INTERNATIONAL STANDARD 1472

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Textile machinery and accessories — Cylindrical tubes for draw-twisters — Dimensions and permissible run-out

Matériel pour l'industrie textile — Tubes cylindriques pour machines à étirer et à tordre — Dimensions et faux-rond admissible

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Descriptors : textile machinery, tubes, mechanical drawing, specification, dimensions, designations.

Price based on 4 pages

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the technical committees were published as ISO Recommendations; these documents are in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 72, *Textile machinery and accessories,* has reviewed ISO Recommendation R 1472-1970 and found it technically suitable for transformation. International Standard ISO 1472 therefore replaces ISO Recommendation R 1472-1970, to which it is technically identical.

ISO Recommendation R 1472 had been approved by the member bodies of the following countries :

Belgium
Brazil
Czechoslovakia
Denmark
Egypt, Arab Rep. of
Germany
India
Italy
Japan
Netherlands
Poland
Spain
Sweden
Switzerland
Turkey
U.S.S.R.

The member body of the following country had expressed disapproval of the Recommendation on technical grounds :

France

The member bodies of the following countries disapproved the transformation of ISO Recommendation R 1472 into an International Standard :

France
Germany

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Textile machinery and accessories — Cylindrical tubes for draw-twisters — Dimensions and permissible run-out

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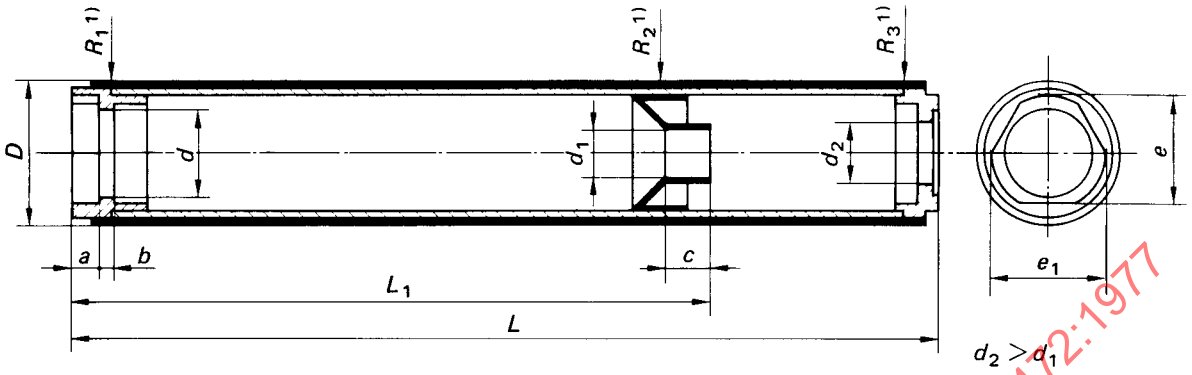
1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the main dimensions and tolerances of cylindrical tubes with triangular and square driving surfaces for draw-twisters, and gives the permissible run-out of these tubes.

2 CYLINDRICAL TUBES WITH TRIANGULAR DRIVING SURFACE



NOTE — This drawing is only for the guidance of manufacturers and indicates only the main dimensions.

Values in millimetres

Symbol	1	2	3	4	5	6	7	8	Tolerance
L	305	340	360	380	400	420	450	470	+ 1,0 0
L_1	225	225	272	272	272	272	272	312	+ 1,0 0
D	46	46	46	46	46	46	46	75	
	51	51	51	51	51	51	51		
e	38,8	38,8	38,8	38,8	38,8	38,8	38,8	38,8	+ 0,25 0
e_1	41,2	41,2	41,2	41,2	41,2	41,2	41,2	41,2	+ 0,2 0
d	31,0	31,0	31,0	31,0	31,0	31,0	31,0	31,0	+ 0,2 0
d_1	19,05	19,05	19,05	19,05	19,05	19,05	19,05	19,05	+ 0,05 0
a min.	10,3	10,3	10,3	10,3	10,3	10,3	10,3	10,3	
b	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	
c	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	

Tolerance on mass for 1 000 complete tubes :

Nos. 1 to 7 : ± 1 %

No. 8 : ± 1,5 %

Example of designation :

Cylindrical tube No. 1, triangular driving surface, $D = 46$, ISO 1472

1) For the permissible run-out R_1, R_2 and R_3, see clause 4.

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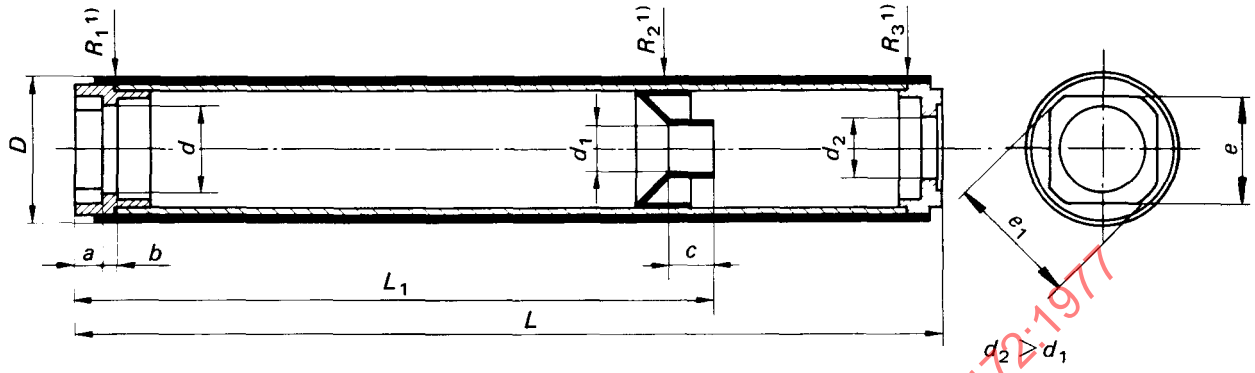
3 CYLINDRICAL TUBES WITH SQUARE DRIVING SURFACE



NOTE – This drawing is only for the guidance of manufacturers and indicates only the main dimensions.

