



VERTICAL BAND SAWS

HYDMECH

VW-18

Photos may show optional equipment.



OPTIONAL POWER TILT

Allows the operator to enter a desired angle up to 60° in either direction and have the machine automatically move the head to that angle. This option features an upgraded control, as pictured below.

ADJUSTABLE CANTED HEAD

The machine is capable of cutting with the saw head at 90° or with a 3° cant. Minimizes chip load resulting in a more efficient, quicker cut and longer blade life.



STANDARD FEATURES

- Adjustable 3° canted head
- Semi-automatic control
- Two full stroking hydraulic vises
- Manual precise head positioning from 60° left to 60° right
- Digital angle display
- Mechanically adjustable idler side guide arm
- On-demand hydraulics save energy
- 5 HP VFD. True direct blade drive
- Hydraulic positive down feed
- Cast iron band wheels
- Replaceable blade brush
- Robust steel base
- Easy access electrical panel and hydraulics
- Blade breakage switch
- Mechanical band tensioning with digital readout
- Replaceable carbide guide inserts
- 0.5 HP hydraulic pump provides

- system pressure
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light and work light

OPTIONAL FEATURES

- Power tilt
- Chip bucket
- Hydraulic overhead bundling
- Mist lubrication
- Work stop
- Tall square vise inserts
- Variable vise pressure
- Power transformer
- Idler conveyors



STANDARD FEATURES

- Two full stroking hydraulic vises
- Select left or right side control panel
- Hydraulically powered idler side guide arm
- Hydraulic overhead bundling
- 7.5 HP VFD. True direct blade drive - no belts/pulleys
- Drag chain chip conveyor
- Hydraulic positive down feed
- Cast iron band wheels
- Replaceable blade brush
- Robust steel base
- Easy access electrical panel and hydraulics
- Blade breakage switch
- Hydraulic band tensioning with digital readout
- Replaceable carbide guide inserts

- 2 HP hydraulic pump provides system pressure
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light and work light

OPTIONAL FEATURES

- Fixed 6° canted head
- Chip bucket
- Digital angle display
- Mist lubrication
- Non-driven pop-up lift roller
- Variable vise pressure
- Tall square vise inserts
- Hydraulic chip conveyor
- Idler & powered conveyors

V-18



ROBUST RIGID CONSTRUCTION

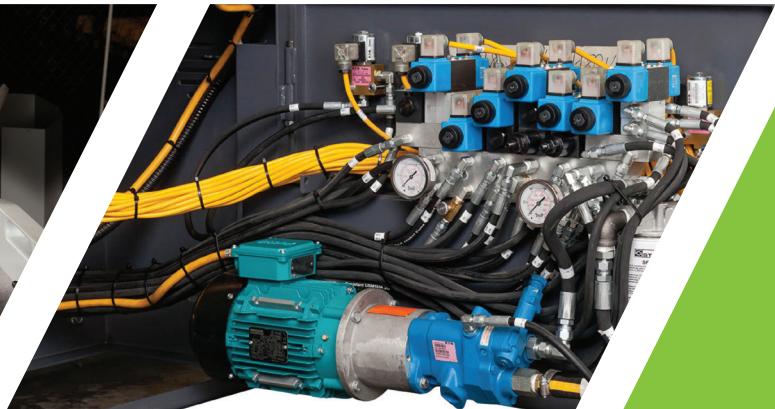
The saw head carriage is guided on heavy duty linear rails ensuring rigid and precise head travel, resulting in an accurate and smooth cutting action. The machine base is designed and produced with electro-welded steel components for max. Rigidity and support. The V-18 features high quality cast iron hardened wheels with heavy-duty wheel and gearbox shaft bearings.

EASY ACCESS HYDRAULICS

A 2 HP hydraulic pump supplies system pressure which controls all vising, head swing, head advance/retract, guide arm movement and blade tension functions. Easy access for minimal downtime.

OPTIONAL TALL SQUARE VISE INSERTS

Good for clamping rounds that are larger than 12"*
Second vise is standard! Note: reduces width capacity by 1/2" and limits saw to 90°



Photos may show optional equipment.

