



Semi-automatic Heavyduty Bandsaws

- Model Number : **SH-1080F**
- Design Style : **Large Section Cutting: Billets, Ingots, Dies, Plates**

Specifications

Max. Capacity	Round	800 mm (31.5")
	Square	800 mm (31.5")
	Rectangular(H x W)	800 x 1000 mm (31.5" x 39.4")
Blade	Capacity	8850L x 54W x 1.6Tmm (348.4" x 2.1" x 0.063")
	Speed	20-100 m/min. (66-328 fpm)
	Tension	Hydraulic (with blade breakage detector)
Motor	Blade	7.3 kW (10 HP)
	Hydraulic	2.19 kW (3 HP)
	Coolant	0.365 kW (1/2 HP)
Tank	Hydraulic	75L (18.75 gal.)
	Coolant	120L (30 gal.)
Work Bed Height		650 mm (25.6")
Net Weight		5800 kgs (12760 lbs)
Gross Weight		6200 kgs (13640 lbs)
Floor Space(LxWxH)		2900 x 4400 x 2750 mm (114" x 173" x 108.3")
Shipping Space(LxWxH)		20' open top container

Machine Features

Structure:

- Cosen employs a rigid, oversized round column design, which keeps the same penetrating angle to the material from top to bottom of cut, to enable smooth and consistent feed rate throughout the entire cutting cycle.
- The oversized round columns provide continuous surface contact with the sawhead throughout the entire cutting process.

Blade Drive & Lubrication System:

- Heavy Duty Inverter blade drive system provides infinitely variable blade speed control from the operator's control station.
- LED speed indicator is conveniently located on the control panel.
- Powered Chip Brush is driven by a separate motor in sync with blade motor for optimum blade cleaning prolonging blade life & blade guides.
- Complete coolant system with integral recovery system.

Blade Guidance:

- Automatic hydraulic blade tension device insures proper tension to blade when machine is turned on and will relax blade tension slightly when turned off, extending blade life.
- Hydraulically powered guide arm is activated from the operator's counsel & permits more efficient cutting by being able to be moved close to the material, regardless of size.
- Hydraulically operated carbide blade guides are relieved to provide unsurpassed lubricating and cooling of the blade and blade guides.
- Additional blade guiding bearings contacting the back of the blade provides extra support for added penetrating force for faster cuts.
- *Vibration damper* can effectively reduce blade vibration produced under high-speed cutting.

Control & Automation:

- Independent Control Station is located ergonomically at waist height featuring convenient accessing and ease of operation.
- "Last Cut" or "Keep On" selector 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.

Material Clamping & Feeding:

- Hydraulically lifting take-in roller is actuated in hydraulic force to lift up the stock for easy adjustment of the stock position.
- Heavy duty machine vise provide ample hydraulic pressure onto the material.
- Shadow Light projects the blade line onto the work piece for convenient length measurements.
- One full stroke split vise securely hold the material during the cutting process

Safety:

- A proximity switch senses both blade slippage and blade breakage, and if sensed, it will automatically shut off machine.
- Vise must be at full pressure prior to the machine commencing its' cutting mode.
- Interlock design in electrical and hydraulic system prevents the saw from accidental start.

Standard Accessories:

- Bi-metal saw blade
- Tool Box with tools, leveling pads, and an additional wire brush
- Operation & parts manual