

# SWK-Winder

## Linear winding machine

**ELMOTEC** **STATOMAT**

A Schaeffler Company



**Automotive**



**E-Mobility**



**Industry**

### **Linear winding technology for the production of concentrated windings.**

The linear winding process is preferably used for small components with a high number of turns and small wire diameters or for rotationally symmetrical segments with very large wire diameters. The technology is also suitable for applications where high wire quality after winding, very good heat dissipation and flexible interconnection types are required.

- Maximum winding speed up to 1,000 rpm
- Can be completely integrated into an automatic production line via robotic handling
- Measurement of wire force
- Integrated wire clamping
- Orthocyclically winding of coils

### **Maximum precision.**

To achieve a maximum slot fill factor, it is particularly important to position and fix the wires precisely in the spool body. To ensure even laying of the wire in the winding space, the axis of rotation and laying axis must be precisely aligned during the entire winding process.

# 90%

We achieve fill-factors of up to 90% after compression.

# 1000 rpm

Our Linear winders are built to turn as fast as 1000 revolutions per minute.

# Technical data

## Linear winding machine

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### Production steps

<input type="checkbox"/> Slot Insulation	<input checked="" 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

- Rotating bobbin
- Wire layering device (3 axis)
- Adjustable wire tension, and preselectable during winding:
  - Regarding the wire diameter
  - Regarding the layer step
- Accurate layer winding of the bobbin
- Removal of the enamel at the beginning and end of wire with waste removal by suction
- Length of wire end preselectable
- Turntable for a minimum of two bobbin winding tools

### Options

- Air coils
- Double segments
- Subsequent compression of the winding
- Precise trimming of the wires to different lengths
- Isolation between the different phases

### Operating range

Packet height



Successive winding



Parallel spindles



Winding wire diameter



### Power rating

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

### Dimensions

- W | D | H (mm) 800 | 2500 | 2100

## Your contact



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