

# HEM<sup>®</sup> SAW

— The saw that cuts straight. —

## H90A-1



### Horizontal Pivot, Heavy-Duty, Metal-Cutting Production Band Saw

Capacity: 12.75" W x 12.75" H  
Blade: 1" x 12'10" x .035" • Motor: 3 HP • Bar-feed: 0-24" (Single Index)

#### Console Located on Top of Saw

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





## 18" Solid Exit Support

A standard solid exit support provides easier handling after the cut. The support is 18" in length and is fully coolant panned.

## 0-24" Stroke Bar-Feed (Single Index)

The automatic Bar-Feed on the saw is comprised of an air operated shuttle vise feed system with a zero to 24" single index feed stroke. The feed table includes a vertical alignment bar and mechanical readout.



## Part Quantity Counter

On the part quantity counter, press the buttons to enter the desired number of pieces to be cut into the top display. The readout bottom display will count up as each piece is cut, shutting the saw off after the desired pieces have been cut.



## Adjustable Main & Feed Vise

The saw vises slide on the vise ways. When the clamp is engaged, the air powered short stroking vise is pulled toward the fixed wear plate, clamping the material in place to ensure accurate cuts. The clamping pressure is easily adjusted to clamp various materials



## Hold Down Fixtures

Hold down fixtures also aid in the clamping of multiple pieces of material in a single row.



## 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.





## 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.

## Carbide Blade Guides

A blade guide system is composed of side and back guides, which are flat carbide inserts.



## Manual Adjustable Guide Arm

The Guide Arm is adjusted manually to help stabilize the blade and reduce vibration, providing a better cutting surface.



## Built-In Flood Coolant System

The saw has a totally built-in coolant system with sealed coolant pump. The coolant is dispensed through the guide arms on both sides of the cut. A cutting fluid clean-up hose is provided for machine wash down.



## Manual Blade Tension

The Manual Blade Tensioner helps to keep the blade at the proper tension. It assures and maintains proper blade tension at all times during the cutting process.

## 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.





## Safety Features

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

## Optional 24" Discharge Table

An optional 24" discharge table provides easier handling after the cut. The table is 24" in length and is fully coolant panned.



## Optional Reduced Capacity Top Clamps - Main or Feed Vise

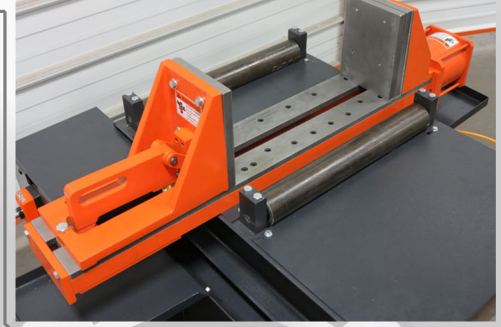
Optional reduced capacity top clamps can be added to the main or feed vise for vertical clamping of structural shapes and when entire "mill bundles" are to be cut.



## Optional Interlocking Vise Jaws or 3rd Vise on Feed

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.

A 3rd Holding Vise on the Feed 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 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 5' or 10' Idle Roller Stock Table

5' or 10' optional idle roller tables with 12" centers are available for material handling. The tables are non-coolant panned and height adjustable to be "trued-in" with the saw. They are designed to move even the large bars with ease and accuracy.





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# HEM<sup>®</sup> SAW

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## H90A-4



### Horizontal Pivot, Heavy-Duty, Metal-Cutting Production Band Saw

Capacity: 12.75" W x 12.75" H

Blade: 1" x 12'10" x .035" • Motor: 3 HP • Bar-feed: 0-24" (4 Indexes)

### Easy View Console

The Control Console is located in an Easy View style control on a gooseneck mount, and can be pivoted for operator convenience.





## 24" Solid Discharge Table

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

## 0-24" Stroke Bar-Feed (4 Indexes)

The automatic Bar-Feed on the saw is comprised of an air operated shuttle vise feed system with a zero to 24" four index feed stroke. The feed table includes a vertical alignment bar and mechanical readout.



## Part Quantity & Feed Counter

On the part quantity counter, press the buttons to show the desired number of pieces to cut. The digital display will match the number put in and will count down with each piece cut.

The bar-feed will stroke the number of times the feed counter is set to, up to 4 indexes.