V-18APC

AUTOMATIC MULTI-INDEXING

Shuttle features automatic multi-indexing up to 40" in a single stroke with automatic kerf compensation. V-18APC can be built with a left or right side infeed at no additional charge.

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.

BLADE CHAMBER

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.



Photos may show optional equipment.



STANDARD FEATURES

- Automatic programmable mitering with “go to” angle functionality from 45° left to 45° right
- Two full stroking hydraulic vises and third squaring vise
- Automatic multi-indexing up to 40” in a single stroke.
- Hydraulically powered idler side guide arm
- Automatic PLC control programmable up to 99 jobs with 5 in queue
- 7.5 HP VFD. True direct blade drive - no belts/pulleys
- Drag chain chip conveyor
- Hydraulic positive down feed
- Blade chamber separates material from cut part
- Out of stock switch
- Cast iron band wheels
- Replaceable blade brush
- Robust steel base
- Easy access electrical panel and hydraulics
- Blade breakage switch
- You choose left or right side infeed
- Hydraulic band tensioning with digital readout
- Replaceable carbide guide inserts
- 2 HP hydraulic pump provides system pressure

- Safety door interlocks
- Flood coolant with wash down hose
- Laser light & work light

OPTIONAL FEATURES

- Fixed 6° canted head
- Chip bucket
- Hydraulic overhead bundling
- Mist lubrication
- Non-driven pop-up feed roller
- Variable vise pressure
- Tall square vise inserts
- Hydraulic chip conveyor
- Idler & powered conveyors



STANDARD FEATURES

- 4° canted head allows for efficient cutting and improved blade life
- Cast iron, torsion free saw head provides durability, stiffness, and absorbs vibrations
- On-demand hydraulics save energy
- High efficiency, constant torque electric ball screw feed system
- Automatic programmable mitering with “go to” angle functionality from 60° left to 60° right
- Semi-automatic touch screen NC controller
- Two full stroking hydraulic vises
- Electronic ball screw powered, guide arm
- 10 HP VFD. True direct blade drive – no belts/pulleys
- Cast iron band wheels
- Replaceable blade brush
- Robust steel base
- Variable vise pressure
- Easy access electrical panel and hydraulics

- Electric chip conveyor
- Blade breakage switch
- Electronic band tensioning provides consistent, automatic blade tension
- Replaceable carbide guide inserts
- 2 HP hydraulic pump provides system pressure
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light
- Work light

OPTIONAL FEATURES

- Hydraulic overhead bundling
- Mist lubrication
- Tall square vise inserts
- Pop up feed roller and table
- Idler conveyors
- Powered conveyors

V-20

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.

