Horizontal Mitre Cutting Bandsaws

ABS 300 NC

SKU : 152880

The ABS NC band saw series is a cost-effective, intelligent turnkey solution for sawing in series production. With NC control and simple programming, the ABS NC series meets all the requirements for efficient and flexible production. Cut pipes, profiles or solid material individually or as a bundle. The dual column construction eliminates vibrations and guarantees consistently high cutting accuracy even after many years of use.

- Stable double-column design
- Miter cutting with programmable cutting angle
- NC control with touchscreen for faster programming and set-up
- Hydraulic top vises for bundle cutting

TECHNICAL SPECS

CUTTING CAPACITIES

Feed per single stroke (max.)	400 mm
Cutting speed	20 m/min - 90 m/min
Cutting capacity 0° (round)	300 mm
Cutting capacity 0° (flat) (length x width)	360 mm x 300 mm
Cutting capacity 0° (square)	300 mm
Cutting capacity 30° (round)	280 mm
Cutting capacity 30° (flat) (length x width)	280 mm x 300 mm
Cutting capacity 30° (square)	280 mm
Cutting capacity 45° (round)	220 mm
Cutting capacity 45° (flat) (length x width)	220 mm x 300 mm
Cutting capacity 45° (square)	220 mm

CUTTING CAPACITY IN SEMI-AUTOMATIC MODE

Cutting capacity 60° (round)	240 mm
Cutting capacity 60° (flat) (length x width)	240 mm x 300 mm
Cutting capacity 60° (square)	240 mm

DRIVE CAPACITY

Motor rating main drive	3 kW
Motor rating hydraulic pump	0.75 kW
Motor rating coolant pump	0.09 kW

MEASURES AND WEIGHTS

Blade dimensions	4430 mm x 34 mm x 1.1 mm
Overall dimensions (length x width x height)	2.2 m x 2 m x 1.7 m
Weight	1900 kg

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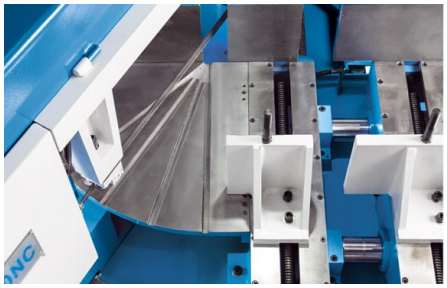
Published on: 19.06.2024.



Cutting angle settings 0° - 45°

Standard roller conveyor extends the integrated material support area

PRODUCT DETAILS

- Cutting angle settings 0° - 45°
- Robust touch screen control panel
- Automatic workpiece feed
- Torsion-resistant dual-column construction
- Hydraulic saw frame feed via chrome-plated column guide
- Slightly inclined saw frame improves cutting performance and increases the service-life
- Dual hydraulic workpiece clamping
- Infinitely variable cutting speed
- Programmable automatic angle positioner can be set in 1° increments from 0° to 45°
- Hydraulic bundle vise for both vises included with standard equipment
- Precise and stable saw band guides ensure high angular accuracy
- Automatic band breakage control
- Infinitely variable saw blade speed with settings shown on the display

CONTROLS & SOFTWARE

Siemens PLC control

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Reliable Siemens SIMATIC S7-200 SMART PLC with rugged touchscreen input panel

In Manual Mode, all machine functions can be selected and adjusted via touchscreen

In Auto Mode, feed distance, cut angle, and number of cuts can be programmed within the respective configurations

Up to 5 different angle and distance settings can be linked within one automatic program cycle

The programmable automatic angle positioner can be set in 1° increments from 0°- 45°

Infinitely adjustable saw blade speed with settings shown on the display

Individual lengths and miter angles, and the number of required steps can be entered for each cut

Cut widths can be compensation centrally without considering the programmed workpiece lengths

All machine parameters can be checked by the operator via user-friendly menus

Quick fault diagnostics with clear fault description on the display

STANDARD EQUIPMENT

Siemens PLC control
Autom. cleaning brush
Feed roller table (2 meters)
1 saw blade
Touchscreen monitor
Automatic parts counter
Bundle vise
Chip conveyor
Coolant system
Operating tools
Operator manual

OPTIONAL EQUIPMENT

- 2 meter roller table for ABS 300 NC (152880), SKU : 251909
- 3 meter roller table for ABS 300 NC (152880), SKU : 252714
- micro spray coolanf for item 152880 - 152883, SKU : 253503

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