

Elastomer dog couplings

with radial clamping hub and intermediate tube



Material, surface finish:

Elastomer spider in polyurethane, shore hardness 98-A. Hub in aluminium, natural finish. Intermediate tube: aluminium

Sample order:

nIm 23025-020X0500
 (please also indicate dimension L4 = 500 mm)
 D1 = 7
 D2 = 7
 (The hubs are supplied predrilled).

Note:

This serie of couplings captivate due to the simple and cost-effective solution with a intermediate tube, which is variable in length and Elastomer Dog Couplings arranged on both sides (see 23022).

Benefits are the very low moment of inertia, low weight as well as the high admissible displacement values for shaft alignment. In the example of linear robots in packaging and printing machines this low-maintenance, rust-free coupling represents a good alternative. The tightening torque of the clamping screws see technical data of 23022. By application with more than 1500 r.p.m. speed and a total coupling length L4 of more than 2 m, please contact us first.

Max. shaft displacement axial: ±1 mm.

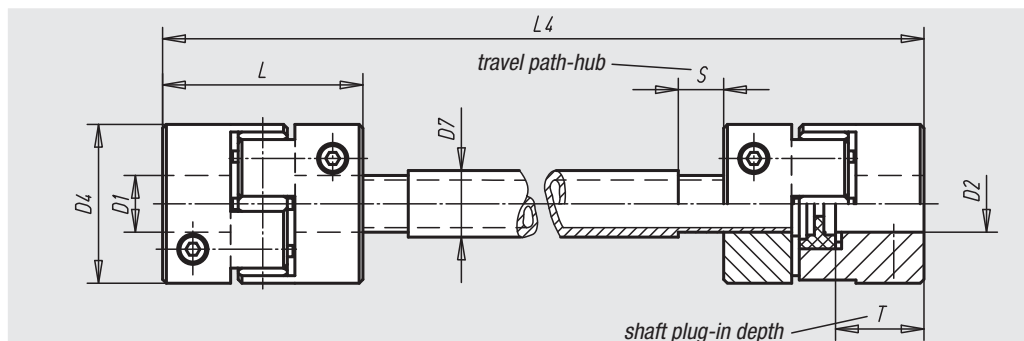
Max. shaft displacement lateral: 5 mm per meter.

Advantages:

- Plug-in, backlash-free, vibration absorption
- customized length up to 3 m
- radial clamping hub for simple installation
- to 400 Nm

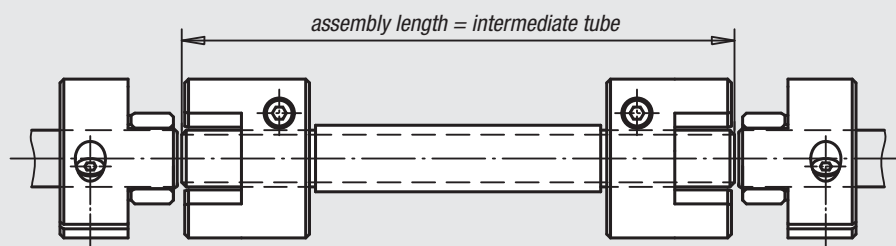
On request:

Desired hub holes D1 and D2 separately with tolerance class or tolerance zone.



Assembly and Length Calculation:

The combination of the easy assembly clamp hub version of 23022 and push fits on the intermediate tube guarantee quick and easy assembly or dismantling of 23025. There is no need of axial displacement to do this as either half of the coupling on the intermediate tube can be inserted between the ends of the shaft as a spacer. Plug-in connection of the coupling hub to the elastomer star is achieved by means of a small, manual axial force. The hubs are attached to the shaft or the ends of the tube by only one radial clamping bolt in each case, taking account of the structural dimension L.



$$L4 = X + 2T$$

X = shaft distance
 T = plug-in depth

Order No.	Size	Nominal torque Nm	Moment of inertia (10 ⁻³ kgm ²) 0,5 m	Moment of inertia (10 ⁻³ kgm ²) 1,0 m	Moment of inertia (10 ⁻³ kgm ²) 2,0 m	Torsion resistance Nm/arcmin 0,5 m	Torsion resistance Nm/arcmin 1,0 m	Torsion resistance Nm/arcmin 2,0 m
23025-020X	20	20	0,08	0,1	-	0,1	0,07	-
23025-045X	45	45	0,27	0,36	0,56	0,25	0,19	0,13
23025-090X	90	90	0,45	0,54	0,74	0,3	0,23	0,15
23025-200X	200	200	0,9	1,1	1,4	0,5	0,4	0,3
23025-400X	400	400	2,5	3,2	4,5	1,2	1	0,8

Order No.	D1/D2 predrilled	D1/D2 min.	D1/D2 max.	D4	D7	L	L4 min.	S	T min.	T max.
23025-020X	7	10	20	40	35	50	132	16	16	20
23025-045X	9	13	26	50	50	58	152	18	18	25
23025-090X	12	15	29	60	50	62	160	18	20	26
23025-200X	15	22	33	70	60	73	186	20	23	30
23025-400X	18	30	42	85	80	86	220	24	28	35