

# HORIZONTAL PIVOT STYLE BAND SAWS



**HYDMECH**

# S-20

## CAST IRON SAW HEAD

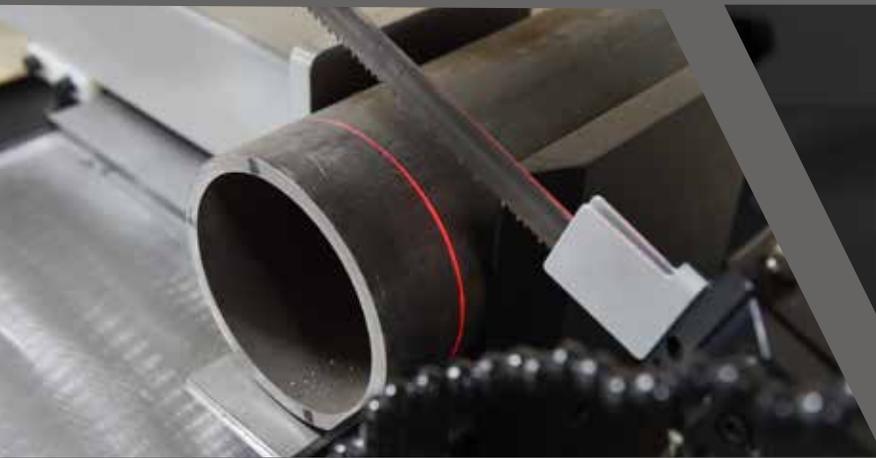
Provides rigidity and less vibration when cutting. Ensures straight cuts and increases blade life!

## DIGITAL BAND TENSIONING DISPLAY

Manual mechanical tensioning allows for quick and simple blade changing. A LED display on the control console provides readout for proper tension setting.

## 3 HP DIRECT BLADE DRIVE

Heavy-duty 2-stage gearbox and motor is controlled by an AC inverter drive. Blade speed is easily adjusted with a wide range of band speeds. Less moving parts compared to belt and pulley drive machines.



Photos may show optional equipment.



The S-20 represents the first band saw to incorporate a swing head design for miter cutting. The innovative design saves operator set up time and shop space. These versatile machines provide exceptional miter cutting for light to medium duty applications.

### STANDARD FEATURES

- Easy swing, heavy duty cast iron saw head
- 3 HP true direct blade drive 36" material in-feed roller table and 19" out feed table
- Heavy duty sliding material vise(cam lock) jaw
- Mechanical band tensioning with digital readout
- Cast iron band wheels
- Swing away operator control panel
- Replaceable blade brush
- Robust steel base
- Easy to read angle scale with angle locking mechanism
- Cast iron guide arms. Idler side guide arm is adjustable and supported by linear rail
- Gravity head feed
- Replaceable carbide guide inserts
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light
- Work light

### OPTIONAL FEATURES

- Mist lubrication
- Adjustable work stop
- Right hand control panel
- Single phase
- Idler conveyor & accessories





## STANDARD FEATURES

- Easy swing, heavy duty cast iron saw head up to 60° one direction
- Full capacity, full stroking hydraulic vise
- 3 HP VFD. True direct blade drive - no belts/pulleys
- On-demand hydraulics save energy
- 36" material in-feed roller table and 19" out feed table
- Cast iron band wheels
- Semi-automatic control panel
- Replaceable blade brush
- Robust steel base
- Easy to read angle scale with angle locking mechanism
- Cast iron guide arms. Idler side guide arm is adjustable and supported by linear rail.
- Gravity head feed

- Mechanical band tensioning with digital readout
- Replaceable carbide guide inserts
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light
- Work light
- Variable vise pressure

## OPTIONAL FEATURES

- Full capacity hydraulic overhead bundling
- Work stop - 34"
- Single phase
- Remote operator console
- Mist lubrication
- Left hand side control panel
- Idler conveyors

# S-20P

## LASER LIGHT

This standard feature is ideal when manually marking your cut line and aligning that mark with the blade.

The laser light allows you to avoid joggling the blade downward while moving the part in and out.

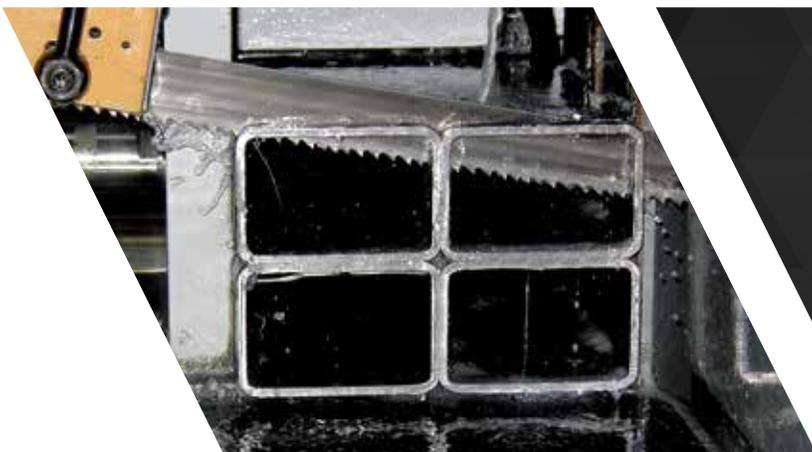
A great safety feature as the head stays up in a locked position. An on/off switch is provided.

## FULL CAPACITY HYDRAULIC VISE

Save time with the full capacity, full stroking hydraulic vise. Add the optional overhead clamp, which clamps material from above. This option is very effective, and necessary for bundle cutting various material shapes.

## SEMI-AUTOMATIC CONTROLLER

Equipped with a digital LCD display, control shows machine mode, pieces cut, blade speed, blade tension, amperage draw, cut duration, overall machine run time, and head position.



Photos may show optional equipment.

# S-20A



## BALL SCREW FEED SYSTEM

Improve cycle time! Automatic material indexing up to 27" in a single stroke. The shuttle vise is powered by a ball screw and stepper motor for fast, accurate indexing.

## AUTOMATIC PLC CONTROL

Automatic mode: displays blade speed, blade tension part length, quantity required, and piece count, job run time, total blade run time Machine will shut down when the required number of pieces have been cut.



Photos may show optional equipment.



## STANDARD FEATURES

- Easy swing, heavy duty cast iron saw head
- Cast iron shuttle features automatic multi-indexing up to 27" in a single stroke. Powered by ball screw and stepper motor.
- 5 HP VFD. True direct blade drive - no belts/pulleys
- On-demand hydraulics save energy
- Blade chamber separates material from cut part
- Cast iron band wheels
- Automatic PLC, touch screen control programmable up to 100 jobs with 20 in queue
- Replaceable blade brush
- Robust steel base
- Easy to read angle scale with angle locking mechanism
- Cast iron guide arms mounted on linear rails is adjustable for proper spacing.

