



Semi-automatic Heavyduty Bandsaws

- Model Number : SH-5542
- Design Style : Large Section Cutting: Billets, Ingots, Dies, Plates

Specifications

Maximum Cutting Capacity	Round	420 mm (16.5")
	Square	420 mm (16.5")
	Height x Width	420 x 550 mm (16.5"-21.6")
Saw Blade	Size	5300L x 41W x 1.3T mm (208.7" x 1.6" x 0.050")
	Speed	20-100 m/min (66-328 fpm)
	Tension	Hydraulic (with blade breakage detector)
Motor Output	Blade	5.5 kW (7.5 HP)
	Hydraulic	1.5 kW (2 HP)
	Coolant	0.1 kW (1/8 HP)
Tank	Hydraulic	35 L (8.75 gal)
	Coolant	95 L (23.75 gal)

Machine Features

SH-5542 Machine Features

Structure:

Two oversized, precision ground *dual columns* support and guide the massive saw head. This dual column feature insures rigid support throughout the cutting cycle by keeping the blade parallel and square to the work piece.

Blade Drive:

The *gearbox* is specially designed to accept high lateral pressure. Unlike conventional gearboxes, the Cosen design accepts more pressure during operation and will not create thermal distortion, providing long gearbox life under production conditions.

Blade Guidance & Lubrication System:

Carbide guides securely guide the blade during the cutting cycle. The carbide is relieved so that coolant can both cool and lubricate the blade during the cut.

Two *additional guides* located on a central axis support the blade from the top, giving it extra penetrating force. The carbide guides are relieved to allow coolant flow to lubricate and cool the blade as well as work piece.

Automatic hydraulic blade tensioning device provides correct blade tensioning when the machine is turned on and will slightly release the tension when the machine is not running. This extends blade life. The on-off hydraulic valve switch is an added feature making blade change quicker and easier

Blade tension device insures proper blade tension for quality cuts and longer blade life.

Integral coolant system. Coolant is supplied at four critical points, both guide arms, blade cleaning brush and adjustable flex hose (needed when cutting large cross sections).

The machine base is designed with pitch to drain the coolant back to the coolant tank.

Synchronized power driven blade brush removes the chips from the blade, maximizing productivity and extending blade life.

Control & Automation:

PLC controls the function of hydraulic and electric system

Precision feed pressure & feed rate dual valve system for optimal cutting performance in any material.

Material Feeding & Vising:

Full stroke hydraulic vises enable clamping and unclamping of any material from the operator's control station with touch of a button. This eliminates the operator from having to hand position the vise when material size changes. ?

Split vise jaws on the front machine vise are standard. The split front vise will hold the work piece on both sides of the blade for a burr-free cut.

Ductile cast iron vise.

One *Take-In Roller* is mounted behind the vise to enhance material loading and feeding.

Safety:

Proximity switches sense both blade slippage and blade breakage and will automatically shut off the machine if either of these conditions should occur.

Standard Accessories:

Blade clip device eases blade changing when necessary by holding the blade on the band wheel during installation, making it very easy for one person to change the blade.

Adjustable front plate for cut-off stock

Additional flushing hose for cleaning

Beam light

Bi-metal saw blade

Tool Box with tools, leveling pads.

Operation & parts manual