

Sheargard Flexible Couplings

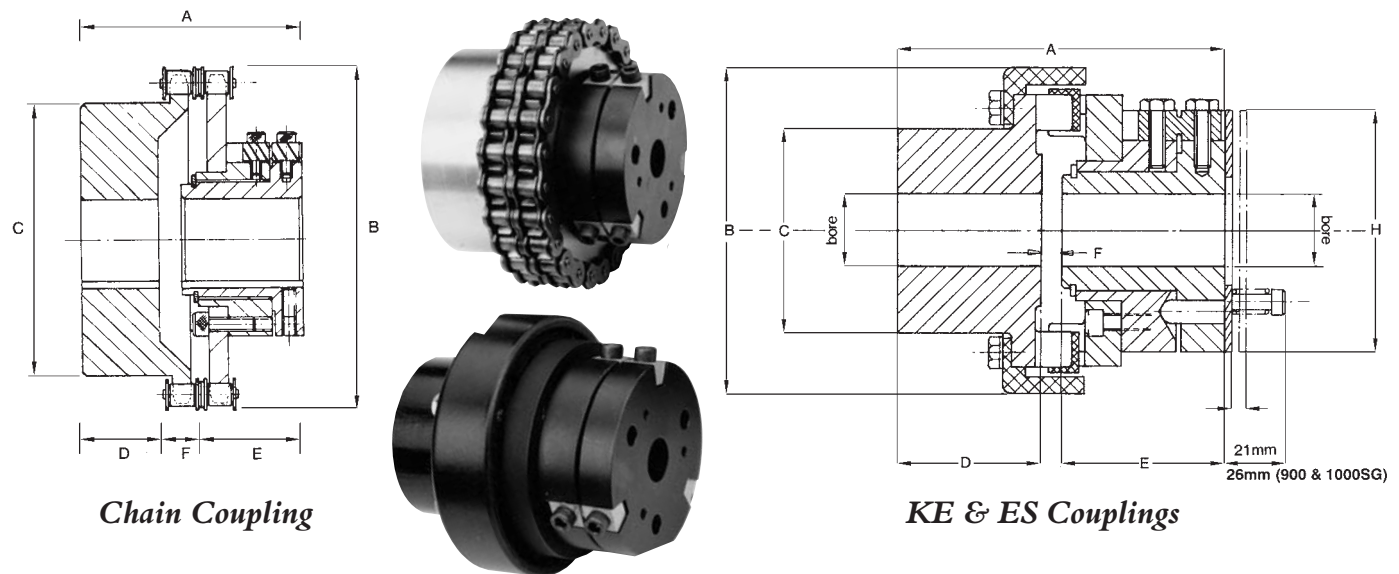


Sheargard Chain Couplings

The standard Cross Sheargard unit combines with the Chain Coupling to provide stock overload couplings with minimum backlash and a high reliability. This construction provides a simple, reliable, easy to assemble flexible coupling capable of transmitting high loads and accommodating shaft misalignment with continuous overload protection. Motor monitor assemblies can also be used to switch off power in the event of an overload.

Sheargard ES & KE Couplings

For high speed drives (over 500 rpm) low inertia rubber elastic couplings are offered to enable quiet operation with torsional elasticity to damp vibration and absorb shock loads. The ES Couplings consists of two close grained cast iron jaws with hard rubber drive elements interposed between them, retained by a reinforced thermoplastic cap. The KE Coupling also has close grained cast iron jaws with a Pebax Polyester elastomeric gear ring interspaced to damp vibration and torsional loads. This series can be provided with taper-bore bushes on the coupling end. The KE Coupling provides a lower cost solution.



Chain Coupling

KE & ES Couplings

Chain Coupling Dimensions

Coupling Ref.	Misalignment		Torque Ratings		Sheargard Bore		Coupling Bore		A	B	C	D	E	F
	Parallel	Angular	Min Nm	Max Nm	Min	Max	Min	Max						
350SG-C	0.31	1/2°	33	1509	19	28	18	57	106	137	104	38	57	11
500SG-C	0.38	1/2°	45	2028	24	45	22	70	119	187	149	41	72	5
700SG-C	0.51	1/2°	251	5580	28	65	24	102	162	248	199	67	92	3
800SG-C	0.75	1/2°	306	6796	30	80	51	120	186	278	175	77	100	9
950SG-C	0.75	1/2°	830	16740	45	100	51	150	222	326	232	83	130	9
1000SG-C	1.00	1/2°	3468	37500	45	115	60	200	286	462	320	106	175	5

KE Sheargard Coupling Dimensions

Coupling Ref.	Misalignment		Torque Ratings		Sheargard Bore		Coupling Bore Max ^{*(2)}	Taper Bush Size ^{*(3)}	* ⁽⁴⁾	* ⁽⁴⁾	E	F		
	Parallel	Angular	Min Nm	Max Nm ^{*(1)}	Min	Max							A	B
350SGKE13	0.4	1.0°	33	725	19	28	55	1610	140	130	90	50	57	33
350SGKE15	0.4	1.0°	33	1490	19	28	65	2012	151	150	104	58	57	36
500SGKE15	0.4	1.0°	45	1490	24	45	65	2012	179	150	104	58	72	49
500SGKE18	0.4	1.0°	45	2026	24	45	75	2517	185	180	120	68	72	45
700SGKE23	0.5	1.0°	251	4800	28	65	95	3020	241	225	150	85	92	64
800SGKE28	0.5	1.0°	306	6796	30	80	130	3525	281	275	206	106	100	75

ES Sheargard Coupling Dimensions

Coupling Ref.	Misalignment		Torque Ratings		Sheargard Bore		Coupling Bore Max ^{*(2)}	A	B	C	D	E	F	H
	Parallel	Angular	Min Nm	Max Nm ^{*(1)}	Min	Max								
350SGES	0.6	0.7°	33	300	19	28	45	114	115	72	48	57	9	85
500SGES	0.7	0.7°	45	1200	24	45	60	143	158	96	61	72	10	105
700SGES	0.9	0.8°	251	3000	28	65	75	183	202	120	75	92	16	148
800SGES	1.0	0.8°	306	4800	30	80	80	208	202	130	82	100	26	175
950SGES	1.4	0.8°	830	12000	45	100	100	249	294	160	97	130	22	215

Except as indicated all dimensions in mm
^{*(1)}Running Torque should not exceed 50% of this figure.
^{*(2)}Coupling half manufactured with blind bore.

^{*(3)}Coupling half can be supplied for taper-bush fitted either from hub end (type H) or from coupling end (type F).
^{*(4)}Taper bore versions are shorter.

Tel: +44 121 360 0155 Fax: +44 121 325 1079

Email: sales@crossmorse.com