- Easy access electrical panel
- Full capacity, full stroke hydraulic vises
- Out of stock switch
- Mechanical band tensioning with digital readout
- Hydraulic positive down feed
- Replaceable carbide guide inserts
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light & work light
- Variable vise pressure

## OPTIONAL FEATURES

- Full capacity hydraulic overhead bundling
- Mist lubrication
- Idler and powered conveyors



## STANDARD FEATURES

- Semi-automatic control
- Easy swing, heavy duty cast iron saw head provides durability, stiffness, and absorbs vibration that is created during the cutting process.
- Full capacity, full stroking hydraulic material vise
- 8.8 HP VFD True direct blade drive - no belts/ pulleys.
- On-demand hydraulics save energy
- 19 1/4" out feed table and 43" infeed table
- Blade breakage switch
- Cast iron band wheels
- Replaceable blade brush
- Robust steel base
- Easy to read angle scale with angle locking mechanism
- Cast iron guide arms. Idler side guide arm is adjustable and supported by linear rail.
- Easy access electrical panel
- Hydraulic positive down feed provides easy adjustment of both feed rate and cutting pressure
- Mechanical band tensioning with digital readout
- Replaceable carbide guide inserts

- Safety door interlocks
- Flood coolant with wash down hose
- Laser light
- Work light
- Variable vise pressure

## OPTIONAL FEATURES

- Full capacity hydraulic overhead bundling moves down on the material from above. Timed with the opening and closing of the side vise, it is very effective for bundle cutting various material shapes & sizes.
- Mist lubrication
- Work stop - 34"
- Remote console
- Idler conveyors

# S-23P

## HYDRAULIC POSITIVE DOWNFEED

The DDF system (dual down feed system) has the capability of controlling both feed rate and feed force parameters to achieve optimum cutting results, and blade life.

## BUILT-IN COOLANT DRAWER

Base features a built in coolant drawer with centrifugal pump. The pump delivers ample coolant to the cutting area.

## SEMI-AUTOMATIC CONTROLLER

Equipped with a digital LCD display, control shows machine mode, pieces cut, blade speed, blade tension, amperage draw, cut duration, overall machine run time, and head position.

## MECHANICAL LOCKING MITER SCALE

The easy swing head frame, with counter balance springs has a scale for the head miter position in 1° increments. A cam lock brake provides reliable locking at the desired angle.



Photos may show optional equipment.

# S-23A

The S23A Horizontal Pivot Band Saw will increase flexibility and improve efficiency in any general purpose sawing application. This automatic machine is ideal for the small to medium fabricator or machine shop, looking to make extremely accurate, straight or miter cuts. The saw head swings 30 degrees in both semi-automatic and automatic. All of the saw blade guiding components are made of cast iron, making this machine highly durable and accurate. The S23A is a competitively priced machine combined with versatility and unmatched cost per cut.

## CAST IRON GUIDE ARMS

Premium cast iron, heavy duty guide arms mounted on linear rails come equipped with replaceable, pre-set carbide inserts (no adjustments needed) for accurate cutting.

## AUTOMATIC PLC CONTROL

Windows touch screen controller operates the automatic cycle but allows for manual operation as well. A variety of languages can be chosen for message screen display.



Photos may show optional equipment.



## STANDARD FEATURES

- Easy swing, heavy duty cast iron saw head
- Cast iron shuttle features automatic multi-indexing up to 28.5" in a single stroke. Powered by ball screw and stepper motor.
- 8.8 HP VFD. True direct blade drive - no belts/pulleys
- On-demand hydraulics save energy
- Blade chamber separates material from cut part
- Cast iron band wheels
- Automatic PLC, touch screen control programmable up to 100 jobs with 20 in queue
- Replaceable blade brush
- Robust steel base
- Easy to read angle scale with angle locking mechanism
- Cast iron guide arms mounted on linear rails is adjustable for proper spacing.
- Easy access electrical panel
- Out of stock switch
- Mechanical band tensioning with digital readout

- Blade breakage switch
- Hydraulic positive down feed has the capability of controlling both feed rate and feed force parameters to achieve optimum cutting results, and blade life.
- Replaceable carbide guide inserts
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light
- Work light
- Variable vise pressure

## OPTIONAL FEATURES

- Full capacity hydraulic overhead bundling
- Remote console
- Mist lubrication
- Idler conveyors
- Powered conveyors



## BLADE CHAMBER

After completing a cut, the unique blade chamber feature prevents the blade from snagging by providing a wide path for the blade to retract through.

After finishing the cut, the head and saw blade stay in the down position. The shuttle vise then retracts the cutting stock.

The head retracts through created opening (chamber), and the shuttle will then advance the material to the desired length.

This feature allows the operator to run the machine unattended without the possibility of the blade catching on the material as the head retracts. Without this feature blade can be damaged including blade guard, saw table, and guides.

## CAST IRON SHUTTLE FEED

Heavy duty shuttle vise assembly mounted on reciprocating linear rails provide automatic multi-indexing of up to 28.5" in a single movement with a length accuracy of +/- .005" per stroke.

The shuttle vise is powered by a ball screw and stepper motor - fast and accurate!

The infeed rollers are 2 5/16" in diameter.

The floating shuttle adjusts for bent material.

The machine can operate in automatic and index with the head in 30° miter.



# S-23A

## OPTIONAL MIST LUBRICATION

An alternative to the standard flood coolant system, mist lubrication is an air mist system providing blade lubrication and cooling. No recovery is required as the mist dissipates.

## STANDARD VARIABLE VISE PRESSURE

Provides vise pressure adjustment on both vises when thin wall tubing and other light material are being cut. This minimizes application deformation potential.

## OPTIONAL OVERHEAD BUNDLING

A hydraulically powered overhead clamp moves down on the material. This option is very effective, and necessary for bundle cutting various material shapes & sizes.



Photos may show optional equipment.

# M SERIES



Photos may show optional equipment.

## GET UNMATCHED, HEAVY-DUTY MITERING WITH HYDMECH'S M SERIES SAWS.

Fully hydraulic, heavy-duty horizontal pivot machines that withstand the high demands of machine and fabrication shops, trailer and automotive manufacturers, and more. Easily cut tubing, channels, angles, solids, light to medium grade alloys, as well as non-ferrous and stainless materials

The M Series machines have powered, hydraulic saw heads for mitering with just the simple push of a

button! The powered head movement has an optimum range of up to 30° as well as indexing from 33" to 120" in a single stroke.

