HEM® SAW

The saw that cuts straight.

V100LM-3

Vertical, Heavy-Duty, Metal-Cutting Production Band Saw

Capacity: 18″ w x 22″ h @ 90° • 18″ w x 15″ h @ 45° L • 18″ w x 14″ h @ 45° R
Blade: 1-1/4″ x 15'0″ x .042″ • Motor: 5 HP

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

Console Located on Front of Saw

The Control Console is located on the front of the saw for operator convenience.

Power Tilt w/ Angle Readout

The mitering capability is an easy adjustment powered from Console with LED Angle Readout displayed. This allows the operator to change angles quickly and accurately.

Adjustable Main Vise

The main vise easily adjusts into position, then clamps at the turn of a switch, holding the material in place to ensure accurate cuts. The wear-plates, on the vise and saw bed, are heavy-duty and easily replaceable.

The clamping pressure is easily adjusted to clamp various materials

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.

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.

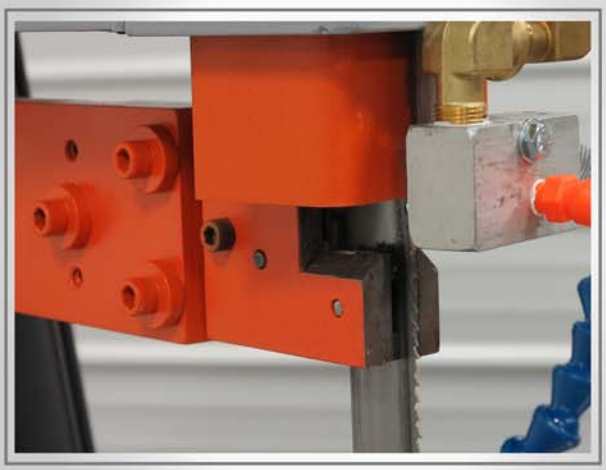
Powered Guide Arm

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.

Built-In Flood Coolant System w/ Boltable Side Wings

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

Boltable side wings are included to return the coolant to the saw.



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.

Air Powered Blade Tension

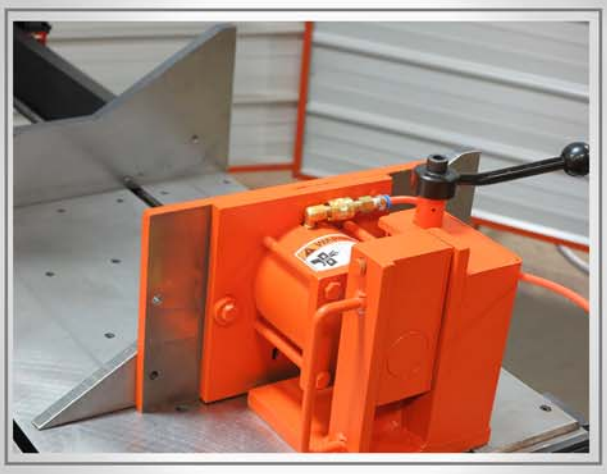
The Air Powered Blade Tensioner maintains proper blade tension at all times during the cut, compensating for blade stretch. It makes blade changing done in minutes.

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.

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.

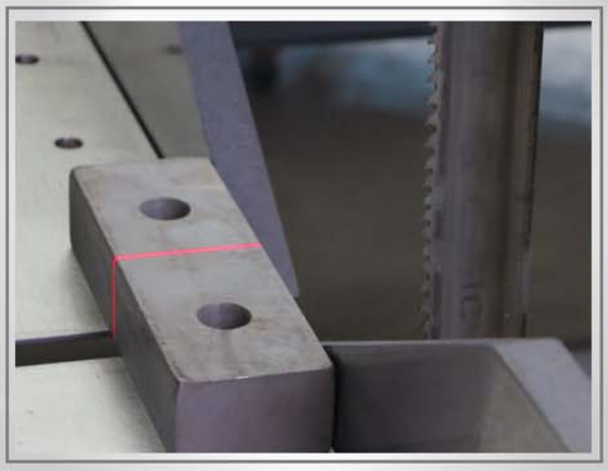


Optional 2nd Main Vise

An optional second main vise is used for additional clamping and works in conjunction with the main clamping vise.

Optional Laser Light System

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



Optional 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. **Reduces Vertical Capacity by 1"*

Optional Swing-Away Top Clamp

An Optional Swing-Away 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 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.

HE&M® SAW

Other Available Options: Load, Discharge & Roller Stock Tables

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HEM® SAW

The saw that cuts straight.

