



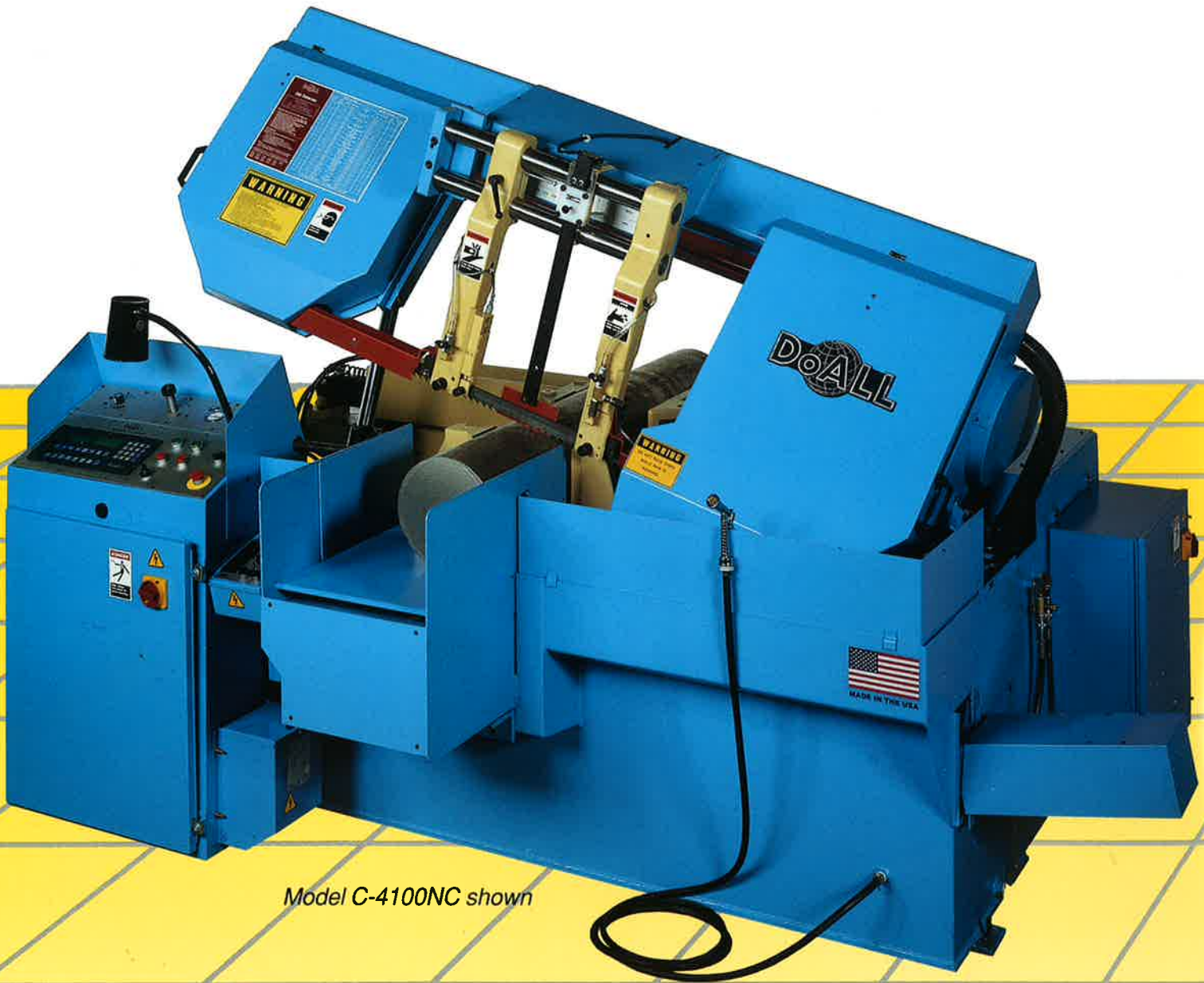
...The Productivity People

C-4100 Series



**Heavy Duty
Production Power Saws**

DoALL C-4100



Model C-4100NC shown

Designed for production sawing at rates up to 30% higher than other 16" capacity saws

The DoALL C-4100 Series Power Saws have everything you are looking for in an American-made saw . . . and more!

- Uses 1-1/2" wide hss or tungsten carbide saw blades
- Offers big 14" x 16" workpiece capacity
- Features powerful 10 hp band drive

These production cut-off saws are available in both the automatic C-4100A model and numerically controlled C-4100NC model and provide unmatched productivity and operating economy, plus deliver exceptionally high torque at low speeds.

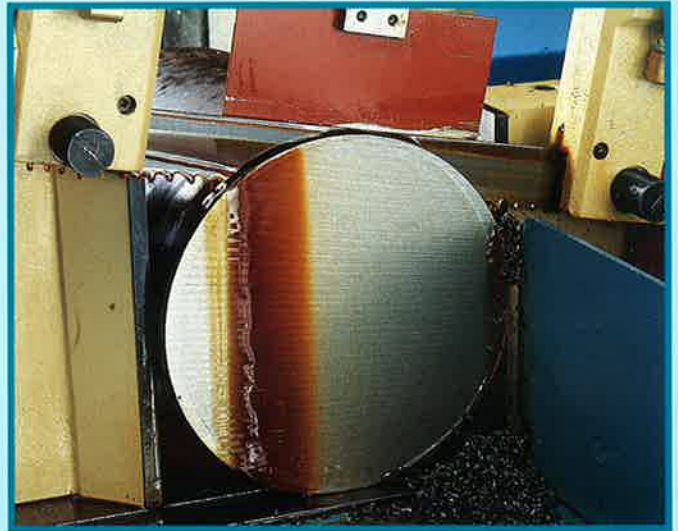
The wider saw blade – most other saws in this size class offer only 1-1/4" blade – provides both greater blade beam strength and larger blade tooth gullet capacity. This permits each tooth to remove more material – up to 30% more in materials 8" or more in diameter! And blade tool

NC Control expands versatility, provides unattended operation

Model C-4100NC is numerically controlled for programming up to 20 jobs in varying lengths and quantities from a single piece of stock. 99 job memory is available as an option.

The control provides for unattended operation of the saw by eliminating need for operator attention in individual job set-ups. Jobs can be stored in memory for instant recall as needed.

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



life is also increased as much as 30%! Couple this with the ability to effectively use either high speed steel bi-metal or tungsten carbide saw blades and you have a machine that can cut virtually any material at production rates.

Yet, these increases in cutting rates are attainable with no sacrifice in DoALL's guaranteed accuracy of ± 0.002 " per inch (± 0.02 mm per cm) of workheight.

A long list of standard features greatly enhances the versatility of the DoALL C-4100 Series Power Saws. These include variable vise pressure, hydraulic chip conveyor, full-stroke hydraulic vise cylinders, multiple index, idler wheel motion detector, electric door interlocks, hydraulically driven band chip brush, 10 hp band drive motor, centralized operating controls and many more – all designed for your satisfaction by providing maximum productivity with operating economy.



Conveniently located NC control features two line alphanumeric display with prompting messages. Units may be shown in inches or millimeters.

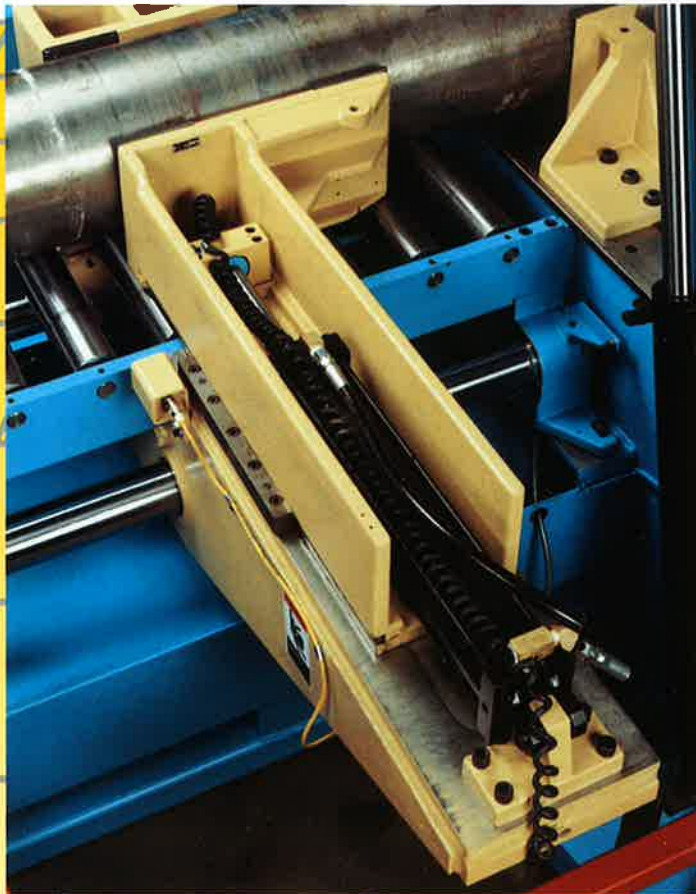
A complete American-made sawing package more standard features — not extra-cost op



Outboard hydraulic cylinder provides wide stance 3-point head support to minimize vibration during sawing.



Simple, powerful bandwheel drive consists of a 10 hp (7.5 kw) electric motor coupled to an energy efficient worm gear box.



Full stroke hydraulic cylinders on both fixed and index vises completely eliminate ratchet adjustments. Index vise is mounted on underslung carriage while material is supported by an idler conveyor to assure smooth automatic material feed and unparallel cut-off repeatability. A pivoting feature of the carriage makes it possible to accurately index heavily scaled or crooked stock.