M-Series machines are available in semi-automatic and fully-automatic models with cutting capacities of up to 30".



## STANDARD FEATURES

- Built to withstand heavy fabricating environments
- Automatic programmable mitering with “go to” angle from 90° to 30°
- Automatic multi-indexing up to 33” in a single stroke
- Full capacity, full stroking hydraulic vises
- Guide arms mounted on linear rails. Hydraulically powered idler side guide arm is adjustable for proper spacing.
- 7.5 HP VFD. True direct blade drive - no belts/pulleys
- Hydraulic positive down feed
- Blade chamber separates material from cut part
- Cast iron band wheels
- 8.5” Mitsubishi FX3U Controller PLC color touch screen controller. No flipping from screen to screen, the control is interactive with messages for the operator that reduces the learning curve. User friendly, graphical icon programming for miter cutting. Program 1,000 jobs with 20 in queue.
- Replaceable blade brush
- Robust steel base
- Automatic chip removal auger
- Easy access electrical panel and hydraulics
- Blade breakage switch
- Hardened replaceable wear plates on material vises
- Hydraulic band tensioning
- Hydraulic carbide guide tensioning
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light
- Work light
- Out of stock switch
- Variable vise pressure

## OPTIONAL FEATURES

- Blade deviation monitor
- Full capacity hydraulic overhead bundling
- Remote console
- Chip bucket
- Mist lubrication
- Vertical rollers
- Idler and powered conveyors

# M-16A

## “GO TO” ANGLE FUNCTIONALITY

The fully programmable PLC control allows the operator to enter two desired angles. The machine will automatically swing the head, alternating between two different programmed angles, producing parts with a different angle on each end.

## HYDRAULIC POWERED GUIDE ARM

The M-16A features guide arms mounted on linear rails. The hydraulically powered idler side guide arm is adjustable for proper guide arm spacing giving rigidity to the blade.

## EASY ACCESS HYDRAULICS

A 3 HP hydraulic pump supplies system pressure which controls all vising, head up/down, head swing, shuttle movement, and blade tension functions. Easy access for minimal downtime.



Photos may show optional equipment.

# M-20A

## CAST WHEELS & OVERSIZED PIVOT

Cast iron wheel and an oversized pivot point provide extra rigidity. A powered blade brush keeps the blade clean while chips are conveniently removed by the automatic chip auger.

## GRAPHICAL ICON PROGRAMMING

User friendly, graphical icon programming helps to simplify control operation for the operator.

## 10 HP DIRECT BLADE DRIVE

Powerful gearbox and motor assembly with a variable frequency drive system. A wide range of available band speeds allows for efficient cutting of many types of material.





## STANDARD FEATURES

- Automatic programmable mitering with “go to” angle from 90° to 30°
- Automatic multi-indexing up to 33” in a single stroke.
- Guide arms mounted on linear rails. Hydraulically powered idler side guide arm is adjustable for proper spacing.
- 10 HP VFD. True direct blade drive - no belts/pulleys
- Full capacity, full stroking hydraulic vises
- Hydraulic positive down feed
- Blade chamber separates material from cut part
- Cast iron band wheels
- 8.5” Mitsubishi FX3U Controller PLC color touch screen controller. No flipping from screen to screen, the control is interactive with messages for the operator that reduces the learning curve. User friendly, graphical icon programming for miter cutting. Program 1,000 jobs with 20 in queue.
- Replaceable blade brush
- Robust steel base
- Automatic chip removal auger

- Easy access electrical panel and hydraulics
- Blade breakage switch
- Hardened replaceable wear plates on material vises
- Hydraulic band and carbide guide tensioning
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light
- Work light
- Out of stock switch
- Variable vise pressure

## OPTIONAL FEATURES

- Blade deviation monitor
- Full capacity hydraulic overhead bundling - two vises
- Chip bucket
- Remote console
- Mist lubrication
- Outboard vise available by special request
- Vertical rollers - on machine base
- Idler & powered conveyors



### STANDARD FEATURES:

- Automatic programmable mitering with “go to” angle from 90° to 30°
- Full capacity hydraulic overhead bundling
- 10’ bar feed
- Automatic multi-indexing up to 120” in a single stroke.
- Guide arms are mounted on linear rails. Hydraulically powered idler side guide arm is adjustable for proper spacing.
- 10 HP VFD. True direct blade drive - no belts/ pulleys
- Full capacity, full stroking hydraulic material vises
- Hydraulic positive down feed
- Blade chamber separates material from cut part
- Cast iron band wheels
- 8.5” Mitsubishi FX3U Controller PLC color touch screen controller. No flipping from screen to screen, the control is interactive with messages for the operator that reduces the learning curve. User friendly, graphical icon programming for miter cutting. Program 1,000 jobs with 20 in queue.
- Replaceable blade brush
- Automatic chip removal auger

- Easy access electrical panel and hydraulics
- Blade breakage switch
- Hardened replaceable wear plates on material vises
- Hydraulic band and carbide guide tensioning
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light
- Work light
- Out of stock switch
- Variable vise pressure

### OPTIONAL FEATURES

- Blade deviation monitor
- Chip bucket
- Remote console
- Mist lubrication
- Outboard vise clamping options available upon request
- Vertical rollers
- Idler & powered conveyors

