

Series CO motion transmission devices

Mod. COE: elastomer coupling with clamps

Mod. COS: elastomer coupling with expansion shaft

Mod. COT: self-centering locking-set



The motion transmission devices are necessary for a proper connection of electromechanical axes and cylinders with motors or gearboxes.

Mod. COE couplings are composed of two hubs with a high concentricity clamp and an elastomeric element.

Mod. COS couplings are composed of one hub with a high concentricity clamp, a hub with expansion shaft and an elastomeric element.

The torque transmission is performed without angular play or vibrations. Both couplings are without angular play thanks to the pretensioning of the elastomer between the two semi-couplings.

Mod. COT locking-sets are composed by an internal and an external conical ring connected with each other by means of several screws. Through the tightening of the screws, an axial force is generated that enables the torque transmission from the shaft to the hub.

AVAILABLE STANDARD DIAMETERS

Size	6.35	8	10	11	12	12.7	14	15	16	19	20	22	24	25	32
5	x	x	x	x											
10	x	x	x		x	x	x	x	x						
20					x		x	x	x	x	x	x	x		
60							x		x	x	x		x	x	x

MOD. COE CODING EXAMPLE

COE	-	10	-	1200	-	1400	-	A
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COE	SERIES MODEL
10	SIZE: 05 10 20 60
1200	<p>HOLE DIAMETER 1: 0635 = 6,35 mm (for sizes 5 and 10 only) 0800 = 8,00 mm (for sizes 5 and 10 only) 1000 = 10,00 mm (for sizes 5 and 10 only) 1100 = 11,00 mm (for size 5 only) 1200 = 12,00 mm (for sizes 10 and 20 only) 1400 = 14,00 mm (for sizes 10, 20 and 60 only) 1500 = 15,00 mm (for sizes 10 and 20 only)</p> <p>1600 = 16,00 mm (for sizes 10, 20 and 60 only) 1900 = 19,00 mm (for sizes 20 and 60 only) 2000 = 20,00 mm (for sizes 20 and 60 only) 2400 = 24,00 mm (for sizes 20 and 60 only) 2500 = 25,00 mm (for size 60 only) 3200 = 32,00 mm (for size 60 only)</p>
1400	<p>HOLE DIAMETER 2: 0635 = 6.35mm (for sizes 5 and 10 only) 0800 = 8.00mm (for sizes 5 and 10 only) 1000 = 10.00mm (for sizes 5 and 10 only) 1100 = 11.00mm (for size 5 only) 1200 = 12.00mm (for sizes 10 and 20 only) 1270 = 12.70mm (for size 10 only) 1400 = 14.00mm (for sizes 10, 20 and 60 only) 1500 = 15.00mm (for sizes 10 and 20 only)</p> <p>1600 = 16.00mm (for sizes 10, 20 and 60 only) 1900 = 19.00mm (for sizes 20 and 60 only) 2000 = 20.00mm (for sizes 20 and 60 only) 2200 = 22.00mm (for size 20 only) 2400 = 24.00mm (for sizes 20 and 60 only) 2500 = 25.00mm (for size 60 only) 3200 = 32.00mm (for size 60 only)</p>
A	<p>ELASTOMER HARDNESS: A = 98 Sh A B = 64 Sh D (for sizes 10 and 20 only)</p>

Elastomer coupling with clamps Mod. COE



DC: hole 1 diameter
DM: hole 2 diameter
See the CODING EXAMPLE

Size	DE	DB	DI	A	C	F	G	B1 [ISO 4762]	Tightening torque (Nm)	Nominal torque with elastomer A (Nm) ^(A)	Nominal torque with elastomer B (Nm) ^(A)	Max torque with elastomer A (Nm) ^(B)	Max torque with elastomer B (Nm) ^(B)
05	25	25	10.2	26	8	8	4	M3 (CH2.5)	2	9	-	18	-
10	32	32	14.2	32	10.3	10.5	5	M4 (CH3)	4	12.5	16	25	32
20	42	44.5	19.2	50	17	15.5	8.5	M5 (CH4)	8	17	21	34	42
60	56	57	26.2	58	20	21	10	M6 (CH5)	15	60	-	120	-

^(A) Continuously applicable torque, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com
^(B) Torque applicable for short intervals, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com