V100LM-60

Vertical, Heavy-Duty, Metal-Cutting Production Band Saw

Capacity: 18″ w x 22.25″ h @ 90° • 18″ w x 15.25″ h @ 45° L • 18″ w x 15.125″ h @ 45° R
18″ w x 10.25″ h @ 60° L • 18″ w x 7.25″ h @ 60° R
Blade: 1-1/4″ x 15’6″ x .042″ • Motor: 5 HP

Swing-Away Control Console

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

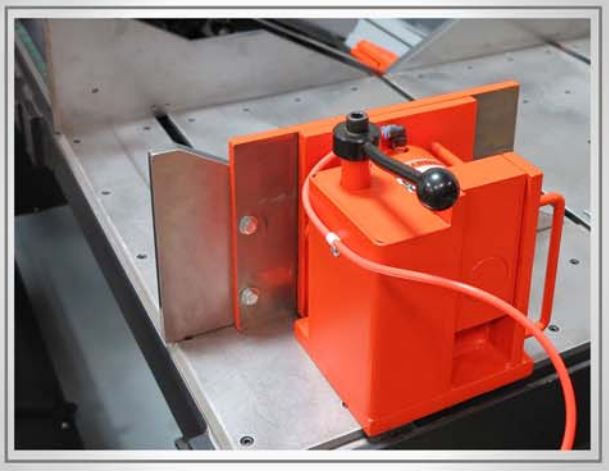
Power Tilt w/ Angle Readout

The mitering capability is an easy adjustment powered from Console with LED Angle Readout displayed. This allows the operator to change angles quickly and accurately.

Adjustable Main Vise

The main vise easily adjusts into position, then clamps at the turn of a switch, holding the material in place to ensure accurate cuts. The wear-plates, on the vise and saw bed, are heavy-duty and easily replaceable.

The clamping pressure is easily adjusted to clamp various materials



Adjustable 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.

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.

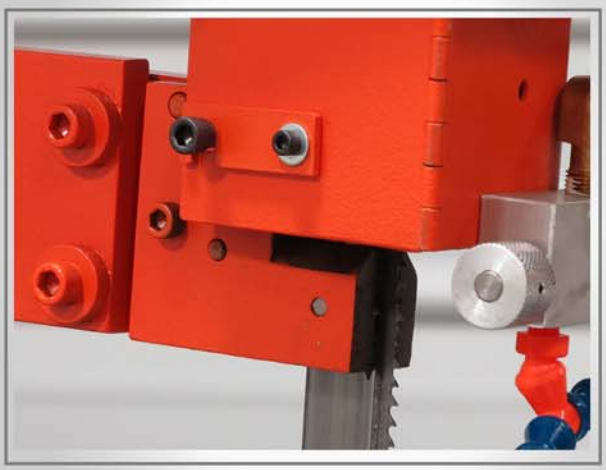
Powered Guide Arm

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.

Built-In Flood Coolant System w/ Boltable Side Wings

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

Boltable side wings are included to return the coolant to the saw.



Carbide Blade Guides

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Air Powered Blade Tension

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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.

Emergency Stop & Safety Lockout Key

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.

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

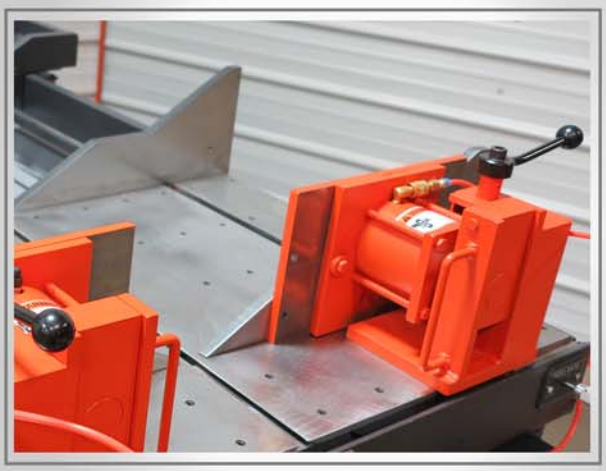
Other Safety Features

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

The Panic Stop haults all automatic functions.

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.

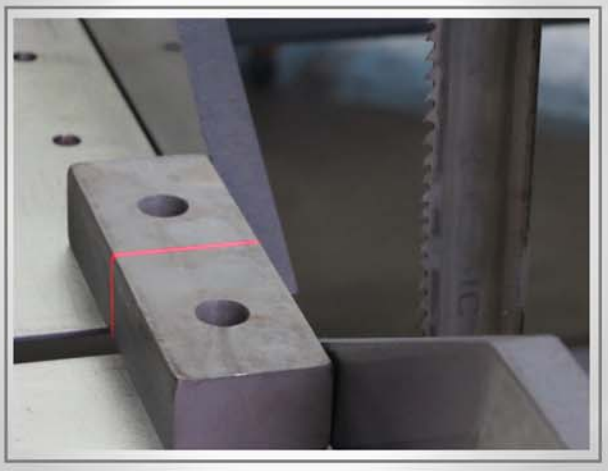


Optional 2nd Main Vise

An optional second main vise is used for additional clamping and works in conjunction with the main clamping vise.

Optional Swing-Away Top Clamp

An Optional Swing-Away 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 Laser Light System

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

HEM® SAW

Other Available Options: Load, Discharge & Roller Stock Tables

*Shown w/ Optional 2nd Vise

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HEM® SAW VT100HLA-60-CTS

The saw that cuts straight.