# M-20A - 120

## 120" BAR FEED

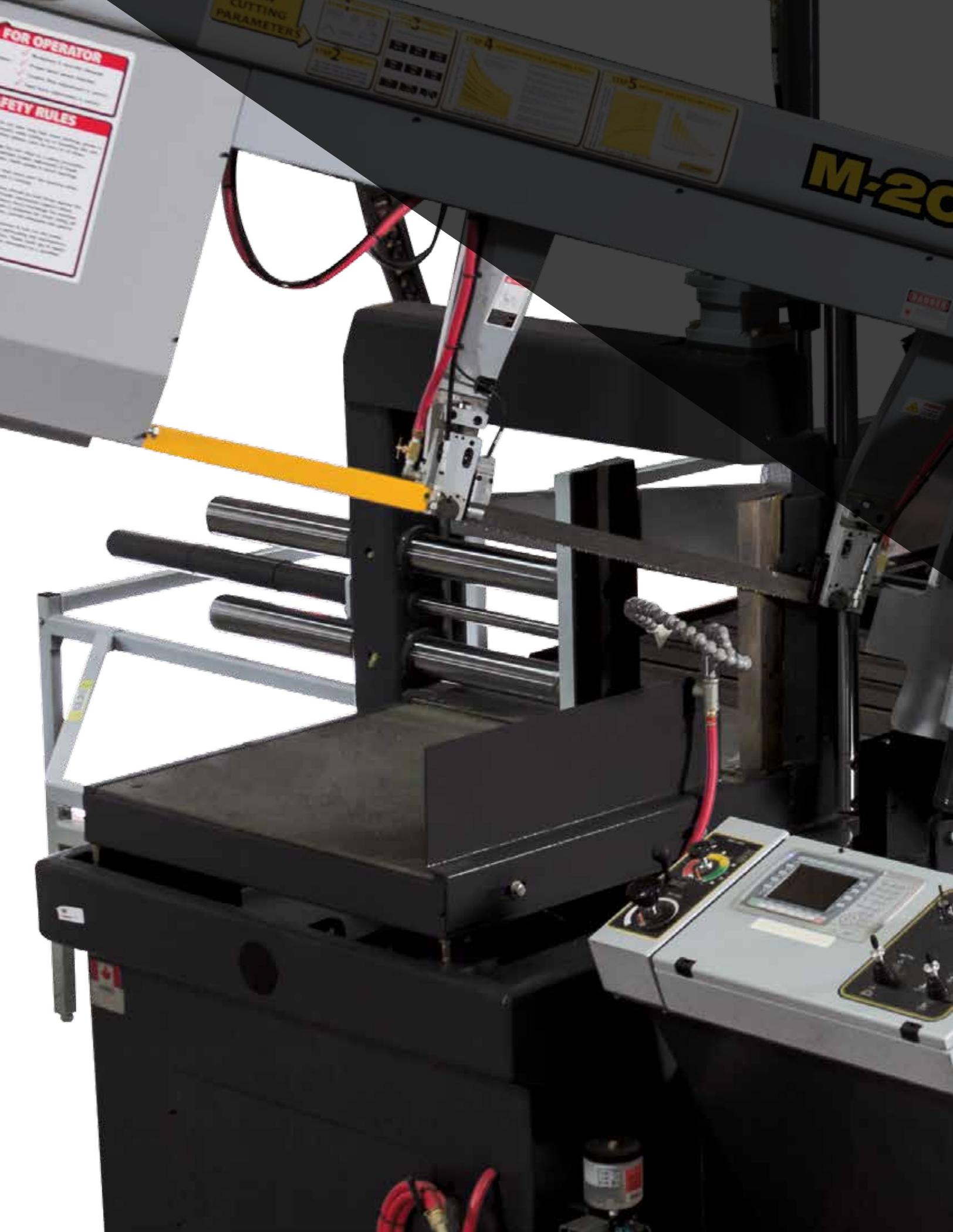
Fast shuttle vise is capable of indexing up to 120" in a single stroke. Shuttle carriage moves on linear rails and is driven by rack & pinion mounted gear reducer/servo motor assembly.

## HYDRAULIC OVERHEAD BUNDLING

Moves down on the material from above. Timed with the opening and closing of the side vise, it is very effective and necessary for bundle cutting various material shapes & sizes.



Photos may show optional equipment.



**FOR OPERATOR**

**SAFETY RULES**

- 1. Read the manual before operating the machine.
- 2. Do not touch the moving parts of the machine.
- 3. Do not touch the hot parts of the machine.
- 4. Do not touch the electrical parts of the machine.
- 5. Do not touch the gas lines of the machine.
- 6. Do not touch the oxygen lines of the machine.
- 7. Do not touch the acetylene lines of the machine.
- 8. Do not touch the welding torch.
- 9. Do not touch the electrode holder.
- 10. Do not touch the workpiece.

SETTING PARAMETERS

STEP 1

1	2	3	4	5
0000	0000	0000	0000	0000
0000	0000	0000	0000	0000

STEP 2

STEP 4

STEP 5

**M-20**

SAFETY

SAFETY

SAFETY

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SAFETY

# SPECIFICATIONS

		S-20	S-20P	S-20A	S-23P
Rectangular Capacity (h x w)	90°	13" x 18" / 330 mm x 457 mm	13" x 18" / 330 mm x 457 mm	13" x 18" / 330 mm x 457 mm	16" x 20" / 406 mm x 508 mm
	45°	13" x 10 3/4" / 330 mm x 273 mm	13" x 10 3/4" / 330 mm x 273 mm	13" x 10 3/4" / 330 mm x 273 mm	16" x 14" / 406 mm x 355 mm
	30°	13" x 7 3/4" / 330 mm x 197 mm	13" x 7 3/4" / 330 mm x 197 mm	13" x 7 3/4" / 330 mm x 197 mm	16" x 9 1/2" / 406 mm x 241 mm
Round Capacity	90°	13" / 330 mm	13" / 330 mm	13" / 330 mm	16" / 406 mm
	45°	12" / 304 mm	12" / 304 mm	12" / 304 mm	14" / 355 mm
	30°	8 1/2" / 216 mm	8 1/2" / 216 mm	8 1/2" / 216 mm	9 1/2" / 241 mm
Blade Drive	3 HP VFD / 2.2 kW VFD		3 HP VFD / 2.2 kW VFD	5 HP VFD / 3.7 kW VFD	8.8 HP VFD / 6.6 kW VFD
Blade Speed	45-330 SFM / 14-101 MPM		45-330 SFM / 14-101 MPM	75-350 SFM / 23-107 MPM	75-350 SFM / 23-107 MPM
Blade Size	1" x 14' 10" / 25.4 mm x 4521.2 mm		1" x 14' 10" / 25.4 mm x 4521.2 mm	1" x 14' 10" / 25.4 mm x 4521.2 mm	1 1/4" x 16' 10" / 31.7 mm x 5130.8 mm
Coolant Tank Capacity	6 Gal. / 23 ltr		6 Gal. / 23 ltr	12 Gal. / 45 ltr	9 Gal. / 34 ltr
Table Height	31" / 787 mm		31" / 787 mm	31" / 787 mm	33" / 838 mm
Voltages Available	208, 240, 480, 575 v		208, 240, 480, 575 v	208, 240, 480, 575 v	208, 240, 480, 575 v
Weight	2,200 lbs. / 998 kg		2,500 lbs. / 1134 kg	3,800 lbs. / 1724 kg	2,900 lbs. / 1315 kg
Dimensions	Width	92" / 2337 mm	92" / 2337 mm	93" / 2362 mm	96" / 2438 mm
	Length	75" / 1905 mm	75" / 1905 mm	86" / 2184 mm	80" / 2032 mm
	Height	52" / 1320 mm	52" / 1320 mm	52" / 1320 mm	56" / 1422 mm
		S-23A	M-16A	M-20A	M-20A-120
Rectangular Capacity (h x w)	90°	16" x 20" / 406 mm x 508 mm	16" x 25" / 406 mm x 635 mm	20" x 30" / 508 mm x 762 mm	20" x 30" / 508 mm x 762 mm
	45°	16" x 14" / 406 mm x 355 mm	16" x 15" / 406 mm x 381 mm	20" x 19" / 508 mm x 482 mm	20" x 19" / 508 mm x 482 mm
	30°	16" x 8 1/2" / 406 mm x 215 mm	16" x 9" / 406 mm x 228 mm	20" x 12" / 508 mm x 304 mm	20" x 12" / 508 mm x 304 mm
Round Capacity	90°	16" / 406 mm	16" / 406 mm	20" / 508 mm	20" / 508 mm
	45°	14" / 355 mm	16" / 406 mm	20" / 508 mm	20" / 508 mm
	30°	8 1/2" / 215 mm	11" / 280 mm	14" / 355 mm	14" / 355 mm
Blade Drive	8.8 HP VFD / 6.6 kW VFD		7.5 HP VFD / 5.5 kW VFD	10 HP VFD / 7.4 kW VFD	10 HP VFD / 7.4 kW VFD
Blade Speed	75-350 SFM / 23-107 MPM		50-350 SFM / 15-107 MPM	50-350 SFM / 15-107 MPM	50-350 SFM / 15-107 MPM
Blade Size	1 1/4" x 16' 10" / 31.7 mm x 5130.8 mm		1 1/4" x 18' 6" / 31.7 mm x 5638.8 mm	1 1/2" x 20' 6" / 38.1 mm x 6248.4 mm	1 1/2" x 20' 6" / 38.1 mm x 6248.4 mm
Coolant Tank Capacity	12 Gal. / 45 ltr		9 Gal. / 34 ltr	9 Gal. / 34 ltr	9 Gal. / 34 ltr
Table Height	33" / 838 mm		32" / 812 mm	32" / 812 mm	35" / 889 mm
Voltages Available	208, 240, 480, 575 v		208, 240, 480, 575 v	208, 240, 480, 575 v	240, 480 v (208, 575 v nc trans)
Weight	4,200 lbs. / 1905 kg		7,400 lbs. / 3357 kg	7,700 lbs. / 3493 kg	12,700 lbs. / 5761 kg
Dimensions	Width	101" / 2565 mm	132" / 3352 mm	129" / 3276 mm	129" / 3276 mm
	Length	95" / 2413 mm	90" / 2286 mm	90" / 2286 mm	210" / 5334 mm
	Height	61" / 1549 mm	66" / 1676 mm	110" / 2794 mm	110" / 2794 mm

