

Cosen's Model SV-510DM allows the user to cut at any angle between 90° (straight cut) and 45° (miter cut) in both directions. The precision pivot system facilitates adjustment for angle cuts. The standard 1-1/4" blade feature is preferred when cutting thick-walled and harder material, and the 5 HP fluid drive provides torque at all speed ranges.

Because the blade is fluid driven there are no belts to wear out or slip, no pulleys to replace, no pinion gear to wear and no backlash from the ring and pinion drive. Hydraulic driven cast iron guide arms with cross member support travels on heavy-duty linear guides for straighter cuts and minimal vibration for longer blade life.



MACHINE SPECIFICATIONS SV-510DM

MAX. CAPACITY	Angle	90°	45°
	○	460mm (18")	320mm (12.5")
	□ (Throat x Height)	510 x 460mm (20" x 18")	460 x 320mm (18" x 12.5")
SAW BLADE	Speed	0-120 m/min. (0-396 fpm)	
	Size	4570 X 34 X 1.066 mm (180" x 1.33" x 0.04")	
	Tension	Hydraulic Controlled	
	Guide	Roller bearing with carbide side guides	
MOTOR OUTPUT	Saw blade	5 HP (3.7 KW)	
	Coolant	1/8 HP (0.1 KW)	
TANK CAPACITY	Hydraulic Oil	20 gal.	
	Coolant	12 gal.	
WORKBED HEIGHT	915 mm (36")		
NET WEIGHT	1450 Kg		
FLOOR SPACE	2620 L X 840 W X 2500 Hmm (103" x 112" x 94.5")		

STANDARD EQUIPMENT:

- Infinite variable blade speed control with speed indicator
- Hydraulic blade tension controller
- Idle wheel motion detector
- Cutting feed rate control system
- Hydraulic blade guide arm
- Complete coolant system

MACHINE FEATURES:

1. **TILT SAWHEAD DEVICE**
With the special-made tilt center, the heavy-duty sawhead frame is able to tilt 45° both left and right of center with minimum effort.
2. **PRECISE ANGLE SCALE**
There is an easily read angle scale on the protractor device. The operator can read the angle from the position of the control station conveniently.
3. **CONTROL STATION**
Located at the front end of the machine. Electrical and hydraulic components are separately housed.
4. **POWER WIRE BRUSH FOR BLADE CLEANING**
It thoroughly and automatically removes the chip from the blade gullets, producing the most favorable cutting performance and improving the blade life.
5. **HYDRAULIC DRIVEN BLADE GUIDE ARM**
The blade guide arm is hydraulically positioned and controlled from the operator's panel.
6. **HYDRAULIC BLADE TENSIONING**
The heavy-duty hydraulic cylinder drives the idle wheel for obtaining the optimum blade tension and assuring straight cuts and making blade change easier.
7. **IDLE WHEEL MOTION DETECTOR**
IF the blade breaks, the machine will automatically stop for safety.
8. **ROBUST MACHINE STRUCTURE**
The machine structure is designed to allow the heaviest cutting loads.

OPTIONAL ACCESSORIES

Right hand, 7" high, manual vise in addition to the standard left hand vise
Right hand, 7" high, hydraulic vise in addition to the standard left hand vise
Left hand, 7" high, hydraulic vise, in place of the manual left hand vise
High Vise Jaws (9 1/4") instead of standard vise jaws (Set of 2 Jaws)
High Vise Jaws (9 1/4") in addition to standard vise jaws (Set of 2 Jaws)
Hydraulically Actuated Work lift Roller (One Side Only)
Hydraulically Actuated Work lift Roller (Both sides)

Notcher

Variable Vise Pressure

Hydraulic tilt with automatic lock

Hydraulic overhead clamps (May be purchased for right or left side vises)

Super Heavy-duty Roller Table 5' long

Super Heavy-duty Roller Table 10' long

6.5' or longer Heavy-duty tables, with vertical alignment rollers