**Shown with Optional 2nd Vise & 3rd Vise*

Vertical, Heavy-Duty, Metal-Cutting Production Band Saw

Capacity: 18″ w x 20.75″ h @ 90° • 18″ w x 14.25″ h @ 45° L • 18″ w x 14″ h @ 45° R
18″ w x 9.75″ h @ 60° L • 18″ w x 6.75″ h @ 60° R • Blade: 1-1/4″ x 15’6″ x .042″
Arm Cant: 4° * Removable • Bar-Feed: 0-48" Stroke Hydraulic Motor • Motor: 5 HP • Hydraulics: 2 HP
**Capacity increases slightly with Blade Cant Removed.*

Swing-Away Control Console

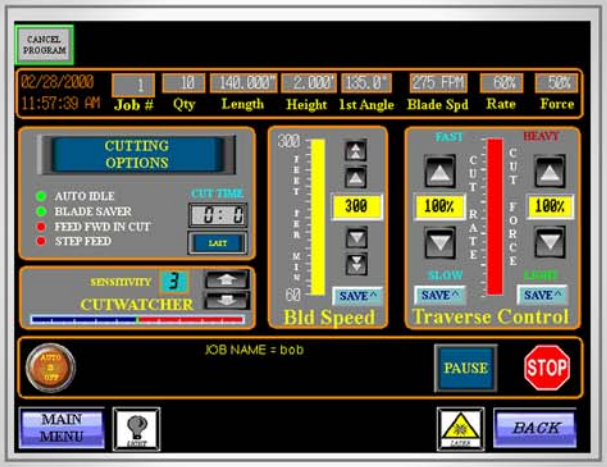
The Control Console is located on the front of the saw, in a swing-away console, for operator convenience.

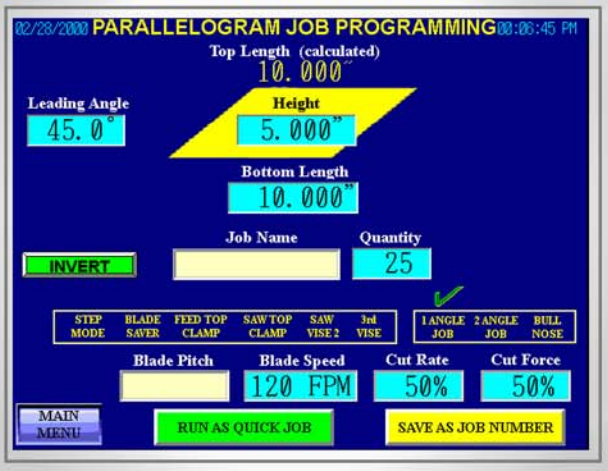
Touch Screen Controls

The Touch Screen display provides easy-to-use menu navigation for programming and recalling automatic jobs, nested job operations, as well as manual functions and programming information required for each job. Other functions include memory storage for a Job Library, Material Library, system setup 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, angle, blade speed, cut rate and cut force 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.



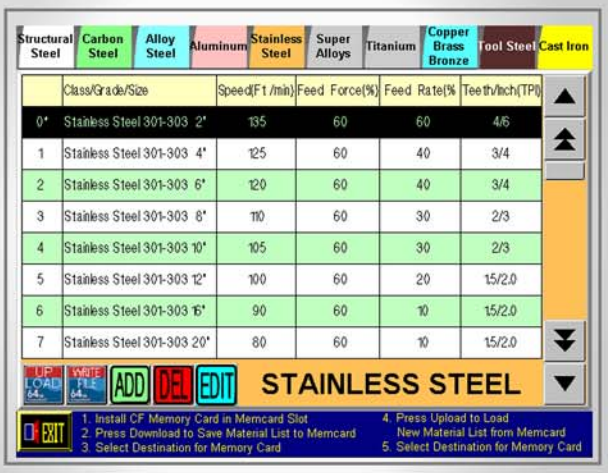


Program a Job

Icon driven programming simplifies the operator's job by automatically setting the fields up for the type of cut selected. Then the information can be entered manually, or there is a standard material list to choose various materials from. The part length, height, angle of cut, and quantity are entered for the cut, and then transferred to run automatically. Blade speed, feed rate, cutting force, and blade/vise options are also set before transferring to run automatically.

Material List

The material list consists of a data base of the most common materials, ranging from structural steels to high tensile specialty alloys, as well as cast iron and aluminum grades. The list also 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.

