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SNC Automatic Saw with Shuttle Vise

- ▣ Model Number : **C-420NC**
- ▣ Design Style : **Double Column Type**

Specifications

Capacity	Round	420 mm (16.5")
	Square	420 mm (16.5")
	Rectangular(H x W)	420 x 420 mm (16.5" x 16.5")
Bundle Capacity	Width	190-360 mm
	Height	100-180 mm
Saw Blade	Speed	20-100 m/min. (66-328 fpm)
	Size(LxWxT)	4770L x 41W x 1.3Tmm (187.8" x 1.6" x 0.05")
	Tension	Hydraulic (Automatic blade breakage detection)
Motor Output	Saw blade	7.5 HP (5.6 KW)
	Hydraulic	2 HP (1.5 KW)
	Coolant	1/8 HP (0.1 KW)
Hydraulic Tank		40 L (10.6 gal.)
Coolant Tank		85 L (22.5 gal.)
Vise Control		Hydraulic Full Stroke Cylinder
Automatic Indexing Length	Single	503 mm (19.8")
	Multiple	Max. 6500 mm (max. 650")
	Rest Piece	60 mm (2.4")
Height of Work Bed		700 mm (27.5")
Net/Gross Weight		3000/3300 kgs
Floor Space		2490 x 2360 mm (98" x 93")

Machine Features

C-420NC Machine Features

Machine Structure:

- Oversized Precision ground, large Dual Columns support and guide the rugged saw head through the entire cutting cycle.
The saw head adopts a back tilt design which allows the blade to twist less than traditional bandsaws between the wheel and blade guide; thereby putting less stress on the blade, insuring longer life.
- The oversized round columns provide *hundreds of square inches* of continuous surface contact with the sawhead throughout the entire cutting process.
- *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.

Blade Drive:

- The *gearbox* is specially designed to accept high lateral pressure. Unlike conventional gearboxes, the Cosen design accepts more pressure during operation and will not create thermal distortion, providing long gearbox life under production conditions.
- *Inverter blade drive system* allows infinitely variable blade speeds to be controlled by the operator from the control panel with turn of a knob. The system comes standard with *LED readout* for convenient and accurate setting of blade speed.

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 inserts* located on a central axis support the blade from the top,

giving it extra penetrating force for faster cuts.

- *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:

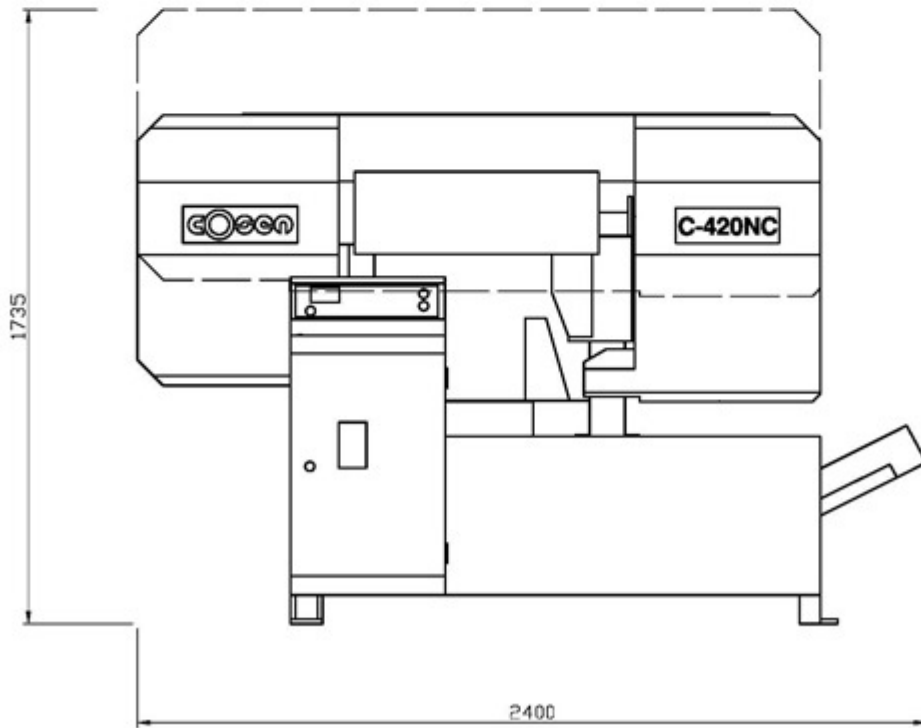
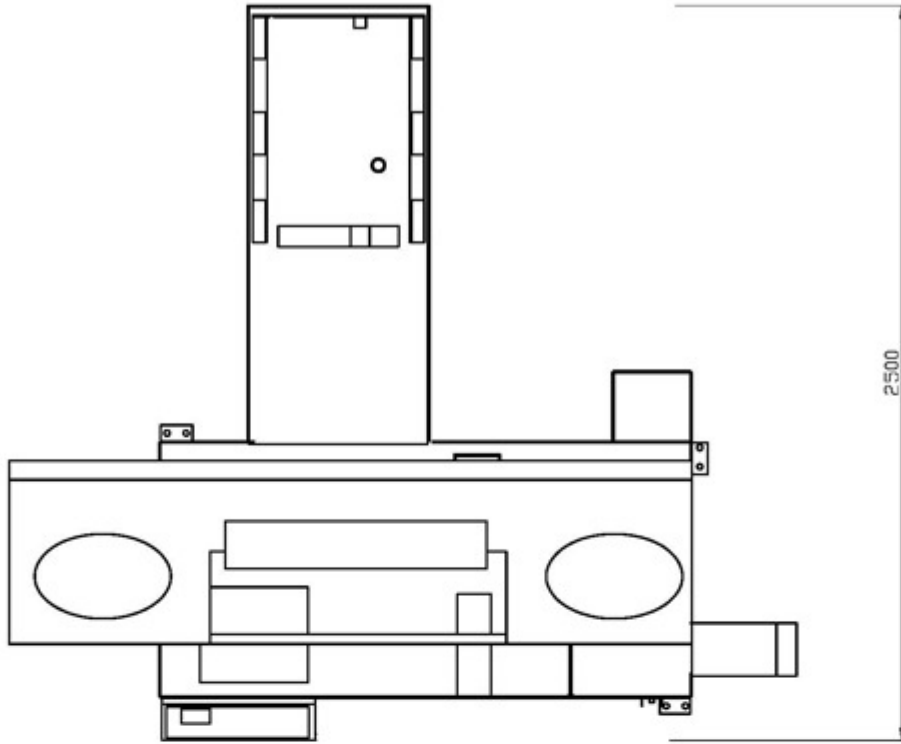
- **NC-99System** is programmable to 99 *different jobs* including quantity and length of cut.
- 1 Automatic First Cut function automatically trims off the irregular end of the stock without any measurement or manual operation.
- 1 Key pad entry of programmable quantity and length of cut with automatic shut-off for finished job(s) or out of stock.
- 1 Stored program(s) may be easily recalled and executed at Will.
- 1 Browsing, selecting and modifying the preset program “during operation” are allowed.
- 1 LCD Screen with Film Type Key Pad
- 1 Blade Speed Display
- 1 Blade Life Indicator
- 1 Feed Vise Position Display
- 1 Automatic Kerf Loss Compensation & Automatic Multiple Indexing up to 6500mm
- 1 **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.

1 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:

- *Split vise jaws* on the front machine vise are standard.
The split front vise will hold the work piece on both sides of the blade for a burr-free cut. This system also features automatic feeding of material down to a remnant length of 60mm.
- *Full stroke hydraulic front and rear vises* enable clamping and unclamping of any material from the operator's control station.
Zero clamping is made possible.
- *Ductile cast iron vises* with replaceable hardened wear plates.
- *NC Controlled Multiple indexing* for long cutting lengths of up to 9999 mm 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.
- *Discharge Table* with built-in coolant return adequately supports cut-off stock and provides coolant savings in the long run.



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