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Maschinenbau und Antriebstechnik

Belt cutting machine type WSM 100 / WSM 100-B

Technical description:

The machine of the type WSM 101 / WSM 100-B was engineered for cutting timing and flat belt pulleys. It is especially suitable for processing frequently changing sleeves and profile types with low to medium quantities. The WSM 100-B has the same functionality but is using low-cost machine parts. All common timing belt profile types can be processed.

Processing measurements:

- Max. belt length 5.800 mm
- Min. belt length 130 mm (with device for cutting small belts)
- Max. belt width 750 mm

Machine frame:

- Stable, welded construction
- Delivered as one unit
- Affixing of the frame to the floor possible
- All linear ducts of the WSM 100 made of hardened, grinded steel shafts and bearing balls

Tension slide:

- Tension of the sleeves is variable in 4 levels from 3 kp to 140 kp
- Moving of tension slide b drive motor
- Angle of tension shaft (Ø 100 mm) variable

Tool slide:

- Cutting die movement via manually driven trapezoid screw spindle
- Digital display of die position of cutting die
- Cutting tool is a fixed round die
- Tool holder exchangeable
- Execution of the cutting motion via hand lever

Cutting shaft:

- Stepless variable rpm-control via frequency converter from 70 to 450 rpm
- Rotation direction changable
- Plastic sheath as wearout-cover, Ø 70 mm
- Manual triggered holder for supporting the cutting shaft

Accessories:

- Wiring diagram
- Manual
- Tool for exchanging the cutting shaft
- Tool for exchanging the cutting die
- Key for the wiring cabinet

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Safety devices:

- Emergency power off
- Safety knife cover
- Release of the tightening of the belts only with closed holder

Special equipment:

- Semi-automatic control for the cutting shaft angle
- Push-on shaft in addition to cutting shaft
- Special die for cutting poly-v-rip belts
- Cutting shaft in special diameters (40 mm, 50 mm, etc.)
- Pneumatically driven retainer for the cutting shaft
- Standby knife (1.6 or 2.2mm thick, Ø 100 mm)
- Tool holder for additional die Ø 100 mm

Size of the machine:

Length: ca. 3,500 mm
Width: ca. 1,450 mm
Height: ca. 1,150 mm

Power supply:

400 V, 3 Phases, 50 Hz, 16 A



Complete view on WSM 100 / WSM 100-B

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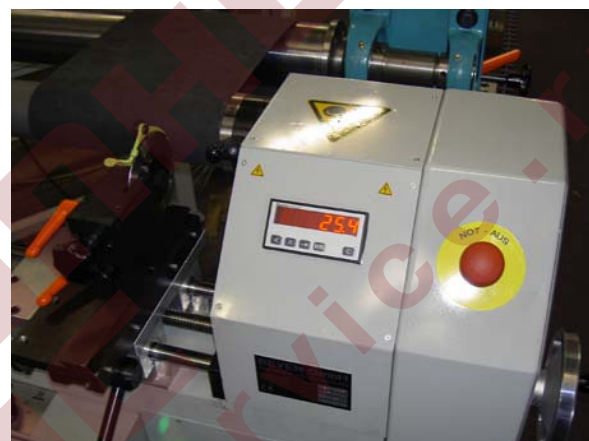
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Photo gallery:



WSM 100 / WSM 100-B Control elements



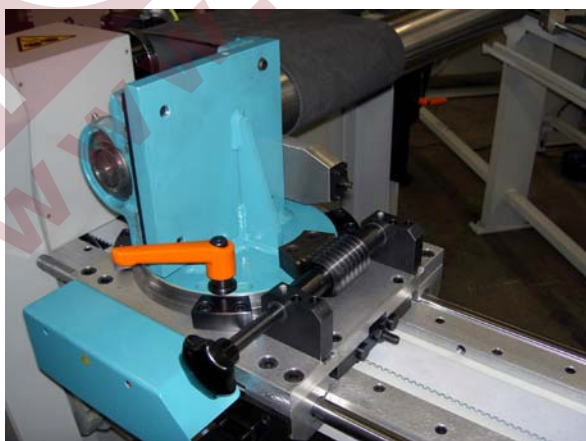
WSM 100 / WSM 100-B Display



WSM 100 / WSM 100-B Wiring Cabinet



WSM 100 / WSM 100-B Cutting die



WSM 100 / WSM 100-B Manual cutting shaft
angle control