

STANDARD ELASTIC COUPLINGS

Eltra elastic couplings are essential parts for motion transmission to the encoder shaft.

Couplings are aluminium alloy made and are composed by a cylindrical body on which there is a helical groove that determines:

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

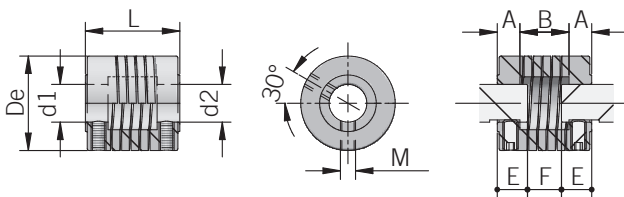
Elastic coupling can be supplied with different coupling diameters

Ordering code example: G 25 A 8 / 10 means $d_1 = 8 \text{ mm}$, $d_2 = 10 \text{ mm}$

STANDARD ELASTIC COUPLINGS ORDERING CODE

G	25	A	6	/ 8
SERIES precision elastic coupling G				
MODEL (see table) 20 (see table) 25 (see table) 30				
SHAFT FIXING TYPE shaft fixing with grub screw A				
HOLE DIAMETER d1 $\phi 6 \text{ mm}$ 6 (mod. G25 / G30) $\phi 8 \text{ mm}$ 8 $\phi 9,52 (3/8") \text{ mm}$ 9 $\phi 10 \text{ mm}$ 10				
(DO NOT ADD IF $d_2 = d_1$) HOLE DIAMETER d2 $\phi 6 \text{ mm}$ 6 (mod. G25 / G30) $\phi 8 \text{ mm}$ 8 $\phi 9,52 (3/8") \text{ mm}$ 9 $\phi 10 \text{ mm}$ 10				

MECHANICAL DIMENSIONS

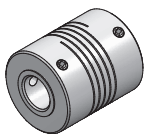


dimensions in mm

STANDARD COUPLINGS

Type of material: aluminium

For other holes (d_1 - d_2) contact our offices directly.



Standard couplings	P / N	De	L	d1 = d2		A	B	M	E	F	Torque	
G 20 A 6	94070006	$\phi 20$	20	$+0.1$ -0.1	$\phi 6H7$	$+0.012$ 0	6	8	M3	7	6	0.25 Nm
G 25 A 8	94070026	$\phi 25$	25	$+0.1$ -0.1	$\phi 8H7$	$+0.015$ 0	7	11	M4	8	9	0.4 Nm
G 25 A 9	94070030	$\phi 25$	25	$+0.1$ -0.1	$\phi 9,52H7$	$+0.015$ 0	7	11	M4	8	9	0.4 Nm
G 25 A 10	94070012	$\phi 25$	25	$+0.1$ -0.1	$\phi 10H7$	$+0.015$ 0	7	11	M4	8	9	0.4 Nm
G 30 A 10	94070051	$\phi 25$	30	$+0.1$ -0.1	$\phi 10H7$	$+0.015$ 0	8	14	M4	9	12	0.4 Nm

For proper installation it is recommended to insert shafts in the coupling observing "E" dimensions.

SPECIAL APPLICATION ELASTIC 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.

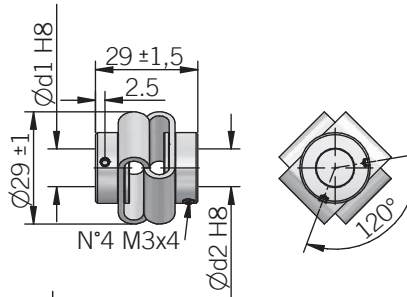
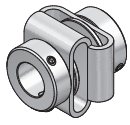
Design is very robust due to stainless steel bellows and also has clamping hubs for shaft connections without causing any surface defects.

