

DoALL

...the Productivity People

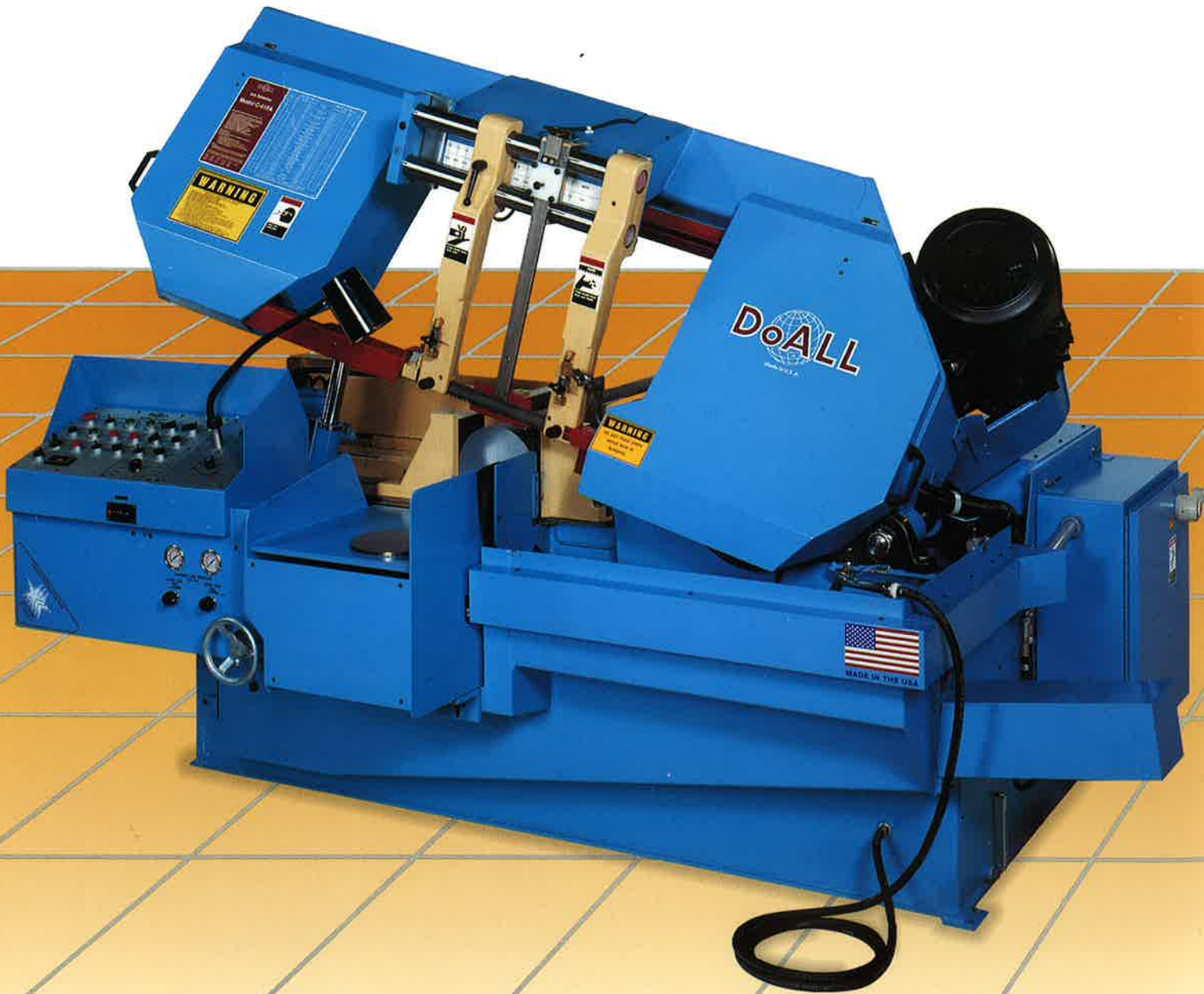
C-410 Series



**Production
Power Saws**

DoALL

C-410



The automatic 16" capacity Power Saw that can outcut other saws up to 30%!

When it comes to production power sawing, nothing can match the American-made DoALL C-410 for high productivity and economy of operation. It offers more standard features than other 16" (410mm) capacity saws and outperforms them by as much as 30% in both cutting rates and tool life with guaranteed accuracies of $\pm .002$ " per inch (± 0.02 mm per cm) of workheight.

