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Semi-Automatic Canted Frame Straight Cutting Saws

- Model Number : SH-700F
- Design Style : Double Column Type

Specifications

Model		SH-700F (7.5 blade tilt)
Max. Capacity	Round	420 mm (16.5")
	Rectangular (H x W)	350 x 700 mm (13.8" x 27.5")
Saw Blade	Speed(60Hz)	20-100 m/min (66-330 fpm)
	Size (LxWxT)	5450L x 41W x 1.3Tmm (215" x 1.6" x 0.05")
	Tension	Hydraulic
Motor Output	Saw Blade	7.5 HP (5.6 KW)
	Hydraulic	1 HP (0.75 KW)
	Coolant pump	1/8 HP (0.09 KW)
Tank Capacity	Hydraulic	50 L (13 gal)
	Coolant	40 L (10.4 gal)
Work Bed Height		700 mm (27.5")
Net Weight		1930 kgs (4250 lbs)
Gross Weight		2700 kgs (5940 lbs)
Floor Space(LxWxH)		1200 x 2750 x 2150 mm (47" x 108" x 84.6")
Shipping Space(LxWxH)		1400 x 3200 x 2235mm (55" x 126" x 88")

Machine Features

Machine Structure:

- Precision ground, chrome-plated Dual Columns support and guide the rugged saw head through the entire cutting cycle.
- *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.

- *7.5° blade cant* is designed specifically for cutting structural steel such as H-beam, I-beam, channels, etc at the best cutting conditions.

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

Floor plan

Close