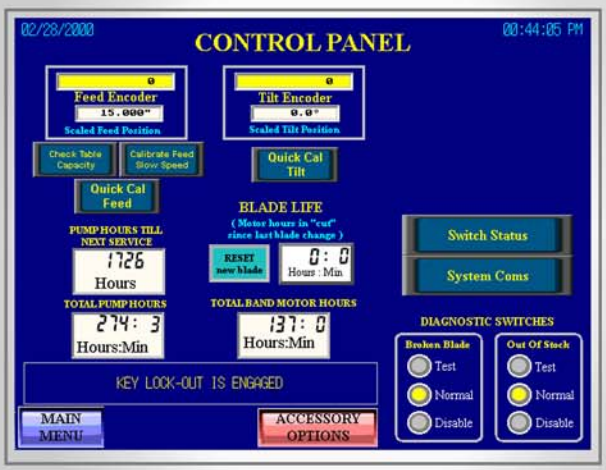


Program a Series

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 99 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 vise options can be controlled from this screen, or the console.

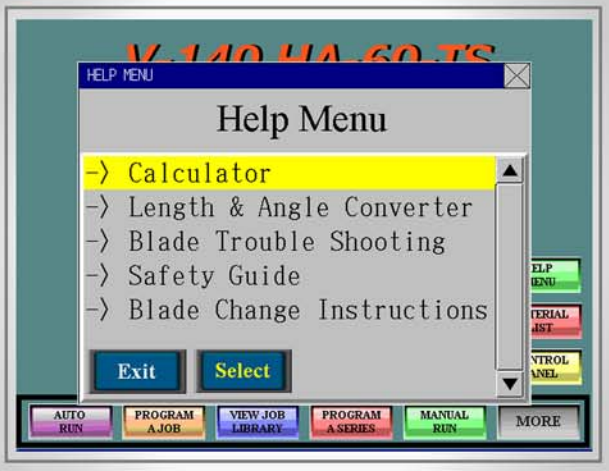


Control Panel

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.

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.



Powered Programmable Tilt

The Powered Programmable Tilt feature places the saw column to any angle up to 60 degrees right or left of 90 degrees. The mitering capability is an easy adjustment powered from Console with LED Angle Readout displayed on the Touch Screen. This allows the operator to change angles quickly and accurately. The miter angle tilting is automatic when a program requires different angles for each job

Adjustable Blade Speed

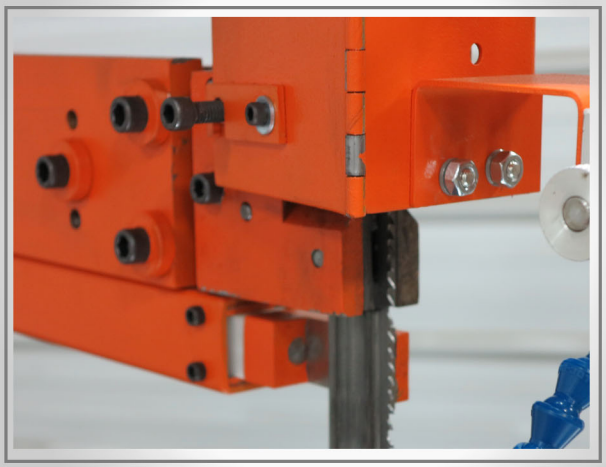
Blade speed can be adjusted with an infinitely variable speed drive, which allows the user to adjust blade speed anywhere from 65 to 300 surface feet per minute which is set and adjusted from the Touch Screen. Blade speeds are preset and adjustable in the material library.

Powered Blade Tension

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

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.

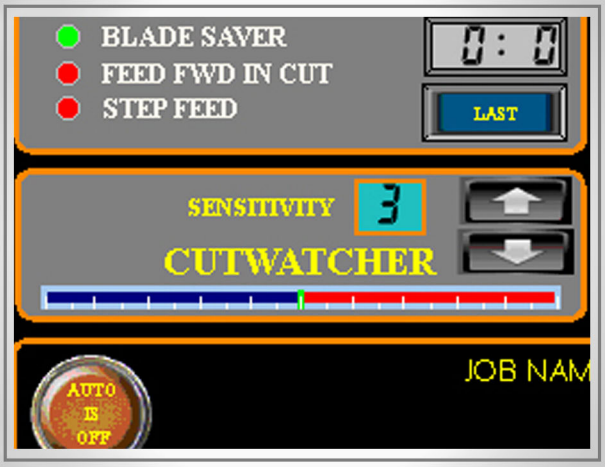


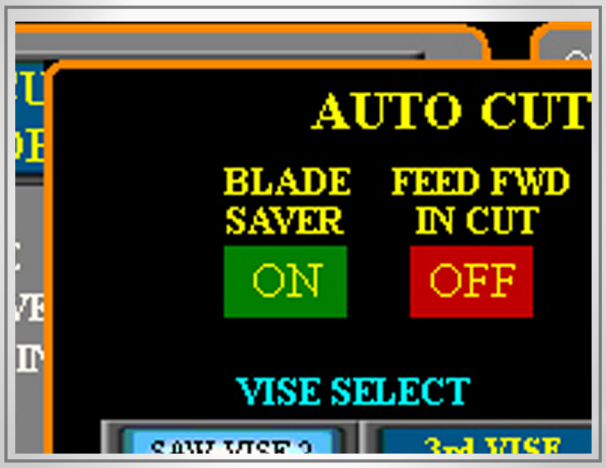
Carbide Blade Guides

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

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.



