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Dealer Information:

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We are a full-service distributor of Hydmech saws and other fabricating equipment with over 53 years of both sales and service experience.
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HORIZONTAL PIVOT STYLE BAND SAWS



HYDMECH

S-20

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.

CAST IRON SAW HEAD

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

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:

- 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.

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

- 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 jogging 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

- 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 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

- 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 $\pm .005$ " per stroke.

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

The infeed rollers are $2 \frac{5}{16}$ " 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

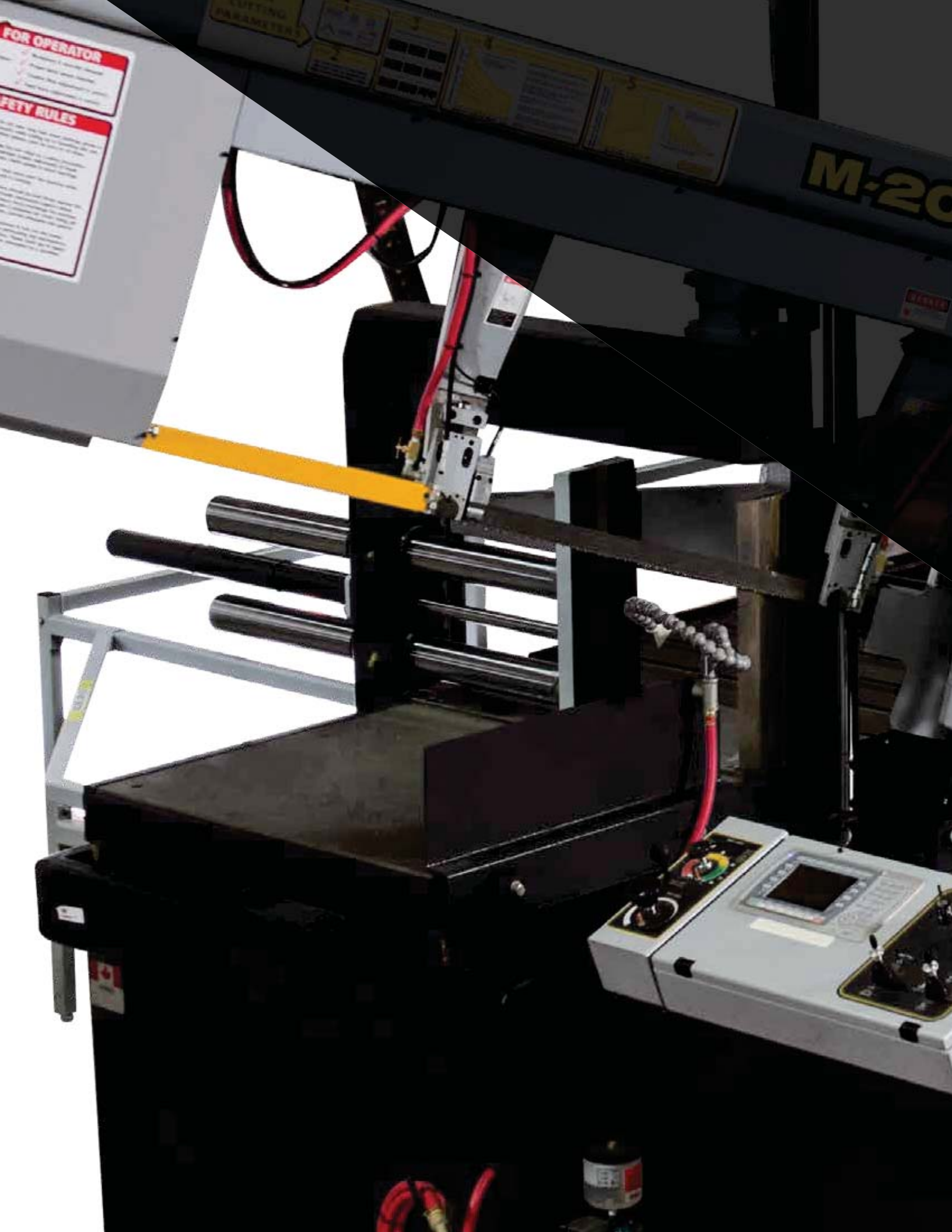
Provides vise pressure adjustment on both vises when thin wall tubing and other light material are being cut. This minimizes application deformation potential.

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.



FOR OPERATOR

SAFETY RULES

1. Read the instruction manual before operating the machine.

2. Do not touch the moving parts of the machine.

3. Do not touch the electrical components of the machine.

4. Do not touch the welding torch or the workpiece while the machine is operating.

5. Do not touch the machine while it is powered on.

6. Do not touch the machine while it is hot.

7. Do not touch the machine while it is under repair.

8. Do not touch the machine while it is being moved.

9. Do not touch the machine while it is being stored.

10. Do not touch the machine while it is being transported.

M-20

Control panel with a digital display and various buttons.

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	101" / 2565 mm
	Length	75" / 1905 mm	75" / 1905 mm	86" / 2184 mm	80" / 2032 mm
	Height	52" / 1320 mm	52" / 1320 mm	52" / 1320 mm	61" / 1550 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.