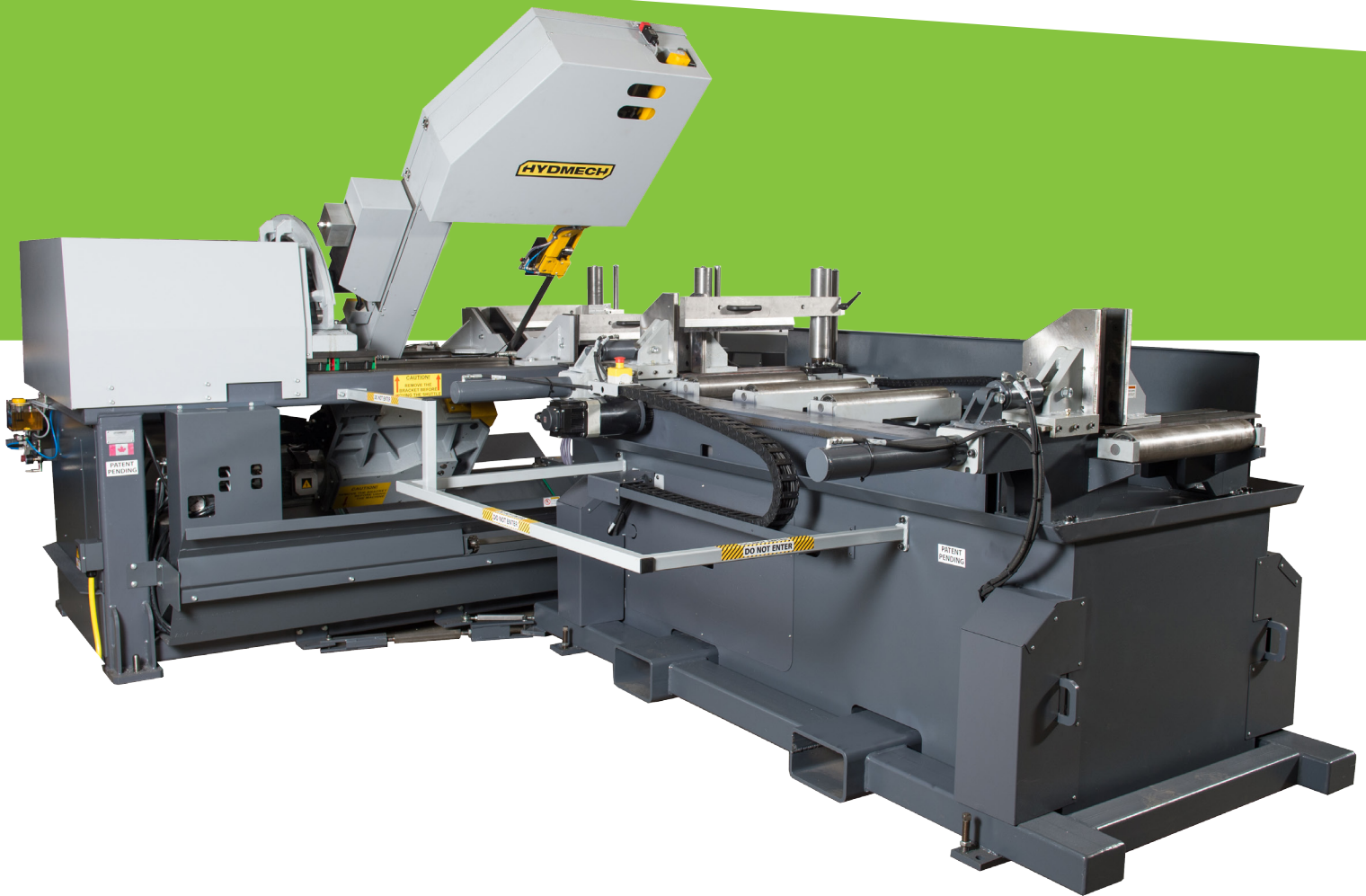
OPTIONAL OVERHEAD BUNDLING

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

EASY ACCESS ELECTRICAL PANEL

The electrical components are housed in a compartment on the front of the machine. Components are neatly laid out and labeled for easy troubleshooting.





STANDARD FEATURES

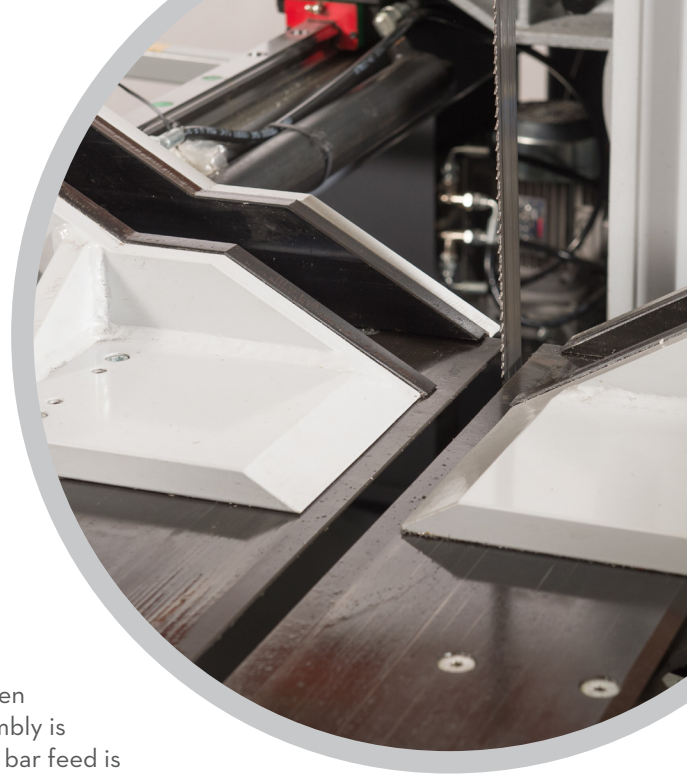
- 4° canted head allows for efficient cutting and improved blade life
- Cast iron, torsion free saw head provides durability, stiffness, and absorbs vibrations
- 60" bar feed, left side
- Shuttle features automatic multi-indexing up to 60" (120" optional) in a single stroke with automatic kerf compensation. Powered by a rack and pinion servo drive.
- On-demand hydraulics save energy
- High efficiency, constant torque electric ball screw feed system
- Automatic programmable mitering with "go to" angle functionality from 60° left to 60° right
- Automatic touch screen NC controller programmable up to 1000 jobs with 5 in queue
- Four full stroking hydraulic vises (includes 3rd holding vise)
- 10 HP VFD. True direct blade drive - no belts/pulleys or drive shaft
- Cast iron band wheels
- Replaceable blade brush
- Robust steel base