In line with HYDMECH's policy of on-going product improvement, we reserve the right to modify features and specifications.

# HORIZONTAL BAND SAWS



**HYDMECH**

# H-230A

## SPLIT FRONT VISE

Provides material clamping on both sides of the blade resulting in short 4" material remnant length during automatic operation.

## AUTOMATIC PLC CONTROL

Windows touch screen controller operates the automatic cycle but allows for manual operation as well. A variety of languages can be chosen for message screen display.



Photos may show optional equipment.



## STANDARD FEATURES

- Heavy duty cast iron saw head
- Split front vise allows for short 4" remnant length
- Cast iron shuttle features automatic multi-indexing up to 19" in a single stroke with automatic kerf compensation. Powered by ball screw and stepper motor.
- On-demand hydraulics
- Steel guide arms. The idler side guide arm is mechanically connected to the front vise moveable jaw for proper guide arm spacing at all times.
- Variable vise pressure
- 3 HP VFD. True direct blade drive - no belts/pulleys
- Full capacity, full stroking hydraulic vises
- Hydraulic positive down feed
- Blade chamber separates material from cut part
- Cast iron band wheels
- Automatic PLC, touch screen control programmable up to 10 jobs with 5 in queue
- Replaceable blade brush
- Robust steel base
- Automatic chip removal auger
- Blade breakage switch
- Easy access electrical panel and hydraulics
- Designed for safety with saw-in-a-box style
- Out of stock switch
- Mechanical band tensioning with digital readout
- Replaceable carbide guide inserts
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light & Work light

## OPTIONAL FEATURES

- Full capacity hydraulic OH bundling
- Mist lubrication
- Idler & powered conveyors
- Idler conveyor & accessories



## OPTIONAL FEATURES

- Chip bucket with pump
- Hydraulic overhead bundling
- Mist lubrication
- Variable vise pressure
- Out feed vise
- Right side infeed shuttle
- 10' shuttle infeed
- Idler conveyors
- Powered conveyors

# LONG BAR FEED

## HORIZONTAL MODELS AVAILABLE WITH LONG BAR FEEDS:

- H-18A
- H-22A
- H-28A

## SHUTTLE VISE ASSEMBLY

Capable of indexing speeds up to 5 to 6"/sec with weight capacities up to 10,000lbs. Shuttle up to 120" in a single stroke with repeatability accuracy of +/- .010 per shuttle stroke. Shuttle carriage moves on linear bearings and is driven by rack & pinion mounted gear-reducer/servo 5 Hp motor assembly



Photos may show optional equipment.

# H-40/40,

## FULL CAPACITY HYDRUALIC VISES

Full capacity, full stroking hydraulic vises with replaceable wear strips provide for efficient vise loading with minimal material vibration.

## BUILT IN POWERED ROLLERS

8' of powered rollers, controlled by a variable frequency drive, are built into the bed of the machine for ease of material movement through the saw.



Photos may show optional equipment.

# H-40/60, H-40/80



## STANDARD FEATURES

- Dual pots horizontal band saws
- One piece design - no alignment necessary
- 8' of powered rollers built into the bed of the machine
- Cast iron guide arms.
- 20 HP VFD. True direct blade drive - no belts/pulleys
- Full capacity hydraulic vises
- Cast iron band wheels
- User friendly operator control
- Replaceable blade brush
- Robust steel base
- Automatic chip removal auger
- Easy access electrical panel and hydraulics
- Blade breakage switch
- Hydraulic band tensioning with digital readout
- 5 HP hydraulic pump provides system pressure
- Replaceable carbide guide inserts
- Hardened, replaceable wear plates
- Safety door interlocks
- Flood coolant with wash down hose
- Work light
- Laser light

## OPTIONAL FEATURES

- Outboard vise
- Powered conveyors



## STANDARD FEATURES

- Heavy duty cast iron saw head
- Split front vise allows for short 1.8" remnant length
- Fabricated shuttle features automatic multi-indexing up to 23" in a single stroke. Powered by ball screw and stepper motor.
- On-demand hydraulics save energy
- Steel guide arms mounted on linear rails are auto adjustable.
- 6 HP VFD. True direct blade drive - no belts/pulleys
- Full capacity, full stroking hydraulic vises
- Hydraulic positive down feed
- Blade chamber separates material from cut part
- Cast iron band wheels
- Automatic PLC, touch screen control programmable up to 100 jobs with 20 in queue.
- Replaceable blade brush
- Robust steel base
- Automatic chip removal auger

- Easy access electrical panel and hydraulics
- Blade breakage switch
- Designed for safety with saw-in-a-box style
- Out of stock switch
- Mechanical band tensioning with digital readout
- Replaceable carbide guide inserts
- Safety door interlocks with RFID technology
- Flood coolant with wash down hose
- Laser light & work LED light

## OPTIONAL FEATURES

- Reversible chip auger
- Mist lubrication
- Variable vise pressure
- Vertical rollers
- Blade deviation monitor
- Idler & powered conveyors

# H-320A

## EASY ACCESS HYDRAULICS

A 1.7 HP hydraulic pump supplies system pressure which controls all vises and head up/down movement, Easy access for minimal downtime.

