

# Systems solutions for the manufacture of electric motor laminations



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## EQUIPMENT

### HIGH-SPEED PRESSES (COMPLETE SYSTEM)



- Smartline SA with a press force of 1,250 kN to 5,000 kN
- Bed clamping plate from 850 mm x 1,800 mm to 1,450 mm x 3,300 mm
- Stroking range from 80 – 1,000 min<sup>-1</sup>

## AUTOMATION



- Servo feed: Feedmax 260/400/630



- Punch-bundling control
- Press force monitor



- Depth penetration control

## DIES/PARTS

### PROGRESSIVE BLANKING DIES

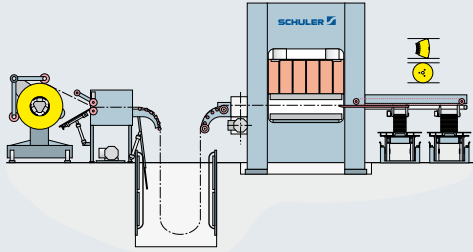


### SEGMENTMASTER SYSTEM



## EQUIPMENT

### BLANKING LINES

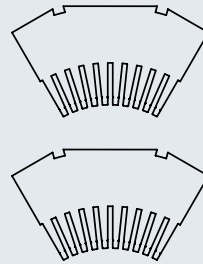


- Electric motor lamination blanking line with a press force of 2,500 kN to 6,300 kN

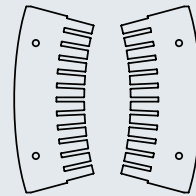
### SEGMENT COATING LINES



**KNÖDEL**



- Manufacture of ready-to-assemble segments for turbo generators and hydro generators



## AUTOMATION



Coil lines



- Short space design
- Long space design
- Blades

## DIES/PARTS



- Dies for segments and rotors/stators





**NOTCHING LINES**

**HAND-OPERATED NOTCHERS**



- Circular blanks 80 kN, 200 kN
- Circular blanks and segments 250 kN
- Segments 320 kN

**AUTOMATED SOLUTIONS**



- With rotary spider (Circular Notchmaster) for stacking mandrels
- With linear drive (Transfer Notchmaster) for pallets
- With segment linear automation

**AUTOMATION FOR ALREADY EXISTING EQUIPMENT**



- Rotary spider
- Linear automation
- Robots

Line automation

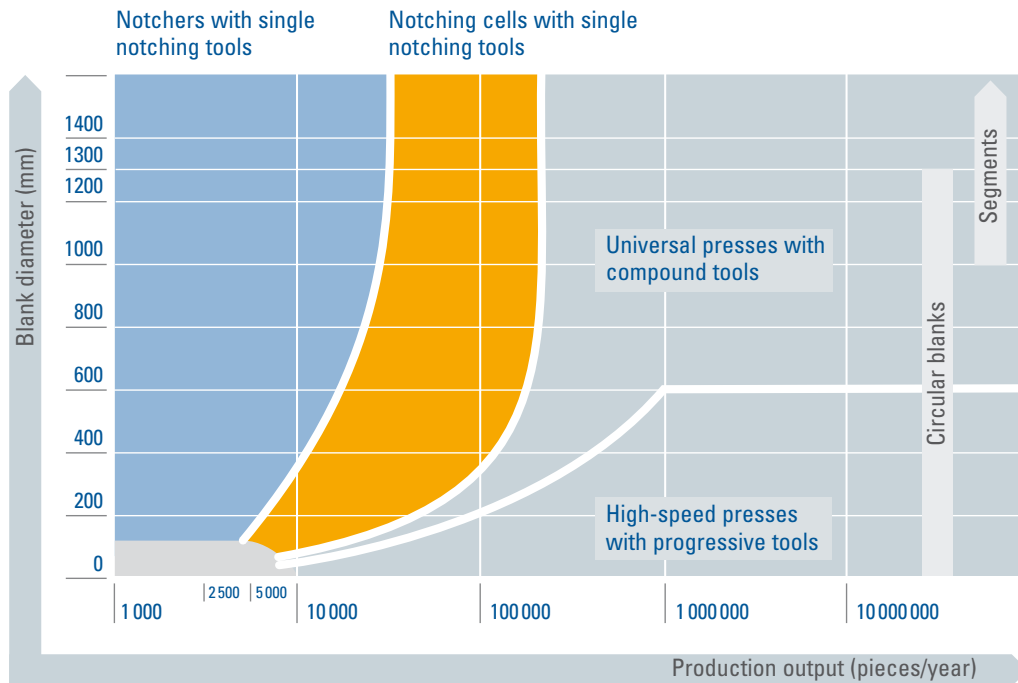
**DIES/PARTS**

**NOTCHING DIES**



# Forming the Future

Efficient, cost-effective production using:



Depending on the part geometry and quantity requirements, the manufacture of electric motor laminations involves different tool and machine technologies. The illustration provides data for single notch, compound and progressive tool applications.



Part spectrum, produced with systems solutions for the manufacture of electric motor laminations.

## More. Service from Schuler.

### Technical service

- Maintenance and servicing
- Machine inspection
- Safety inspection
- Preventive maintenance
- Energy checks
- Teleservice
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- Machine relocation
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- Modernization
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### Used equipment



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