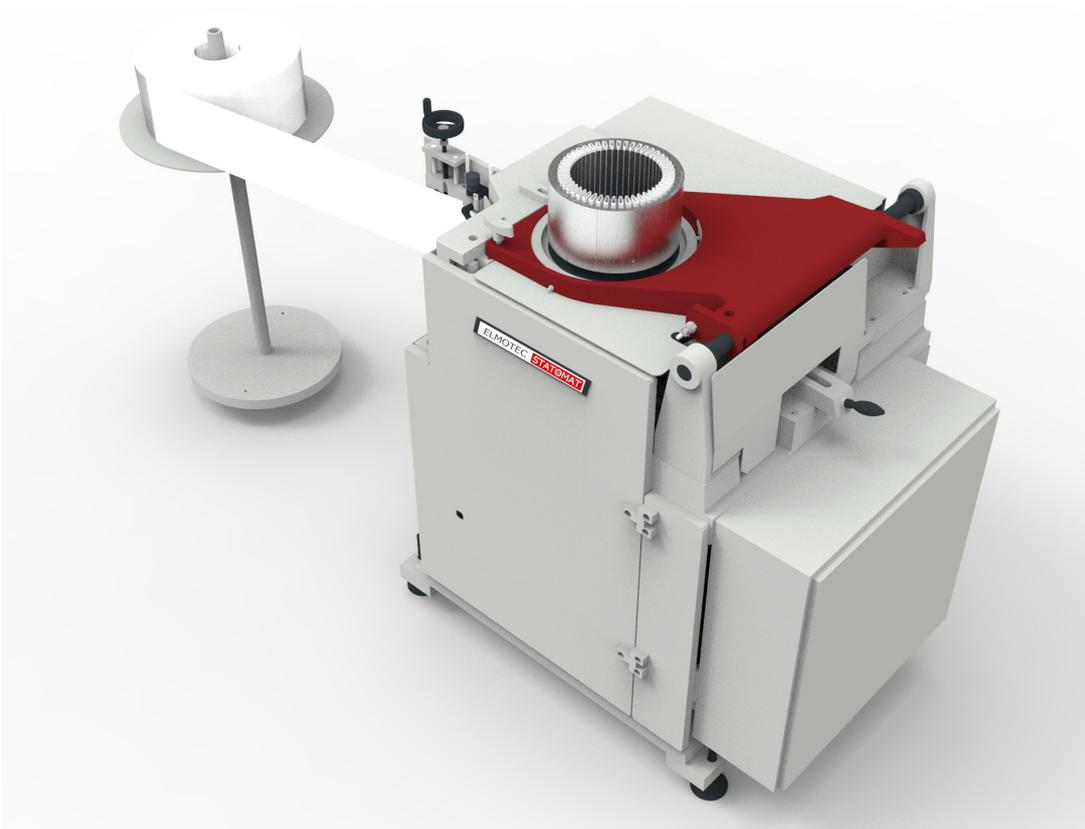


EU-Series Slot insulation machine

ELMOTEC STATOMAT

A Schaeffler Company



Automotive



E-Mobility



Industry

Slot insulation machine

Slot Insulation for maximum reliability.

The reliable insulation of stator windings with surface insulating materials is indispensable for the separation of electrical potentials (insulation of the winding against the stator laminations), for the effective dissipation of heat loss to protect against overheating as well as for the mechanical fixation of the windings (closure of the stator slot). The so-called slot ground insulation also serves to protect the winding wire from sharp edges of the laminated core.

Highlights.

- Automatic feeding of the surface insulating material from a supply roll
- Prefabrication and shaping of the insulating sleeves
- Folding of the collars / double collars
- Insertion of the insulating sleeves into the stator slot (up to 3 sleeves per second)
- Empty-cycle device for stators with several slot shapes

Series proven technologies.

The sophisticated machines from Schaeffler ELMOTEC STATOMAT for slot insulation ensure that the surface insulation materials are joined without damage and in the correct position for complete insulation of the stator slot. Our solutions fulfil the production steps of cutting the insulation paper, forming and folding the insulation sleeves and inserting the sleeves into the slot.

3 sleeves/s

We can insert up to 3 Sleeves/s into the stator.

15 min

The tooling and material for our slot insulation machines can be changed in less than 15 minutes.

Technical data

Slot insulation machine

ELMOTEC **STATOMAT**

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Production steps

<input checked="" type="checkbox"/> Slot Insulation	<input type="checkbox"/> Winding	<input type="checkbox"/> Insertion	<input type="checkbox"/> Intermediate forming
<input type="checkbox"/> Lacing	<input type="checkbox"/> End forming	<input type="checkbox"/> Testing	<input type="checkbox"/> Automation

Specifications

- Feeding of insulation material from supply reel
- Cutting development length of slot sleeves
- Device for folding of cuffs
- Device for folding of double cuffs
- Inserting of insulation into the slots
- Skip feed for slot cells for stators with different slot shapes
- Automatic load / unload
- Automatic punch disengagement for clogged slots

Options

- Device for feeding adhesive tape to strengthen the cuffs
- Automatic stator loading and unloading
- Different slot shapes with one tool for round slots
- Material feed via servo motor
- Dividing disc indexing via servo motor

Operating range

Slot cell developed length



Stator outer diameter



Stator stack height



Cuff height



Power rating

- Three phase current 400V | 50 Hz or 480V | 60Hz
- Compressed air

Dimensions

- W | D | H (mm) 1300 - 1900 | 750 - 2300 | 1000 - 1550

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