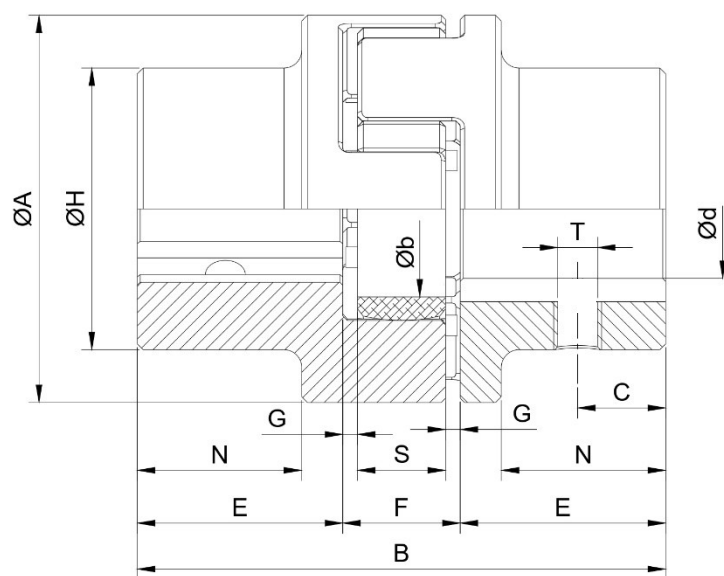




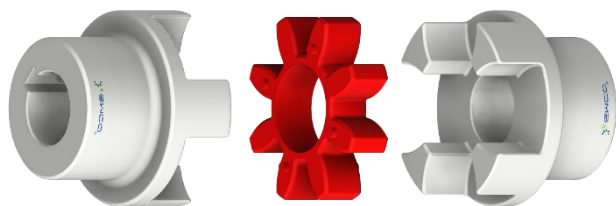
GR/GS JAW COUPLING

ALUMINIUM | CAST IRON
CAST STEEL | STAINLESS STEEL

GR / GS Jaw Coupling : Hub Type 1



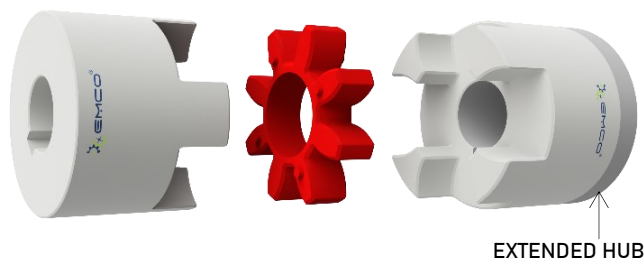
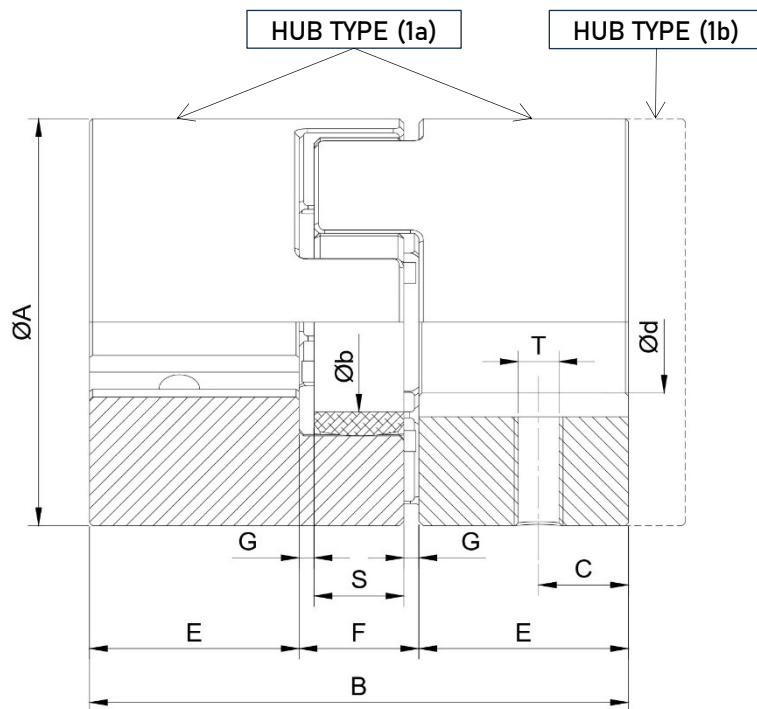
- Superior vibration damping for better stability.
- Effortless assembly with axial plug-in convenience.
- Engineered precision for peak performance.
- Flexibly torsional, built for life—zero maintenance.
- Compact, lightweight, and efficiency-focused design.
- Bore and keyway crafted to ISO and DIN perfection.
- Versatile size range to fit every need.
- Globally certified for quality and safety assurance.
- Robust materials for all-weather reliability.
- Easy setup—visit us at www.emcoengineering.com



TECHNICAL DATA

SIZE	SPIDER RATED TORQUE(Nm)		DIMENSIONS (mm)												
			FINISH BORE Ød(min-max)	GENERAL									THREAD FOR SETSCREWS		
	92 Sh-A	98 Sh-A		ØA	B	ØH	E	F	S	G	Øb	N	T	C	TA (Nm)
14	7.5	12.5	6-16	30	35	26	11	13	10	1.5	10	-	M4	5	1.5
19	10	17	6-19	41	66	32	25	16	12	2	18	20	M5	10	2
24	35	60	9-24	56	78	40	30	18	14	2	27	24	M5	10	2
28	95	160	10-28	66	90	48	35	20	15	2.5	30	28	M8	15	10
38	190	325	12-40	80	114	66	45	24	18	3	38	37	M8	15	10
42	265	450	14-45	95	126	75	50	26	20	3	46	40	M8	20	10
48	310	525	15-52	105	140	85	56	28	21	3.5	51	45	M8	20	10
55	410	685	20-60	120	160	98	65	30	22	4	60	52	M10	20	17
65	625	940	22-70	135	185	115	75	35	26	4.5	68	61	M10	20	17
75	1280	1920	30-80	160	210	135	85	40	30	5	80	69	M10	25	17
90	2400	3600	40-97	200	245	160	100	45	34	5.5	100	81	M12	30	40
100	3300	4950	50-115	225	270	180	110	50	38	6	113	89	M12	30	40
110	4800	7200	60-125	255	295	200	120	55	42	6.5	127	96	M16	35	80
125	6650	10000	60-145	290	340	230	140	60	46	7	147	112	M16	40	80
140	8550	12800	60-160	320	375	255	155	65	50	7.5	165	124	M20	45	80
160	12800	19200	80-185	370	425	290	175	75	57	9	190	140	M20	50	140
180	18650	28000	85-200	420	475	325	195	85	64	10.5	220	156	M20	50	140

GR / GS Jaw Coupling : Hub Type 1a / 1b



- Heavy-duty design for robust industrial performance.
- Higher bore capacity for larger shaft accommodation.
- Backlash-free and torsionally flexible, ideal for shock absorption.
- No-step jaw interface for uniform torque transmission.
- Easy setup—visit us at www.emcoengineering.com

HUB TYPE (a) : WITHOUT STEP | HUB TYPE (b) : WITHOUT STEP - EXTENDED

TECHNICAL DATA															
SIZE	HUB TYPE (a/b)	SPIDER		DIMENSIONS (mm)											
		RATED TORQUE(Nm)		FINISH BORE Ød(min-max)	GENERAL								THREAD FOR SETSCREWS		
		92 Sh-A	98 Sh-A		ØA	B	E	F	S	G	Øb	T	C	TA (Nm)	
14	1a	7.5	12.5	0-16	30	35	11	13	10	1.5	10	M4	5	1.5	
	1b					50	18.5								
19	1a	10	17	0-25	41	66	25	16	12	2	18	M5	10	2	
	1b					90	37								
24	1a	35	60	0-35	56	78	30	18	14	2	27	M5	10	2	
	1b					118	50								
28	1a	95	160	0-40	66	90	35	20	15	2.5	30	M8	15	10	
	1b					140	60								
38	1a	190	325	0-48	80	114	45	24	18	3	38	M8	15	10	
	1b					164	70								
42	1a	265	450	0-55	95	126	50	26	20	3	46	M8	20	10	
	1b					176	75								
48	1a	310	525	0-62	105	140	56	28	21	3.5	51	M8	20	10	
	1b					188	80								
55	1a	410	685	0-75	120	160	65	30	22	4	60	M10	20	17	
	1b					210	90								
65	1b	625	940	0-80	135	235	100	35	26	4.5	68	M10	20	17	
75	1b	1280	1920	0-95	160	260	110	40	30	5	80	M10	25	17	
90	1b	2400	3600	0-110	200	295	125	45	34	5.5	100	M12	30	40	

GR SPIDER:

- Flexible spider for better vibration damping.
- Handles higher misalignment with ease.
- Easier spider replacement - loose fit design.
- Ideal for general-purpose industrial applications.
- Moderate torque capacity.
- Cost-effective and versatile solution.

GS SPIDER:

- Tightly fitted spider for higher torque transmission.
- Minimal backlash - ideal for precision drives.
- Less flexible but more rigid under load.
- Ideal for general-purpose industrial applications.
- Better performance in high-speed or servo systems.
- Longer spider life under controlled conditions

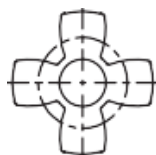
GR SPIDER



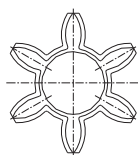
GS SPIDER



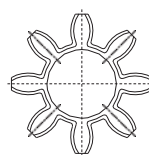
Size: 14



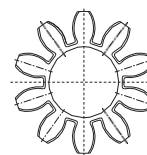
Size: 19



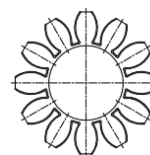
Size: 24 - 65



Size: 75 - 160



Size: 180



92 Shore A spider made of T-PUR and PUR													
Size	Torsion angle ϕ with		Torque [Nm]				Damping power P KW [W]	Relative damping ψ	Resonance factor VR	Torsion spring stiffness C dyn. [Nm/rad]			
			DIN 740 ¹⁾			TK max				1.0 T KN	0.75 T KN	0.5 T KN	0.25 T KN
	Rated T KN	Max. TKmax	Vibratory T KW										
14	6.4°	10°	7.5	15	2.0	22.5	–	0.80	7.90	0.38x10 ³	0.31x10 ³	0.24x10 ³	0.14x10 ³
19			10	20	2.6	30	4.8			1.28x10 ³	1.05x10 ³	0.8x10 ³	0.47x10 ³
24			35	70	9.1	105	6.6			4.86x10 ³	3.98x10 ³	3.01x10 ³	1.79x10 ³
28			95	190	25	285	8.4			10.9x10 ³	8.94x10 ³	6.76x10 ³	4.01x10 ³
38			190	380	49	570	10.2			21.05x10 ³	17.26x10 ³	13.05x10 ³	7.74x10 ³
42			265	530	69	795	12.0			23.74x10 ³	19.47x10 ³	14.72x10 ³	8.73x10 ³
48			310	620	81	930	13.8			36.7x10 ³	30.09x10 ³	22.75x10 ³	13.49x10 ³
55			410	820	107	1230	15.6			50.7x10 ³	41.59x10 ³	31.45x10 ³	18.64x10 ³
65			625	1250	163	1875	18.0			97.1x10 ³	79.65x10 ³	60.2x10 ³	35.7x10 ³
75			1280	2560	333	3840	21.6			113.3x10 ³	92.9x10 ³	70.3x10 ³	41.65x10 ³
90			2400	4800	624	7200	30.0			190.1x10 ³	155.9x10 ³	117.9x10 ³	69.9x10 ³
100			3300	6600	858	9900	36.0			253.1x10 ³	207.5x10 ³	156.9x10 ³	93x10 ³
110			4800	9600	1248	14400	42.0			415.5x10 ³	336.9x10 ³	257.6x10 ³	177.4x10 ³
125			6650	13300	1729	19950	48.0			647.7x10 ³	537.3x10 ³	412.2x10 ³	277.5x10 ³
140			8550	17100	2223	25650	54.6			813.4x10 ³	670.2x10 ³	519.7x10 ³	351.7x10 ³
160			12800	25600	3328	38400	75.0			1298x10 ³	1104x10 ³	901.9x10 ³	655.7x10 ³
180			18650	37300	4849	55950	78.0			2327x10 ³	1981x10 ³	1618x10 ³	1176x10 ³
98 Shore A spider made of T-PUR and PUR													
Size	Torsion angle ϕ with		Torque [Nm]				Damping power P KW [W]	Relative damping ψ	Resonance factor VR	Torsion spring stiffness C dyn. [Nm/rad]			
			DIN 740			T K max				1.0 T KN	0.75 T KN	0.5 T KN	0.25 T KN
	Rated T KN	Max. TKmax	Vibratory T KW										
14	6.4°	10°	12.5	25	3.3	37.5	–	0.80	7.90	0.56x10 ³	0.46x10 ³	0.35x10 ³	0.21x10 ³
19			17	34	4.4	51	4.8			2.92x10 ³	2.39x10 ³	1.81x10 ³	1.07x10 ³
24			60	120	16	180	6.6			9.93x10 ³	8.14x10 ³	6.16x10 ³	3.65x10 ³
28			160	320	42	480	8.4			26.77x10 ³	21.95x10 ³	16.6x10 ³	9.84x10 ³
38			325	650	85	975	10.2			48.57x10 ³	39.83x10 ³	30.11x10 ³	17.85x10 ³
42			450	900	117	1350	12.0			54.5x10 ³	44.69x10 ³	33.79x10 ³	20.03x10 ³
48			525	1050	137	1575	13.8			65.3x10 ³	53.54x10 ³	40.48x10 ³	24x10 ³
55			685	1370	178	2055	15.6			95x10 ³	77.9x10 ³	58.88x10 ³	34.9x10 ³
65			940	1880	244	2820	18.0			129.5x10 ³	106.2x10 ³	80.3x10 ³	47.6x10 ³
75			1920	3840	499	5760	21.6			197.5x10 ³	162x10 ³	122.5x10 ³	72.6x10 ³
90			3600	7200	936	10800	30.0			312.2x10 ³	256x10 ³	193.6x10 ³	114.7x10 ³
100			4950	9900	1287	14850	36.0			383.3x10 ³	314.3x10 ³	237.6x10 ³	140.9x10 ³
110			7200	14400	1872	21600	42.0			805.9x10 ³	663.1x10 ³	515.3x10 ³	360.5x10 ³
125			10000	20000	2600	30000	48.0			1207x10 ³	1003x10 ³	787.6x10 ³	552.5x10 ³
140			12800	25600	3328	38400	54.6			1549x10 ³	1283x10 ³	979.8x10 ³	674.1x10 ³
160			19200	38400	4992	57600	75.0			2481x10 ³	2137x10 ³	1781x10 ³	1275x10 ³
180			28000	56000	7280	84000	78.0			4220x10 ³	3635x10 ³	3031x10 ³	2170x10 ³

