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**Cards for staple fibres spinning —  
Vocabulary and principles of  
construction**

*Cardeuse pour la filature des fibres discontinues — Terminologie,  
principes de construction*

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## Foreword

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ISO 26243 was prepared by Technical Committee ISO/TC 72, *Textile machinery and accessories*, Subcommittee SC 1, *Spinning preparatory, spinning, twisting and winding machinery and accessories*.

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# Cards for staple fibres spinning — Vocabulary and principles of construction

## 1 Scope

This International Standard specifies terms and definitions for the card with regard to spinning procedure for cotton and other staple fibres.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 92, *Textile machinery and accessories — Spinning machinery — Definition of sides (left or right)*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE The descriptions with parenthesised numbers are dealt with separately under these numbers.

### 3.1 Basic terms

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#### 3.1.1 card

machine to open fibre tufts – up to the single fibre – to separate contamination, dust and short fibres, and to produce a web that will be formed into the sliver

#### 3.1.2 flat card

card that is characterized by movable flats above the cylinder (3.4.4)

## 3.2 Width dimensions

See Figure 1.

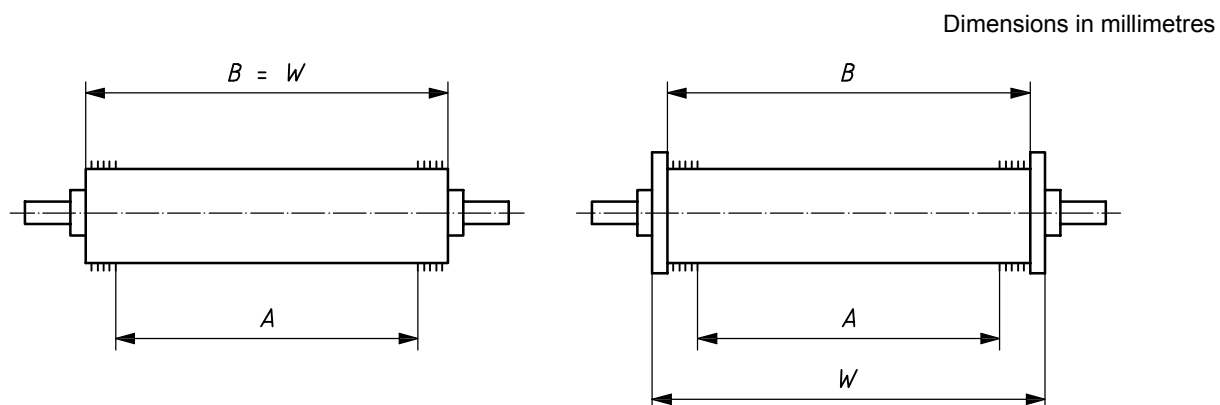


Figure 1 — Width dimensions

### 3.2.1 clothing width

$B$

decisive width for calculating the clothing length, equivalent to the cylinder width  $W$ , less possible end plates

### 3.2.2 cylinder width

$W$

complete width of roll barrel, including possible end plates

### 3.2.3 working width

$A$

cover width of fibre material on the roll

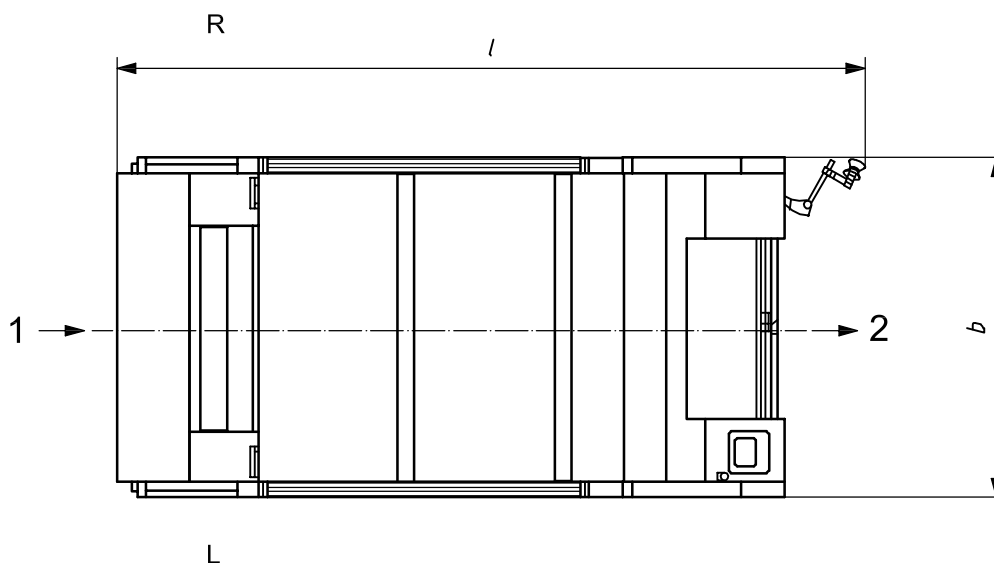
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### 3.3 Definition of sides, dimensions

See Figure 2.



#### Key

- 1 feed area (rear)
- 2 delivery area (front)
- $b$  machine width (over casing)
- $l$  machine length (without deposit system)
- R right side
- L left side

Figure 2 — Definition of sides, dimensions

#### 3.3.1 right side R

side on the right, when looking against the fibre flow

See ISO 92.

#### 3.3.2 left side L

side on the left, when looking against the fibre flow

See ISO 92.

#### 3.3.3 work flow direction

material flow  
direction of fibre flow

#### 3.3.4 drive side

side equipped with cylinder (3.4.4) drive

### 3.4 Components

See Figure 3.

