

Horizontal Mitre Cutting Bandsaws

ABS 325 S NC

SKU : 423503

CUSTOM MODEL

The ABS S NC is a high-performance production band saw with a dual column design. The material is fed via a controlled servo motor with ball screw drive and measuring system with a positioning and repeat accuracy of +/- 0.0079 in. The Omron touchscreen controller can store up to 30 programs with 50 steps each. For additional flexibility, this series also offers hydraulic bundle clamping as an option. The manually set miter angle can be read on a digital display. The workpiece is clamped hydraulically.

- Double column design with linear guide for max. cutting precision
- Miter cutting with hydraulic angle clamping and digital display
- Omron touchscreen NC controller for fast program set-up
- Material servo-feeding for high precision
- 0.1 mm (0.0039 in.)
- automatic stroke height adjustment with optical sensor
- hydraulic top vise for bundle cutting



TECHNICAL SPECS

WORKING AREA

Minimum cut length	1 mm - 2 mm
Remaining length	7 in

CUTTING CAPACITIES

Feed per single stroke (max.)	27.56 in
Cutting speed	65.4 fpm - 327 fpm
Cutting capacity 0° (round)	13 in
Cutting capacity 0° (flat) (length x width)	16 in x 12 in
Cutting capacity 0° (square)	12 in
Cutting capacity 30° (round)	13 in
Cutting capacity 30° (flat) (length x width)	15 in x 12 in
Cutting capacity 30° (square)	12 in
Cutting capacity 45° (round)	12 in
Cutting capacity 45° (flat) (length x width)	12 in x 12 in
Cutting capacity 45° (square)	12 in
Max. feed length (multiple strokes)	393.66 in

ACCURACIES

Positioning accuracy (multiple strokes)	0.0039 in - 0.0079 in
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CUTTING CAPACITY IN SEMI-AUTOMATIC MODE

Cutting capacity 60° (round)	8 in
Cutting capacity 60° (flat) (length x width)	8 in x 12 in
Cutting capacity 60° (square)	8 in

DRIVE CAPACITY

Motor rating main drive	3 Hp
Motor rating hydraulic pump	1.5 Hp
Motor rating coolant pump	0.2 Hp

MEASURES AND WEIGHTS

Blade dimensions	172.44 in x 1.34 in x 0.04 in
Overall dimensions (length x width x height)	84 in x 85 in x 65 in
Weight	4092 lbs



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 miter cuts in solid materials, tubes, and profiles
- The workpiece feed with servo motor drive and preloaded ball screws delivers maximum positioning accuracy / repeatability within 0.004"
- 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 miter 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

This machine is equipped with helpful accessories for cutting pipes:

- Roller Conveyor 118in
- Minimum quantity cooling
- Chip conveyor
- Hydraulic saw blade tensioning
- Laser pointer
- Clamping force controlled at operator panel
- Hydraulic bundle clamping

STANDARD EQUIPMENT

Omron control with touch screen
 Automatic workpiece feed (servo)
 Hydraulic part clamping
 Hydraulic clamping of cutting angle
 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

OPTIONAL EQUIPMENT

- Micro spray cooling system for Band Saws 280-380, SKU : 253851