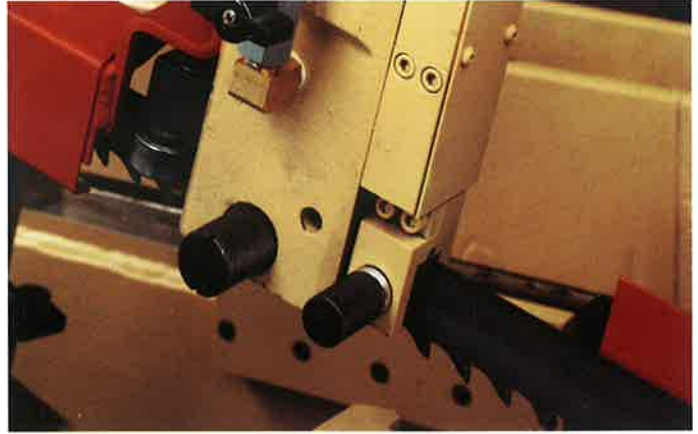


The speed of the motor is controlled by an A.C. inverter to provide infinitely variable band speeds from 40 to 360 fpm (12-110 m/min.) The design assures long life reliability with a minimum of moving parts.

ge loaded with options!



Band tension is factory set to 30,000 psi (207 MPa) for maximum blade stiffness. Hydraulic cylinder acting as idler wheel slide assembly is controlled by operator. Machine stops automatically if band breaks.



Band lead-in roller guides on both guide arms reduce fatigue for maximum blade life. Coolant flows directly through spring-loaded, zero-clearance, carbide-faced saw guides to deliver fluid evenly to both sides of the blade and into the cut. (Optional band twist monitor sensor shown.)



Variable pressure adjustment of both fixed and index vises permits the automatic sawing of tubing and other hollow, thin-wall materials without crushing or distortion.



Chips are removed from blade tooth gullets by hydraulically driven, adjustable band brush and deposited into powerful screw-type auger conveyor for disposal.



Ten-gallon (37 liter) hydraulic system with 6 gpm (23 lpm) energy efficient, pressure-compensated pump is located at rear of machine. Single manifold includes all solenoids for easy maintenance.



Band twist monitor (optional) constantly checks squareness of cut and automatically shuts band off if operator-set tolerances are exceeded.



Nesting fixture (optional) holds stacked workpieces firmly for economical sawing of multiple pieces.



Electrical components are housed in oil-tight enclosure directly below operator's station. All wires are numbered for easy maintenance.

C-4100 Series Specifications

	C-4100A	C-4100NC
Cutting Capacity		
Round	16" (410mm)	16" (410mm)
Square	14" (356mm)	14" (356mm)
Rectangular	14" x 16" (356 x 410mm)	14" x 16" (356 x 410mm)
Recommended Smallest Diameter	1/2" (12.7mm)	1/2" (12.7mm)
Automatic Index		
Single Length	24" (610mm)	24" (610mm)
Multiple Length	192" (4880mm)	999" (25375mm)
Shortest Length	1/4" (6mm)	1/4" (6mm)
Minimum Butt End	6" (152mm)	6" (152mm)
NC Control		
Program Capacity	N/A	20 jobs
Display	N/A	Alphanumeric
Band Saw Blade	1-1/2" x 186" (38 x 4724mm)	1-1/2" x 186" (38 x 4724mm)
Band Speed, 60 Hz	Infinitely Variable 40 to 360 fpm (12-110 mpm)	Infinitely Variable 40 to 360 fpm (12-110 mpm)
Band Tension	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
Electric Motors		
Band Drive	10 hp (7.5 kw)	10 hp (7.5 kw)
Hydraulic System	2 hp (1.5 kw)	2 hp (1.5 kw)
Coolant Pump	1/15 hp (.37 kw)	1/15 hp (.37 kw)
Hydraulic Tank Capacity	10 gal (37 ltr)	10 gal (37 ltr)
Coolant Tank Capacity	20 gal (76 ltr)	20 gal (76 ltr)
Material Pass Line Height	30-1/2" (775mm)	30-1/2" (775mm)
Machine Weight	6800 lbs. (3084 kg)	6800 lbs. (3084 kg)

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

Standard Equipment

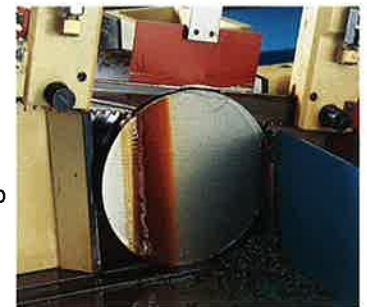
- Spring-loaded, zero clearance, carbide faced saw guides with lead in roller on both guide arms
- Powered chip conveyor
- Minimum bar end vise
- Integral coolant system
- Floating index vise carriage
- Powered band brush
- Flushing hose
- Saw head rapid approach control
- Automatic workheight sensor
- Preset cut counter
- Multiple index
- Adjustable vertical guide roller
- Idler wheel motion detector
- Random cut positioning
- Band door interlocks
- Variable vise pressure control
- Automatic band kerf compensator
- Rapid travel index vise control
- Out of stock sensor
- Worklight
- 2 year warranty

Optional Accessories

- Band twist monitor
- Nesting fixture
- Metric digital index length readout
- 99 job options (C-4100NC only)
- Extra 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.



Financing and Leasing

Inquire about DoALL's attractive financing and leasing plans which may meet your individual financial needs.



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