

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⁻¹

AUTOMATION



- Servo feed: Feedmax 260/400/630



- Punch-bundling control
- Press force monitor



- Depth penetration control

DIES/PARTS

PROGRESSIVE BLANKING DIES

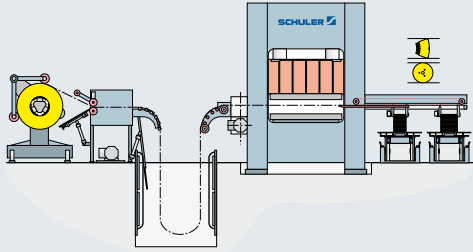


SEGMENTMASTER SYSTEM



EQUIPMENT

BLANKING LINES

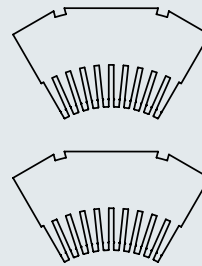


- Electric motor lamination blanking line with a press force of 2,500 kN to 6,300 kN

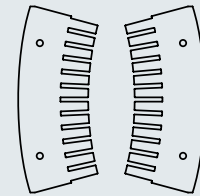
SEGMENT COATING LINES



KNÖDEL



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



AUTOMATION

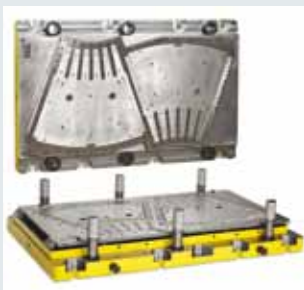


Coil lines



- 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

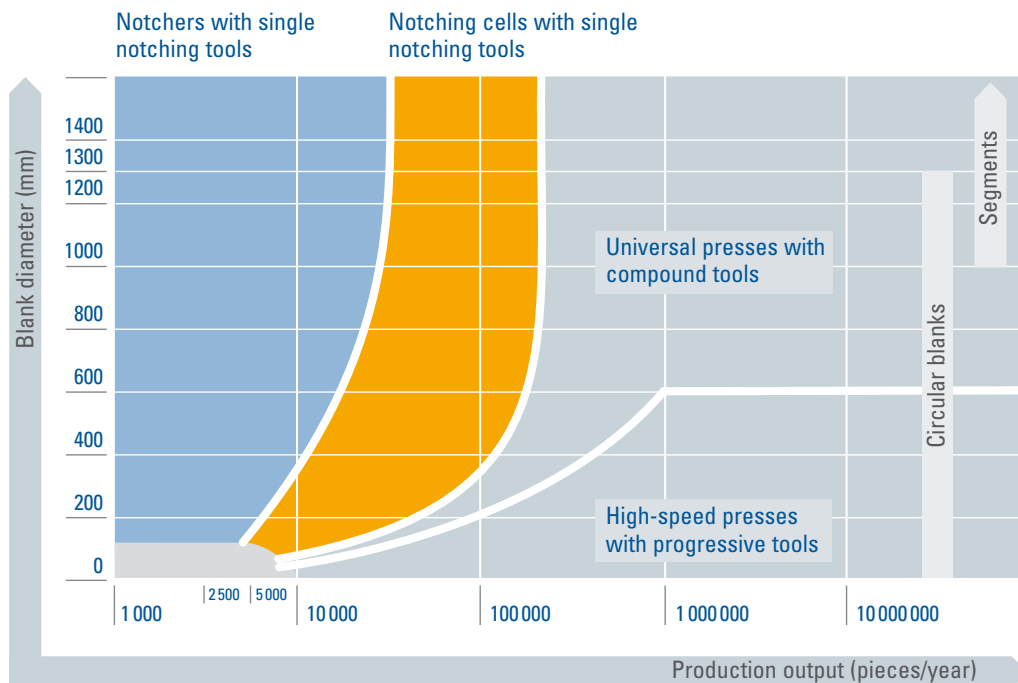
DIES/PARTS

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.

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- Teleservice
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- Machine relocation
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