

“M” execution with clamp hubs

This type of coupling permits quick, sure fixing, without any shaft-hub backlash.

With the keyless coupling type, the torque applied for tightening

down the screws (Ms) must be as given in the table.

The M coupling type is available with or without keyway.

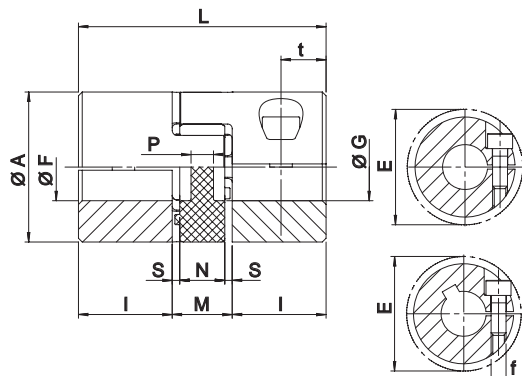


Fig. 1

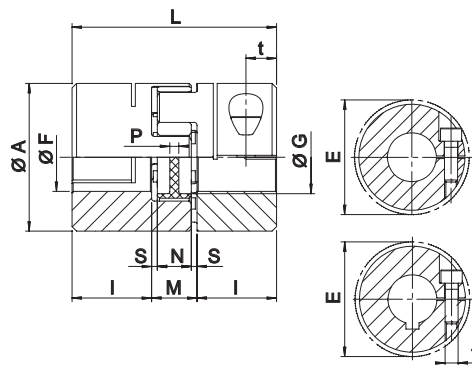


Fig. 2

Size	F min [mm]	F max [mm]	f	Ms [Nm]	Hub		n _{max} [min ⁻¹]
					W [kg]	J [kgm ²]	
ALUMINUM HUBS							
7	3	7	M2	0,35	0,003	0,085 x 10 ⁻⁶	40.000
9	4	9	M2,5	0,75	0,007	0,42 x 10 ⁻⁶	28.000
14	6	15	M3	1,4	0,018	2,6 x 10 ⁻⁶	19.000
19/24	10	20	M6	11	0,071	18,1 x 10 ⁻⁶	14.000
24/28	10	28	M6	11	0,156	74,9 x 10 ⁻⁶	10.600
28/38	14	35	M8	25	0,240	163,9 x 10 ⁻⁶	8.500
38/45	19	45	M8	25	0,440	465,5 x 10 ⁻⁶	7.100
STEEL HUBS							
42	25	50	M10	70	2,100	3.095 x 10 ⁻⁶	6.000
48	25	55	M12	120	2,900	5.160 x 10 ⁻⁶	5.600
55	35	70	M12	120	4,000	9.737 x 10 ⁻⁶	5.000
65	40	80	M14	190	5,800	17.974 x 10 ⁻⁶	4.600

Keyway position	A [mm]	G [mm]	L [mm]	I [mm]	M [mm]	N [mm]	S [mm]	P [mm]	t [mm]	E [mm]	Fig.
-	14	-	22	7	8	6	1,0	6	4	15,0	1
-	20	7,2	30	10	10	8	1,0	2	5	23,4	1
180°	30	10,5	35	11	13	10	1,5	2	5,5	32,2	1
120°	40	18	66	25	16	12	2,0	3,5	12	45,7	1
90°	55	27	78	30	18	14	2,0	4	12	56,4	2
90°	65	30	90	35	20	15	2,5	5,2	13,5	72,6	2
90°	80	38	114	45	24	18	3,0	5,6	16	83,3	2
STEEL HUBS											
-	95	46	126	50	26	20	3,0	5,6	20	78,8	2
-	105	51	140	56	28	21	3,5	6	21	108,0	2
-	120	60	160	65	30	22	4,0	9	26	122,0	2
-	135	68	185	75	35	26	4,5	8,3	27,5	139,0	2

From size 7 to 19/24: single slot execution
From size 24/28 to 65: double slot execution

Hub GESM 48 F50

GESM: TRASCO® ES hub

Size

F...: bore diameter
F...C: bore diameter and keyway

Spider AES 24/28 R

TRASCO® ES spider

Size

B: 80 Sh A (blue)
G: 92 Sh A (yellow)
R: 98 Sh A (red)
V: 64 Sh D (green)

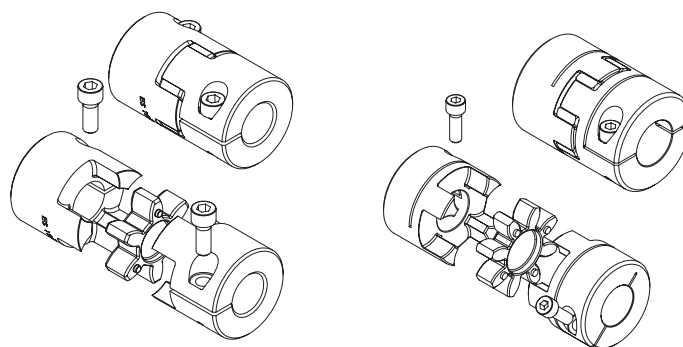


Fig. 1

Fig. 2

M _S	Screw tightening torque	Nm
W	Weight	kg
J	Coupling moment of inertia	kgm ²
n _{max}	Maximum rpm	min ⁻¹

Technical characteristics

The following technical characteristics apply to all types of TRASCO® ES couplings.

