

# Horizontal Mitre Cutting Bandsaws

## ABS 460 TNC

**SKU : 152824**

With the fully automatic horizontal band saws of the ABS 460 TNC series, you can make precise straight and miter cuts in heavy workpieces made of steel, cast iron and other metals. The construction of the machines is characterized by a swiveling and stable saw frame. Cutting angles of up to 60 degrees can be selected manually and positioned hydraulically. A high-torque servo motor serves as the main drive. The automatic material feed is hydraulic and the PLC control with a large touchscreen display enables simple programming of the production tasks.

- 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

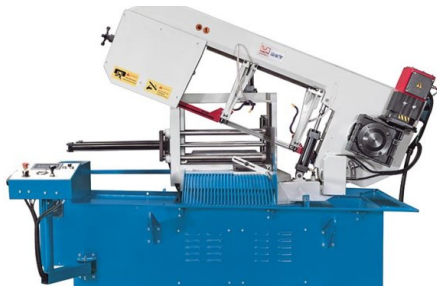
Cutting speed	23 m/min - 95 m/min
Feed per single stroke (max.)	650 mm
Working height	850 mm
Cutting capacity 0° (round)	460 mm
Cutting capacity 0° (square)	350 mm
Cutting capacity 0° (flat) (length x width)	650 mm x 350 mm
Cutting capacity 30° (round)	460 mm
Cutting capacity 30° (square)	350 mm
Cutting capacity 30° (flat) (length x width)	580 mm x 350 mm
Cutting capacity 45° (round)	460 mm
Cutting capacity 45° (square)	350 mm
Cutting capacity 45° (flat) (length x width)	460 mm x 350 mm
Cutting capacity 60° (round)	310 mm
Cutting capacity 60° (square)	310 mm
Cutting capacity 60° (flat) (length x width)	310 mm x 350 mm

#### DRIVE CAPACITY

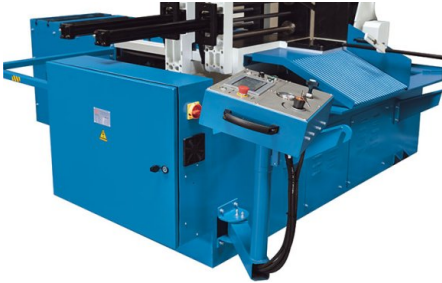
Motor rating main drive	5.5 kW
Motor rating hydraulic pump	1.5 kW
Motor rating coolant pump	0.045 kW

#### MEASURES AND WEIGHTS

Blade dimensions	5220 mm x 41 mm x 1.3 mm
Overall dimensions (length x width x height)	3.23 m x 2.72 m x 1.77 m
Weight	2430 kg



*Dual hydraulic gantry vise ensures maximum stability, even during machining of bundles*



*Infinitely variable belt speed, servo motor driven*

## PRODUCT DETAILS

- The saw frame can be moved hydraulically by the user for various cutting angles ( 0°,30°,45° and 60°)
- Robust touch screen control panel for easy programming of the cutting task
- Automatic workpiece feed features a precision linear measuring system
- Hydraulic saw frame feed, infinitely variable
- Servo-motor drive provides infinitely variable saw blade cutting speeds and high torque across the entire speed range
- Band speed indicator on the display
- Precise and stable saw band guides ensure high angular accuracy

## 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

Hydraulic vice  
 Hydraulic feed vise  
 Bimetallic band saw blade  
 Touchscreen monitor  
 Coolant system  
 Chip brush  
 Operating tools  
 Operator manual  
 NC control for automatic band saws



## KNUTH on YouTube

### Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?  
Please feel free to contact us!**