



The First Name in Sawing

JUL - 1 1998

Power Saws



**Production Power Saws
C-305, C-3300, C-4100 Series**



American-made sawing systems match your production needs

Manual, Automatic or NC controlled, DoALL Power Saws deliver the cutting rates and accuracies you need to keep your sawing operation running smoothly and profitably. They're simple to use, easy to maintain and provide dependable service day in and day out.

DoALL saws are designed and built to provide increased rigidity and reduced vibration. This results in higher cutting rates, superior surface finish, and longer tool life. Plus, they offer more standard features than most other saws in their class.

For the best overall value in production sawing, contact DoALL – the **First** name in sawing for over 60 years.



Unique design increases versatility

A heavy-duty roller conveyor is integrated into the saw frame, facilitating stock indexing. Material feed on Automatic and NC models is handled by a unique underslung carriage that reduces friction and assures smooth indexing with unparalleled cut-off accuracy. A pivoting feature of the carriage permits accurate indexing of heavily scaled or crooked stock. Full stroke hydraulic cylinders on both fixed and index vises eliminate ratchet adjustments and reduce set-up time.

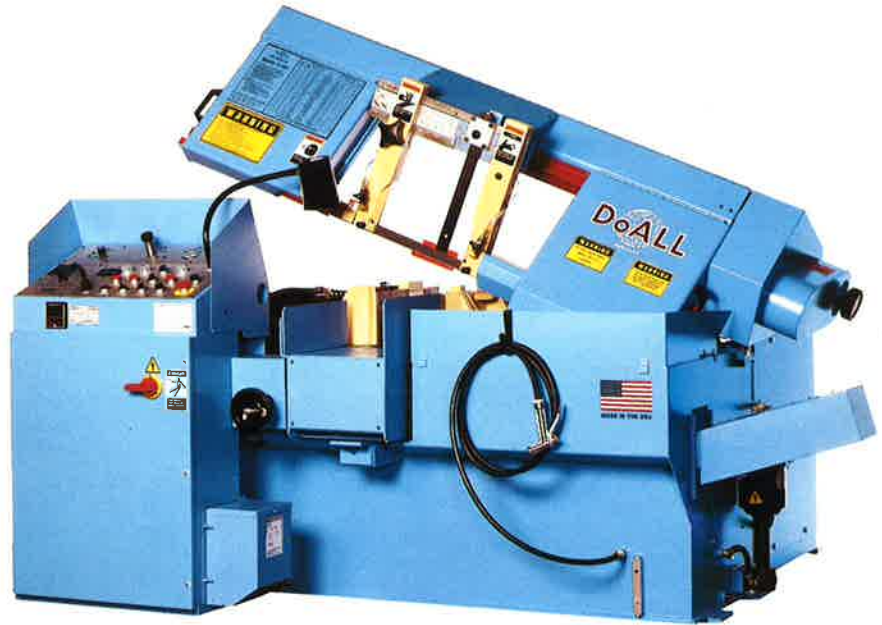


C-305A shown

C-305 SERIES

- 12" (305mm) round or square cutting capacity
- 5 hp (3.7kw) band drive
- Infinitely variable band speeds from 60 to 350 fpm (18 to 105 mpm) controlled by a variable speed sheave assembly
- 1-1/4" x 144" (34 x 3660mm) band saw blade
- 16" (405mm) single automatic index length
- Manual, Automatic or NC controlled models available

These resilient saws are designed for production sawing on a wide range of materials and feature solid, heavy-duty construction throughout. In fact, they outweigh other similar capacity saws by as much as 75%. This provides more rigidity and reduces vibration for higher cutting rates, exceptional accuracy, superior surface finish and increased tool life. It also greatly reduces the noise level inherent in many sawing operations.



C-305A shown



Standard band lead-in roller guides reduce band 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.)



Fully adjustable powered band brush removes chips from blade tooth gullets and deposits them into a powerful screw-type auger conveyor for disposal. (C-3300NC shown)



Gear driven transmission features precision machined gears running in an oil bath inside a cast iron housing. The heavy-duty cross shaft turns massive bronze bull gears and a 4150 drive shaft to deliver power directly to the cast iron band wheel.



C-3300 SERIES

- 13" (330mm) round or square cutting capacity
- 5 hp (3.7kw) band drive
- Infinitely variable band speeds from 40 to 360 fpm (12 to 110 mpm) controlled by an AC inverter
- 1-1/4" x 161" (34 x 4080mm) band saw blade
- 24" (610mm) single automatic index length
- Available in NC controlled model only

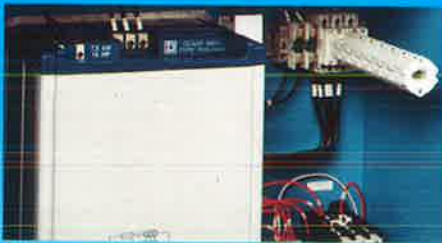


C-3300 NC shown

Here's the ideal machine for shops and service centers needing close tolerance production quantities of cut pipe, structurals and solids up to 13" (330mm) in diameter.

The unique split front vise holds workpieces on both sides of the blade for better control and minimum burr and the index vise pivots to compensate for scaly or crooked stock.

Other features include an AC inverter to control the 5hp band drive motor and an idler wheel motion detector that stops the band drive automatically if the band stalls or breaks during a cut. In addition, band door interlocks stop the machine if the band wheel doors are opened while the machine is running.



An AC inverter controls band drive motor to smoothly change band speeds and prevent abrupt acceleration during start up. Band speeds are programmed by operator at control panel. (C-3300, C-4100)



Unique split front vise jaws hold workpiece on both sides of the saw blade during the cut for better control and minimum burr. (C-3300, C-4100)



Conveniently positioned NC control has alpha/numeric display to program up to 99 different jobs on C-3300 NC and C-4100 NC (C-305 NC is programmable for 20 jobs, 99 optional).

C-4100 SERIES

- 16" (410mm) round cutting capacity
- 14" (356mm) square cutting capacity
- 14" high x 16" wide (356 x 410mm) rectangular cutting capacity
- 10 hp (7.5 kw) band drive
- Manual, Automatic, NC or CNC controlled models available
- Infinitely variable band speeds from 40 to 360 fpm (12 to 110 mpm) controlled by AC inverter
- 1-1/2" x 186" (41 x 4570mm) band saw blade
- 24" (610mm) single automatic index length
- Automatic positioning of powered saw guide arm (CNC Only)

These saws provide exceptionally high torque at low speeds for unmatched productivity and operating economy.

They use a wider, 1-1/2" (41mm) saw blade that provides both greater beam strength and larger tooth gullet capacity than the 1-1/4" (34mm) blade used on most other saws in this size class. This permits each tooth to remove up to 30% more material and extend tool life. Coupled with the ability to use either bi-metal or tungsten carbide saw blades, these machines can cut virtually any material at production rates.

The C-4100 CNC features a GE Fanuc touch station control incorporating DoALL's Sawsing Database which maximizes machine efficiency by recommending optimal saw band type, bandspeed, and cutting rates. It eliminates costly setup mistakes by taking the guesswork out of sawing parameters.



C-4100 CNC shown



Variable pressure adjustment of both fixed and index vises is standard on C-3300 and C-4100 Series (C-305 series optional). This permits the sawing of tubing and other hollow, thin-wall materials without crushing or distorting.



Band tension on all power saws is factory set to 30,000psi (207MPa) for maximum blade stiffness. A hydraulic cylinder tensions the idler wheel slide assembly. Machine stops automatically if band breaks.



Standard 10 gallon (38 l) 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.

SPECIFICATIONS

	C-305M	C-305A	C-305NC	C-3300NC	C-4100M	C-4100A
Cutting Capacity						
Round	12" (305mm)	12" (305mm)	12" (305mm)	13" (330mm)	16" (410mm)	16" (410mm)
Square	12" (305mm)	12" (305mm)	12" (305mm)	13" (330mm)	14" (356mm)	14" (356mm)
Rectangular	12"H x 12"W (305 x 305mm)	12"H x 12"W (305 x 305mm)	12"H x 12"W (305 x 305mm)	13"H x 13"W (330 x 330mm)	14"H x 16"W (356 x 410mm)	14"H x 16"W (356 x 410mm)
Recommended Smallest Diameter	1/2" (13mm)	1/2" (13mm)	1/2" (13mm)	1/2" (13mm)	1/2" (13mm)	1/2" (13mm)
Automatic Index						
Single Length	—	16" (405mm)	16" (405mm)	24" (610mm)	—	24" (610mm)
Multiple Length	—	128" (3250mm)	999" (25,375mm)	999" (25,375mm)	—	192" (4880mm)
Min. Index Length	—	1/4" (6mm)	1/4" (6mm)	1/4" (6mm)	—	1/4" (6mm)
Min. Butt End	—	5" (130mm)	5" (130mm)	2 1/2" (65mm)	—	3 3/8" (75mm)
Numeric Control: Program Capacity Display	—	—	20 jobs Alpha / Numeric	99 job Alpha / Numeric	—	—
Band Saw Blade	1 1/4" x 144" (34 x 3660mm)	1 1/4" x 144" (34 x 3660mm)	1 1/4" x 144" (34 x 3660mm)	1 1/4" x 161" (34 x 4080mm)	1 1/2" x 186" (41 x 4725mm)	1 1/2" x 186" (41 x 4725mm)
Band Speed (Inf. Variable)	60-350 fpm (18-105 mpm)	60-350 fpm (18-105 mpm)	60-350 fpm (18-105 mpm)	40-360 fpm (12-110 mpm)	40-360 fpm (12-110 mpm)	40-360 fpm (12-110 mpm)
Band Tension	Factory Set 30,000 psi (207 mpa)	Factory Set 30,000 psi (207 mpa)	Factory Set 30,000 psi (207 mpa)	Factory Set 30,000 psi (207 mpa)	Factory Set 30,000 psi (207 mpa)	Factory Set 30,000 psi (207 mpa)
Band Wheel Diameter	15" (380mm)	15" (380mm)	15" (380mm)	18" (460mm)	21" (535mm)	21" (535mm)
Electric Motor Band Drive Hydr. System Coolant Pump	5hp (3.7kw) 2hp (1.5kw) 1/10hp (.075kw)	5hp (3.7kw) 2hp (1.5kw) 1/10hp (.075kw)	5hp (3.7kw) 2hp (1.5kw) 1/10hp (.075kw)	5hp (3.75kw) 2hp (1.5kw) 1/10hp (.075kw)	10hp (7.5kw) 2hp (1.5kw) 1/10hp (.075kw)	10hp (7.5kw) 2hp (1.5kw) 1/10hp (.075kw)
Hydraulic Tank Capacity	10 gal (38 l)	10 gal (38 l)	10 gal (38 l)	10 gal (38 l)	10 gal (38 l)	10 gal (38 l)
Coolant Tank Capacity	20 gal (76 l)	20 gal (76 l)	20 gal (76 l)	20 gal (76 l)	20 gal (76 l)	20 gal (76 l)
Material Pass Line Height	30.5" (775mm)	30.5" (775mm)	30.5" (775mm)	30.5" (775mm)	30.5" (775mm)	30.5" (775mm)
Machine Weight	3,800 lbs (1,760kg)	4,200 lbs (1,905kg)	4,200 lbs (1,905kg)	4,450 lbs (2,020kg)	6,250 lbs (2,835kg)	6,800 lbs (3,085kg)

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



Lower your cost per cut with an integrated sawing system

DoALL material handling systems are custom designed and integrated with DoALL power saws for added sawing efficiency. The innovative designs reduce costs and improve productivity with faster material flow. You get single source responsibility in a sawing system that is designed and built to your specific needs.

STANDARD & OPTIONAL FEATURES

C-4100NC	C-4100CNC
16" (410mm) 14" (356mm) 14"H x 16"W (356 x 410mm)	16" (410mm) 14" (356mm) 14"H x 16"W (356 x 410mm)
1/2" (13mm)	1/2" (13mm)
24" (610mm) 999" (25,375mm) 1/4" (6mm) 3 3/8" (85mm)	24" (610mm) 999" (25,375mm) 1/4" (6mm) 3 3/8" (85mm)
99 jobs Alpha / Numeric	9,999 + jobs Color Touch Screen
1 1/2" x 186" (41 x 4,725mm)	1 1/2" x 186" (41 x 4,725mm)
40-360 fpm (12-110 mpm)	40-360 fpm (12-110 mpm)
Factory Set 30,000 psi (207 mpa)	Factory Set 30,000 psi (207 mpa)
21" (535mm)	21" (535mm)
10hp (7.5kw) 2hp (1.5kw) 1/10hp (.075kw)	10hp (7.5kw) 2hp (1.5kw) 1/10hp (.075kw)
10 gal (38 l)	10 gal (38 l)
20 gal (76 l)	20 gal (76 l)
30.5" (775mm)	30.5" (775mm)
6,800 lbs (3,085Kg)	7,000 lbs (3,175Kg)

	C-305M	C-305A	C-305NC	C-3300NC	C-4100M	C-4100A	C-4100NC	C-4100CNC
Coolant Applied Thru Saw Guides	X	X	X	X	X	X	X	X
Powered Chip Conveyor	X	X	X	X	X	X	X	X
Powered Band Brush	X	X	X	X	X	X	X	X
Flushing Hose	X	X	X	X	X	X	X	X
Discharge Tray	X	X	X	X	X	X	X	X
Rapid Approach Control	X	X	X	X	X	X	X	X
Work Height Sensor	X	X	X	X	X	X	X	X
Work Light (except CE models)	X	X	X	X	X	X	X	X
Band Door Interlocks	X	X	X	X	X	X	X	X
Idler Wheel Motion Detector	O	X	X	X	O	X	X	X
Job Selector	X	X	X	X	X	X	X	X
Spring-Loaded, Zero Clearance, Carbide-Faced Saw Guide	X	X	X	X	X	X	X	X
Guide Arm Lead-In Roller	X	X	X	X	X	X	X	X
Sawing Database Software								X
Touch Station Control Automatic Machine Setup								X
Programmable Saw Head Feed Rate/Cut Control								X
Automatic Positioning of Powered Guide Arm								X
Preset Cut Counter		X	X	X		X	X	X
Rapid Travel Index Vise Control		X	X	X		X	X	X
Out Of Stock Sensor		X	X	X		X	X	X
Multiple Index		X	X	X		X	X	X
Random Cut Positioning		X	X	X		X	X	X
Automatic Kerf Compensation		X	X	X		X	X	X
Band Break Switch	X	X	X	X	X	X	X	X
Minimum Bar End Vise				X	X	X	X	X
Variable Vise Pressure Control	O	O	O	X	X	X	X	X
Band Speed Control At Operator Panel				X	X	X	X	X
Band Speed Control Hand Wheel	X	X	X					
Floating Index Vise		X	X	X		X	X	X
Electric Cut Time Monitor			X	X			X	X
Programmable Cut Length With Digital Readout			X	X			X	X
Easy Set Stock Index With Digital Readout		X	X	X		X	X	X
Nesting Fixture	O	O	O	O	O	O	O	O
Band Twist Monitor	O	O	O	O	O	O	O	O
Metric/English Index Length Setting Mechanism		O	X	X		O	X	X
Digital Band Speed Readout	O	O	O	X	X	X	X	X
99 Job Programmable			O	X		X	X	X
5' Index Attachment			O	O			O	O

X = Standard O = Optional



...The First Name in Sawing

MANUFACTURING

Since 1933, when founder Leighton A. Wilke invented the metal cutting band saw, DoALL Company has introduced many innovative sawing products, including the

first power saw and first bi-metal saw blade. Today, DoALL continues to manufacture the widest range of sawing products available from a single source.



U.S. Manufacturing Facilities

DISTRIBUTION

DoALL Industrial Supply Centers are conveniently located in over 70 major metropolitan areas in the United States, Canada, and Mexico, and throughout Europe and Australia. We're also represented by factory-trained distributors in additional locations in the Far East, South Central Asia, Africa, and Central and South America.



DoALL Industrial Supply Centers are conveniently located to serve you

SERVICE

Local service is our specialty. We operate Saw Blade Weld Centers for fast delivery of welded lengths. Plus, North American Industrial Supply Center locations are staffed with factory-trained

service and repair technicians to keep your machines running profitably. We carry a large inventory of saw blades, cutting fluids and related industrial supplies. DoALL - your one stop source.



DoALL Weld Centers produce custom welded band saw blades



Factory-trained service and repair technicians keep your saws in top running condition



Huge inventories of saw blades, cutting tools and fluids are available for immediate delivery

TECHNICAL SUPPORT

DoALL Specialists will review your sawing requirements and make specific recommendations based on DoALL's exclusive Sawing Database.

We will make sure your machine is running properly, and we'll train your operators to achieve maximum productivity at the lowest possible cost.



DoALL's Sawing Database provides information on optimal sawing productivity



DoALL Sawing Specialists will recommend ways to improve your sawing operation



DoALL Training Programs include hands-on operator training and sawing seminars

The only U.S. manufacturer of the 3 main elements of bandsawing - machine, blade and coolant - with value-added services second to none.

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Continuous improvement of products is a DoALL policy. All specifications and designs are subject to change without notice or obligation.

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