HEM® SAW

The saw that cuts straight.

H160LM-DC

Dual Column, Heavy-Duty, Metal-Cutting Production Band Saw

Capacity: 30” W x 25″ H • Blade: 2″ x 23’0″ x .063″ • Motor: 20 HP • Hydraulics: 5 HP

HE&M Saw Made in the U.S.A. Since 1964

Swing-Away Control Console

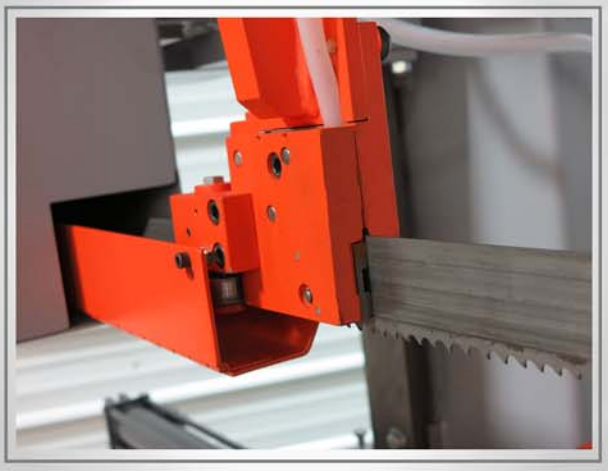
The Control Console is located on the front of the saw, in a swing-away console, for operator convenience.

24" Roller Discharge Table

A standard Roller Discharge Table provides easier handling after the cut. The table is 24" in length and is fully coolant panned.

Full Stroking Main Vise

A Full-Stroking Main Vise clamps material at the turn of a switch, and holds the material in place to ensure accurate cuts. The clamping pressure is easily adjusted to clamp various materials

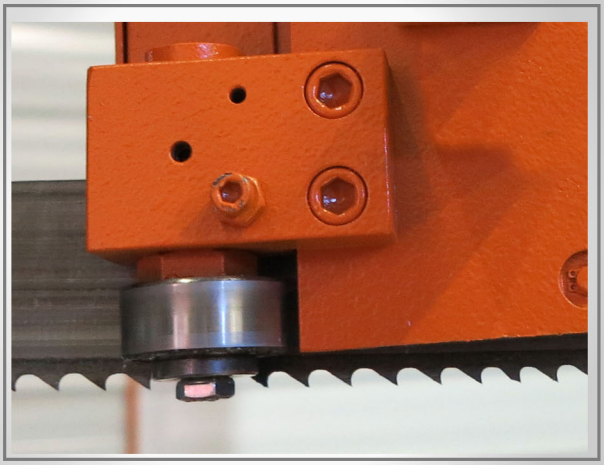


Carbide Blade Guides

The Blade Guide System incorporates side and back blade guides that utilize carbide inserts for long wear, stability and maximum blade support.

Lead In/Lead Out Roller Guides

In addition to precision-ground flat carbides, the H160LM-DC also uses roller guides which reduce vibration when cutting hard materials.



Blade Brush

A shaft-driven Blade Brush is standard for positive removal of metal chips that lodge in the blade gullets. This system ensures a cleaner blade, more accurate cuts, and prolonged blade life.

Cut Watcher® System

The patented Cut Watcher® system monitors the cut for squareness to a pre-set deviation value. The system shuts down the saw when the pre-set value is exceeded.

Push Button Blade Speed

Blade speed can be adjusted with an infinitely variable speed drive from the console with push button controls. The blade speed is shown on the console with LED Readout.

Powered Guide Arm

The Powered, Moveable Guide Arm provides optimum blade support as material size changes. It quickly adjusts the guides that hold the blade securely, providing straighter cuts and longer blade life.

Powered Blade Tension

The Powered Blade Tensioner maintains proper blade tension at all times during the cut, compensating for blade stretch. Changing blades on the saw is done in minutes, with the use of the Powered Blade Tensioner.

Adjustable Feed Rate & Cut Pressure

The saw arm Feed Rate can be adjusted from zero to 3 inches per second. Cutting pressure can be adjusted for effective metal removal rates.

Emergency Stop

The saw is equipped with a safety Emergency Stop cut-off switch. This allows the operator to closely monitor the cutting process and quickly stop it if needed.

Other Safety Features

The Lock Out - Tag Out is used to disable saw operation during maintenance.

The saw will automatically shut off if the blade breaks, shown by the Broken Blade Indicator.

The Panic Stop haults all automatic functions.

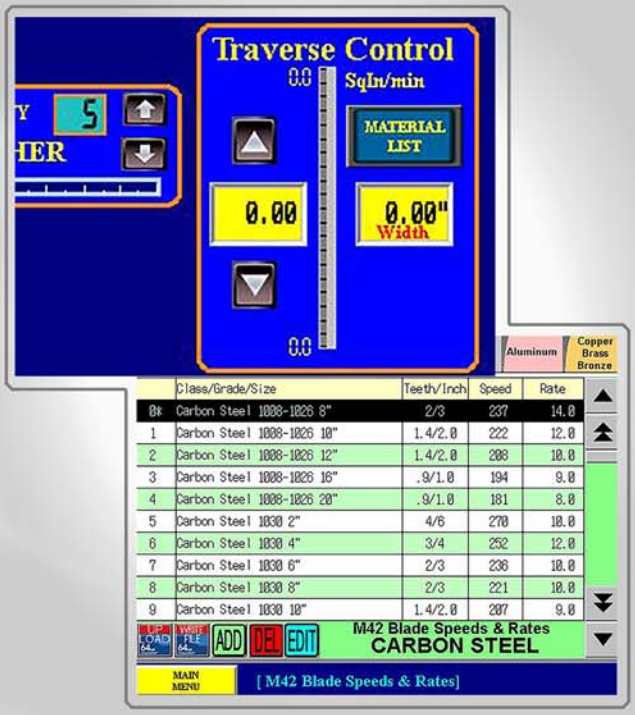
Built-In Flood Coolant System

The saw has a totally built-in coolant system with sealed coolant pump, with coolant that is dispensed through the guides on each side of the cut and a flex-tube nozzle to flood the center of the cut.

Optional Computer Controlled Traverse

The Optional Computer Controlled Traverse, or CCT, controls the feed rate and cutting force to maintain the optimum cutting rate.

With the CCT option, a Material List is provided with the touch screen. The list includes the recommended blade speeds, cutting rates and blade pitch for the type and size of material.



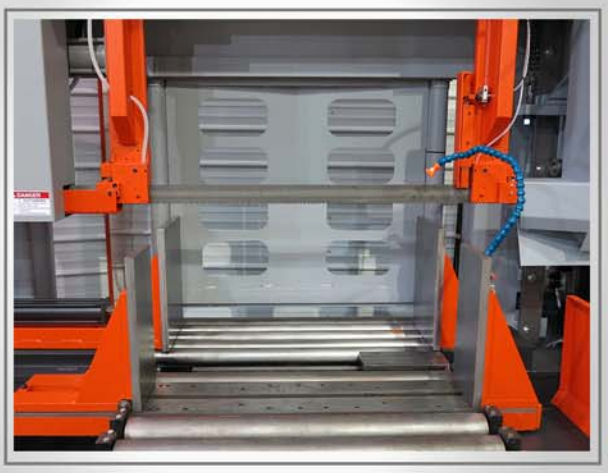
	Class/Grade/Size	Teeth/Inch	Speed	Rate
0*	Carbon Steel 1008-1026 8"	2/3	237	14.0
1	Carbon Steel 1008-1026 10"	1.4/2.0	222	12.0
2	Carbon Steel 1008-1026 12"	1.4/2.0	208	10.0
3	Carbon Steel 1008-1026 16"	.9/1.0	194	9.0
4	Carbon Steel 1008-1026 20"	.9/1.0	181	8.0
5	Carbon Steel 1030 2"	4/6	270	10.0
6	Carbon Steel 1030 4"	3/4	252	12.0
7	Carbon Steel 1030 6"	2/3	236	10.0
8	Carbon Steel 1030 8"	2/3	221	10.0
9	Carbon Steel 1030 10"	1.4/2.0	207	9.0

Optional 24" Solid Discharge Table

An Optional Solid Discharge Table in lieu of rollers. The table is 24" in length and is fully coolant panned.

Optional Top Clamp - Main Vise

A Full Capacity Top Clamp can be added to the main vise for vertical clamping of structural shapes and when entire “mill bundles” are to be cut.



Optional FC Top Clamp - Outboard Vise

A Full Capacity Top Clamp can be added to the outboard vise for vertical clamping of structural shapes and when entire “mill bundles” are to be cut.

Optional Chip Auger System

An Optional Chip Auger removes chips from the cutting area into an easy-to-empty container. Chips and coolant are automatically separated into two different containers.

Optional Shadow or Laser Light System

The Shadow Light uses a high intensity light that casts a shadow of the blade onto the material to be cut, indicating the exact spot where the blade will enter the material.

A Laser Light indicates either above or below where the blade will enter the material for the cut.

Optional Spray Mist Lubrication

The optional spray mist system lubricates the blade with a mist that is adjustable at a rate of 4 - 200 pulses per minute, pushing the mix of oil/air out of the delivery line to the nozzle.

Other Available Options: 2-5/8″ Blade Option – HD Gear Box, Pedestal Console. Discharge & Roller Stock Tables

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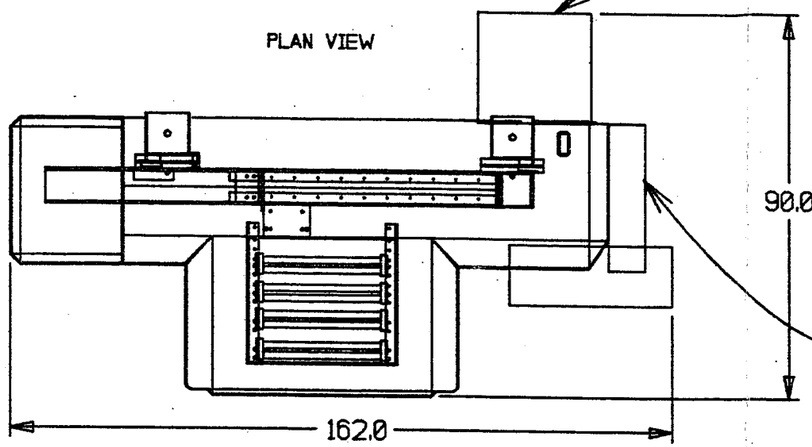
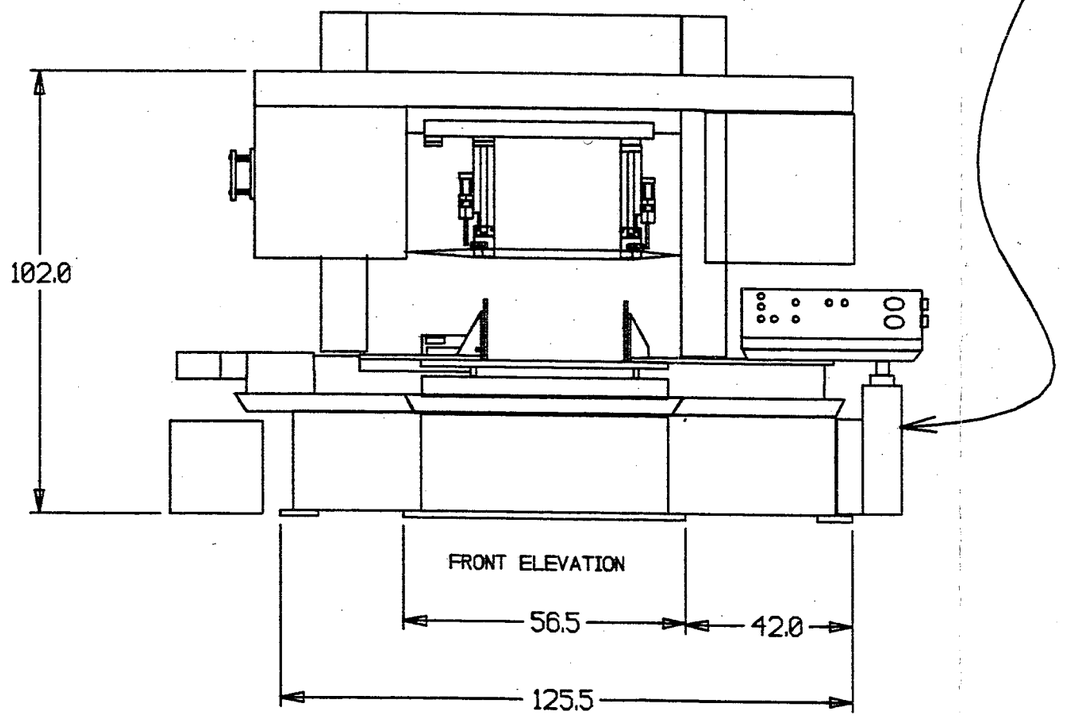
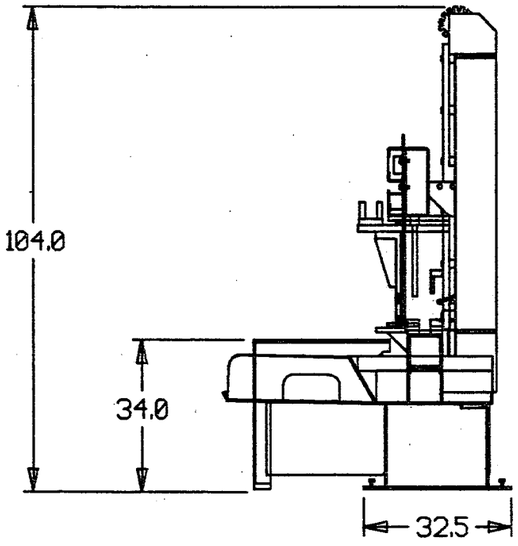
ALL DIMENSIONS +/- 1.00"

PLAN VIEW





FRONT ELEVATION



SIDE ELEVATION

HEM, INC.
MID-AMERICA INDUSTRIAL DISTRICT
P.O. BOX 1148 PRYOR, OK 74361

H0004499	SHEET 1 OF 1
PLAN VIEW H160LM-DC	
B-006516-168	A

HEM® SAW — The saw that cuts straight.

H160LA-DC-CTS

*Shown w/ Older Control Console

Dual Column, Heavy-Duty, Metal-Cutting Production Band Saw

Capacity: 30″ W x 25″ H • Blade: 2″ x 23’0″ x .063″
Motor: 20 HP • Hydraulics: 5 HP • 0-24" Stroke Hydraulic Cylinder (Multiple Index)

Swing-Away Control Console

The Control Console is located on the front of the saw, in a swing-away console, for operator convenience.

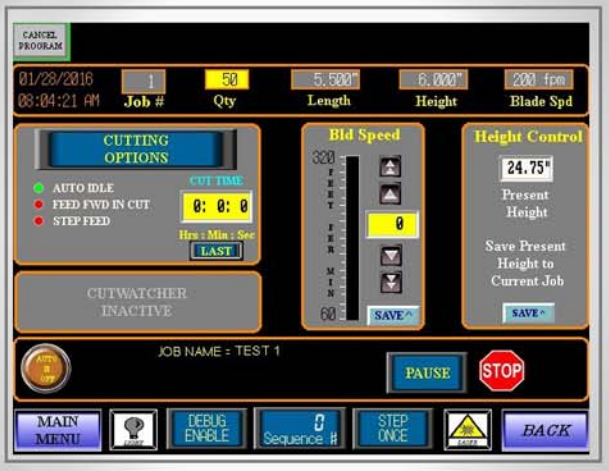
*Shown w/ Optional Features

Touch Screen Controls

The Touch Screen display provides easy-to-use menu navigation for programming and recalling automatic saved jobs, running a series of jobs, as well as manual functions and programming information required for each job. Other functions include memory storage for a job library, system information, diagnostics and saw operation parameters.

Auto Run

The Auto Run screen controls the Computer Controlled Feed system which makes programming and running a job in automatic easy. Any pre-saved job can be entered into the Auto Run, or the operator can program a job. The quantity, length, height, width, and blade speed are then entered and transferred to the Auto Run. The information can then be saved as a job, and can be operated on the saw at any time.