## BALL SCREW BAR FEED SYSTEM

Improve cycle time! Automatic material indexing up to 23" in a single stroke. The shuttle vise is powered by a ball screw and stepper motor for fast, accurate indexing.



Photos may show optional equipment.

# H-14A

## TOUCH SCREEN CONTROL

Automatic mode: displays blade speed, blade tension part length, quantity required, and piece count, job run time, total blade run time Machine will shut down when the required number of pieces have been cut.

## OPTIONAL OVERHEAD BUNDLING

A hydraulically powered overhead clamp moves down on the material. This option is very effective, and necessary for bundle cutting various material shapes & sizes.



Photos may show optional equipment.



## STANDARD FEATURES

- Heavy duty cast iron saw head
- Spilt front vise allows for short 4.7" remnant length
- Cast iron shuttle features automatic multi-indexing up to 24" in a single stroke with automatic kerf compensation. Powered by ball screw and stepper motor.
- On-demand hydraulics save energy
- Steel guide arms mounted on linear rails. Hydraulically powered idler side guide arm is adjustable for proper spacing.
- 8.8 HP VFD. True direct blade drive - no belts/pulleys
- Full capacity, full stroking hydraulic vises
- Hydraulic positive down feed
- Blade chamber separates material from cut part
- Cast iron band wheels
- Swing away automatic PLC, touch screen control programmable up to 100 jobs with 20 in queue.
- Replaceable blade brush

- Robust steel base
- Automatic chip removal conveyor
- Easy access electrical panel and hydraulics
- Blade breakage switch
- Blade deviation monitor
- Out of stock switch
- Electronic band tensioning with digital readout
- Replaceable carbide guide inserts
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light & work light

## OPTIONAL FEATURES

- Full capacity hydraulic OH bundling
- Mist lubrication
- Variable vise pressure
- Vertical rollers
- Short remnant of 0.98"
- Idler & powered conveyors



## STANDARD FEATURES

- 12° canted head
- Built to withstand heavy fabricating environments
- One piece design - no alignment necessary
- Steel guide arms
- Hydraulic positive down feed
- 20 HP VFD. True direct blade drive - no belts/pulleys
- Full capacity, full stroking hydraulic vises
- Cast iron band wheels
- Semi-automatic PLC control
- High resolution feed rate valve allows for constant feed rate when cutting special alloys
- Replaceable blade brush
- Robust steel base
- Automatic chip removal auger

- Easy access electrical panel and hydraulics
- Blade breakage switch
- Hydraulic band tensioning with digital readout
- Hydraulic carbide guide tensioning
- Hardened, replaceable wear plates
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light

## OPTIONAL FEATURES

- Hydraulic overhead clamp
- Pedestal control
- Mist lubrication
- Outboard vise
- Vertical rollers
- Idler & powered conveyors

# H-26/42

## OPTIONAL MIST LUBRICATION

An alternative to the standard flood coolant system, mist lubrication is an air mist system providing blade lubrication and cooling. No recovery is required as the mist evaporates.

## AUTOMATIC CHIP REMOVAL AUGER

Built into the base of most H Series saws, an auger screw pulls chips from the base and discharges at side of the machine for easy clean up.



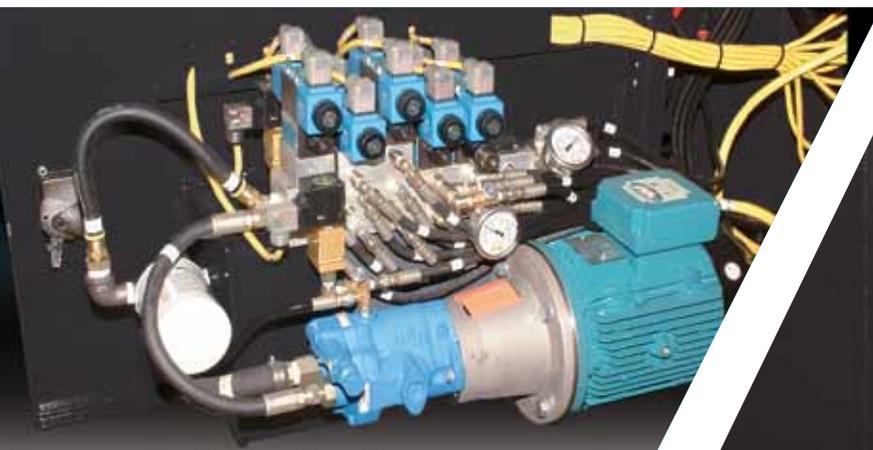
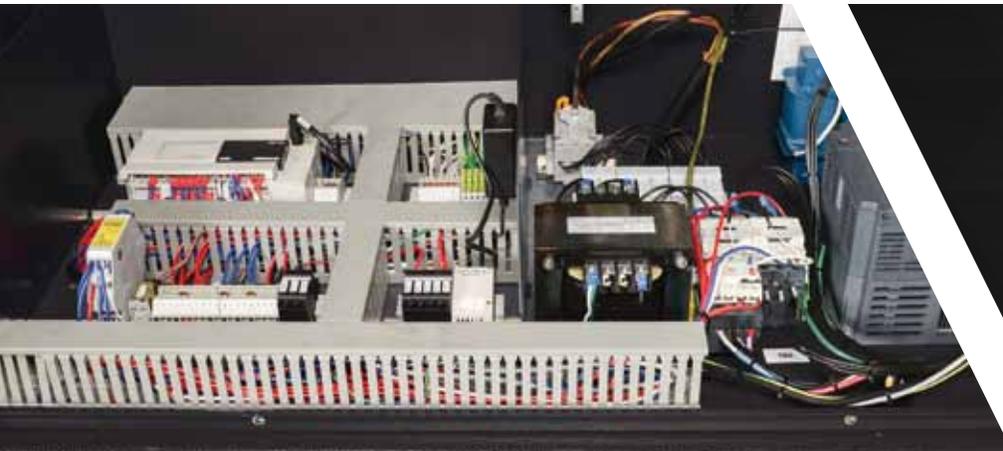
Photos may show optional equipment.



