

Main characteristics

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:

- torsional rigidity
- ability to support slight shaft misadjustments
- ability to absorb 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 0.5mm to a maximum of 6.12mm (note "F" quota).

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

Ordering code

G 25 A 6 / 8

Precision elastic Coupling	G
Coupling size	
(see table)	16
(see table)	20
(see table)	25
(see table)	30
Shaft dowel fixing	
	A
ø hole "d1"	
ø 6	6
ø 8	8
ø 9.52 (3/8")	9
ø 10	10
ø hole "d2"	
ø 6	6
ø 8	8
ø 9.52 (3/8")	9
ø 10	10

NOTE: if d1 is equal to d2 that is not necessary

Construction data and specifications

Type of material:
Aluminium

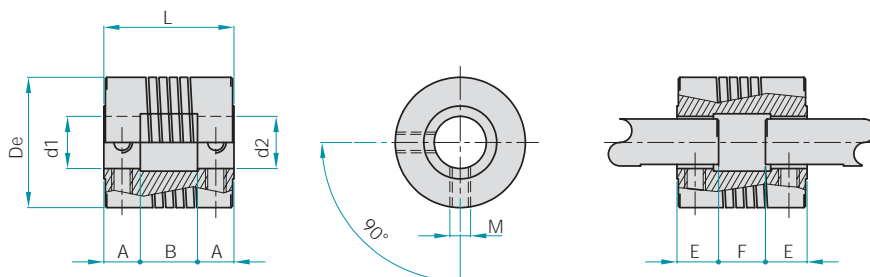
NOTE: for non standard (d1-d2) please contact our offices.



Standard couplings	De	L	d1 = d2	A	B	M	E	F	Twisting moment
G 13 A 4	ø 13,7	22 ^{+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	8	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

Couplings dimensions



Construction data and specifications



Ordering code	De	L	d1 = d2	A	B	M	E	F	Twisting moment
GS 02A 6	∅ 19,1	22 ^{+0,1} / _{-0,1}	∅ 6H7 ^{+0,012} / ₀			M3	6,3		0,9 Nm
GS 10A 8	∅ 19,1	22 ^{+0,1} / _{-0,1}	∅ 8H7 ^{+0,012} / ₀			M3	6,3		0,9 Nm
GS 16A 10	∅ 19,1	22 ^{+0,1} / _{-0,1}	∅ 10H7 ^{+0,012} / ₀			M3	6,3		0,9 Nm
GS 01A 8	∅ 19,1	28 ^{+0,1} / _{-0,1}	∅ 8 ^{+0,012} / ₀			M3	8		0,35 Nm
GS 11A 10	∅ 19,1	28 ^{+0,1} / _{-0,1}	∅ 10H7 ^{+0,012} / ₀			M3	8		0,35 Nm
GS 15A 10	∅ 19,1	47 ^{+0,1} / _{-0,1}	∅ 10H7 ^{+0,012} / ₀			M4	12,6		1,4 Nm
GS 23A 12	∅ 19,1	47 ^{+0,1} / _{-0,1}	∅ 12H7 ^{+0,012} / ₀			M4	12,6		1,4 Nm
GS 29A 6	∅ 25	32 ^{+0,1} / _{-0,1}	∅ 6H7 ^{+0,012} / ₀			M3	10		3 Nm
GS 24A 8	∅ 25	32 ^{+0,1} / _{-0,1}	∅ 8H7 ^{+0,012} / ₀			M3	10		3 Nm
GS 25A 10	∅ 25	32 ^{+0,1} / _{-0,1}	∅ 10H7 ^{+0,012} / ₀			M3	10		3 Nm

NOTE FOR THE INSTALLER: For a proper installation is suggested to insert shaft on the coupling respecting quotes

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.