- Variable vise pressure
- Easy access electrical panel and hydraulics
- Third holding vise on infeed
- Electric chip conveyor Blade breakage switch
- Electronic band tensioning provides consistent, automatic blade tension through the cutting cycle
- Blade chamber separates material from cut part
- Replaceable carbide guide inserts
- 5 HP hydraulic pump provides system pressure
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light
- Work light

OPTIONAL FEATURES

- Hydraulic overhead bundling infeed and discharge
- Mist lubrication
- Blade deviation monitor
- Tall square vise inserts
- 10' shuttle infeed
- Right side shuttle infeed
- Chip bucket
- Idler conveyors and powered conveyors

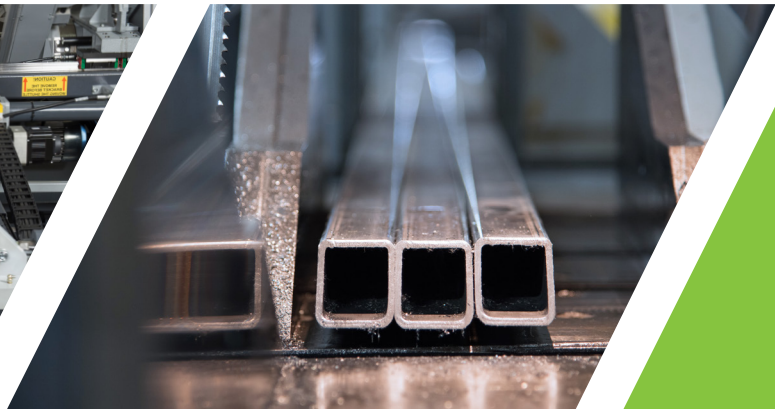
V-20APC



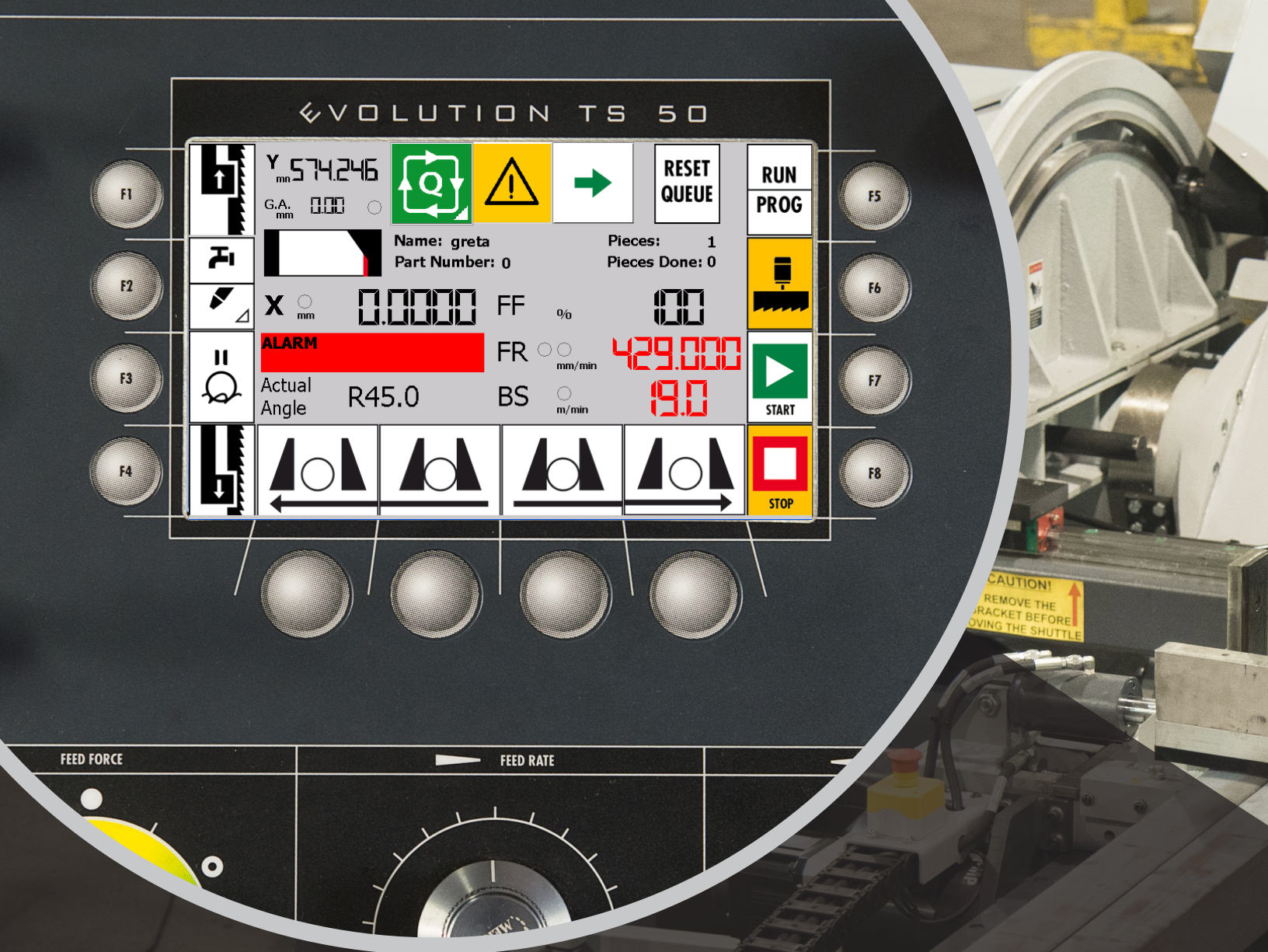
BAR FEED

The unique bar feed is specifically designed to minimize problems when shuttling crooked materials or banded bundles. The shuttle vise assembly is capable of indexing up to 60" or 120" (optional) in a single stroke. The bar feed is based upon a strongly framed conveyor with 10" deep side rails supported on front and rear legs. The front and rear leg lifts the side of the conveyor up above the saw table and away from the saw datum vise in a single motion. The degree of conveyor lift is limited by adjustable stops.

The shuttle vise travels on twin linear bearing rails mounted to the conveyor sides. The linear bearings are large and widely spaced to provide durability. The shuttle is driven by a rack and pinion system, minimizing problems from un-centered workloads. The shuttle vise and swing away overhead bundling clamps provided accessible top loading. Shuttle positioning is driven by a powerful servomotor, permitting fast, accurate and controlled movement, preventing slippage of oily work pieces.



Photos may show optional equipment.