When using the M, A and AP versions, check the torque values given in the table against the allowable hub transmission values for the respective versions given in the pertinent sections.

TRASCO® ES couplings can withstand axial, radial, and angular misalignment.

Even after operating for an extended period with a misalignment, there is still zero backlash because the elastic element is only stressed by pressure loads.

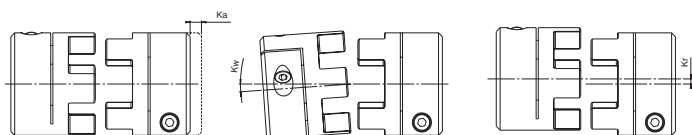
When an application causes a high degree of misalignment, a double flexing type coupling can be provided which avoids the formation of reaction forces.

Please contact our Engineering Office.

Size	Shore	T _{KN} [Nm]	T _{Kmax} [Nm]	C _T stat. [Nm/rad]	C _T din. [Nm/rad]	C _r [N/mm]	ΔK _a [mm]	ΔK _r [mm]	ΔK _w [°]
7	92 Sh.A (yellow)	1,2	2,4	14,3	43	219	0,6	0,1	1
	98 Sh.A (red)	2	4	22,9	69	421	0,6	0,06	0,9
	64 Sh.D (green)	2,4	4,8	34,8	103	630	0,6	0,04	0,8
9	92 Sh.A (yellow)	3	6	31,5	95	262	0,8	0,13	1
	98 Sh.A (red)	5	10	51,6	155	518	0,8	0,08	0,9
	64 Sh.D (green)	6	12	74,6	224	739	0,8	0,05	0,8
14	92 Sh.A (yellow)	7,5	15	114,6	344	336	1	0,15	1
	98 Sh.A (red)	12,5	25	171,9	513	604	1	0,09	0,9
	64 Sh.D (green)	16	32	234,2	702	856	1	0,06	0,8
19/24	80 Sh.A (blu)	5	10	370	1120	740	1,2	0,15	1,1
	92 Sh.A (yellow)	10	20	820	1920	1260	1,2	0,1	1
	98 Sh.A (red)	17	34	990	2350	2210	1,2	0,06	0,9
	64 Sh.D (green)	21	42	1470	4470	2970	1,2	0,04	0,8
24/28	80 Sh.A (blu)	17	34	860	1390	840	1,4	0,18	1,1
	92 Sh.A (yellow)	35	70	2300	5130	1900	1,4	0,14	1
	98 Sh.A (red)	60	120	3700	8130	2940	1,4	0,1	0,9
	64 Sh.D (green)	75	150	4500	11500	4200	1,4	0,07	0,8
28/38	80 Sh.A (blu)	46	92	1370	2350	990	1,5	0,2	1,3
	92 Sh.A (yellow)	95	190	3800	7270	2100	1,5	0,15	1
	98 Sh.A (red)	160	320	4200	10800	3680	1,5	0,11	0,9
	64 Sh.D (green)	200	400	7350	18400	4900	1,5	0,08	0,8
38/45	92 Sh.A (yellow)	190	380	5600	12000	2900	1,8	0,17	1
	98 Sh.A (red)	325	650	8140	21850	5040	1,8	0,12	0,9
	64 Sh.D (green)	405	810	9900	33500	6160	1,8	0,09	0,8
42	92 Sh.A (yellow)	265	530	9800	20500	4100	2	0,19	1
	98 Sh.A (red)	450	900	15180	34200	5940	2	0,14	0,9
	64 Sh.D (green)	560	1120	16500	71400	7590	2	0,1	0,8
48	92 Sh.A (yellow)	310	620	12000	22800	4500	2,1	0,23	1
	98 Sh.A (red)	525	1050	16600	49400	6820	2,1	0,16	0,9
	64 Sh.D (green)	655	1310	31350	102800	9000	2,1	0,11	0,8
55	92 Sh.A (yellow)	410	820	13000	23100	3200	2,2	0,24	1
	98 Sh.A (red)	685	1370	24000	63400	7100	2,2	0,17	0,9
	64 Sh.D (green)	825	1650	42160	111700	9910	2,2	0,12	0,8
65	92 Sh.A (yellow)	900	1800	38500	97200	6410	2,6	0,25	1
	98 Sh.A (red)	1040	2080	39800	99500	6620	2,6	0,18	0,9
75	98 Sh.A (red)	1920	3840	79150	150450	8650	3,0	0,21	0,9

All the technical data in the catalogue are valid for rotation speeds of 1500 rpm and a working temperature of 30 °C. For linear speed over 30 m/s, dynamic balancing is recommended.

Misalignments



Assial

Angular

Radial

T _{KN}	Coupling nominal torque	Nm
T _{Kmax}	Coupling maximum torque	Nm
C _T	Torsional rigidity	Nm/rad
C _r	Radial stiffness	N/mm
ΔK _a	Maximum axial misalignment	mm
ΔK _r	Maximum radial misalignment	mm
ΔK _w	Maximum angular misalignment	°