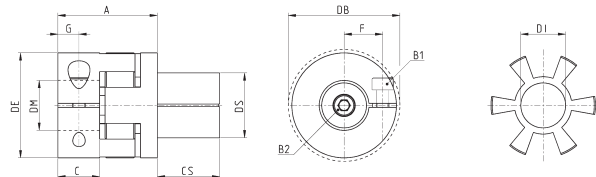
MOD. COS CODING EXAMPLE

COS	-	10	-	2000	-	1400	-	A
COS	SERIES MODEL							
10	SIZE: 10 20 60							
2000	SHAFT DIAMETER: 2000 = 20.00mm (for size 10 only) 2600 = 26.00mm (for size 20 only) 3800 = 38.00mm (for size 60 only)							
1400	HOLE DIAMETER: 0635 = 6.35mm (for size 10 only) 0800 = 8.00mm (for size 10 only) 1000 = 10.00mm (for size 10 only) 1200 = 12.00mm (for sizes 10 and 20 only) 1270 = 12.70mm (for size 10 only) 1400 = 14.00mm (for sizes 10, 20 and 60 only) 1500 = 15.00mm (for sizes 10 and 20 only) 1600 = 16.00mm (for sizes 10, 20 and 60 only) 1900 = 19.00mm (for sizes 20 and 60 only) 2000 = 20.00mm (for sizes 20 and 60 only) 2200 = 22.00mm (for size 20 only) 2400 = 24.00mm (for sizes 20 and 60 only) 2500 = 25.00mm (for size 60 only) 3200 = 32.00mm (for size 60 only)							
A	ELASTOMER HARDNESS: A = 98 Sh A B = 64 Sh D (for sizes 10 and 20 only)							

Elastomer coupling with expansion shaft Mod. COS



DS: shaft diameter
DM: hole diameter
See the CODING EXAMPLE

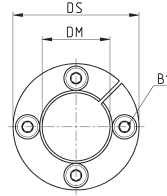
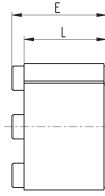


Size	ρ_{DE}	ρ_{DB}	ρ_{DI}	A	C	CS	F	G	B1 [ISO4762]	Tightening torque (Nm)	B2 [ISO4762]	Tightening torque (Nm)	Nominal torque with elastomer A (Nm) ^(A)	Nominal torque with elastomer B (Nm) ^(A)	Max torque with elastomer A (Nm) ^(B)	Max torque with elastomer B (Nm) ^(B)
10	32	32	14.2	28	10.3	20	10.5	5	M4 (CH3)	4	M5 (CH4)	9	12.5	16	25	32
20	42	44.5	19.2	40	17	25	15.5	8.5	M5 (CH4)	8	M6 (CH5)	12	17	21	34	42
60	56	57	26.2	46	20	27	21	10	M6 (CH5)	15	M8 (CH6)	32	60	-	120	-

^(A) Continuously applicable torque, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com

^(B) Torque applicable for short intervals, under ideal mounting and operating conditions. For further details, please contact service@camozzi.com

Self-centering locking-set Mod. COT



SERIES CO MOTION TRANSMISSION DEVICES

Mod.	\varnothing_{DS}	\varnothing_{DM}	L	E	B1	Torque force (Nm)	Max torque (Nm) ^(A)	Weight (g)
COT-1800-0800	18	8	11	13,5	M2.5 (CH2.5)	1,2	8	16
COT-2000-1000	20	10	13	15,5	M2.5 (CH2.5)	1,2	14	25
COT-2200-1200	22	12	13	15,5	M2.5 (CH2.5)	1,2	15	27
COT-2600-1400	26	14	17	20	M3 (CH2.5)	2,1	30	50
COT-2800-1500	28	15	17	20	M3 (CH2.5)	2,1	32	58
COT-3500-1900	35	19	21	25	M4 (CH3)	4,9	70	113
COT-3800-2000	38	20	21	26	M5 (CH4)	4,9	125	140
COT-4700-2400	47	24	26	32	M6 (CH5)	17	210	200
COT-4700-2500	47	25	26	32	M6 (CH5)	17	215	200

^(A) value refers to ideal mounting and operating conditions.
For further details, please contact service@camozzi.com