.00	M4
25	32	5.00-12.70	M4
32	40	8.00-15.00	M4
35	40/50	10.00-20.00	M5
40	50	11.00-25.00	M5
50	50/60	12.00-30.00	M6



Features:

- Zero backlash design- Precision drive
- Aluminium alloy, S. S., Brass, Nylon material
- Angular offset upto 5 degrees
- parallel offset upto 0.2 mm
- Constant velocity transmission
- Torsionally Stiff coupling
- Single piece construction

Application :

- Shaft encoder
- Damper drives
- Synchronous and stepper motor drives
- Rotary position transmitter
- Potentiometers and variacs





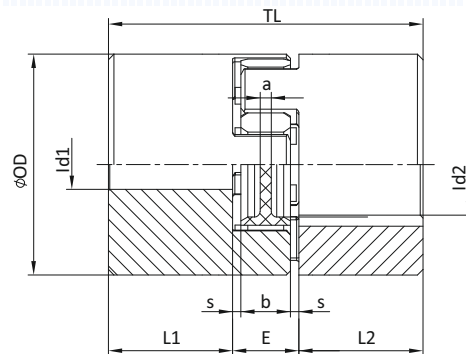
GS Coupling

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.

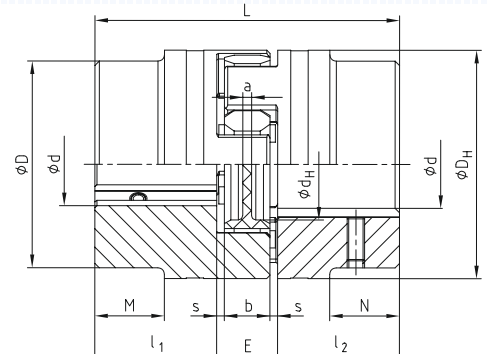
Due to its design Bonnaflex GS coupling is capable to absorb axial, radial and angular displacements, without causing any premature failure of the coupling. Because the spider is only stressed under pressure it is ensured that coupling will remain backlash free even after longer operation period.



BONNAFLEX GS 5 - 38

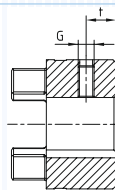


BONNAFLEX GS 42 - 90



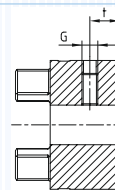
Types of hubs:

Type 1.0



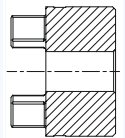
with feather keyway
and setscrew

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	OD	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	20	3.0	4.0	M8	20	10	
48	525	62	-	-	-	95	105	51	140	56	32	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