The C-410 Series includes automatic, manual and NC-controlled models that will provide the long

term reliability, low maintenance costs and high quality performance which have been synonymous with the DoALL trademark for over 50 years.

Standard 1½" saw band

The C-410 was designed with the rigidity and power to utilize a standard 1½" (38mm) saw band as opposed to the 1¼" (32mm) blade typical of many saws in this size class. This provides greater blade beam strength and larger gullet capacity which permits each individual tooth to remove more material . . . and that means a cutting rate that's as much as 30% higher in materials 8" or more in diameter.

More standard features

In addition to the larger blade, the C-410 comes with a long list of standard features, many of which are optional with other 16-inch (410mm) capacity saws. Standard features include variable vise pressure, hydraulic chip conveyer, multiple index, full-stroke hydraulic vise cylinders, idler wheel motion detector, electric door interlocks, and many others designed to provide maximum productivity in a convenient package.

NC Control expands versatility even further

- Simplifies job set-up
- Reduces operator involvement
- Increases productivity.

Model C-410NC incorporates NC control for automatically programming up to 20 cutting jobs in varying lengths and quantities from one piece of stock. It enhances productivity by eliminating need for operator attention in individual job set-ups and allows untended operation of the saw while running.

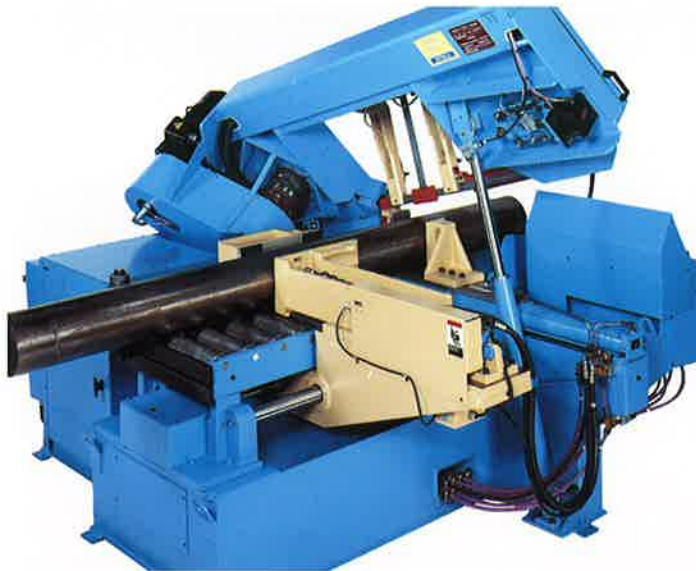
Pre-programmed jobs can be stored in memory for instant recall at a later date.

NC system also includes multiple indexing capacity with automatic kerf compensation, automatic crop cut and cut time monitor.



NC Control is conveniently located and features two line alpha/numeric-inch or millimeter display with prompting messages.

A uniquely designed power sawing package with more standard features



Telescoping outboard hydraulic cylinder provides 3 point head support to minimize vibration during sawing.



All control functions are conveniently located at the front of the machine, including hydraulic feed, digital index length readout, and band speed changes.



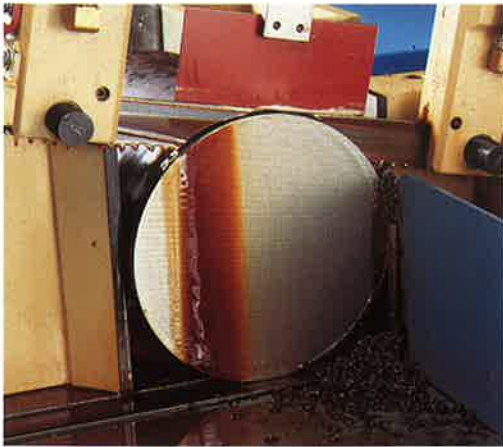
Chips are removed from the blade tooth gullets by a hydraulically driven, adjustable band brush and deposited into a powerful screw auger conveyor.