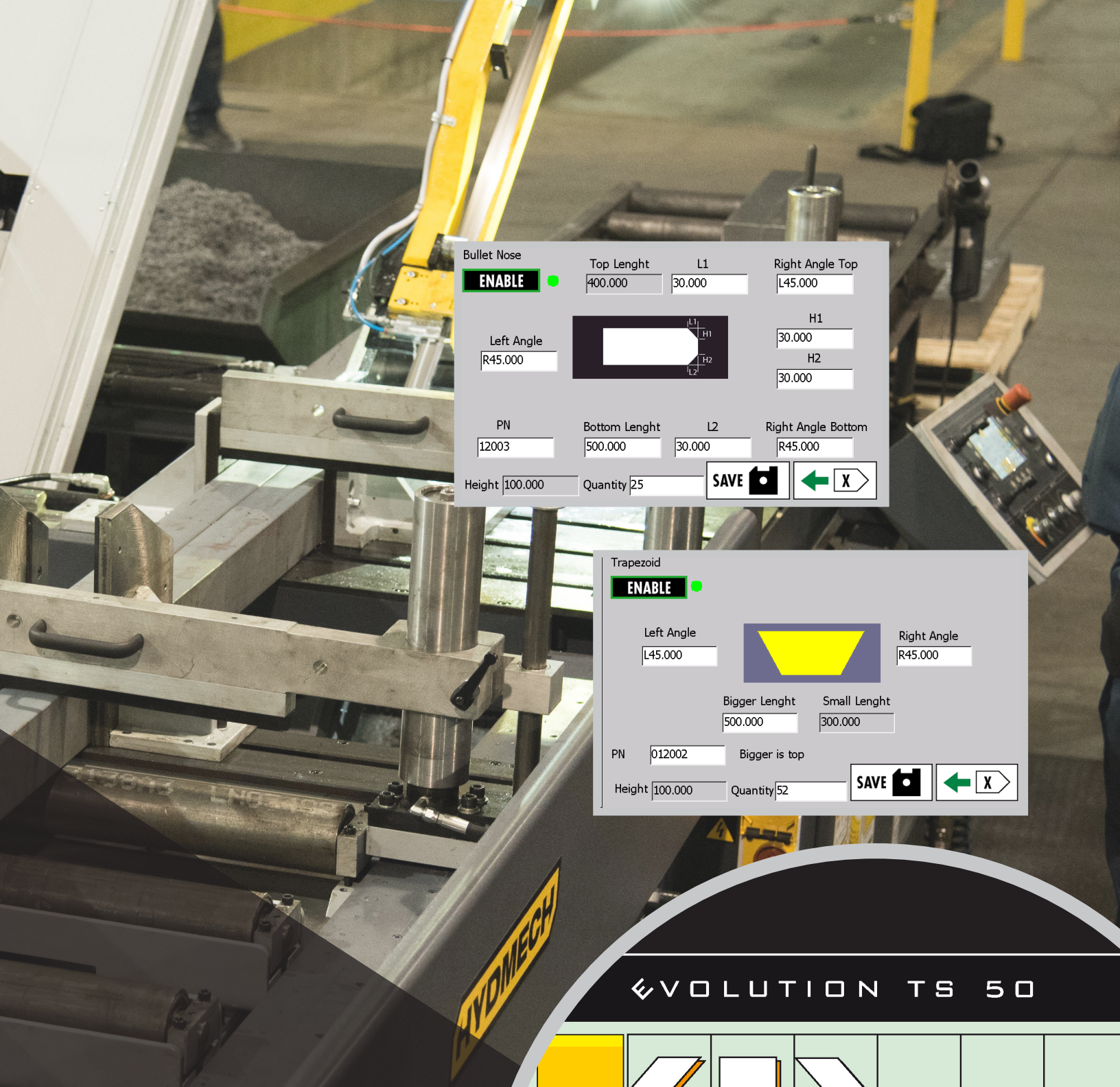
WINDOWS TOUCH SCREEN CONTROLLER (V-20 AND V-20APC)

Reduce training time and operator errors with the simple and intuitive Windows touch screen controller. Switch between many pre-programmed languages and between metric and imperial forms of measurement.

It's easy to operate the V-20APC with its icon driven interface. Pre-programmed sub routines are available to easily program bullet nose cuts and other shapes. This is done visually through the use of simple material icon or shape displayed on the control (pictured right).


