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## NC Programmable Fully Automatic Horizontal Band Saw

- Model Number : **C tech C-2**
- Design Style :

### Specifications

MODEL		C2
MAX. CAPACITY	Round	260mm (10.2")
	Square	260×260mm (10.2"×10.2")
	Rectangular	260×300mm (10.2"×13.4")
SAW BLADE	Speed	20-100 m/min (66-330 fpm)
	Size (LxWxT)	4115x34x1.1mm (162"x1.33"x0.042")
	Tension	Hydraulic
MOTOR OUTPUT	Saw blade	5HP (3.75kw)
	Hydraulic	1HP (0.75kw)
	Coolant pump	1/8HP (0.09kw)
TANK CAPACITY	Hydraulic	20L (5.3gal)
	Coolant	45L (11.9gal)
FEEDING LENGTH	Per stroke	400mm (15.7")
	Multi stroke	max.99999mm
HEIGHT OF WORKBED		650mm (25.6")
NET / GROSS WEIGHT		1500 / 1700kgs (3300 / 3740lbs)
FLOOR SPACE (WxLxH)		2100x1780x1400mm (82.7"x70"x55.1")
SHIPPING SPACE (WxLxH)		2260x2135x1880mm (89"x84"x74")

\*Design & specifications are subject to change without notice and obligation.

### Machine Features

**Cosen's C2** incorporates a 5hp powerful blade motor, 34mm wide blade, facilitated control panel, and heavy-duty gantry design. These features create a very rigid, dynamically stable and productive machine. The linear guide ways ensure smooth saw frame movement and the consistently stable cutting force required throughout the cutting cycle, thereby increasing the cutting efficiency and extending blade life.

### Machine Structure:

- Cosen employs Linear Guide Ways design. The saw frame rides on linear guide ways. This design allows the saw frame a rigid base thereby ensuring the smoothest feeding, highest precision and lowest friction guide system available today. Cosen saws are designed for high speed, precision and a long service life.
- *Cross Link* is located on the top of the pillars, connecting the two pillars to form a gantry design that gives it sound structural strength.
- *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.

### **Blade Drive:**

- The rugged gearbox is specially designed to accept high lateral pressure, thus not creating thermal distortion. This design provides long and trouble free gearbox life.
- Heavy duty inverter blade drive system provides infinitely variable blade speed control from the operator's control station.
- The blade speed indicator is conveniently located on the control panel.

### **Blade Guidance & Lubrication System:**

- The *bearing guides* eliminate blade stress by pre-aligning the blade before it enters the carbide guides. Two *additional inserts* located on a central axis support the blade from the top, giving it extra penetrating force for faster cuts.
- *Vibration damper* can effectively reduce blade vibration produced under high-speed cutting. Especially for cutting small materials on bandsaws of large width capacity, the vibration damper can reduce blade vibration, increase cutting rate, and enable smooth cut-off surfaces.
- *Heavy-duty cast guide arms* effectively absorb vibration and enhance cutting result.
- *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 four 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:**

- The operator's control panel located on the front side of the saw is convenient and user friendly. All operator controls are clearly labeled for ease of operation. The electrical components are located inside the electric box with the main lockout disconnect on the front of the box for safety and easy maintenance.
- ***Mitsubishi controller technology*** provides the benefits of NC controlled saws at a mere fraction of the cost. The controller is programmable to 99 *different jobs* including quantity and length of cut. The control *automatically compensates* for Kerf loss after data input and requires *no manual calculation* of number of times to index. The control also automatically shuts down the machine, blade motor, and hydraulics, once the programmed number of cuts or out of stock situation has been achieved. As well as the blade deviation detected value, feeding rate and the saw frame work height are able to be read from the screen. The system includes an *error feedback* function enabling rapid troubleshooting through an error code to be displayed in the event of a malfunction.
- The controller Features include:
  - Touch panel 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 Touch panel
  - Blade Speed Display
  - Blade Life Indicator
  - Feed Vise Position Display
  - Automatic Kerf Loss Compensation & Automatic Multiple Indexing up to 99999mm
  - **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.
- 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.
  - *Automatic work height sensor* positions the saw frame to a safe clearance above the work piece, so that the next piece can be positioned without damaging the blade. After feeding, the saw head will descend quickly to within approximately 10mm (0.4") of work piece, where it proceeds at the predetermined cutting rates.
  - Selector Switch for *bundle or single* cutting modes

### **Material Clamping & Feeding:**

- *Split vise jaws* on the machine vise are standard. The split front vise will hold the work piece on both sides of the blade for a burr-free cut.
- *Double retracting vise jaws*. Both jaws of the index vise open (retract) and close assuring smooth material feeding, especially helpful for misaligned or cambered material.
- *Full stroke hydraulic front and rear vises* enable clamping and unclamping of any material from the operator's control panel with touch of a button.
- *Ductile cast iron vise* with replaceable hardened wear plates.
- *Mitsubishi Controlled Multiple indexing* for long cutting lengths of up to 99999mm maximum length, utilizing full shuttle length every index until desired length is reached.
- One set of *vertical alignment rollers*, which is convenient for bundle cutting and positioning bar stock, is standard and is located on the machine base.
- *Multiple horizontal rollers* strategically located throughout the saw to facilitate smooth material feeding.

### **Safety:**

- *Proximity switches* sense both blade slippage and blade breakage and will automatically shut off the machine if either of these conditions should occur.
- All blade covers and guarding on the saw are painted Alert Orange to increase safety alertness.
- Interlock design in electrical and hydraulic system prevents the saw from accidental start All machines
- Conduits protect all exposed electric wiring and hydraulic circuits.

### **Standard Accessories:**

- *Blade "clip" device* eases blade changing when necessary by holding the blade on the band wheel during installation, making it very easy for one person to change the blade.
- Built in work light
- Bi-metal saw blade
- Tool Box with tools, leveling pads, and an additional wire brush
- Operation manual

• Floor plan

Close 