SPECIAL APPLICATION ELASTIC COUPLINGS ORDERING CODE

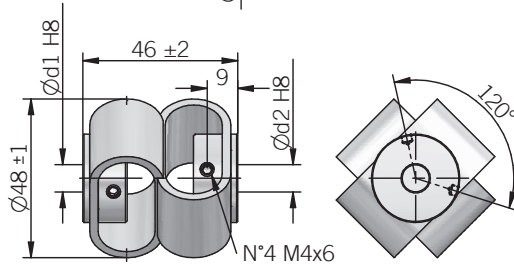
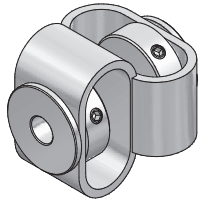
P / N	Code	Description
94070188	GS-DA2928-6 (former GS32A6)	Double loop plastic coupling 29 x 28 mm (ø 6 / 6 mm hole)
94070050	GS-DA2928-8 (former GS01A8)	Double loop plastic coupling 29 x 28 mm (ø 8 / 8 mm hole)
94070091	GS-DA2928-10 (former GS11A10)	Double loop plastic coupling 29 x 28 mm (ø 10 / 10 mm hole)
94010112	GS-DA4848-10 (former GS15A10)	Double loop plastic coupling 48 x 48 mm (ø 10 / 10 mm hole)
94070219	GS-EA1323-4 (former G13A4)	Aluminium coupling 13 x 23 mm (ø 4 / 4 mm hole)
94070143	GS-EP1520-6 (former GS21A6)	Plastic coupling with helical groove 15 x 20 mm (ø 6 / 6 mm hole)
94070149	GS-EP1520-4 (former GS22A4)	Plastic coupling with helical groove 15 x 20 mm (ø 4 / 4 mm hole)
94070115	GS-M1635-8 (former GS13A8)	Spring coupling 16 x 35 mm (ø 8 / 8 mm hole)
94070184	GS-M1635-10 (former GS30A10)	Spring coupling 16 x 35 mm (ø 10 / 10 mm hole)
94070061	GS-O1922-6 (former GS02A6)	Decomposable coupling Oldham 19 x 22 mm (ø 6 / 6 mm hole)
94070117	GS-O1922-10 (former GS16A10)	Decomposable coupling Oldham 19 x 22 mm (ø 10 / 10 mm hole)
94070218	GS-O1922-10/12 (former GS41A10/12)	Decomposable coupling Oldham 19 x 22 mm (ø 10 / 12 mm hole)
94070171	GS-S2530-10 (former GS25A10)	High pulses bellows coupling 25 x 30 mm (ø 10 / 10 mm hole)

please directly contact our offices for other models

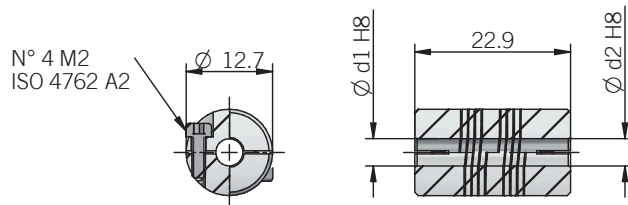
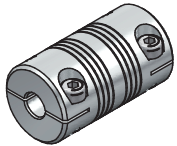
GS-DA2928



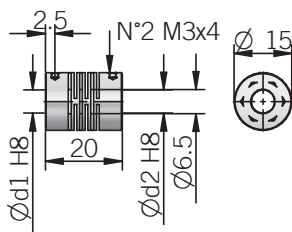
GS-DA4848



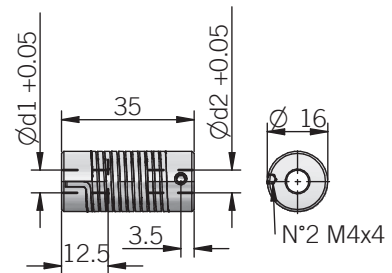
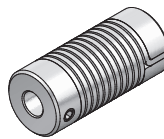
GS-EA1323



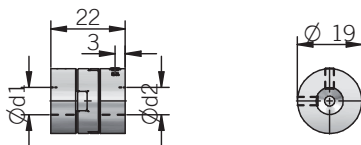
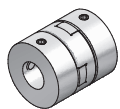
GS-EP1520



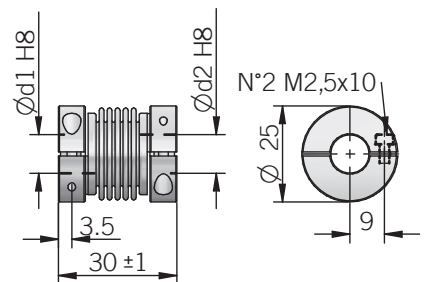
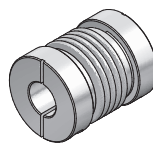
GS-M1635



GS-O1922



GS-S2530



dimensions in mm

TECHNICAL DATA	DA2928	DA4848	EA1323	EP1520	M1635	O1922	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	$\pm 0,17$	$\pm 0,3$	± 1	$\pm 0,2$	$\pm 0,3$
Max offset axial (mm)	± 2	± 4	$\pm 0,25$	$\pm 0,2$	± 1	$\pm 0,1$	$\pm 0,4$
Max offset angular (°)	± 10	± 12	± 5	$\pm 2,5$	± 5	$\pm 0,5$	± 4
Moment of inertia (gcm ²)	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