This controller also features blade chamber functionality. 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.

The control panel is easily upgradable via a USB port on the front of the controller allowing the machine to stay up-to-date with minimal downtime.



Bullet Nose **ENABLE**


Top Length: 400.000 L1: 30.000 Right Angle Top: L45.000

Left Angle: R45.000  H1: 30.000 H2: 30.000

PN: 12003 Bottom Length: 500.000 L2: 30.000 Right Angle Bottom: R45.000

Height: 100.000 Quantity: 25

Trapezoid **ENABLE**

Left Angle: L45.000  Right Angle: R45.000

Bigger Length: 500.000 Small Length: 300.000

PN: 012002 Bigger is top













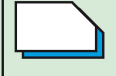


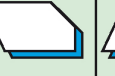


Height: 100.000 Quantity: 52

BLADE CHAMBER

After the cut, the shuttle vise pushes the cut material forward and then retracts through created opening (chamber). 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 the blade can be damaged as well as the blade guard, saw table, and guides.

EVOLUTION TS 50

V-25



10 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.

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.





STANDARD FEATURES

- 6° canted head allows for efficient cutting and improved blade life
- Articulating, semi-automatic PLC control provides programmable mitering with “go to” angle functionality from 60° left to 60° right
- Digital angle display
- Two full stroking hydraulic vises
- Hydraulically powered guide arm attached to saw column. In automatic mode, programmable guide arm adjusts to material height when mitering, providing optimum blade support and minimum blade exposure.
- 10 HP VFD. True direct blade drive – no belts/pulleys
- Cast iron band wheels
- Replaceable blade brush
- Robust steel base
- Easy access electrical panel and hydraulics
- Blade breakage switch
- Hydraulic band tensioning with digital readout

- Replaceable carbide guide inserts
- 3 HP hydraulic pump provides system pressure
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light
- Work light

OPTIONAL FEATURES

- Chip bucket with pump
- Hydraulic overhead bundling
- Mist lubrication
- Pop-up feed roller
- Variable vise pressure
- Tall square vise inserts
- Hydraulic chip conveyor
- Bridge/interface bracket
- Powered bridge/interface bracket
- Idler conveyors
- Powered conveyors



STANDARD FEATURES

- 6° canted head allows for efficient cutting and improved blade life
- 60" bar feed, left side
- Shuttle features automatic multi-indexing up to 60" (120" optional) in a single stroke with automatic kerf compensation. Powered by a rack and pinion servo drive.
- Automatic programmable mitering with "go to" angle functionality from 60° left to 60° right
- Hydraulic head tilt
- Cast iron band wheels
- Automatic PLC, touch screen control programmable up to 1000 jobs with 20 in queue.
- Two full stroking hydraulic vises
- Hydraulically powered, programmable guide arm attached
- 10 HP VFD. True direct blade drive
- Blade chamber
- Hydraulic chip conveyor efficiently removes chip from saw
- Replaceable blade brush
- Robust steel base

- Out of stock switch
- Blade breakage switch
- Easy access electrical and hydraulics
- Pop-up feed roller
- Hydraulic band tensioning with digital readout
- Replaceable carbide guide inserts
- 3 HP hydraulic pump provides system pressure
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light & work light

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 & powered conveyors

V-25APC

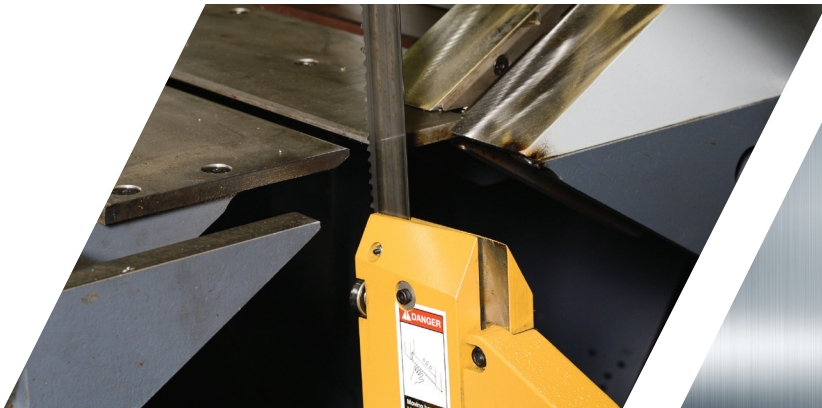


PROGRAMMABLE GUIDE ARM

Hydraulically powered moveable guide arm attached to saw column. In automatic mode, programmable guide arm adjusts to material height when mitering, providing optimum blade support and minimum blade exposure.

