STANDARD ELASTIC COUPLINGS

CE

Eltra elastic couplings are essential parts for the motion transmission to the encoder shaft. The couplings are made with aluminium alloy and are composed by a cylindrical body with an helical groove that determines:

- torsional rigidity
- ability to compensate for slight shaft misalignments
- ability to absorb shaft axial play

Elastic coupling can be supplied with different coupling diameters.

ORDERING CODE

G 25 A 6 / 8

SERIES
precision elastic coupling G

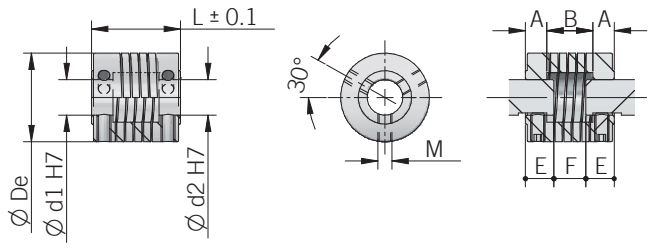
MODEL
20 / 23 / 25 / 30
refer to the table for available P/N

SHAFT FIXING TYPE
shaft fixing with grub screw A

HOLE DIAMETER d1
4 ... 10 mm 6

(DO NOT ADD IF d2 = d1) HOLE DIAMETER d2
6 ... 14 mm 8

MECHANICAL DIMENSIONS



For proper installation it is recommended to insert shafts in the coupling observing “E” dimensions

dimensions in mm

STANDARD COUPLINGS

	P / N	Material	De	L	d1	d2	A	B	M	E	F	Torque (Nm)
G20A4/6	94070087	aluminium	20	20	4	6	6	8	M3	7	6	0,25
G20A6	94070006	aluminium	20	20	6	6	6	8	M3	7	6	0,25
G23A6/8	94070092	aluminium	23,5	20	6	8	6	8	M4	7	6	0,3
G23A6/10	94070093	aluminium	23,5	20	6	10	6	8	M4	7	6	0,3
G23A8/11	94070212	aluminium	23,5	20	8	11	6	8	M4	7	6	0,3
G23A10	94070095	aluminium	23,5	20	10	10	6	8	M4	7	6	0,3
G25A6	94070042	aluminium	25	25	6	6	7	11	M4	8	9	0,4
G25A6/8	94070024	aluminium	25	25	6	8	7	11	M4	8	9	0,4
G25A6/10	94070023	aluminium	25	25	6	10	7	11	M4	8	9	0,4
G25A8	94070026	aluminium	25	25	8	8	7	11	M4	8	9	0,4
G25A8/10	94070027	aluminium	25	25	8	10	7	11	M4	8	9	0,4
G25A8/11	94070104	aluminium	25	25	8	11	7	11	M4	8	9	0,4
G25A9,52	94070030	aluminium	25	25	9,52 (3/8”)	9,52 (3/8”)	7	11	M4	8	9	0,4
G25A9(H7)	94070150	aluminium	25	25	9	9	7	11	M4	8	9	0,4
G 25 A 10	94070012	aluminium	25	25	10	10	7	11	M4	8	9	0,4
G25A10/12	94070014	aluminium	25	25	10	12	7	11	M4	8	9	0,4
G25A11	94070067	aluminium	25	25	11	11	7	11	M4	8	9	0,4
G30A6	94070113	aluminium	25	30	6	6	8	14	M4	9	12	0,4
G30A6/8	94070037	aluminium	25	30	6	8	8	14	M4	9	12	0,4
G30A6/10	94070034	aluminium	25	30	6	10	8	14	M4	9	12	0,4
G30A6,35/14	94070197	aluminium	25	30	6,35 (1/4”)	14	8	14	M4	9	12	0,4
G30A8	94070036	aluminium	25	30	8	8	8	14	M4	9	12	0,4
G30A10	94070051	aluminium	25	30	10	10	8	14	M4	9	12	0,4

please directly contact our offices for other holes diameter, preferred P/N in bold

SPECIAL APPLICATION COUPLINGS

Special application couplings are designed to meet extreme coupling conditions such as high torque or severe axial or radial play.
Please refer to single product description to identify right elastic coupling for your application.

GS-DA SERIES
GS-DA series are double loop plastic coupling with medium torsional stiffness, low restoring forces with impact and vibration damping effect.
It allows a smooth running, maintenance-free motion and a reliable compensation of radial, lateral and angular misalignments.
It is also thermally and electrically insulated.

GS-EA SERIES
GS-EA series are heavy duty helix coupling for multi-purpose use for backlash-free and angularly aligned transmission of rotary motions with high torsional stiffness with medium restoring forces. It gives vibration-damping effect and optimum compensation of misalignments.
It is produced from a single piece and has clamping hubs for shaft connections without causing any surface defects.

GS-EP SERIES
GS-EP series are low-cost shaft couplings manufactured using injection moulding technology with medium torsional stiffness, low restoring forces and vibration damping effect.
Metal inserts in the hubs allows reliable shaft connection and thanks to free slot area the shafts may project into the coupling.
It is also electrically insulated.

GS-M SERIES
GS-M series are multi-purpose couplings used for backlash-free transmission of rotary motions with high vibration-damping effect, good compensation of misalignments and low torsional stiffness and low restoring forces.
It has no moving parts, very robust design.

GS-O SERIES
GS-O series are elastic couplings where rotation is transmitted through a central disc that slides over the tenons on the hubs under controlled preload conditions to eliminate backlash.
These couplings provide generous radial compensation and easy maintenance.

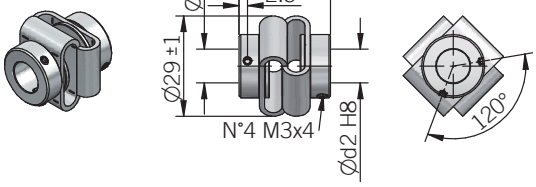
GS-S SERIES
GS-S series are bellows couplings for backlash-free and angularly aligned transmission with high vibration-damping effect, optimum compensation of misalignments with very high torsional stiffness and low restoring forces.
Design is very robust due to stainless steel bellows and also has clamping hubs for shaft connections without causing any surface defects.

SPECIAL APPLICATION ELASTIC COUPLINGS ORDERING CODE

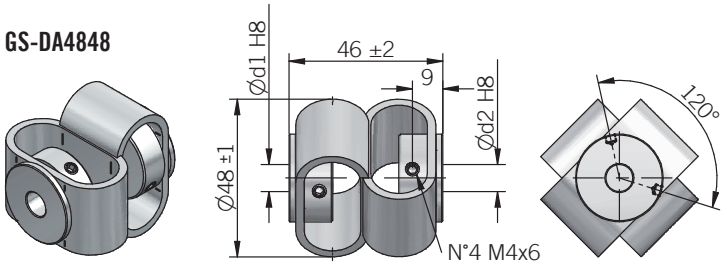
	P / N	Description
GS-DA2928-6 (former GS32A6)	94070188	Double loop plastic coupling 29 x 28 mm (ø 6 / 6 mm hole)
GS-DA2928-8 (former GS01A8)	94070050	Double loop plastic coupling 29 x 28 mm (ø 8 / 8 mm hole)
GS-DA2928-10 (former GS11A10)	94070091	Double loop plastic coupling 29 x 28 mm (ø 10 / 10 mm hole)
GS-DA4848-10 (former GS15A10)	94070112	Double loop plastic coupling 48 x 48 mm (ø 10 / 10 mm hole)
GS-EA1323-4 (former G13A4)	94070219	Aluminium coupling 13 x 23 mm (ø 4 / 4 mm hole)
GS-EP1520-6 (former GS21A6)	94070143	Plastic coupling with helical groove 15 x 20 mm (ø 6 / 6 mm hole)
GS-EP1520-4 (former GS22A4)	94070149	Plastic coupling with helical groove 15 x 20 mm (ø 4 / 4 mm hole)
GS-M1635-8 (former GS13A8)	94070115	Spring coupling 16 x 35 mm (ø 8 / 8 mm hole)
GS-M1635-10 (former GS30A10)	94070184	Spring coupling 16 x 35 mm (ø 10 / 10 mm hole)
GS-O1922-6 (former GS02A6)	94070061	Decomposable coupling Oldham 19 x 22 mm (ø 6 / 6 mm hole)
GS-O1922-10 (former GS16A10)	94070117	Decomposable coupling Oldham 19 x 22 mm (ø 10 / 10 mm hole)
GS-O1922-10/12 (former GS41A10/12)	94070218	Decomposable coupling Oldham 19 x 22 mm (ø 10 / 12 mm hole)
GS-S2530-10 (former GS25A10)	94070171	High pulses bellows coupling 25 x 30 mm (ø 10 / 10 mm hole)

please directly contact our offices for other models

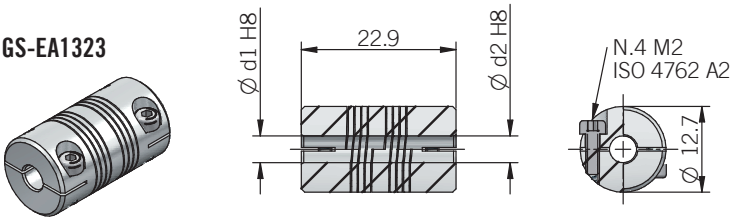
GS-DA2928



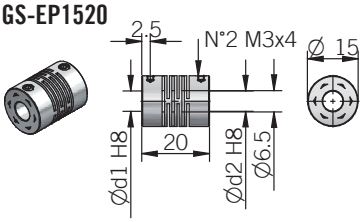
GS-DA4848



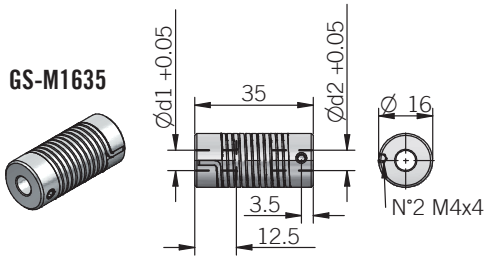
GS-EA1323



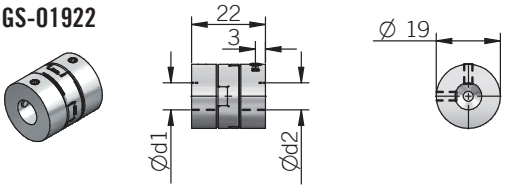
GS-EP1520



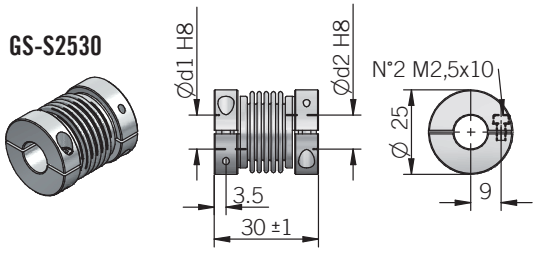
GS-M1635



GS-01922



GS-S2530



dimensions in mm

TECHNICAL DATA

	DA2928	DA4848	EA1323	EP1520	M1635	01922	S2530
Max speed (rpm)	3000	3000	5000	12000	3000	3000	10000
Max torque (Nm)	0,5	2	2	0,3	0,5	1,7	2
Max offset radial (mm)	± 2	± 3	± 0,17	± 0,3	± 1	± 0,2	± 0,3
Max offset axial (mm)	± 2	± 4	± 0,25	± 0,2	± 1	± 0,1	± 0,4
Max offset angular (°)	± 10	± 12	± 5	± 2,5	± 5	± 0,5	± 4
Moment of inertia (gcm²)	41	106	1,2	2	10	6,7	29,8
Max clamping torque (Nm)	1	1	0,3	0,7	1,5	0,94	1
Temperature range	-30° ... +80°C (-22° ... +176°F)	-30° ... +80°C (-22° ... +176°F)	-40° ... +140°C (-40° ... +284°F)	-10° ... +80°C (14° ... +176°F)	-30° ... +120°C (-22° ... +248°F)	-20° ... +60°C (-4° ... +140°F)	-30° ... +120°C (-22° ... +248°F)
Weight (g) (oz)	33 (1,16)	85 (3,00)	5 (0,18)	6 (0,21)	28 (0,99)	12 (0,42)	20 (0,71)
Flange material	steel galvanized	steel galvanized	aluminium	PA 66 glass fiber reinforced	zinc die casting	aluminium	aluminium
Insert material	poliurethan	poliurethan	aluminium	aluminium	spring steel	acetal	stainless steel