# H-32A

## VARIABLE VISE PRESSURE

This option provides vise pressure adjustment, on both vises, when thin wall tubing and other light materials are being cut. The feature minimizes the potential for deformation of the material.



Photos may show optional equipment.



## STANDARD FEATURES

- One piece design - no alignment necessary
- Split front vise allows for short remnant length
- Cast iron shuttle features automatic multi-indexing up to 32" in a single stroke with automatic kerf compensation.
- Steel guide arms. The idler side guide arm is mechanically connected to the front vise moveable jaw for proper guide arm spacing
- Hydraulic positive down feed
- Cast iron band wheels
- Automatic chip removal auger
- 20 HP VFD. True direct blade drive
- Full capacity, full stroking hydraulic vises
- High resolution feed rate valve allows for constant feed rate when cutting special alloys
- Blade chamber separates material from cut part
- Automatic PLC control programmable up to 99 jobs with 5 in queue.
- Replaceable blade brush
- Robust steel base
- Blade breakage switch
- Easy access electrical panel and hydraulics

- Hydraulic band tensioning with digital readout
- 5 HP hydraulic pump system pressure
- Hydraulic carbide guide tensioning
- Hardened, replaceable wear plates
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light & work light

## OPTIONAL FEATURES

- Full capacity hydraulic overhead bundling
- Variable vise pressure
- 6 degree canted head
- Blade deviation
- Mist lubrication
- Out of stock switch
- Outboard vise
- Outboard vise/w bund.
- Pedestal control
- Roller discharge table
- Vertical alignment rollers
- Idler conveyors
- Powered conveyors



## STANDARD FEATURES

- The best Cost Per Cut Performance in its Class
- Spilt front vise allows for short remnant length
- Cast iron shuttle features automatic multi-indexing up to 34" in a single stroke with automatic kerf compensation.
- Steel guide arms. The idler side guide arm is mechanically connected to the front vise moveable jaw for proper guide arm spacing at all times.
- 10 HP VFD. True direct blade drive
- Full capacity, full stroking hydraulic vises
- Hydraulic positive down feed
- High resolution feed rate valve allows for constant feed rate when cutting special alloys
- Blade chamber separates material from cut part
- Cast iron band wheels
- Automatic PLC control programmable up to 99 jobs with 5 in queue.
- Replaceable blade brush
- Robust steel base
- Automatic chip removal auger

- Blade breakage switch
- Hydraulic band tensioning with digital readout
- Hydraulic carbide guide tensioning
- Hardened, replaceable wear plates
- Safety door interlocks
- Flood coolant with wash down hose
- Work light

## OPTIONAL FEATURES

- Full capacity hydraulic overhead bundling
- Variable vise pressure
- Blade deviation monitor
- Mist lubrication
- Out of stock switch
- Vertical alignment rollers
- Pedestal Control
- Laser light
- Roller discharge table
- Idler & powered conveyors

# H-18A

## STEEL GUIDE ARMS WITH HYDRAULIC BLADE GUIDES

The idler side guide arm is mechanically connected to the front vise moveable jaw and moves in tandem with the opening and closing of the vise, ensuring proper positioning of the guide arm spacing,

## 10 HP DIRECT BLADE DRIVE

Powerful gearbox and motor assembly with a variable frequency drive system. A wide range of available band speeds allows for efficient cutting of many types of material.



Photos may show optional equipment.

# H-22A

## HYDRAULIC SYSTEM

Swing open hydraulics control both main and shuttle vise, saw stroke, and blade tensioning. Easy view system pressure monitor with easy access, swing out compartment door.



Photos may show optional equipment.



Shown with optional canted head.

## STANDARD FEATURES

- One piece design - no alignment necessary
- Split front vise allows for short remnant length
- Shuttle features automatic multi-indexing up to 34" in a single stroke with automatic kerf compensation.
- Steel guide arms. The idler side guide arm is mechanically connected to the front vise moveable jaw for proper guide arm spacing at all times.
- Hydraulic positive down feed
- Blade chamber separates material from cut part
- 10 HP VFD. True direct blade drive - no belts/pulleys Full capacity, full stroking hydraulic vises
- High resolution feed rate valve allows for constant feed rate when cutting special alloys
- Cast iron band wheels
- Automatic PLC control programmable up to 99 jobs with 5 in queue.
- Replaceable blade brush
- Robust steel base
- Automatic chip removal auger
- Easy access electrical panel and hydraulics
- Blade breakage switch
- Hydraulic band tensioning with digital readout

- Hydraulic carbide guide tensioning
- Hardened, replaceable wear plates
- Safety door interlocks
- Flood coolant with wash down hose
- Work light

## OPTIONAL FEATURES

- Full capacity hydraulic overhead bundling
- Variable vise pressure
- 6 degree canted head
- Blade deviation
- Mist lubrication
- Out of stock switch
- Outboard vise
- Outboard vise/w bund.
- Pedestal control
- Roller discharge table
- Vertical alignment rollers
- Laser light
- Idler & powered conveyors
- Powered conveyors



Shown with optional canted head.

## STANDARD FEATURES

- Split front vise allows for short remnant length
- Shuttle features automatic multi-indexing up to 32" in a single stroke with automatic kerf compensation.
- Steel guide arms. The idler side guide arm is mechanically connected to the front vise moveable jaw for proper guide arm spacing at all times.
- Hydraulic positive down feed
- Blade chamber separates material from cut part
- 10 HP VFD. True direct blade drive - no belts/pulleys Full capacity, full stroking hydraulic vises
- High resolution feed rate valve allows for constant feed rate when cutting special alloys
- Cast iron band wheels
- Automatic PLC control programmable up to 99 jobs with 5 in queue.
- Replaceable blade brush
- Robust steel base
- Automatic chip removal auger
- Easy access electrical panel and hydraulics
- Blade breakage switch
- Hydraulic band tensioning with digital readout
- 5 HP hydraulic pump provides system pressure

- Hydraulic carbide guide tensioning
- Hardened, replaceable wear plates
- Safety door interlocks
- Flood coolant with wash down hose
- Work light

## OPTIONAL FEATURES

- Full capacity hydraulic overhead bundling
- Variable vise pressure
- 6 degree canted head
- Blade deviation
- Mist lubrication
- Out of stock switch
- Outboard vise
- Outboard vise/w bund.
- Pedestal control
- Roller discharge table
- Vertical alignment rollers
- Laser light
- Idler conveyors
- Powered conveyors

# H-28A

## SPLIT FRONT VISE

Provides material clamping on both sides of the blade resulting in short material remnant length during automatic operation.



