Huco Teleshafts Plastic Universal Joints, Brass Cross Pieces & Tubes



 $Refs. \ 130 \ \& \ 497$ Joints sleeved with metal inserts. Attach to shafts by cross-pinning or bonding

DIMENSIONS & ORDER CODES

Teleshaft size	1 Teleshaft options			L	L	Stroke	L2	ØB1, ØB2	Mass	Corresponding joint	
	Standard tubes self-colour brass	Wear-resistant tubes Niflor coated		±1.0				max	kg x 10–3	For dimensions	
	telesh		min	max	S	2		3	266		
09	128.09.240	495.09.240	11.1	240	389	149	13.1	5	36	103.09	
13	128.13.300	495.13.300	14.3	300	484	184	15.7	6.35	58	103.13	
16	128.16.450	495.16.450	17.5	450	730	280	22.3	10	168	103.16	
20	130.20.464	497.20.464	23.0	464	745	281	17.0	12.70	241	105.20	
25	130.25.500	497.25.500	28.5	500	784	284	20.0	14	457	105.25	
32	130.32.564	497.32.564	36.5	564	868	304	21.0	20	827	105.32	

• A range of standard telescopes is available which can be shortened to achieve an infinite number of length/stroke requirements. The lengths L min shown in the table above are the longest of the standard range in each size. Specific lengths are produced by cutting an equal amount from both ends of the nearest standard size. See next page for recommended procedure.

- Custom Teleshaft assemblies can be factory made subject to minimum order quantities.
- *The nose bush eliminates any torsional free play that may be apparent in the tubes due to working clearances.
- Full details of the standard range and product order codes are available on request. Please ask for a Huco Teleshaft data sheet.

STANDARD BORES

Teleshaft	ØB1, ØB2 +0.03 / –0mm														
size	3.175	4	4.763	5	6	6.350	8	9.525	10	12	12.700	15.875	16	19.050	20
09	•	•	•	•											
13		•	•	•	•	•									
16					•	•	•	•	•						
20								•	•						
25										•	•				
32												•	•	•	•
Bore ref.	16	18	19	20	22	24	28	31	32	35	36	41	42	47	48
Correspo bore ada	nding aptor			251		253	255		257		259		260		261

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes. See page 56 for details.

1 Niflor is a proprietory PTFE impregnated electroless nickel plating process.

ØD

Typical

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- 2 Max shaft penetration
- 3 Values apply with max bores.

Extensible drive shafts (teleshafts), are useful when the distance between actuator and load varies during operation, or needs to accommodate component variances, or when a quick disconnect facility is needed in the drive line.

Huco teleshafts are in keeping with the light duty capabilities of plastics universal joints and employ precision drawn square brass tubes as the telescoping medium. These can easily be cut by the user to provide an extensible drive shaft with customised dimensions.

There are 2 ways to arrive at a customised teleshaft: empirically (shown below), or with tables that provide all necessary data on stroke and tube lengths for teleshafts with and without nose bushes up to 520mm retracted length.

Empirical method (based on the retracted length).

- Disengage the teleshaft, remove the nose bush parked on the inner tube and keep it in case you need to use it later. Then lay the 2 halves of the teleshaft side by side.
- Slide one half alongside the other so that overall length L *min* matches the intended length of the teleshaft when *fully retracted*. With a felt tip pen, draw a line across the outer tube at the point where this is level with the inboard end of the universal joint.
- If you are sure that the teleshaft will satisfactorily extend the required amount, cut the tube at the line.
 - Mark the inner tube in the same way, then add an amount equivalent to dimension L3 for your teleshaft size and draw a second line. Cut the tube at this second line.

- Now re-engage the tubes, taking care to orientate them correctly so that the inboard forks of the joints are in the same plane, and retract the teleshaft. The overall length should be as intended, and both tubes should bottom out simultaneously.
- If required, the nose bush can now be fitted by bonding it to the outer tube with an instant adhesive, (factory fitted bushes are retained by a barbing technique). The bush will add an amount equivalent to dimension L8 to the retracted length. Cutting this amount from the outer tube will reinstate the intended retracted length.
- The purpose of the nose bush is to eliminate any torsional free play that may be apparent in the tubes due to working clearances.

How to order customised teleshafts

Please specify your teleshaft by completing the questionnaire.

Teleshaft size	09 13 16 20 25 32
Teleshaft ref.	128 130 495 497
Bore diameter End A	
Bore diameter End B	
Fitted nose bush (end B only)	
Speed of rotation	rpm
Please specify:	
L min and/or	
L max and/or	
Stroke S	
If more than one parameter is specified, which one is critical? .	
Please quote pcs	
Projected annual qtys pcs	

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