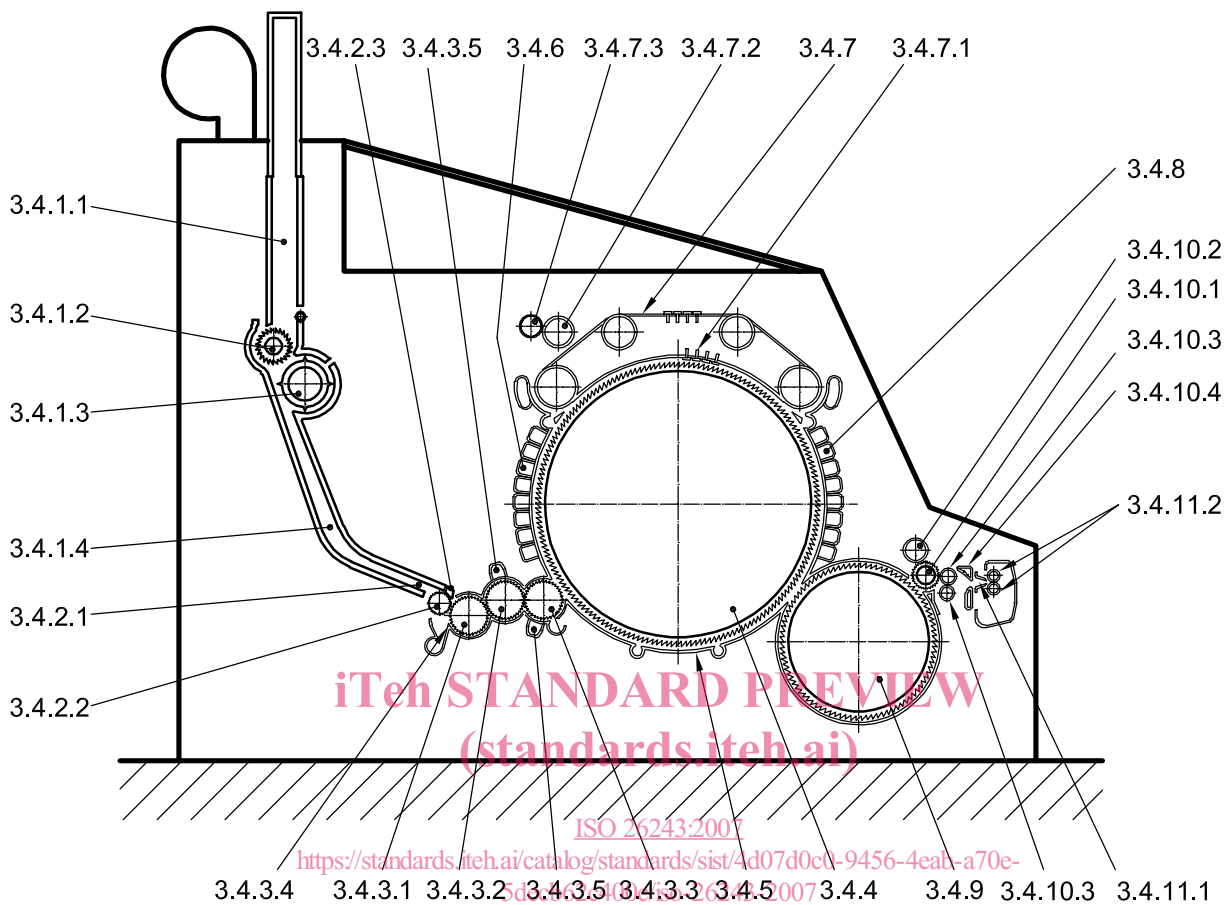


Figure 3 — Components

#### 3.4.1 Tuft feeding

##### 3.4.1.1

##### **upper trunk**

reserve trunk

filling trunk to collect and store the fibre material

##### 3.4.1.2

##### **feed roll**

transport and clamping of fibre material against the feed tray, for the purpose of feeding the opening roll

##### 3.4.1.3

##### **opening roll**

roll that releases the fibre material from the clamped beating and with the supporting air current delivers individual tufts into the transfer trunk

##### 3.4.1.4

##### **transfer trunk**

junction-canal between opening roll and feeding area of the card

### 3.4.2 Feeding area of card

#### 3.4.2.1

##### **feed tray**

tray-shaped component to compress and clamp the tuft material opposite from the feed roll

#### 3.4.2.2

##### **feed roll**

transport and clamping of fibre material against the feed tray and measuring device, for the purpose of feeding the first licker-in, the roll continuing to serve as regulator of the mass flow

#### 3.4.2.3

##### **device to measure the web thickness**

device to measure the thickness of the fed tuft flow

### 3.4.3 Licker-in

#### 3.4.3.1

##### **licker-in 1**

roll with spikes or clothing, which releases the tuft material from the clamped beating and transports it to the 2nd licker-in

#### 3.4.3.2

##### **licker-in 2**

opening and transfer roll, equipped with clothing

#### 3.4.3.3

##### **licker-in 3**

opening and transfer roll, equipped with clothing

#### 3.4.3.4

##### **licker-in knife**

separation place

knife, adjustable to the licker-in, to separate coarse contamination

#### 3.4.3.5

##### **carding element**

element equipped with clothing for the pre-opening of fibre tufts, adjustable to the licker-in

### 3.4.4

#### **cylinder**

tambour

main working cylinder of a card, with clothing, which – in interaction with the revolving flats as well as the pre-carding and post-carding zone – serves for the opening of the fibre tufts up to the single fibre

### 3.4.5

#### **cylinder cover, bottom**

element regulating the air balance underneath the cylinder

### 3.4.6

#### **pre-carding zone**

work area with carding elements and extracting elements, adjustable to the cylinder