## Adjustable Main & Feed Vise

The saw vises slide on the vise ways. When the clamp is engaged, the air powered short stroking vise is pulled toward the fixed wear plate, clamping the material in place to ensure accurate cuts. The clamping pressure is easily adjusted to clamp various materials



## Hold Down Fixtures

Hold down fixtures also aid in the clamping of multiple pieces of material in a single row.

## Adjustable Feed Rate & Cut Force

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





## 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.

## Carbide Blade Guides

A blade guide system is composed of side and back guides, which are flat carbide inserts.



## Manual Adjustable Guide Arm

The Guide Arm is adjusted manually to help stabilize the blade and reduce vibration, providing a better cutting surface.



## Cut Watcher<sup>®</sup> System

The patented Cut Watcher<sup>®</sup> 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.

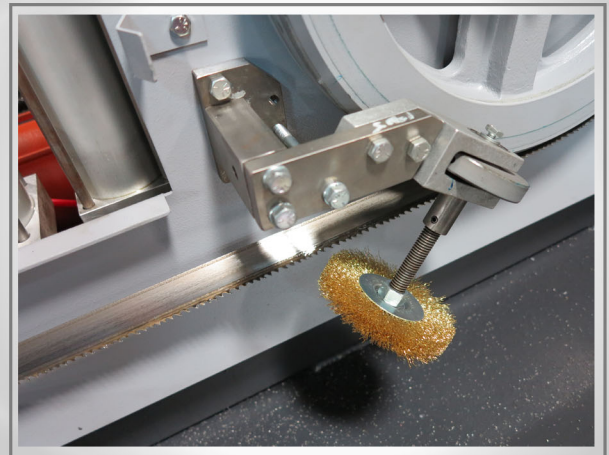


## Manual Blade Tension

The Manual Blade Tensioner helps to keep the blade at the proper tension. It assures and maintains proper blade tension at all times during the cutting process.

## 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.





## Safety Features

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 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 halts all automatic functions.



## Built-In Flood Coolant System

The saw has a totally built-in coolant system with sealed coolant pump. The coolant is dispensed through the guide arms on both sides of the cut. A cutting fluid clean-up hose is provided for machine wash down.



## Optional Reduced Capacity Top Clamps - Main or Feed Vise

Optional reduced capacity top clamps can be added to the main or feed vise for vertical clamping of structural shapes and when entire "mill bundles" are to be cut.



## Optional Interlocking Vise Jaws or 3rd Vise on Feed

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.

A 3rd Holding Vise on the Feed 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 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 5' or 10' Idle Roller Stock Table

5' or 10' optional idle roller tables with 12" centers are available for material handling. The tables are non-coolant panned and height adjustable to be "trued-in" with the saw. They are designed to move even the large bars with ease and accuracy.





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## H90A-C



### Horizontal Pivot, Heavy-Duty, Metal-Cutting Production Band Saw

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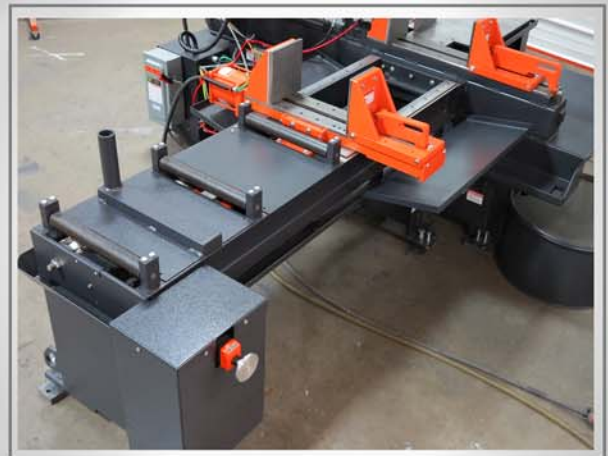


## 24" Solid Discharge Table

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## 0-24" Stroke Bar-Feed (Multiple Indexes)

The automatic Bar-Feed on the saw is comprised of an air operated shuttle vise feed system with a zero to 24" multiple index feed stroke. The feed table includes a vertical alignment bar and mechanical readout.



## Computer Controlled Feed

The Standard Computer Controlled Feed System allows the operator to select a program for automatic operation. The operator can program the saw to automatically cut up to 99 different jobs of various lengths from the same bar. Lengths over 24 inches are automatically set and compensated.



## Adjustable Main & Feed Vise

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## Hold Down Fixtures

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