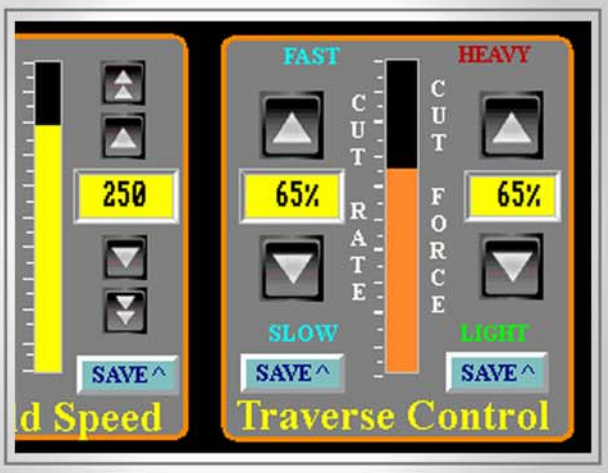


Blade Saver

Blade Saver, often used when cutting bundles of material. This function reduces wear and tear on the blade when retracting through a cut. It also reduces blade “snagging” on the material as it is retracting after a cut. When the Blade Saver is active, the blade is still forward after a cut is complete.

Electronic Controlled Traverse

The ECT, Electronic Controlled Traverse System, allows for complete control of cutting rate and cutting force during the cutting operation.



Full-Stroking Main & Feed Vise

Full-Stroking Main & Feed Vise clamps material at the touch of a switch or icon, 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

Idle Base Rollers

The saw has a set of idle, non-lifting rollers on each side of the saw base to aide in moving material into the vises.

0-48” Stroke Bar-Feed (Multiple Index)

The saw has a standard 0 to 48” stroke, hydraulic motor, automatic bar-feed system with multiple indexing capability for longer cutting applications. The material jogging capability allows the operator to “inch” the material forward to set up for a face cut or a single cut. **Shown w/ Optional 3rd Vise*

Powered Guide Arm

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

Built-In Flood Coolant System

The saw has a totally built-in coolant system with sealed coolant pump, with coolant that is dispensed through a flex-tube nozzle to flood the center of the cut. A cutting fluid clean-up hose is provided for machine wash down.

Emergency Stop & Lock Out Key

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

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

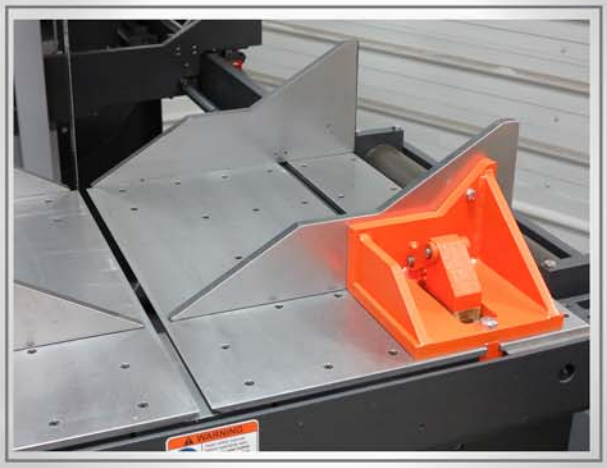
Other Safety Features

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.

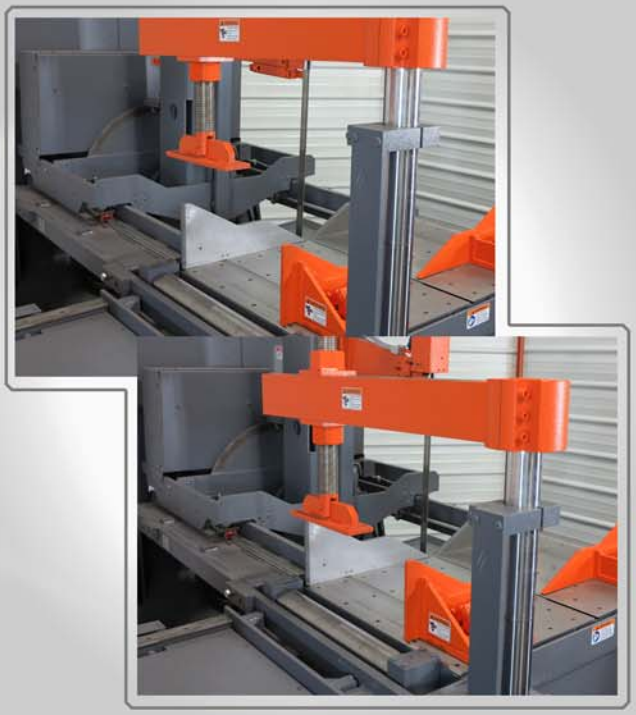
Optional 2nd Main Vise

An optional full-stroking second main vise is used for additional clamping and works in conjunction with the main clamping vise.



Optional 3rd Holding Vise on Feed

An optional 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.



Optional Swing-Away Top Clamp

An Optional Swing-Away 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 - Feed Vise

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

Optional RC Top Clamp

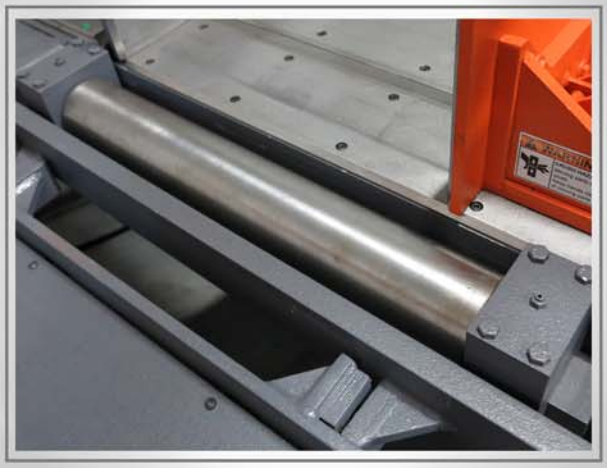
Optional Reduced Capacity Top Clamps are available for the Main Vise and/or Feed Vise for extra clamping of material.

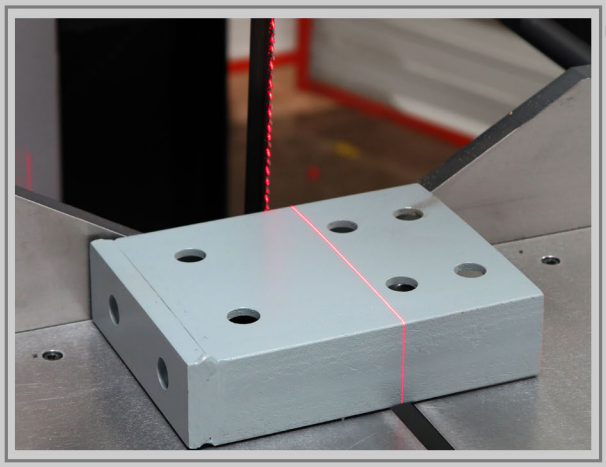
Optional Spray Mist Lubrication

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 Power Raised Lift-Up Rollers

Optional Power Raised Lift-Up Rollers, one on each side of the saw base, raise material up to easier move 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:

0-48” Stroke Servo Twin Ball-Screw Bar-Feed, Discharge & Roller Stock Tables, Pedestal Mounted Control Console - 12’ Umbilical, Right to Left Feed Direction

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*Shown w/ Optional 2nd Vise

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18″ w x 9.75″ h @ 60° L • 18″ w x 6.75″ h @ 60° R • Blade: 1-1/4″ x 15'6″ x .042″
Arm Cant: 4° (Removable for Slightly Larger Capacity) • Motor: 5 HP • Hydraulics: 2 HP

Swing-Away Control Console

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

Touch Screen Controls

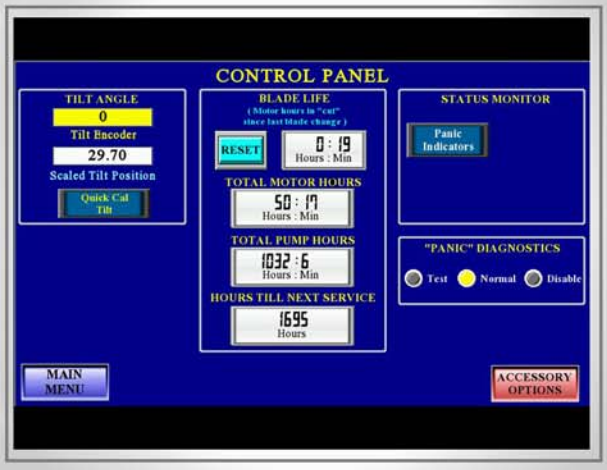
The touch screen display provides easy-to-use menu navigation for programming information required for a semi-automatic job. Other functions include system information, diagnostics and saw operation parameters.

Manual/Semi-Auto Cut Screen

The cut screen allows the operator to set the angle/blade speed, and to control vising options, to set up for a manual or semi-automatic cut. The arm traverse is also controlled from this screen.

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.



Help Files

Help files are available to assist in operating the saw. These include: blade change instructions, safety guide, and blade troubleshooting chart.

Full-Stroking Main Vise

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The clamping pressure is easily adjusted to clamp various materials

Adjustable Blade Speed

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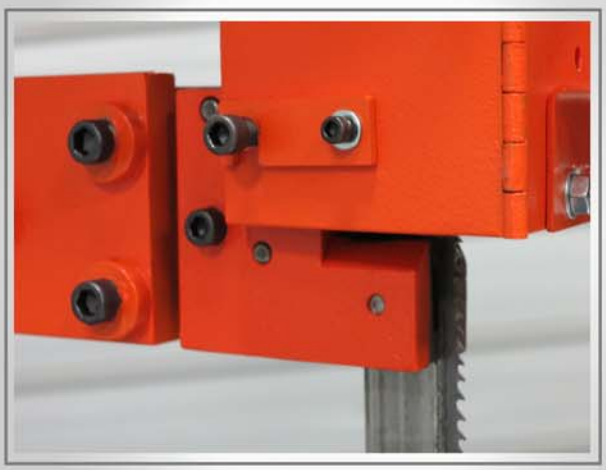

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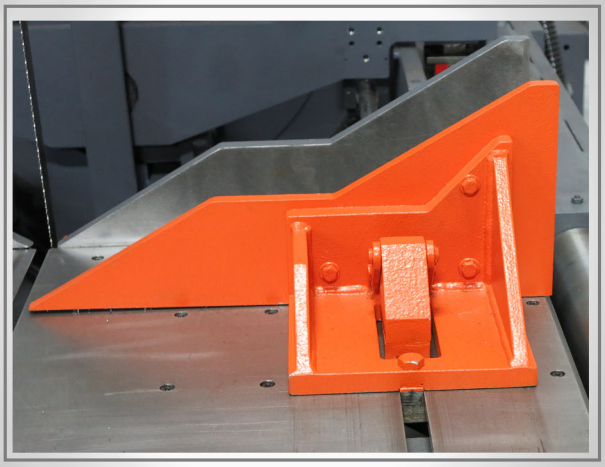
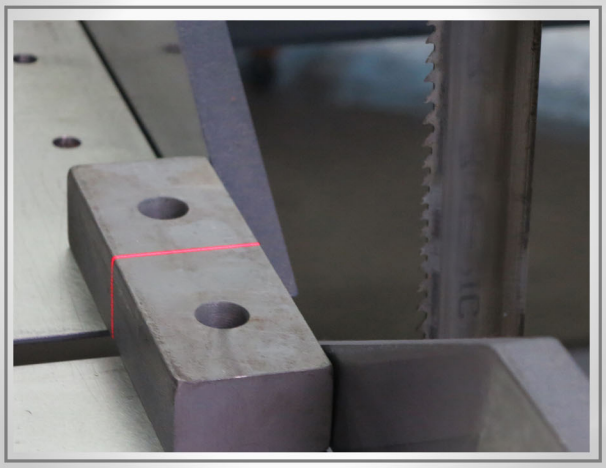
Optional 2nd Main Vise

An optional full-stroking second main vise is used for additional clamping and works in conjunction with the main clamping vise.



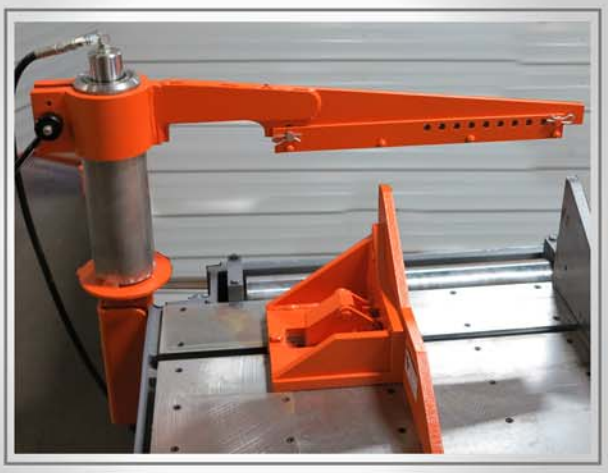


Optional Laser Light System

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

Optional RC Top Clamp

An Optional Reduced Capacity Top Clamp is available for the Main Vise for extra clamping of material.

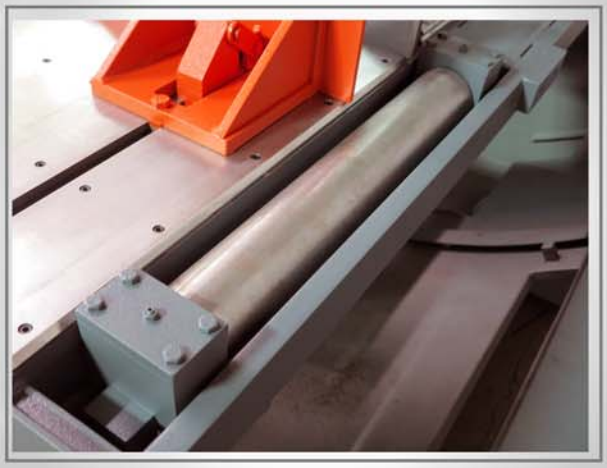


Optional Swing-Away Top Clamp

An Optional Swing-Away 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 Power Raised Lift-Up Rollers

Optional Power Raised Lift-Up Rollers, one on each side of the saw base, raise material up to easier move the material.