Values in millimetres

Symbol	1	2	3	4	5	6	7	8	Tolerance
L	305	340	360	380	400	420	450	470	$^{+1,0}_{0}$
L_1	225	225	272	272	272	272	272	312	$^{+1,0}_{0}$
D	46	46	46	46	46	46	46	75	
	51	51	51	51	51	51	51		
e	38,1	38,1	38,1	38,1	38,1	38,1	38,1	38,1	$^{+0,25}_{0}$
e_1	41,2	41,2	41,2	41,2	41,2	41,2	41,2	41,2	$^{+0,2}_{0}$
d	31,0	31,0	31,0	31,0	31,0	31,0	31,0	31,0	$^{+0,2}_{0}$
d_1	19,05	19,05	19,05	19,05	19,05	19,05	19,05	19,05	$^{+0,05}_{0}$
a min.	10,3	10,3	10,3	10,3	10,3	10,3	10,3	10,3	
b	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	
c	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	

Tolerance on mass for 1 000 complete tubes :

Nos. 1 to 7 : ± 1 %

No. 8 : ± 1,5 %

Example of designation :

Cylindrical tube No. 1, square driving surface, $D = 46$, ISO 1472

1) For the permissible run-out R_1, R_2 and R_3, see clause 4.

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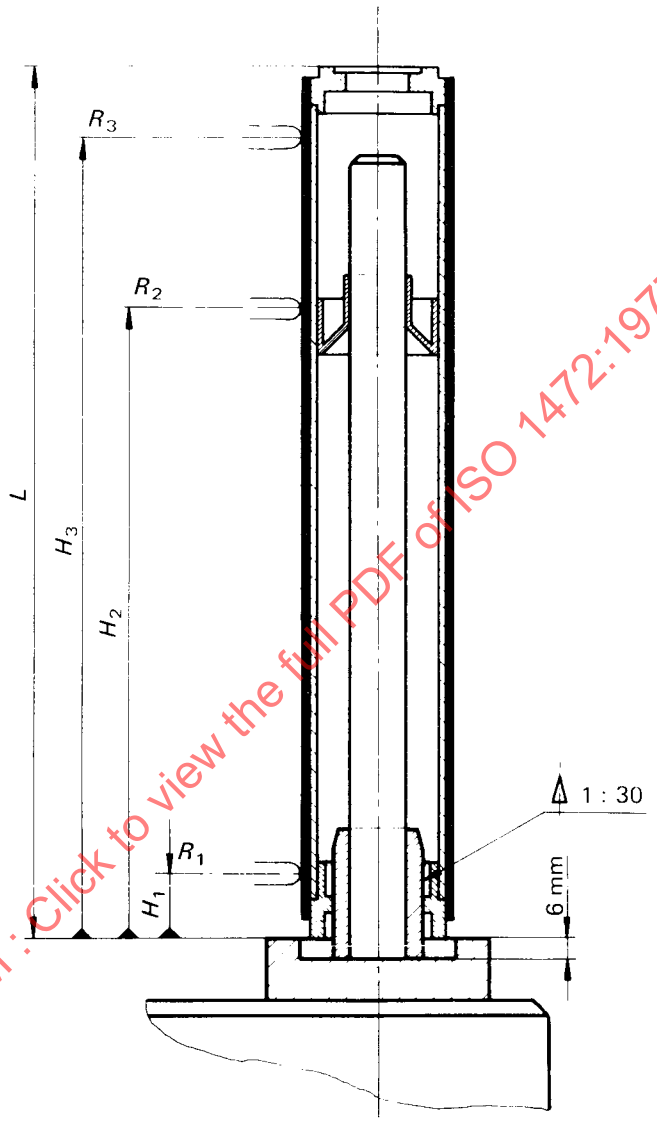
4 PERMISSIBLE RUN-OUT OF CYLINDRICAL TUBES

The tube shall fit on the gauge without any clearance.

H = Height at which the feeler of the measuring instrument is applied

L = Total length of cylindrical tube

R = Permissible run-out



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Values in millimetres

Symbol	1	2	3	4	5	6	7	8
L	305	340	360	380	400	420	450	470
R_1 at height H_1	0,15 20	0,15 20	0,15 20	0,15 20	0,15 20	0,15 20	0,15 20	0,15 20
R_2 at height H_2	0,2 220	0,2 220	0,2 260	0,2 260	0,2 260	0,2 260	0,2 260	0,2 300
R_3 at height H_3	0,25 280	0,25 315	0,25 335	0,25 355	0,25 375	0,25 395	0,25 425	0,25 445