60" BAR FEED

Fast shuttle vise is capable of indexing up to 60" (120" optional) in a single stroke. Shuttle carriage moves on linear rails and is driven by rack & pinion mounted gear reducer/servo motor assembly.



Photos may show optional equipment.



SPECIFICATIONS

		VW-18	V-18	V-18APC	V-20
Rectangular Capacity (h x w)	90°	22" x 18"	31" x 18" / 28" x 18" cant. head	31" x 18" / 28" x 18" cant. head	25" x 20"
	45°	15" x 18"	21" x 18" / 19" x 18" cant. head	21" x 18" / 19" x 18" cant. head	17" x 20"
	60° Right	10 1/4" x 18"	n/a	n/a	11 1/4" x 20"
	60° Left	10 1/4" x 18"	n/a	n/a	11 1/4" x 20"
Round Capacity	90°	17 1/2"	17.5" / 12" w/OH bundling	17.5" / 12" w/OH bundling	20"
	45°	12 1/2"	17.5" / 6" w/OH bundling	21" / 6" w/OH bundling	17"
	60° Right	10 1/4"	n/a	n/a	11 1/4"
	60° Left	10 1/4"	n/a	n/a	11 1/4"
Blade Drive		5 HP VFD	7.5 Hp VFD	7.5 Hp VFD	10 HP VFD
Blade Speed		65-385 SFM	65-385 SFM	65-385 SFM	65-400 SFM
Blade Size		1 1/4" x 16' 3"	1 1/4" x 16' 11"	1 1/4" x 16' 11"	1 1/2" x 19' 3"
Coolant Tank Capacity		12 Gal.	20 Gal.	20 Gal.	20 Gal.
Table Height		36 1/2"	38"	38"	44"
Voltages Available		240 or 480 v (208,575 optional)	208, 240, 480, 575 v	208, 240, 480, 575 v	480 v (208, 240, 575 n/c trans.)
Weight		2,700 lbs.	4,500 lbs.	7,500 lbs.	4,200 lbs.
Dimensions	Width	36"	80"	168"	70"
	Length	95"	120"	112"	128"
	Height	96"	97"	97"	112"
		V-20APC	V-25	V-25APC	
Rectangular Capacity (h x w)	90°	25" x 20"	30" x 25"	30" x 25"	
	45°	17" x 20"	21" x 25"	21" x 25"	
	60° Right	11 1/4" x 20"	14 1/2" x 25"	14 1/2" x 25"	
	60° Left	11 1/4" x 20"	13 1/2" x 25"	13 1/2" x 25"	
Round Capacity	90°	20"	25"	25"	
	45°	17"	21"	21"	
	60° Right	11 1/4"	14 1/2"	14 1/2"	
	60° Left	11 1/4"	13 1/2"	13 1/2"	
Blade Drive		10 HP VFD	10 HP VFD	10 HP VFD	
Blade Speed		65-400 SFM	75-350 SFM	75-350 SFM	
Blade Size		1 1/2" x 19' 3"	1 1/2" x 21'	1 1/2" x 21'	
Coolant Tank Capacity		20 Gal.	38 Gal.	38 Gal.	
Table Height		44"	44"	44"	
Voltages Available		480 v (208, 240, 575 n/c trans.)	208, 240, 480, 575 v	240 or 480 v	
Weight		7,630 lbs.	10,000 lbs.	15,000 lbs.	
Dimensions	Width	182"	96"	158"	
	Length	145"	160"	254"	
	Height	119"	123"	123"	

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



877-276-SAWS www.HYDMECH.com

Dealer Information: