

Horizontal Mitre Cutting Bandsaws

ABS 600 TNC

SKU : 152825

The ABS 600 TNC is the largest fully automatic horizontal band saw for precise straight and miter cuts in the KNUTH Machine Tools catalog. The construction with swiveling dual column frame can be hydraulically positioned by up to 45 degrees in manual mode. A high-torque servo motor with stepless control serves as the main drive, while the automatic material feed is hydraulically driven. The PLC control via touchscreen is easy to program and the spiral chip conveyor included in the standard accessories underlines the focus on comprehensive series.

- Dual column design for superior stability
- Manual selection of miter angle with hydr. adjustment
- PLC with graphic touchscreen control panel
- Servo motor for main drive
- Hydraulic workpiece clamping



TECHNICAL SPECS

CUTTING CAPACITIES

Cutting speed	0 m/min - 100 m/min
Feed per single stroke (max.)	600 mm
Cutting capacity 0° (round)	600 mm
Cutting capacity 0° (square)	600 mm
Cutting capacity 0° (flat) (length x width)	850 mm x 600 mm
Cutting capacity 45° (round)	400 mm
Cutting capacity 45° (square)	400 mm
Cutting capacity 45° (flat) (length x width)	400 mm x 600 mm

DRIVE CAPACITY

Motor rating main drive	5.5 kW
Motor rating hydraulic pump	1.5 kW
Motor rating coolant pump	0.09 kW

MEASURES AND WEIGHTS

Blade dimensions	6685 mm x 54 mm x 1.6 mm
Overall dimensions (length x width x height)	3.11 m x 3.38 m x 2.35 m
Weight	3945 kg



Manual saw frame angle adjustment with hydraulic drive (15°, 30° and 45°)



PRODUCT DETAILS

- For efficient severing cuts of large diameters this heavy machine provides NC-controlled material feeds
- The robust touchscreen is mounted to a rotating control panel for quick programming and safe handling of the machine
- The machine frame is a torsion-resistant dual-column construction that ensures superior stability and torsional strength
- The hydraulically controlled saw frame feed can be infinitely adjusted as needed by the operator
- The hydraulically controlled vise positions the workpiece in the programmed position, while a second vise secures the workpiece precisely in front of the saw blade
- The linear measuring system is mounted at the feed system to ensure precise workpiece dimensions and exact repeatability
- An infinitely variable high-torque servo-motor allows adjustments based on cutting speed

CONTROLS & SOFTWARE

NC control for automatic band saws

- Fully automated band saws allow programming of cut lengths and quantities
- The intuitive dialog programming function is perfectly tuned for band saws and allows automatic and semi-automatic sawing operations
- Programming of grinding cycles via touchscreen
- Steps for material feed are performed automatically until the desired number of cuts has been reached or until all of the material has been processed
- Automatic function monitoring and error messages on the display

STANDARD EQUIPMENT

- Chip brush
- Hydraulic vice
- Bimetallic band saw blade
- Touchscreen monitor
- Work lamp
- Chip conveyor
- Coolant system
- Material support
- Operating tools
- Operator manual
- NC control for automatic band saws



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