



Semi-automatic Heavyduty Bandsaws

- ▣ Model Number : SH-7050
- ▣ Design Style : Large Section Cutting: Billets, Ingots, Dies, Plates

Specifications

Maximum Cutting Capacity	Round	500 mm (20")
	Square	500 mm (20")
	Height x Width	500 x 700 mm (20"-27.6")
Saw Blade	Size	5450L x 41W x 1.3T mm (215" 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	0.75 kW (1 HP)
	Coolant	0.1 kW (1/8 HP)
Tank	Hydraulic	35 L (9 gal)
	Coolant	85 L (21.25 gal)

Machine Features

SH-7050 Machine Features

Machine Structure:

Precision ground, chrome-plated Dual Columns support and guide the rugged saw head through the entire cutting cycle. The saw head adopts a back tilt design which allows the blade to twist less than traditional bandsaws between the wheel and blade guide; thereby putting less stress on the blade, insuring longer life.

Cross Link is located on the top of the columns, connecting the two columns to form an archway design that gives it sound structural strength.

The oversized round columns provide *hundreds of square inches* of continuous surface contact with the sawhead throughout the entire cutting process.

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.

Inverter blade drive system allows infinitely variable blade speeds to be controlled by the operator from the control panel with turn of a knob. The system comes standard with *LED readout* for convenient and accurate setting of blade speed. (Optional)

Blade Guidance & Lubrication System:

Carbide guides securely guide the blade during cutting. The carbide guides are relieved to allow coolant flow to lubricate and cool the blade, blade guides, as well as work piece.

The *bearing guides* eliminate blade stress by pre-aligning the blade before it enters the carbide guides. Two *additional guides* located on a central axis support the blade from the top, giving it extra penetrating force for faster cuts.

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

Integral coolant system. Coolant is supplied at three critical points: exit & entry of blade through blade guides, and middle of cut via *adjustable flex hose*.

Synchronized power driven blade brush effectively cleans chips from blade to extend blade life.

Control & Automation:

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

"*Last Cut*" or "*Keep On*" selector switch enables you to choose either to turn the machine off or return the saw head to the pre-selected cut height ready for the next cut.

Work height selector works with *Keep On* selector to position the saw frame to a safe clearance above the work piece preset by the operator, so that the next work piece can be readily positioned without damaging the blade.

Material Feeding & Clamping:

Hydraulically powered material lift roller in the saw bed with manually operated take-in enables easy & precise material positioning.

Heavy-duty 460mm infeed and 460mm discharge roller table feature nine 73mm dia. rollers.

Full stroke hydraulic vise enable clamping and unclamping of any material from the operator's control station with touch of a button, offering time saving convenience

Large vise-jaw operates hydraulically ensuring secure clamping. The vise rides on ground and hardened replaceable bed plates for long useful life.

Vise pressure regulator allows proper adjustment for heavy or thin materials without damaging the work piece. (Optional)

Safety:

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

All blade covers, and guarding on the saw are painted Alert Orange to increase safety alertness.

All exposed electric wiring and hydraulic circuit are protected by conduits.

Electrical and hydraulic safety interlock prevents saw blade to start without vises securely clamped.

