



GS COUPLINGS

GS Couplings are the three piece assembly of 2 no. Aluminium Alloy or Steel hubs and one Special Grade Polyurethane Spider. These three pieces are co-axially and with certain positive pre-stress are assembled to complete the coupling. After assembly these couplings becomes sufficient flexible, backlash-free, positive motion and power transmitting fail safe coupling elements. Due to polyurethane spider, both the metallic hubs are separated from each other to avoid there physical contact. This helps to avoid the electrical and frequency isolation of both the connected driver and driven elements.

Applications:

Shaft Encoders, Tacho-generators, Servo Motors, Stepper Motors, Ball-screws, CNC machines, X-V slides, Medical Equipment's, Precise Spindles, and much more precise backlash-free motion and power transmission applications.

Benefits:

Flexible, Backlash-free, No maintenance, No Lubrication, Failsafe, Uniform & Positive motion and power transmission, Electrical and frequency isolation, Available in Unbored, pilot bore and finish bore and key-ways.

B.V. Transmission Industries

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HUB DETAILS:

GS hubs are available in Aluminium and Steel Material.
 GS sizes from 9 to 38 are made from Aluminium Alloy material.
 GS sizes from 42 to 65 are made from Steel.



Hubs are manufactured with high precision machining.
 The jaws are machined with concave shape and entry chamfer for easy assembly.
 The concave shape in jaws of hub and the convex shape on the polyurethane spider allows for better angular, parallel and axial misalignment.

These hubs are available in un-bored, pilot bored, finish bore & key-ways, and with different styles of clamping arrangements as per customer requirements.



SPIDER DETAILS:

GS spiders are manufactured from high grade polyurethane.
 GS are available in three different hardness as 80 Shore A, 92 Shore A, and 98 Shore A. This different hardness's are made available to suit different applications.
 The details are as below.

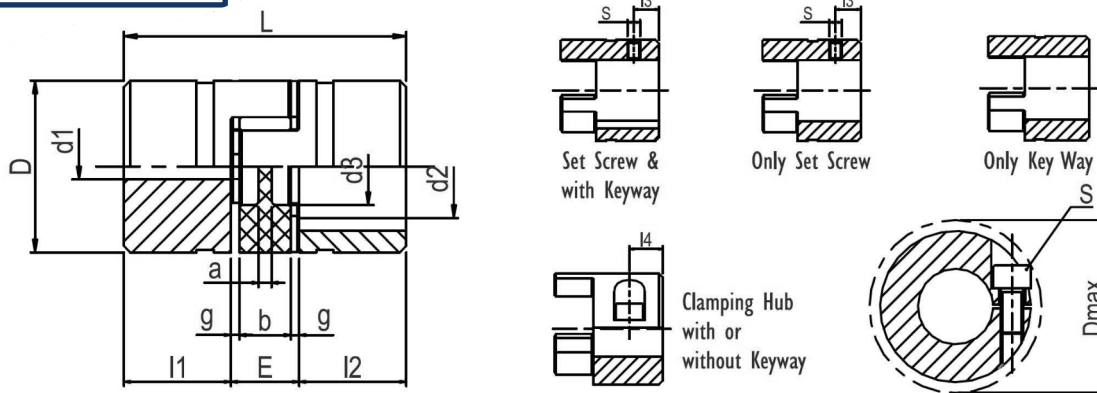
Spider Type	Colour	Material	Temperature Range ° C		Available sizes	Application
			Normal working	Maximum		
Shore Hardness						
80 Shore A	Blue	Polyurethane	from -50 to + 80	from -60 to + 120	GS 9 to 24	Low torque, more mis-alignment
92 Shore A	Yellow	Polyurethane	from -40 to + 90	from -50 to + 120	GS 9 to 55	Medium torque, medium mis-alignment
98 Shore A	Red	Polyurethane	from -30 to + 90	from -40 to + 120	GS 9 to 55	More torque, less mis-alignment

Applications:

- Shaft Encoders
- Servo Motors
- Stepper Motors
- Tacho Generators
- CNC Slides
- CNC Machines
- Robots
- Textile Machines
- Special Purpose Machines
- And many more.



