

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION



## ISO RECOMMENDATION R 343

WARP TUBES FOR RING  
SPINNING AND RING DOUBLING SPINDLES  
INCH DIMENSIONS, TOLERANCES AND GAUGES

1st EDITION

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## BRIEF HISTORY

The ISO Recommendation R 343, *Warp Tubes for Ring Spinning and Ring Doubling Spindles—Inch Dimensions, Tolerances and Gauges*, was drawn up by Technical Committee ISO/TC 72, *Textile Machinery and Accessories*, the Secretariat of which is held by the Association Suisse de Normalisation (SNV).

Work on this question by the Technical Committee began in 1958 and led, in 1960, to the adoption of a Draft ISO Recommendation.

In August 1961, this Draft ISO Recommendation (N° 449) was circulated to all the ISO Member Bodies for enquiry. It was approved by the following Member Bodies:

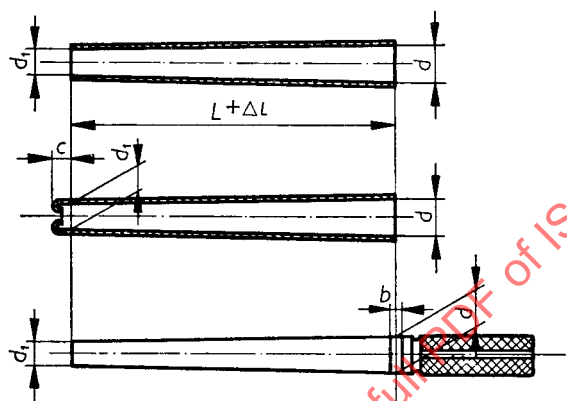
Australia	Germany	Poland
Austria	India	Spain
Brazil	Italy	Switzerland
Chile	Netherlands	Turkey
Czechoslovakia	New Zealand	United Kingdom

One Member Body opposed the approval of the Draft: France.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in September 1963, to accept it as an ISO RECOMMENDATION.

WARP TUBES FOR RING  
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INCH DIMENSIONS, TOLERANCES AND GAUGES



For tubes with rolled-in tops, it must be ascertained whether the loading capacity of the spindle will accommodate the additional load.

1. DIMENSIONS OF WARP TUBES  
FOR SPRING GRIP SPINDLES, TAPER 1:64

TABLE 1. — Dimensions for Series A to F

Dimensions in inches

L	c	Series A		Series B		Series C		Series D		Series E		Series F	
		d	d <sub>1</sub>	d	d <sub>1</sub>	d	d <sub>1</sub>	d	d <sub>1</sub>	d	d <sub>1</sub>	d	d <sub>1</sub>
7	<sup>5</sup> / <sub>16</sub>	0.614	0.505	0.667	0.558	0.719	0.610	0.771	0.662	—	—	—	—
8	<sup>5</sup> / <sub>16</sub>	0.630	0.505	0.683	0.558	0.735	0.610	0.787	0.662	0.840	0.715	—	—
9	<sup>5</sup> / <sub>16</sub>	—	—	—	—	0.751	0.610	0.803	0.662	0.856	0.715	0.961	0.820
10	<sup>5</sup> / <sub>16</sub>	—	—	—	—	—	—	—	—	0.871	0.715	0.976	0.820
11	<sup>5</sup> / <sub>16</sub>	—	—	—	—	—	—	—	—	0.887	0.715	0.992	0.820
12	<sup>5</sup> / <sub>16</sub>	—	—	—	—	—	—	—	—	—	—	1.008	0.820
13	<sup>5</sup> / <sub>16</sub>	—	—	—	—	—	—	—	—	—	—	1.023	0.820