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## Canted Frame NC Automatic Straight Cutting Band Saw

- ▣ Model Number : [C-760FNC](#)
- ▣ Design Style : [Double Column Type](#)

### Specifications

|                       |  |   |
|-----------------------|--|---|
| Model                 | C-760FNC (7.5 blade tilt)                |   |
| Max. Capacity         | Round                                    | 560 mm (22")                              |
|                       | Rectangular (H x W)                      | 520 x 760 mm (20.5" x 30")                |
| Saw Blade             | Speed(60Hz)                              | 20-100 m/min (66-330 fpm)                 |
|                       | Size (LxWxT)                             | 6665L x 54W x 1.6Tmm (262" x 2" x 0.063") |
|                       | Tension                                  | Hydraulic                                 |
| Motor Output          | Saw Blade                                | 10 HP (7.5 KW)                            |
|                       | Hydraulic                                | 2 HP (1.5 KW)                             |
|                       | Coolant pump                             | 1/4 HP (0.18 KW)                          |
| Tank Capacity         | Hydraulic                                | 80 L (20.8 gal)                           |
|                       | Coolant                                  | 100 L (26 gal)                            |
| Feeding Length        | Per Stroke                               | 520 mm (20.5")                            |
|                       | Multi Stroke                             | max. 6500 mm (650")                       |
| Work Bed Height       | 700 mm (27.5")                           |   |
| Net Weight            | 5500 kgs (12100 lbs)                     |   |
| Gross Weight          | 6100 kgs (13420 lbs)                     |   |
| Floor Space(LxWxH)    | 2160 x 3375 x 2415 mm (85" x 133" x 95") |   |
| Shipping Space(LxWxH) | 2285 x 3530 x 2260mm (90" x 139" x 89")  |   |

### Machine Features

#### Machine Structure:

- Cosen employs a rigid, dual column design, which keeps the same penetrating angle to the material from top to bottom of cut, to enable smooth and consistent feed rate throughout the entire cutting cycle.

- The oversized round columns provide hundreds of square inches of continuous surface contact with the sawhead throughout the entire cutting process. Both columns are precision ground for smooth and consistent feed pressure & feed rates.
- *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.
- *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.
- *7.5° blade cant* is designed for cutting structural steel such as H-beam, I-beam, channels, etc at the best cutting conditions.

### **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:**

- *Carbide blade guides* are activated *hydraulically* for consistent and correct carbide guide clamping to insure straight cuts. The guides are relieved to provide unsurpassed lubricating and cooling of the blade and blade guides.
- 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.
- *Vibration dampers* can effectively reduce blade vibration produced under high-speed cutting.
- Hydraulically powered guide arm is activated from the operator's counsel & permits more efficient cutting by being able to be moved close to the material, regardless of size.
- *Heavy-duty cast guide arms* effectively absorb vibration and enhance cutting result. The movable guide arm is *hydraulically actuated* ensuring rapid and accurate movement.
- *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 station ergonomically located on the front 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.
- **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.
- 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.

### **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 station with touch of a button.
- *Ductile cast iron vise* with replaceable hardened wear plates.
- *Smart NC Controlled Multiple indexing* for long cutting lengths of up to 6500 mm maximum length, utilizing full shuttle length every index (520mm) 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.
- *Discharge Table* with built-in coolant return adequately supports cut-off stock and provides coolant savings in the long run.

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