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Dimentional details

Size	Bore Sizes mm			Overall Dimentions								Set Screw Type		Clamping Hub Type			Screw
	Minimum		Maximum	Outer	Spider	Total	Hub	Space Bet*	Spider	Isolation	Spider Wall	Screw	Distance	Screw	Distance	Max.	Tightening
	Set Screw	Clamping	d2	Dia.	I.D.	Length	Length	Hubs	Width	Gap	Thickness	Size	from edge	Size	from edge	Dia.	Torque
GS 9	d1	d2	d2	D	d3	L	I1 & I2	E	b	g	a	S	I3	S	I4	Dmax	Ts Nm
GS 9	4	11	9	20	7	30	10	10	8	1	1.5	M4	5	M3	5	23.4	1.5
GS 14	6	16	14	30	10.5	35	11	13	10	1.5	2	M4	5	M3	5	32.2	1.5
GS 19/24	6	24	24	40	18	66	25	16	12	2	3	M5	10	M6	12	45.5	10.5
GS24/28	8	28	28	55	27	75	30	18	14	2	3	M5	10	M6	12	56.4	10.5
GS 28/38	10	38	38	65	30	90	35	20	15	2.5	4	M6	15	M8	14	72.6	10.5
GS 38 / 45	12	45	45	80	38	114	45	24	18	3	4	M8	15	M8	20	83.3	25
GS 42	14	55	X	95	46	126	50	26	20	3	4	M8	20	M8	20	79	25
GS 48	15	62	X	105	51	140	56	32	28	3.5	4	M8	20	M10	22	91	70
GS 55	20	70	X	120	60	160	65	30	22	4	4.5	M10	20	M12	25	105	120

Technical Data

Size	Spider Hardness	Rated Torque Nm	Max RPM		Dynamic Torsional Stiffness Nm/rad	Radial Stiffness N/mm	Weight Kg	Moment of Inertia Kgcm ²
			Set Screw	Clamping Hub				
GS 9	80 Shore A	1.8	28000	22500	52	125	0.019	0.011
GS 9	92 Shore A	3	28000	22500	95	262	0.019	0.011
GS 9	98 Shore A	5	28000	22500	155	518	0.019	0.011
GS 14	80 Shore A	4	15900	12700	180	153	0.05	0.062
GS 14	92 Shore A	7.5	15900	12700	344	336	0.05	0.062
GS 14	98 Shore A	12.5	15900	12700	513	604	0.05	0.062
GS 19/24	80 Shore A	4.9	11900	9550	1030	582	0.16	0.39
GS 19/24	92 Shore A	10	11900	9550	1720	1120	0.16	0.39
GS 19/24	98 Shore A	17	11900	9550	2580	2010	0.16	0.39
GS24/28	92 Shore A	35	8850	6950	4296	1480	0.33	1.60
GS24/28	98 Shore A	60	8850	6950	6189	2560	0.33	1.60
GS 28/38	92 Shore A	95	7350	5850	6876	1780	0.56	3.80
GS 28/38	98 Shore A	160	7350	5850	10314	3200	0.56	3.80
GS 38/45	92 Shore A	190	5950	4750	13752	2350	1.10	10.00
GS 38/45	98 Shore A	325	5950	4750	21486	4400	1.10	10.00
GS 42	92 Shore A	265	5000	4000	14490	2430	1.85	22.50
GS 42	98 Shore A	450	5000	4000	48000	5570	1.85	22.50
GS 48	92 Shore A	310	4550	3600	18055	2580	2.50	46.00
GS 48	98 Shore A	525	4550	3600	55925	5930	2.50	46.00
GS 55	92 Shore A	410	3950	3150	21850	2980	4.10	85.25
GS 55	98 Shore A	685	3950	3150	59500	6686	4.10	85.25

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