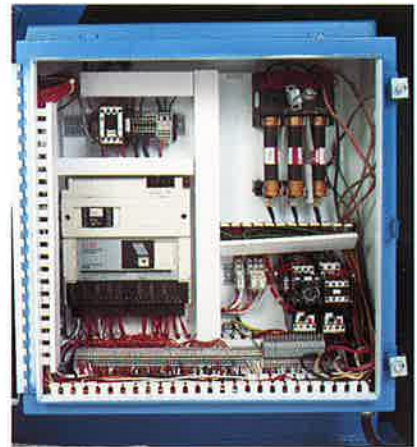
Full-stroke hydraulic cylinders for fixed and feed clamping vises save time and labor by eliminating ratchet adjustments.



Hydraulic cylinder is activated at operator control console to engage factory set band tension.



Coolant flows directly through carbide faced guides to deliver fluid evenly to both sides of the blade and into the cut.



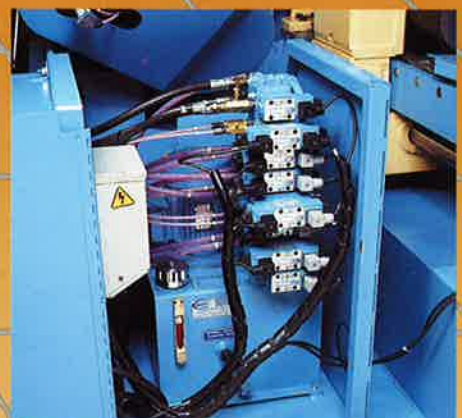
Electrical components are housed in an oil-tight enclosure and all wires are numbered for simple maintenance.



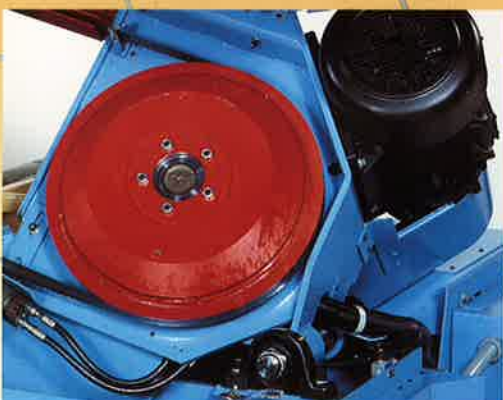
Automatic material feed is handled by a unique, space-saving underslung C section design. The heavy-duty roller conveyor is integrated with the saw frame, eliminating adjustments, simplifying installation, and reducing friction when cutting forged or crooked bars.



Optional hydraulic nesting fixture holds stacked work firmly for economical sawing of multiple workpieces.



Hydraulic pump, solenoids and fluid reservoir are conveniently located and easily accessible.



The bandwheel drive is transmitted from the 7 1/2 HP (5.55kw) electric motor through a variable speed sheave assembly to an energy efficient two stage planetary reduction gear box.



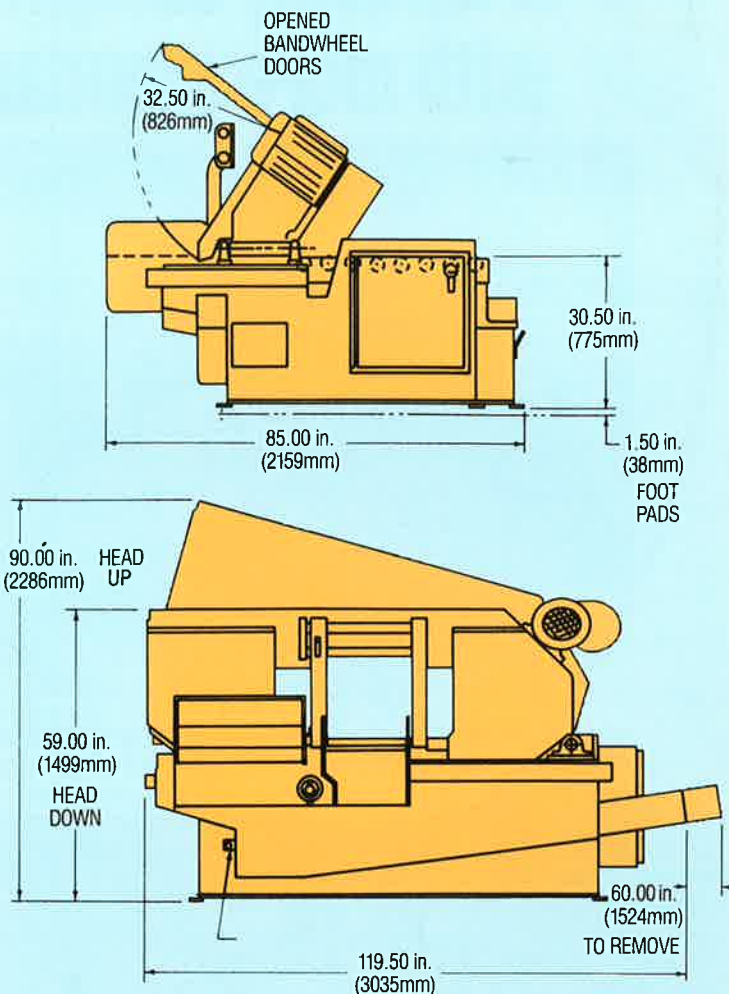
Standard variable vise pressure feature permits handling of tubing or other hollow, thin wall materials without danger of crushing or distortion.