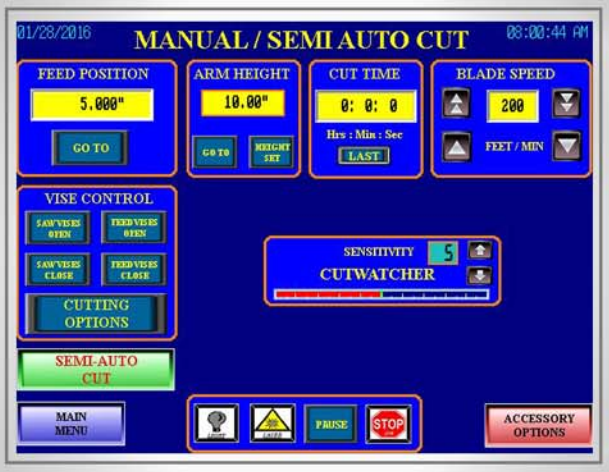


Program a Job

Jobs can be programmed into the touch screen then saved with a job number to run at any time. Up to 999 jobs can be saved. The part length, height, width, and quantity are entered for the cut, and then transferred to run automatically. Blade speed, blade type, and cutting options are also set before transferring to run automatically.

Program a Series

A series of cuts for certain parts can be programmed, to be cut from the same bar stock, by entering up to 12 jobs that will be run in a sequence. The sequence can be run up to 99 times by placing an amount into the “Reps” section. Up to 100 program series can be created and saved in the menu.

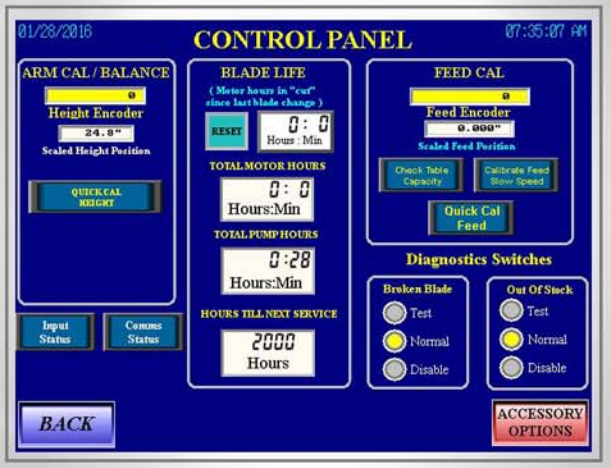


Manual Run

In Manual Run mode, the saw operator can make a single, semi-automatic cut without creating a program. The blade and various options can be controlled from this screen, or the console.

Control Panel

The control panel allows for quick I.O. and system operation to calibrate the encoders and help diagnose a possible problem with operation of the saw.

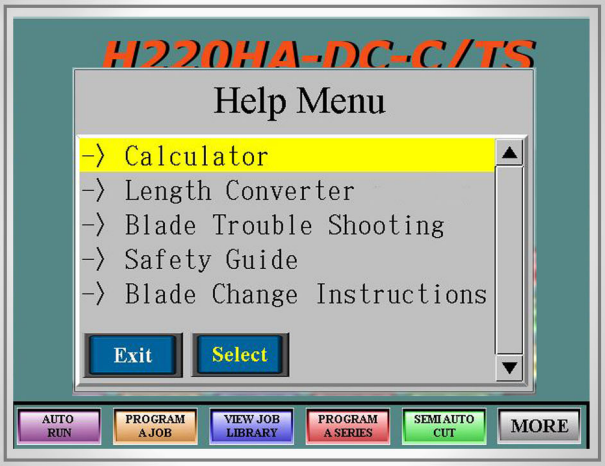


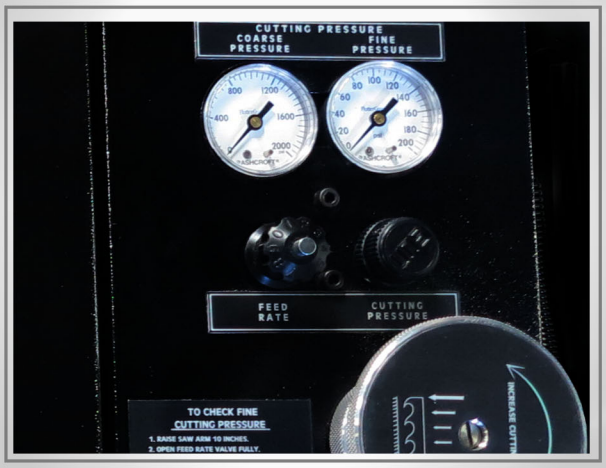
Cut Watcher® System

The patented Cut Watcher® system monitors the cut for squareness to a pre-set deviation value. The system shuts down the saw when the pre-set value is exceeded. This is a must for production cutting.