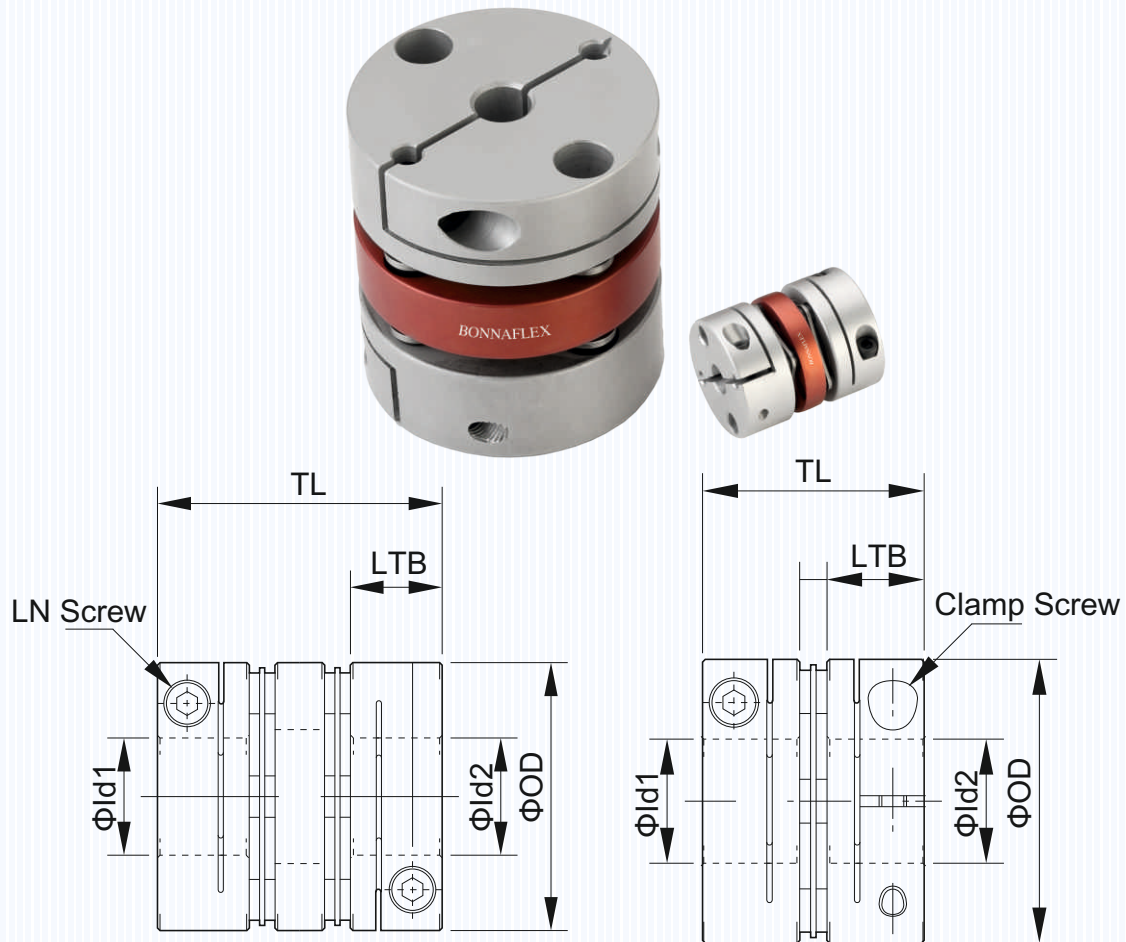


**AN ISO 9001 : 2015
CERTIFIED COMPANY**

BONNA-FLEX®

DC Coupling

The Bonnaflex DiscFlex Coupling features a Specially Developed Product for Servo technology. The Aluminum hubs and stainless steel disc materials ensures Safety from oil and other materials also allows reliable compensation for axial, radial displacements. We also provide couplings as customer required diameters. Most suitable for High temp and High rpm application, Uni-direction or bi-direction motion.



Size	OD	MIN. BORE	MAX. BORE	TL	L	Fastening Bolt M	Fastening Torque (N-m)	Max RPM (MIN 1)	Max Torque (N-m)	Rated Torque (N-M)	Torsional Stiffness (N-M/rad)	Monent of Inertia (kg.m2)	Mass (g)	Angle (mm)	Parallel (mm)	End-Play (mm)
BDF-40	40	8	18	40	13.7	M4	3.5	8,000	10	5	1,800	3.0X10 ⁻⁵	120	1.5	0.18	± 0.4
BDF-42	42	8	19	47	13.7	M4	3.5	8,000	14	7	2,000	3.3X10 ⁻⁵	120	1.5	0.18	± 0.5
BDF-47	47	8	21	50	16	M4	3.5	8,000	24	12	4,000	5.5X10 ⁻⁵	160	1.5	0.2	± 0.5
BDF-54	54	10	25	53	19	M5	8	8,000	44	22	7,000	1.1X10 ⁻⁴	250	1.5	0.2	± 0.5
BDF-55	55	10	25	59	19	M5	8	8,000	44	22	7,000	1.2X10 ⁻⁴	280	1.5	0.2	± 0.5

Features :

- Flexible Design
- Zero Backlash Design
- Moderate High Torque Capacity
- Aluminium Hub with S.S. Hub
- Compensate Axial offset upto 0.2 mm
- Uniform and positive motion of power transmission

Application :

- Ball screws
- Medical equipments, precision spindles
- Shaft Encoders, tachogenerator
- Servo, Stepper, Synchronous motor
- Damper Drives
- Rotary position transmitter

BONNA-FLEX®

Mfg. : SHAFT LOCK TAPER BUSH PULLEY, COUPLINGS & ALL TYPE OF TRANSMISSION PRODUCTS.

Off. : 7/3, Samrat Industrial Area, B/h. Chandan Marbal, Gondal Road, Rajkot.

Ph. : 0281-2360761 Mo. +91 75729 40600 / 99040 22814

E-mail : bonnaflex@gmail.com / Web : www.bonnaflex.com / www.bonnaflex.co.in