# ELASTIC COUPLING
OF PRECISION

ISO 9001:2000

## ELASTIC COUPLING

ELTRA elastic precision couplings are essential parts for the transmission of rotational motion to the encoder shaft. Couplings are designed in aluminium alloy (type D11S A.A 2011) and are composed by a cylindrical body on which there is an helicoidal groove.
Main characteristics are:
- torsion rigidity;
- ability to support slight shaft masadjustments;
- ability to absorbe small axial shift of the shaft.

ELTRA elastic couplings have also a perfect balancing of the rotating body. They don't have critical points subjects to breakage and are completely frictionless. Moreover, they perfectly transmit the rotation motion, even in case of axial misadjustment and misalignment. Our coupling do not require any type of maintenance. The internal drain allows the coupling between the shafts from a minimum of 0.5 mm to a maximum of 6-12 mm (see share "F").

NOTE: elastic coupling can be supplied with different coupling diameters. Eg.: d1=8, d2=10. In this case the identification code should be G25A8/10.

## ORDERING CODE

**G 25 A 6 / 8**

**SERIES**
Elastic coupling of precision G

**SIZE**
(see table) 16
(see table) 20
(see table) 25
(see table) 30

**SHAFT DOWEL FIXING**
A

**ø BORE "d1"**
ø 6 mm 6
ø 8 mm 8
ø 9.52 (3/8") mm 9
ø 10 mm 10

**ø BORE "d2"**
ø 6 mm 6
ø 8 mm 8
ø 9.52 (3/8") mm 9
ø 10 mm 10
*Note: if d1 is equal to d2 that is not necessary*

## Construction data and specifications

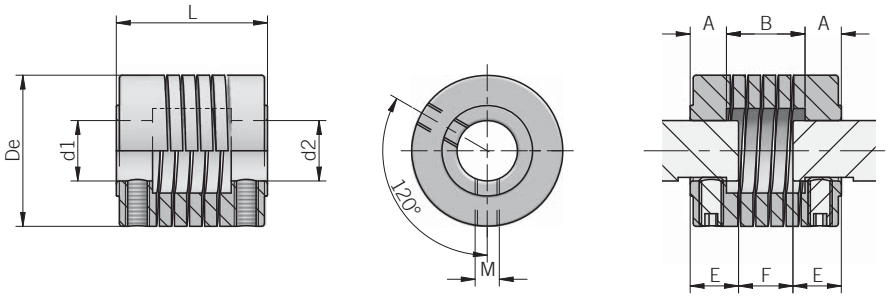
Type of material: ALUMINIUM

NOTE: for non standard (d1-d2) please contact our offices.

| Standard coupling code | De | L | | d1 = d2 | | A | B | M | E | F | Twisting moment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| G 16 A 4 | ø 16 | 20 | $^{+0.1}_{-0.1}$ | ø 4H7 | $^{+0.012}_{0}$ | 6 | 8 | M3 | 7 | 6 | 0.25 Nm |
| G 20 A 6 | ø 20 | 20 | $^{+0.1}_{-0.1}$ | ø 6H7 | $^{+0.012}_{0}$ | 6 | 8 | M3 | 7 | 6 | 0.25 Nm |
| G 25 A 8 | ø 25 | 25 | $^{+0.1}_{-0.1}$ | ø 8H7 | $^{+0.015}_{0}$ | 7 | 11 | M4 | 8 | 9 | 0.4 Nm |
| G 25 A 9 | ø 25 | 25 | $^{+0.1}_{-0.1}$ | ø 9.52H7 | $^{+0.015}_{0}$ | 7 | 11 | M4 | 8 | 9 | 0.4 Nm |
| G 25 A 10 | ø 25 | 25 | $^{+0.1}_{-0.1}$ | ø 10H7 | $^{+0.015}_{0}$ | 7 | 11 | M4 | 8 | 9 | 0.4 Nm |
| G 30 A 10 | ø 25 | 30 | $^{+0.1}_{-0.1}$ | ø 10H7 | $^{+0.015}_{0}$ | 8 | 14 | M4 | 9 | 12 | 0.4 Nm |

NOTE FOR THE INSTALLER: it is suggested to respect quotes inserting shaft on the coupling.