C-410 Series Specifications

Floor Plan and Overall Dimensions

	C-410A	C-410NC	C-410M
Cutting Capacity			
Round	16" (410mm)	16" (410mm)	16" (410mm)
Square	14" (356mm)	14" (356mm)	14" (356mm)
Rectangular	12" x 16" (305 x 410mm)	12" x 16" (305 x 410mm)	12" x 16" (305 x 410mm)
Recommend smallest diameter	½" (12.7mm)	½" (12.7mm)	½" (12.7mm)
Automatic Index			
Single length	24" (610mm)	24" (610mm)	N/A
Multiple length	192" (4880mm)	192" (4880mm)	N/A
Shortest length	¼" (6mm)	¼" (6mm)	N/A
Minimum Butt End	6" (152mm)	6" (152mm)	N/A
NC Control			
Program capacity	N/A	20 jobs	N/A
Display	N/A	Alpha/numeric	N/A
Band Saw Blade	1½" x 186" (38 x 4572mm)	1½" x 186" (38 x 4572mm)	1½" x 186" (38 x 4572mm)
Band Speed (50 Hz or 60 Hz)	Infinitely Variable 60 to 350 fpm (17 to 107 mpm)	Infinitely Variable 60 to 350 fpm (17 to 107 mpm)	Infinitely Variable 60 to 350 fpm (17 to 107 mpm)
Band Tension	Factory set 30,000 psi (207 MPa)	Factory set 30,000 psi (207 MPa)	Factory set 30,000 psi (207 MPa)
Band Wheel Diameter	21" (533mm) Ductile Iron	21" (533mm) Ductile Iron	21" (533mm) Ductile Iron
Electric Motors			
Band Drive	7.5 HP (5.55kw)	7.5 HP (5.55kw)	7.5 HP (5.55kw)
Hydraulic System	2 HP (1.5kw)	2 HP (1.5kw)	2 HP (1.5kw)
Coolant Pump	½ HP (.37kw)	½ HP (.37kw)	½ HP (.37kw)
Hydraulic Tank Capacity	10 gal. (37.9 ltr)	10 gal. (37.9 ltr)	10 gal. (37.9 ltr)
Material Pass Line Height	30½" (765mm)	30½" (765mm)	30½" (765mm)
Machine Weight	6200 lbs. (2812kg)	6200 lbs. (2812kg)	5700 lbs. (2585kg)

All specifications and designs are subject to change without notice or obligation.



Standard Equipment — Automatic & NC Models

- Automatic band kerf compensator
- Variable vise pressure control
- Electric band door interlocks
- Idler wheel motion detector
- Work light
- Out of stock sensor
- Multiple index
- Rapid travel index vise control
- Automatic work height sensor
- Saw head rapid approach control
- Pre-set cut counter
- Power driven band cleaning brush
- Automatic chip conveyor
- Carbide faced saw guides
- Integral coolant system
- Random cut positioning
- Adjustable vertical guide roller

Optional Accessories

- Nesting fixtures for multiple cut-off
- Metric digital readout
- Gravity roller conveyors

Improve the productivity of any saw with DoALL blade and cutting fluids

No matter what material you are cutting, there's a DoALL Band Saw Blade to increase your productivity and lower your tool cost. And, with synthetic, soluble oil and straight oil cutting fluids available from DoALL we can also recommend the right fluid for all of your sawing needs.



DoALL Company
Des Plaines, IL 60016