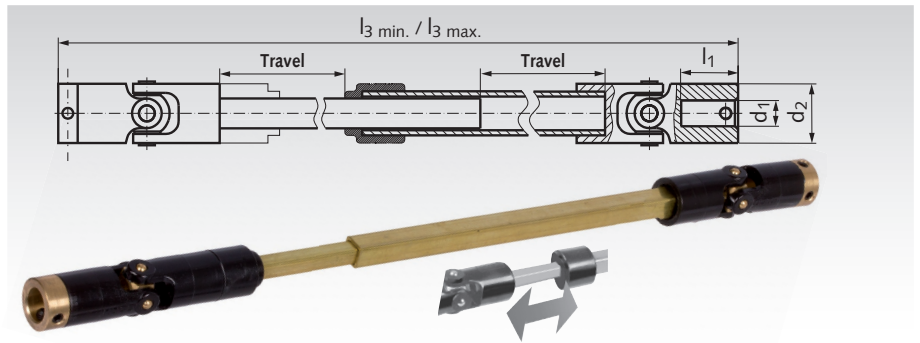


## Telescopic Universal-Joint Shafts UW Made from Plastic and Brass

**Material:** Polyacetal (black).  
 Metal caps and Cross-pieces: Brass.  
 Joint faces are fitted with brass inserts,  
 with 2 set screws per hub.  
 Temperature range: -20 °C to + 60 °C.



Ordering Details: e.g.: Product No. 630 811 00,  
 Telescopic Universal-Joint Shaft UW, 5 mm Bore

Product No.	$d_1^{+0,03^{**}}$ mm	$d_2^{+/-1}$ mm	$l_1$ mm	$l_3 \text{ min.}$ mm	$l_3 \text{ max.}$ mm	Travel mm	Peak Torque Nm*	Weight g
630 811 00 <sup>1)</sup>	5,0	11,1	13,1	240	389	149	0,36	36
630 814 00 <sup>1)</sup>	5,0	14,3	15,7	300	484	184	0,85	58
630 817 00 <sup>1)</sup>	10,0	17,5	22,3	450	730	280	1,60	168
630 823 00 <sup>2)</sup>	10,0	23,0	17,0	464	745	281	2,80	241
630 828 00 <sup>2)</sup>	12,7	28,5	20,0	500	784	284	5,60	457
630 836 00 <sup>2)</sup>	20,0	36,5	21,0	564	868	304	10,70	827

\* The stated peak torque refers to Lmin. (telescope retracted).  
 The max. torque for extended telescope has to be determined empirically and subject to the respective application.

\*\* Bore-reducing bushes see below.

1) Joint faces fitted with brass inserts with 2 set screws per hub.

2) Joints only fitted with metal inserts, without set screws.

### Note

Telescopic universal-joint shafts (teleshafts) made from plastic and brass are practical if the distance between driving and driven unit varies during operation, or if changes in components need to be compensated or if, simply, fast disconnection of a drive unit is required.

These teleshafts are designed for light duty. Precisely-drawn, square brass tubes, which can easily be shortened, serve as

means of transmission. The profiled parts eliminate any torsional play which may occur inside the bushes due to tolerances. To shorten the teleshafts, please always cut off the same length on either side.

## Bore-Reducing Bushes for Further Bores at Telescopic Universal-Joint Shafts, Product No. 630 811 00 to 630 836 00

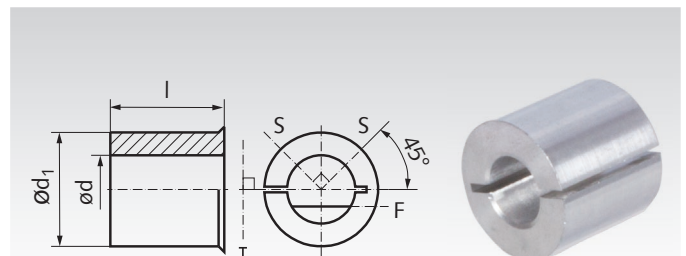
### Material:

Product No. 622 302 05 up to 622 304 05 made from brass.

Product No. 622 303 05 up to 622 318 20 made from aluminium.

To guarantee an optimum shaft-hub connection, the bore-reducing bush should be used as follows:

"S" indicates the adjusting screw inside the adjusting-screw hub.  
 "T" indicates tangential attachment screws for the clamping hub.  
 "F" indicates the recommended positioning of the flattened shaft with adjusting-screw hubs.



Ordering Details: e.g.: Product No. 622 302 05, Bore-Reducing Bush, 2 mm Bore

Product No.	Matching Universal-Joints	$d^{+0,03}$ mm	$d_1$ mm	$l$ mm	Weight g	Product No.	Matching Universal-Joints	$d^{+0,03}$ mm	$d_1$ mm	$l$ mm	Weight g
622 302 05	630 811 00	2	5	4,3	1	622 305 12	630 828 00	5	12,7	10,7	3
622 303 05	630 811 00	3	5	4,3	1	622 306 12	630 828 00	6	12,7	10,7	3
622 304 05	630 811 00	4	5	4,3	1	622 308 12	630 828 00	8	12,7	10,7	3
622 303 05	630 814 00	3	5	4,3	1	622 309 12	630 828 00	9	12,7	10,7	3
622 304 05	630 814 00	4	5	4,3	1	622 310 12	630 828 00	10	12,7	10,7	3
622 304 10	630 817 00	4	10	8,1	1	622 310 20	630 836 00	10	20	20	6
622 305 10	630 817 00	5	10	8,1	1	622 312 20	630 836 00	12	20	20	6
622 306 10	630 817 00	6	10	8,1	1	622 314 20	630 836 00	14	20	20	6
622 308 10	630 817 00	8	10	8,1	1	622 315 20	630 836 00	15	20	20	6
622 304 10	630 823 00	4	10	8,1	1	622 316 20	630 836 00	16	20	20	6
622 305 10	630 823 00	5	10	8,1	1	622 318 20	630 836 00	18	20	20	6
622 306 10	630 823 00	6	10	8,1	1						
622 308 10	630 823 00	8	10	8,1	1						

Please note that concentricity and constant velocity can be influenced by mounted bushes. To achieve the best possible performance, we recommend using shafts of tolerance class h6. Undersized shafts are less effective. For the same reason we would

not recommend using flattened shafts with more than 1/4 of the diameter removed.