## COUPLING DIMENSIONS

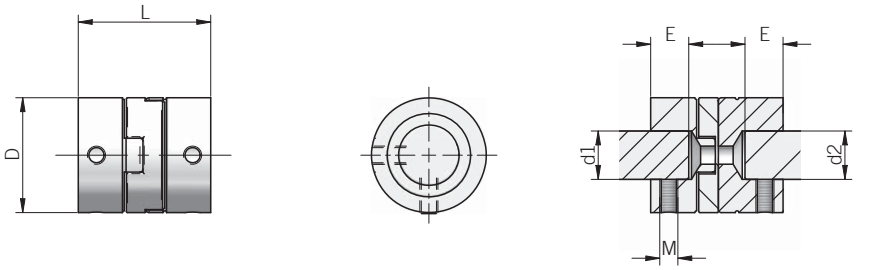


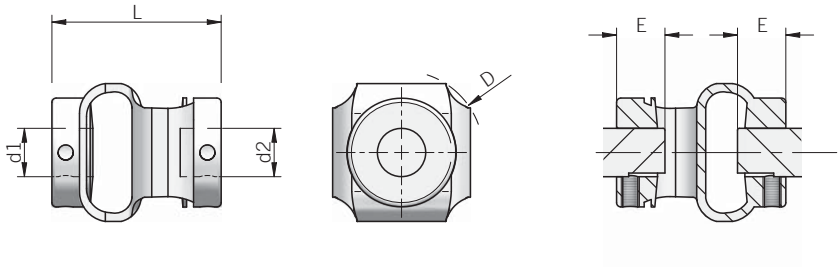
## Construction data and specifications

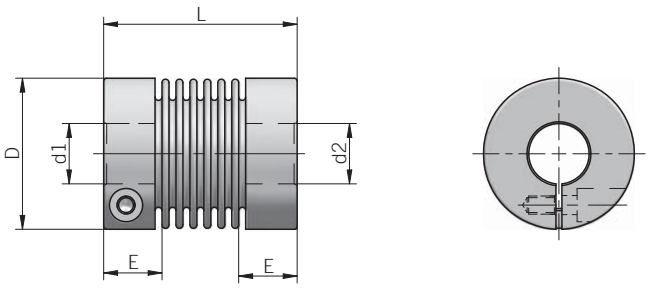
| Ordering code | De | L | d1 = d2 | A | B | M | E | F | Twisting moment |
|---|---|---|---|---|---|---|---|---|---|
| GS 02A 6 | ø 19.1 | 22 $^{+0.1}_{-0.1}$ | ø 6H7 $^{+0.012}_{0}$ | | | M3 | 6.3 | | 0.9 Nm |
| GS 10A 8 | ø 19.1 | 22 $^{+0.1}_{-0.1}$ | ø 8H7 $^{+0.012}_{0}$ | | | M3 | 6.3 | | 0.9 Nm |
| GS 16A 10 | ø 19.1 | 22 $^{+0.1}_{-0.1}$ | ø 10H7 $^{+0.012}_{0}$ | | | M3 | 6.3 | | 0.9 Nm |
| GS 01A 8 | ø 19.1 | 28 $^{+0.1}_{-0.1}$ | ø 8H7 $^{+0.012}_{0}$ | | | M3 | 8 | | 0.35 Nm |
| GS 11A 10 | ø 19.1 | 28 $^{+0.1}_{-0.1}$ | ø 10H7 $^{+0.012}_{0}$ | | | M3 | 8 | | 0.35 Nm |
| GS 15A 10 | ø 19.1 | 47 $^{+0.1}_{-0.1}$ | ø 10H7 $^{+0.012}_{0}$ | | | M4 | 12.6 | | 1.4 Nm |
| GS 23A 12 | ø 19.1 | 47 $^{+0.1}_{-0.1}$ | ø 12H7 $^{+0.012}_{0}$ | | | M4 | 12.6 | | 1.4 Nm |
| GS 29A 6 | ø 25 | 32 $^{+0.1}_{-0.1}$ | ø 6H7 $^{+0.012}_{0}$ | | | M3 | 10 | | 3 Nm |
| GS 24A 8 | ø 25 | 32 $^{+0.1}_{-0.1}$ | ø 8H7 $^{+0.012}_{0}$ | | | M3 | 10 | | 3 Nm |
| GS 25A 10 | ø 25 | 32 $^{+0.1}_{-0.1}$ | ø 10H7 $^{+0.012}_{0}$ | | | M3 | 10 | | 3 Nm |

NOTE FOR THE INSTALLER: it is suggested to respect quotes inserting shaft on the coupling.

Eltra also produces a special coupling series designed especially for critic and heavy uses. On the table below are shown some special couplings available on stock. Different couplings available only on request.







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