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: Load, Discharge & Roller Stock Tables

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VT100LM-60

Vertical, Heavy-Duty, Metal-Cutting Production Band Saw

Capacity: 18″ w x 20.75″ h @ 90° • 18″ w x 14.25″ h @ 45° L • 18″ w x 14″ h @ 45° R
18″ w x 9.75″ h @ 60° L • 18″ w x 6.75″ h @ 60° R
Blade: 1-1/4″ x 15’6″ x .042″ • Arm Cant: 4° • Motor: 5 HP

Swing-Away Control Console

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

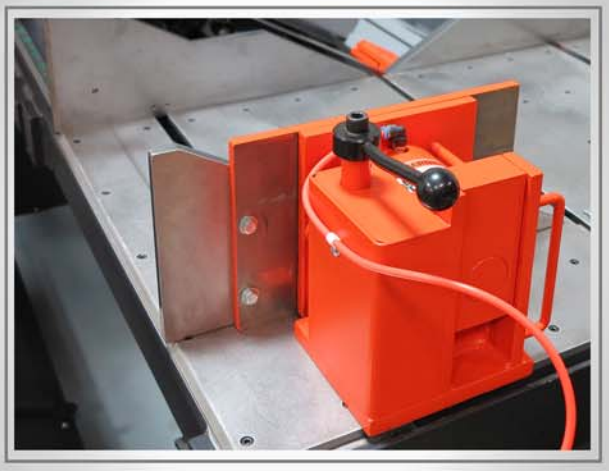
Power Tilt w/ Angle Readout

The mitering capability is an easy adjustment powered from Console with LED Angle Readout displayed. This allows the operator to change angles quickly and accurately.

Adjustable Main Vise

The main vise easily adjusts into position, then clamps at the turn of a switch, holding the material in place to ensure accurate cuts. The wear-plates, on the vise and saw bed, are heavy-duty and easily replaceable.

The clamping pressure is easily adjusted to clamp various materials



Adjustable 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.

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.

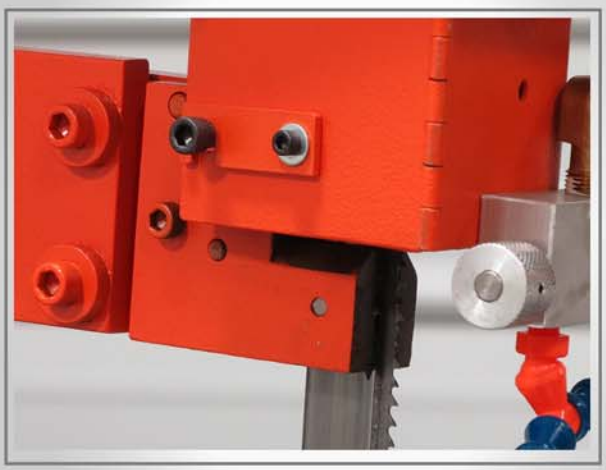
Powered Guide Arm

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.

Built-In Flood Coolant System w/ Boltable Side Wings

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

Boltable side wings are included to return the coolant to the saw.



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.

Air Powered Blade Tension

The Air Powered Blade Tensioner maintains proper blade tension at all times during the cut, compensating for blade stretch. It makes blade changing done in minutes.

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.

Emergency Stop & Safety Lockout Key

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.

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

Other Safety Features

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

The Panic Stop haults all automatic functions.

Optional Spray Mist Lubrication

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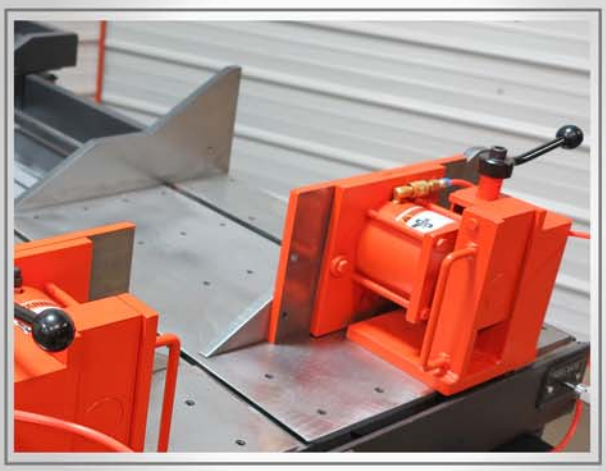

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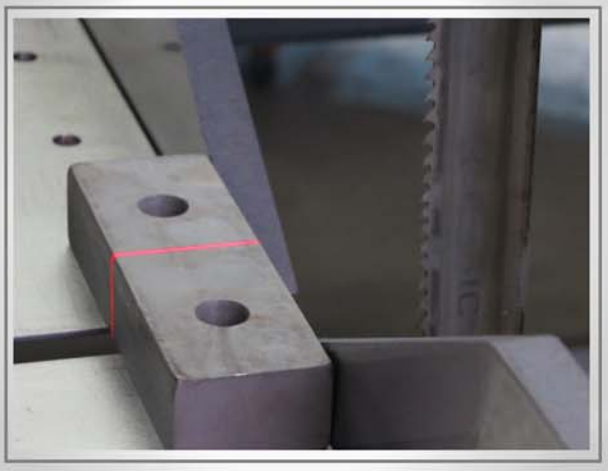

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