Help Files

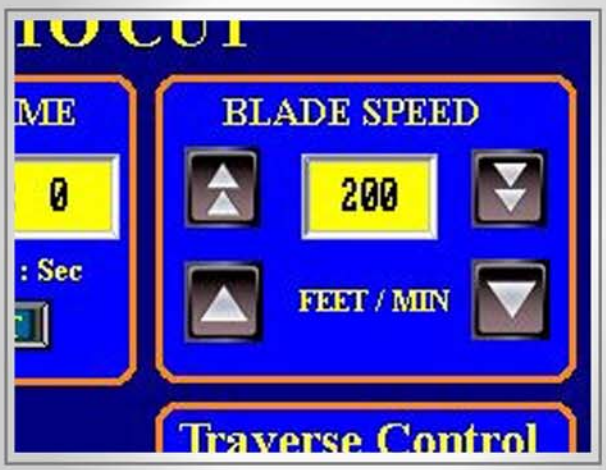
Help files are available to assist in operating the saw. These include: a blade symptom chart, length convertor, basic calculator, saw safety section, and blade change instructions.





Adjustable Feed Rate & Cut Pressure

The saw arm Feed Rate can be adjusted from zero to 3 inches per second. Cutting pressure can be adjusted for effective metal removal rates.



Adjustable Blade Speed

Blade speed can be adjusted with an infinitely variable speed drive, which allows the user to adjust blade speed's surface feet per minute which is set and adjusted from the Touch Screen.

24" Roller Discharge Table

A standard Roller Discharge Table provides easier handling after the cut. The table is 24" in length and is fully coolant panned.

0-24" Stroke Hydraulic Cylinder Bar-Feed (Multiple Index)

The Bar-Feed on the saw is comprised of an automatic floating (self-adjusting) shuttle vise feed system with a 0-24" feed stroke with multiple indexing for longer parts. This efficient system prevents binding of imperfect material. The Material Jogging feature allows the operator to inch the material forward.

Full-Stroking Main & Feed Vise

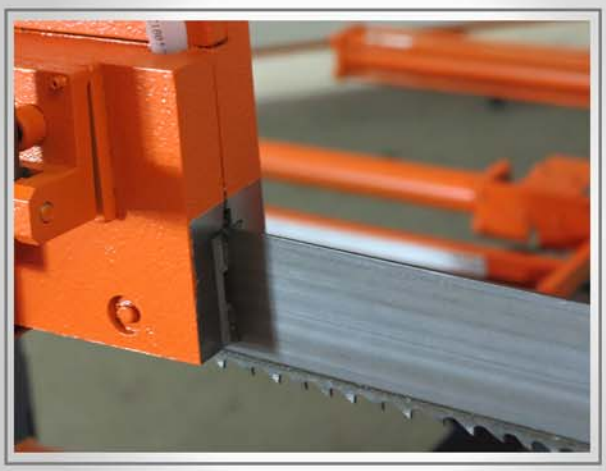
Full-Stroking Main & Feed Vise clamps material at the turn of a switch and holds the material in place to ensure accurate cuts. In automatic mode the vises open and close automatically. The clamping pressure is easily adjusted to clamp various materials

3rd Holding Vise on Feed

A 3rd holding vise works in conjunction with the main holding vise to assist in holding the material while it is being cut and also aids in aligning the material before it goes into the shuttle vise area.

Blade Brush

A shaft-driven Blade Brush is standard for positive removal of metal chips that lodge in the blade gullets. This system ensures a cleaner blade, more accurate cuts, and prolonged blade life.



Carbide Blade Guides

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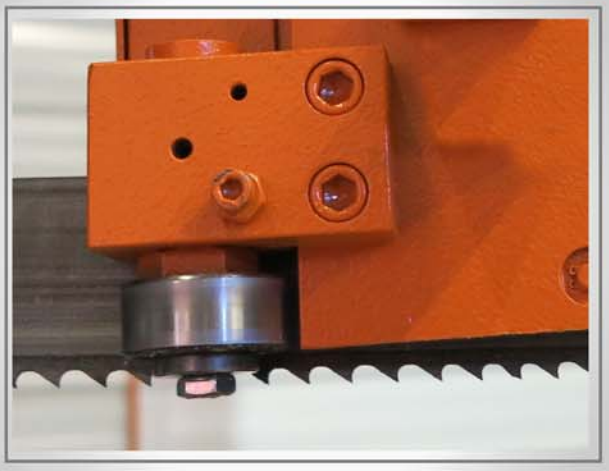
Lead In/Lead Out Roller Guides

In addition to precision-ground flat carbides, roller guides are also used which reduce vibration when cutting hard materials.



Powered Blade Tension

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Chip Auger System

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Powered Guide Arm

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Built-In Flood Coolant System

The saw has a totally built-in coolant system with sealed coolant pump, with coolant that is dispensed through the guides on each side of the cut.

Emergency Stop

The saw is equipped with a safety Emergency Stop cut-off switch. This allows the operator to closely monitor the cutting process and quickly stop it if needed.

Other Safety Features

The Safety Lockout Key is used to disable saw operation during maintenance.

The saw will automatically shut off if the blade breaks or is out of stock, shown by the Broken Blade or Out-of-Stock Indicators.

The Panic Stop haults all automatic functions.

Optional Computer Controlled Traverse

The Optional Computer Controlled Traverse, or CCT, controls the feed rate and cutting force to maintain the optimum cutting rate.

With the CCT option, a Material List is provided with the touch screen. The list includes the recommended blade speeds, cutting rates and blade pitch for the type and size of material. The data can then be transferred to a job and run automatically or manually.

Optional Spray Mist Lubrication

The optional spray mist system lubricates the blade with a mist that is adjustable at a rate of 4 - 200 pulses per minute, pushing the mix of oil/air out of the delivery line to the nozzle.

Optional FC Top Clamps - Main & Feed Vise

Full Capacity Top Clamps can be added to the Main and feed vise, or just the main vise for vertical clamping of structural shapes and when entire “mill bundles” are to be cut.

Optional FC Top Clamp - Outboard Vise

A Full Capacity Top Clamp can be added to the outboard vise for vertical clamping of structural shapes and when entire “mill bundles” are to be cut. *(Photo shown on manual saw)*

Optional Outboard Powered Vise

An Optional Outboard Vise on the Discharge helps with clamping of material.

Optional Interlocking Vise Jaws

With the optional Interlocking Vise Jaws, the feed vise wear plate is extended and interlocks into a modified main vise wear plate on the forward feed stroke. This helps to reduce the remnant length during the final cut of the material.

Optional 0-48" Stroke Servo Twin Ball-Screw Bar-Feed

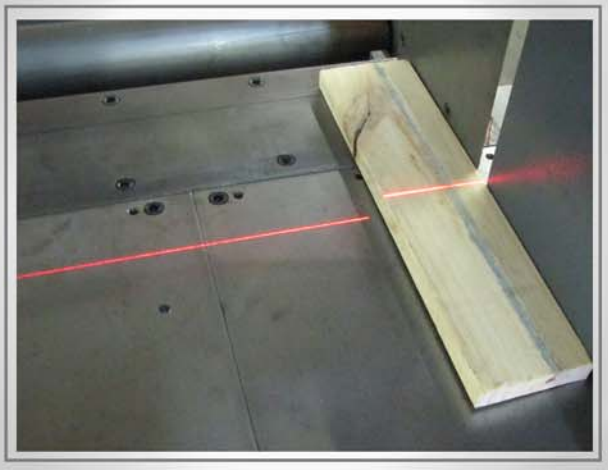
An Optional 0-48” Stroke Bar-Feed with Multiple Indexing is availabe.
(Photo shown with Optional Top Clamps)

Optional 24" Solid Discharge Table

An optional solid discharge table (in lieu of rollers) provides easier handling after the cut. The table is 24" in length and is fully coolant panned.

Optional Shadow Light System

A high intensity light that casts a shadow of the blade onto the material to be cut, indicating the exact spot where the blade will enter the material.



Optional Laser Light System

An Optional Laser Light indicates either above or below where the blade will enter the material for the cut.

Other Available Options:

Optional Consoles, 2-5/8″ Blade Option – HD Gear Box, Discharge & Roller Stock Tables

Band Saws • Material Handling • Metalworking Fluids
Custom Applications • Factory Service Department • Fast-Available Parts

Proudly Made in the U.S.A. for Over 50 Years

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Horizontal Miter

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Wide Flange

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The saw that cuts straight.

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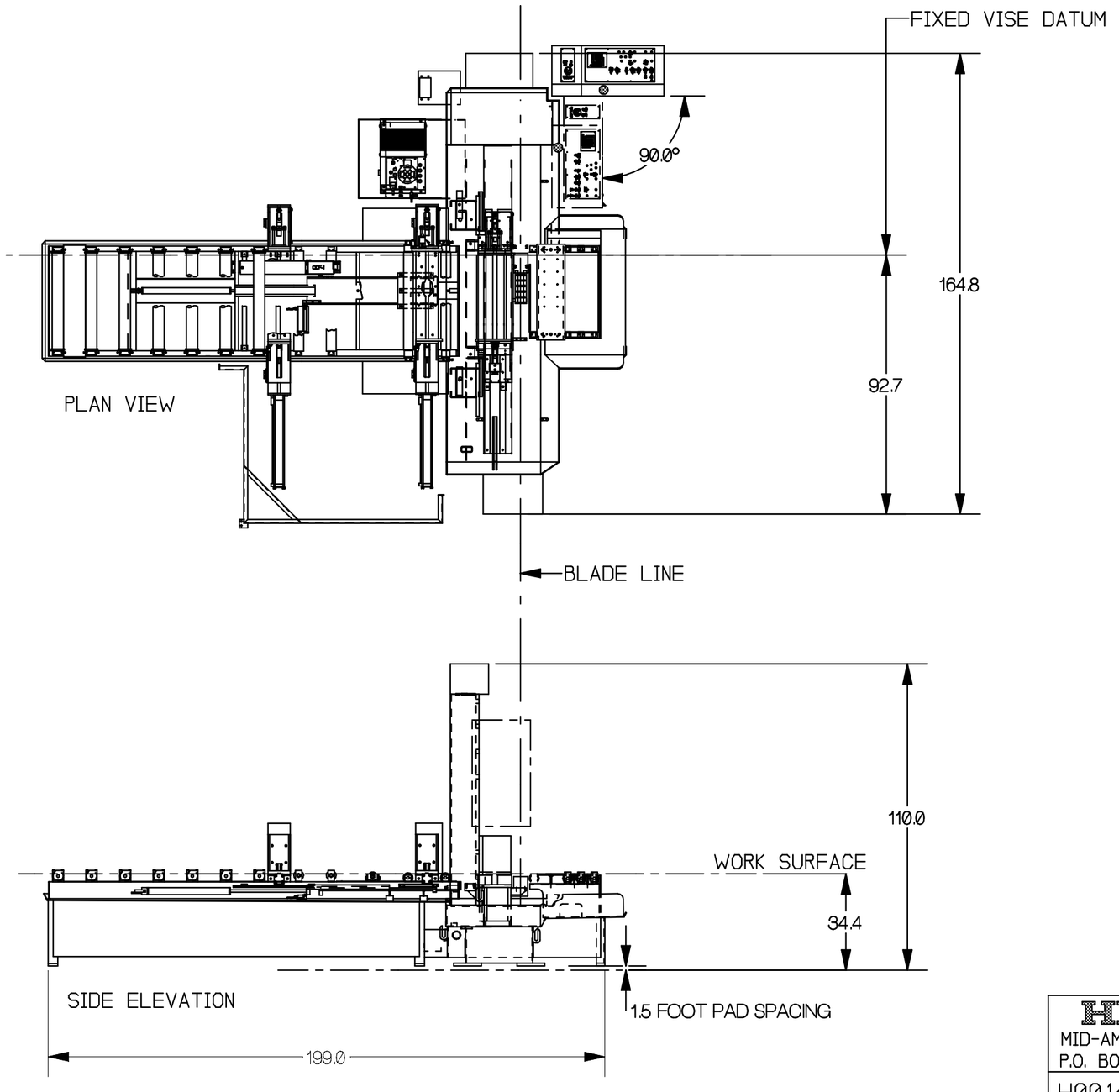

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