
**Textile machinery — Opener and cleaner
for staple fibres preparation —
Vocabulary and principles of
construction**

*Matériel pour l'industrie textile — Ouvreuse et nettoyeuse pour la
préparation des fibres discontinues — Vocabulaire et principes de
construction*



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Foreword

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Textile machinery — Opener and cleaner for staple fibres preparation — Vocabulary and principles of construction

Scope

This International Standard establishes a vocabulary of terms related to, and the principles of construction of, openers and cleaners used in the textile industry in the preparation for spinning of cotton and other staple fibres.

Terms and definitions

1 Basic terms

1.1

opener

machine with horizontally positioned opening roll, for opening of fibre material

NOTE The opening roll concerned is **opening roll 1** (3.4). See Annex A for construction variations.

1.2

cleaner

machine with horizontally positioned opening rolls, for opening and cleaning of fibre material

NOTE The opening rolls concerned are **opening roll 1** (3.4), **opening roll 2** (3.5) and **opening roll 3** (3.6). See Annex A for construction variations.

2 Machine sides, dimensions (see Figure 1)

2.1

right side

R

machine side located to the right as seen facing toward the direction of fibre flow

NOTE See also ISO 92.

2.2

left side

L

machine side located to the left as seen facing toward the direction of fibre flow

NOTE See also ISO 92.

2.3

work flow direction

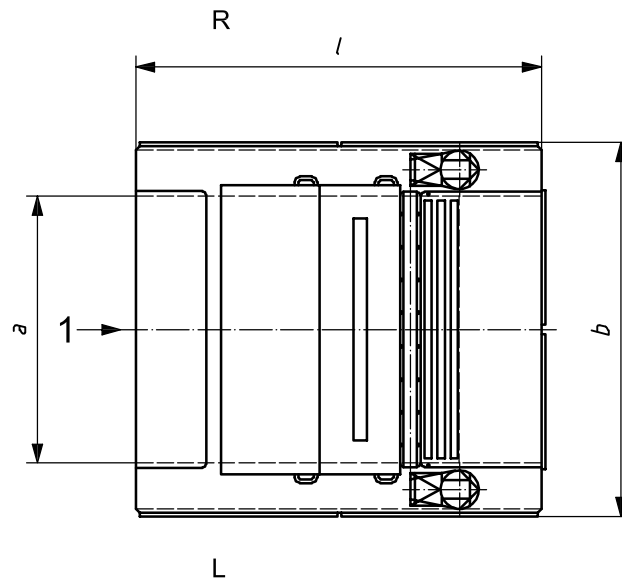
material flow

direction of fibre flow

2.4

drive side

side equipped with a cylinder drive



Key

- a* clear distance between front and back plate (inner distance between machine frames)
- b* machine width (over casing)
- l* machine length (without deposit system)
- R right side
- L left side
- 1 feed area (rear)

Figure 1 — Machine sides, dimensions

3 Machine components (see Figures 2 and 3)

3.1

feed lattice

feed belt for feeding fibre material to the **feed roll** (3.3)

3.2

precondensing roll

roll for condensing fibre material for the feed process

3.3

feed roll

roll for transport and for clamping of fibre material, for feeding **opening roll 1** (3.4)

