

Horizontal Mitre Cutting Bandsaws

ABS 325 S NC

SKU : 823488

DEMO MACHINE

With slight signs of wear and paint defects, technically tested and fully functional

- Double-column design with precise linear guidance
- Mitre cutting with hydraulic workpiece clamping and digital display
- Omron touchscreen controller for fast programming and setup
- Material servo-feeding for high precision +/-0,2 mm
- Automated stroke height control with optical sensor



TECHNICAL SPECS

WORKING AREA

Minimum cut length	1 mm - 2 mm
Remaining length	190 mm

CUTTING CAPACITIES

Feed per single stroke (max.)	700 mm
Cutting speed	20 m/min - 100 m/min
Cutting capacity 0° (round)	325 mm
Cutting capacity 0° (flat) (length x width)	400 mm x 315 mm
Cutting capacity 0° (square)	315 mm
Cutting capacity 30° (round)	325 mm
Cutting capacity 30° (flat) (length x width)	380 mm x 315 mm
Cutting capacity 30° (square)	315 mm
Cutting capacity 45° (round)	300 mm
Cutting capacity 45° (flat) (length x width)	300 mm x 315 mm
Cutting capacity 45° (square)	300 mm
Max. feed length (multiple strokes)	9999 mm

ACCURACIES

Positioning accuracy (multiple strokes)	0.2 mm
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CUTTING CAPACITY IN SEMI-AUTOMATIC MODE

Cutting capacity 60° (round)	200 mm
Cutting capacity 60° (flat) (length x width)	200 mm x 315 mm
Cutting capacity 60° (square)	200 mm

DRIVE CAPACITY

Motor rating main drive	2.2 kW
Motor rating hydraulic pump	1.1 kW
Motor rating coolant pump	0.12 kW

MEASURES AND WEIGHTS

Blade dimensions	4380 mm x 34 mm x 1.1 mm
Overall dimensions (length x width x height)	2.13 m x 2.15 m x 1.65 m
Weight	1860 kg



PRODUCT DETAILS

- The ABS S NC is a fully automated horizontal band saw series with parallel guiding system, which is ideally suited for series production with mitre cuts in solid materials, tubes, and profiles
- The workpiece feed with servo motor drive and preloaded ball screws deliver maximum precision
- The combination of linear guides and box ways result in low maintenance, long tool life and extreme ruggedness under heavy production conditions
- The saw frame, including guide frame, can be rotated manually up to 60° and fixed in the selected position via a hydraulic clamping device
- The fully automated mode allows mitre cut angles up to 45°, and the semi-automatic mode up to 60°
- The exact saw frame angle can easily be checked by the operator on a digital display
- A slight 3° inclination of the saw frame on the cutting axis increases cutting capacity and saw blade life
- Rigid saw blade guides ensure vertical angular accuracy
- The reliable hydraulic unit provides the controlled clamping force for workpiece clamping
- Hydraulically controlled saw frame micro-feed
- The reliable Omron control with touchscreen allows for easy and convenient programming for a fully automated operation
- Unnecessary downtime is reduced by an optically controlled change-over from rapid feed to work feed
- A motor with infinitely variable speeds transmits power via a continuous-operation idler gear to the machine drive wheel
- The correct saw blade tension can be verified directly at the pressure gauge display
- An automatic band breakage control, a high-performance coolant system, and a chip brush complement the standard equipment package
- Available options for this series include Minimal Quantity Lubrication (MQL) and hydraulic bundle clamping

Standard Equipment

- Omron control with touch screen
- Automatic workpiece feed (servo)
- Hydraulic workpiece clamping
- Hydraulic cutting angle clamping
- Digital angle indicator
- Optical Height Adjustment
- Saw blade
- Mechanical saw blade tensioning with hydraulic pressure gauge
- Saw blade cleaner brush
- Coolant system
- Operating tools

Incl. optional accessories:

- 1x Micro coolant system in addition to the included standard coolant system
- 1x Chip conveyor for ABS S 325 NC
- 1x Hydraulic blade tensioner

STANDARD EQUIPMENT

Omron control with touchscreen
 Automatic workpiece feed (servo)
 Hydraulic part clamping
 hydraulic cutting angle clamping
 Digital angle display
 Optical height adjustment
 Saw-band
 Mechanical saw blade tensioning with hydraulic pressure gauge
 Saw blade cleaner brush
 Coolant system
 Operating tools
 Operator manual



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