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# INTERNATIONAL STANDARD



# 143

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

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## Textile machinery and accessories — Weft pirns for automatic looms

*Matériel pour l'industrie textile — Canettes de métiers automatiques*

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ISO 143-1977 (E)

## 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.

International Standard ISO 143 was developed by Technical Committee ISO/TC 72, *Textile machinery and accessories*, and was circulated to the member bodies in January 1976.

It has been approved by the member bodies of the following countries :

Belgium	Italy	South Africa, Rep. of
Brazil	Japan	Spain
Czechoslovakia	Korea, Dem. P. Rep. of	Switzerland
France	Netherlands	Turkey
Germany	Poland	United Kingdom
India	Romania	U.S.S.R.

No member body expressed disapproval of the document.

# Textile machinery and accessories – Weft pirns for automatic looms

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of weft pirns for automatic looms.

## 2 REFERENCES

ISO 572, *Textile machinery and accessories – Shuttles for pirn changing automatic looms – Dimensions.*

ISO 1131, *Textile machinery and accessories – Weft pirns for box-loaders for automatic looms – Dimensions of pirn tip.*

## 3 DIMENSIONS

The dimensions shall be as shown in the tables. Dimensions of the pirn tip shall be as given in ISO 1131.

TABLE 1 – Dimensions

Values in millimetres

<i>a</i>	25 min.
<i>b</i>	4,2 ± 0,1
<i>c</i>	9,40 ± 0,25
<i>e</i> *	2,60 to 2,80
<i>f</i> *	0,2 to 0,5
<i>g</i>	1 min., 4 max.

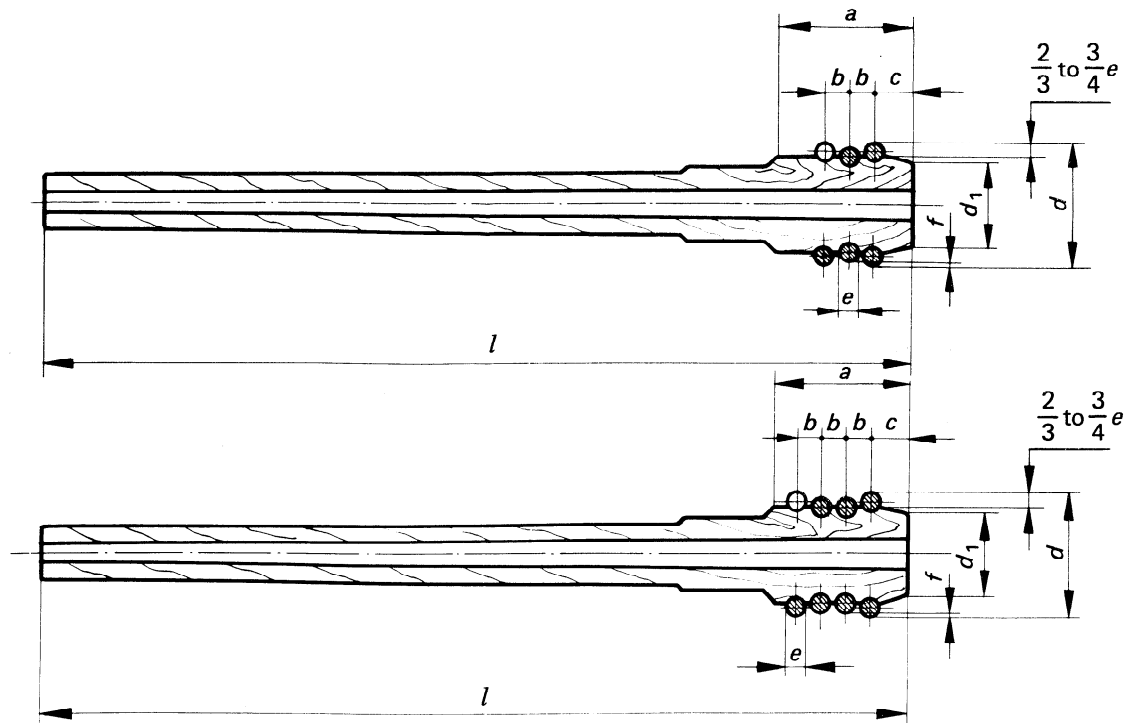
\* Dimensions in national standards may lie anywhere within the indicated range.

TABLE 2 – Lengths and diameters

Dimensions in millimetres

Number of rings per pirn	Diameter over rings	Maximum external diameter of butt at the end of shielded pirns <i>d</i> <sub>1</sub>	Overall length <i>l</i> ± 0,5
	Rings 1 and 3 of 3-ringed pirn Rings 1 and 4 of 4-ringed pirn <i>d</i> ± 0,2		
3 or 4	24,4	21,0	160 – 172 – 190
	27,2	23,4	172 – 190 – 200 – 210
	30,3	26,2	172 – 190 – 200 – 210 – 220 – 230
	34,0	30,2	210 – 220 – 230 – 240 – 250 – 270

Dimensions relating to bores of pirns and feeler-contact dimensions are not standardized.



Ends of a ring

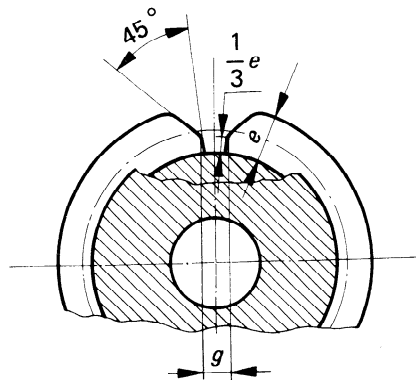


FIGURE – Weft pirns for automatic looms