3.4

opening roll 1

roll with pins that disengages tuft material from the stopped stroke

3.5

opening roll 2

opening and transfer roll, equipped with clothing

3.6

opening roll 3

opening and transfer roll, equipped with clothing

3.7

mote knife

knife for extracting impurities

3.8

carding element

element equipped with clothing for pre-opening fibre tufts

3.9

deflector blade

swivelling guide element for adjusting waste quantity

3.10

material suction device

suction funnel for continuous suction of the opened and cleaned fibre material

3.11

waste suction

suction funnel for continuous suction of extracted waste

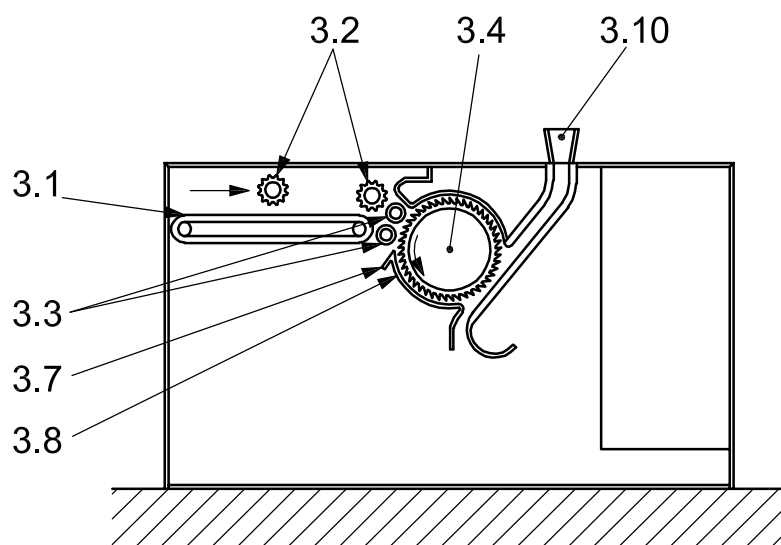


Figure 2 — Machine components — Opener

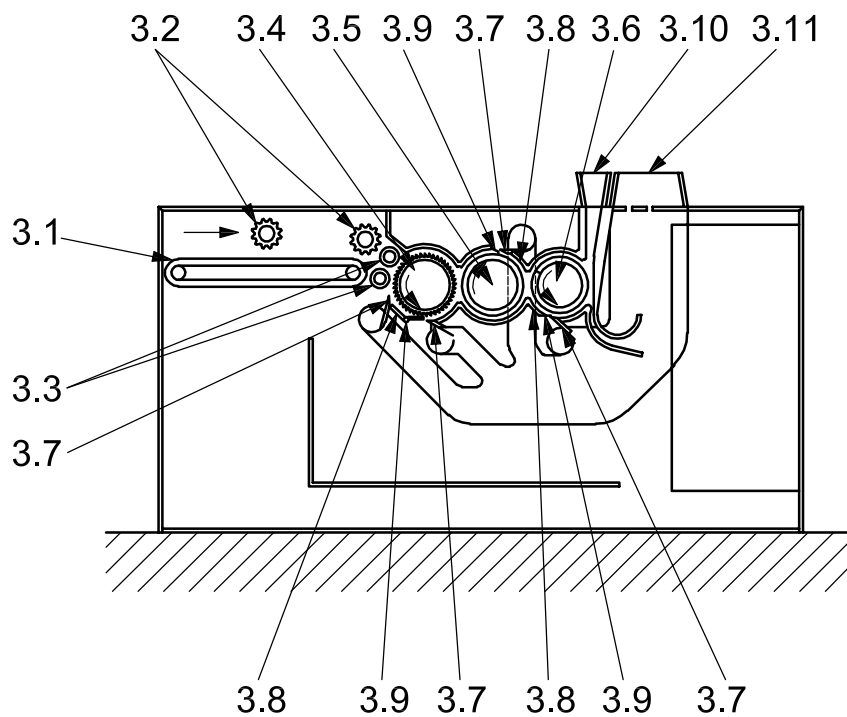


Figure 3 — Machine components — Cleaner

Annex A
(normative)

Principles of construction (variations)

A.1 Working width

A.2 Opener

A.2.1 Opener with one opening roll

A.2.2 Opener with several opening rolls

A.2.3 Universal opener

A.3 Cleaner

A.3.1 Cleaner with one roll

A.3.2 Cleaner with several rolls

A.3.3 Pre-cleaner

A.3.4 Waste cleaner

Bibliography

- [1] ISO 92, *Textile machinery and accessories — Spinning machinery — Definition of side (left or right)*