\*Machine photo does not show split front vise.

Photos may show optional equipment.



**SAW CUTTING**

**STEP 1**

**STEP 2**

**STEP 3**

**STEP 4**

100	200	300	400
100	200	300	400
100	200	300	400
100	200	300	400

# SPECIFICATIONS

		H-230A	H-320A	H-14A	H-18A
Rectangular Capacity (h x w)	90°	9" x 9" / 228 mm x 228 mm	12.6" x 13.5" / 280 mm x 343 mm	14" x 14" / 357 mm x 357 mm	18" x 18" / 457 mm x 457 mm
Round Capacity	90°	9" / 228 mm	12.6" / 280 mm	14" / 357 mm	18" / 457 mm x 457 mm
Blade Drive		3 HP VFD / 2.2 kW VFD	6 HP VFD / 4.4 kW VFD	8.8 HP VFD / 6.5 kW VFD	10 HP VFD / 7.4 kW VFD
Blade Speed		50-350 SFM / 15-107 MPM	49-380 SFM / 15-116 MPM	49-380 SFM / 15-116 MPM	50-350 SFM / 15-107 MPM
Blade Size		1" x 9' 9" / 25.4 mm x 2972 mm	1 1/4" x 14' 9" / 31.7 mm x 4496 mm	1 1/4" x 15' 2" / 31.7 mm x 4623 mm	1 1/2" x 19' 2" / 38.1 mm x 5842 mm
Automatic Multi-Indexing		0-19" / 0-482 mm	0-23" / 0-584 mm	0-24" / 0-600 mm	0-34" / 0-863 mm
Table Height		31" / 787 mm	34" / 864 mm	34" / 863 mm	31" / 787 mm
Voltages Available		240 or 480 v	240 or 480 v	240 or 480 v	208, 240, 480, 575 v
Weight		2,200 lbs. / 998 kg	4,400 lbs. / 1996 kg	6,172 lbs. / 2799 kg	8,500 lbs. / 3855 kg
Dimensions	Width	61" / 1549 mm	106" / 2692 mm	88" / 2235 mm	127" / 3225 mm
	Length	63" / 1600 mm	71" / 1803 mm	63" / 1600 mm	88" / 2235 mm
	Height	67" / 1702 mm	80" / 2032 mm	78" / 1981 mm	92" / 2336 mm
		H-22A	H-28A	H-32A	H-26/42
Rectangular Capacity (h x w)	90°	22" x 22" / 559 mm x 559 mm Canted: 20" x 22" / Canted: 508 mm x 559 mm	28" x 28" / 711 mm x 711 mm Canted: 24" x 28" / Canted: 610 mm x 711 mm	32" x 32" / 813 mm x 813 mm Canted: 28" x 32" / Canted: 711 mm x 813 mm	26" x 42" / 660 mm x 1067 mm
Round Capacity	90°	22" / 559 mm Canted: 20" / Canted: 508 mm	28" / 711 mm Canted: 24" / Canted: 610 mm	32" / 813 mm Canted: 28" / Canted: 711 mm	32" / 813 mm
Blade Drive		10 HP VFD / 7.4 kW VFD	10 HP VFD / 7.4 kW VFD	20 HP VFD / 14.7 kW VFD	20 HP VFD / 14.7 kW VFD
Blade Speed		40-300 SFM / 12-91 MPM	40-300 SFM / 12-91 MPM	40-300 SFM / 12-91 MPM	75-300 SFM / 23-91 MPM
Blade Size		2" x 22' 6" / 50.8 mm x 6858 mm	2" x 25' / 50.8 mm x 7620 mm	2 5/8" x 30' 4" / 66.7 mm x 9245.6 mm	2 5/8" x 33' / 66.7 mm x 10058.4 mm
Automatic Multi-Indexing		0-34" / 0-864 mm	0-32" / 0-813 mm	0-32" / 0-813 mm	n/a
Table Height		31" Canted: 35" / 787 mm Canted: 889 mm	31" Canted: 37" / 787 mm Canted: 940 mm	31" Canted: 37" / 787 mm Canted: 940 mm	38" / 965 mm
Voltages Available		208, 240, 480, 575 v	480 v (208, 240, 575*)	480 v (208, 240, 575*)	480 v (208, 240, 575*)
Weight		12,500 lbs. / 5670 kg	18,000 lbs. / 8165 kg	19,500 lbs. / 8845 kg	21,000 lbs. / 9525 kg
Dimensions	Width	141" / 3581 mm	161" / 4089 mm	182" / 4623 mm	217" / 5512 mm
	Length	88" / 2235 mm	92" / 2337 mm	92" / 2337 mm	82" / 2083 mm
	Height	92" / 2337 mm	120" / 3048 mm	120" / 3048 mm	137" / 3480 mm
		H-40/40	H-40/60	H-40/80	
Rectangular Capacity (h x w)	90°	40" x 40" / 1016 mm x 1016 mm	40" x 60" / 1016 mm x 1524 mm	40" x 80"	*Transformer supplied at no charge
Round Capacity	90°	40" / 1016 mm	40" / 1016 mm	40" / 1016 mm	The following models are available with a long bar feed:
Blade Drive		20 HP VFD / 14.7 kW VFD	20 HP VFD / 14.7 kW VFD	20 HP VFD / 14.7 kW VFD	• H-18A
Blade Speed		45-225 SFM / 14-69 MPM	45-225 SFM / 14-69 MPM	45-225 SFM / 14-69 MPM	• H-22A
Blade Size		3" x 37' / 76.2 mm x 11277.6 mm	3" x 40' 4" / 76.2 mm x 12293.6 mm	3" x 43' 10" / 76.2 mm x 13360.4 mm	• H-28A
Table Height		27" / 686 mm	27" / 686 mm	27" / 686 mm	
Voltages Available		480 v (208, 240, 575*)	480 v (208, 240, 575*)	480 v (208, 240, 575*)	
Weight		42,000 lbs. / 19,051 kg	45,000 lbs. / 19,051 kg	52,000 lbs. / 23,587 kg	
Dimensions	Width	215" / 5461 mm	235" / 5969 mm	255" / 6477 mm	
	Length	102" / 2591 mm	102" / 2591 mm	102" / 2591 mm	
	Height	145" / 3683 mm	145" / 3683 mm	145" / 3683 mm	

In line with HYDMECH's policy of on-going product improvement, we reserve the right to modify features and specifications.



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Dealer Information: