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Semi-Automatic Swivel Head Double Mitering

- ▣ Model Number : **SH-700DM**
- ▣ Design Style : **Double Sides Swivel/Hinge Type**

Specifications

Angle				
Max. Capacity	Round	450 mm (17.7")	450 mm (17.7")	300 mm (11.8")
	Rectangular(H x W)	450 x 700 mm (17.7" x 27.5")	450 x 520 mm (17.7" x 20.5")	450 x 300 mm (17.7" x 11.8")
Saw Blade	Speed	20-100 m/min (66-330 fpm)		
	Size (LxWxT)	5800L x 41W x 1.3Tmm (228" x 1.6" x 0.050")		
	Tension	Hydraulic		
Motor Output	Saw Blade	7.5 HP (5.6 KW)		
	Hydraulic	1 HP (0.75 KW)		
	Coolant pump	1/8 HP (0.1 KW)		
Tank Capacity	Hydraulic	45 L (11.7 gal)		
	Coolant	120 L (31.2 gal)		
Work Bed Height	750 mm (29.5")			
Net Weight	2100 kgs (4620 lbs)			
Gross Weight	2400 kgs (5280 lbs)			
Floor Space(LxWxH)	2700 x 3150 x 2720 mm (106.3" x 124" x 107")			
Shipping Space(LxWxH)	2690 x 1750 x 2110 mm (106" x 69" x 83")			

Machine Features

- The swivel sawhead allows the user to cut at any angle up to 60° in one direction. The precision pivot system facilitates easy and accurate adjustment for angle cuts. Cosen's SH-700DM has a protractor and pointer in clear view and away from any chips covering the numbers.
- Rigid and heavy-duty pivot and trunion insure long machine life.

Blade Drive:

The *infinitely variable-speed blade drive* is equipped with the heavy duty worm gear speed reducer. The worm shaft is hardened and ground. Together, they provide quiet, powerful, and trouble-free drive.

Cosen offers infinitely variable blade speed system utilizing an inverter drive with the LED Blade Speed Indicator conveniently located on the operator's station, providing variable speeds from 20 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.

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.

Heavy-duty cast iron guide arms are rigidly supported by a large, heavy-duty ductile cast iron dovetail to assure straight cuts and eliminate vibration for longer blade life.

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 many critical points: exit & entry of blade through blade guides, middle of cut via *adjustable flex hose*, and blade cleaning brush.

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

Control & Automation:

Cosen's *dual valve feed system* achieves optimal cutting performance. The operator can easily pre-select the correct feed pressure and feed rate for efficient cutting of any material.

The operator's control station located ergonomically on the front right side of the saw is convenient and user friendly. All operator controls are positioned on the top of the control box and clearly labeled for ease of operation. The electrical components are located inside the control box with the main lockout disconnect on the front of the control box for safety and easy maintenance.

Work height selector. When the head automatically rises after cut-off, the work height can be preset to allow the head to stop rising just above the material. This timesaving feature is especially useful when making repetitive cuts of the same stock.


Cosen uses only heavy-duty *industrial rated hydraulic components* within a straightforward configuration for easy maintenance. To make maintenance even easier, All components are clearly labeled for identification.

Material Feeding & Clamping:

Full stroke machine vise. The machine vise incorporates a full stroking cylinder with two guide columns to provide hydraulic clamping of any material from the operator's station. This eliminates the operator from having to hand position the vise when material size changes.

A 620mm solid *discharge table* with coolant return and a built-in *adjustable material stop* are standard features that make repeated cutting easy. In addition, productivity is further enhanced with 915mm infeed roller table.

Multiple horizontal rollers located on the entry side of the saw to facilitate smooth material feeding.

 **Floor plan**

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