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## Traversing Head Vertical Plate Saw

- Model Number : [SV-20130H](#)
- Design Style : [Hydraulic Cylinder Drive Saw Frame](#)

### Specifications

<b>Maximum Cutting Capacity</b>	height	200 mm (8")
	Throat	1300 mm (51")
	Length	by order (max. 2500mm(98.4"))
<b>Saw Blade</b>	Size	6200 x 41 x 1.3mm (244" x 1.6" x 0.05")
	Speed	20-80m/min (66-264ft/min)
	Tension	Hydraulic Controlled
	Guide	Tungsten Carbide guides
<b>Motor Output</b>	Blade	7.5 HP (5.6 KW)
	Hydraulic	2 HP (1.5 KW)
	Coolant	1/4 hp (0.19 KW)
<b>Tank Capacity</b>	Hydraulic oil	40 L (8 gal)
	Coolant	300 L (66 gal)

### Machine Features

## MACHINE FEATURES

### Structure:

- The *swivel sawhead* allows the user to cut at any angle between 90° (straight cut) and 45° (miter cut). The precision pivot system facilitates easy and accurate adjustment for angle cuts. Cosen's C-500MNC has a protractor and pointer in clear view and away from any chips covering the numbers. C-500MNC requires no tools to make angle changes.
- *Hydraulic shuttle vise assembly*, made of heavy-duty cast iron with replaceable hardened wear plates, rides on *two large guide shafts* that are capable of handling extreme loads. Both shafts are ground and chrome plated for durability and smooth material feeding.
- A 457mm solid discharge table with coolant return and hydraulic shuttle table featuring 600mm single stroke length are standard features that make material handling easy.
- Rigid and heavy-duty pivot and trunion insure long machine life.

## **Blade Drive:**

- The *variable-speed blade drive* is equipped with the best worm gear speed reducer. The worm shaft is hardened and ground. Together, they provide quiet, powerful, and trouble-free drive.
- The standard blade speed control provides inverter controlled infinitely variable blade speeds from 20 m/min thru 100 m/min to accommodate all types of materials.

## **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. Bearing guides eliminate blade stress by pre-aligning the blade before it enters the carbide guides.
- *Cast iron guide arms* are rigidly supported by a large, heavy-duty cast iron dovetail to assure straight cuts and eliminate vibration for longer blade life.
- *Blade tension device* insures proper blade tension for quality cuts and longer blade life.
- *Integral coolant system*
- *Synchronized power driven blade brush* removes the chips from the blade, maximizing productivity and extending blade life.

## **Control & Automation:**

- **Smart NC-20 (SNC20) technology** provides most of the benefits of NC controlled saws at a mere fraction of the cost. SNC20 controls are programmable to *20 different jobs* including quantity and length of cut.
- SNC-20 Features include:
  - Key pad entry of programmable quantity and length of cut with automatic shut-off for finished job(s) or out of stock.
  - Stored program(s) may be easily recalled and executed at Will.
  - LCD Screen with Film Type Key Pad
  - Blade Speed Display
  - Blade Life Indicator
  - Feed Vise Position Display
  - Automatic Kerf Loss Compensation & Automatic Multiple Indexing up to 6500mm
  - **Save-a-Blade Feature** - The shuttle vise will automatically retract the material slightly after cut-off, so a blade can avoid the undesirable abrasion with material, improving cutting tool life.
  - Error Code Display Provides simplified self-diagnostics.
- *Precision feed pressure & feed rate dual valve system* for optimal cutting performance in any material.

## **Material Clamping & Feeding:**

- *Smart NC Controlled Multiple indexing* for long cutting lengths of up to 6500 mm maximum length, utilizing full shuttle length every index (600mm) until desired length is reached.
- *Full stroke machine vises.* The machine front vise and index vise incorporate full stroking cylinders to provide tight clamping of any material from the operator's station. This eliminates the operator from having to hand position the vise when material size changes.

As a very useful feature, LED light comes on to indicate secure clamping.

- *Ductile cast iron vise* with replaceable hardened wear plates.

 **Floor plan**

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