

A close-up, angled view of a vertical tilt frame band saw. The machine is primarily grey and white. A large metal workpiece is being cut by a band saw blade. The blade is positioned vertically, and the workpiece is held in a white vise. The machine's frame is tilted, and the blade is cutting through the workpiece. The background is white, and there is a green diagonal shape in the top left corner.

VERTICAL TILT FRAME 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 above.

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.



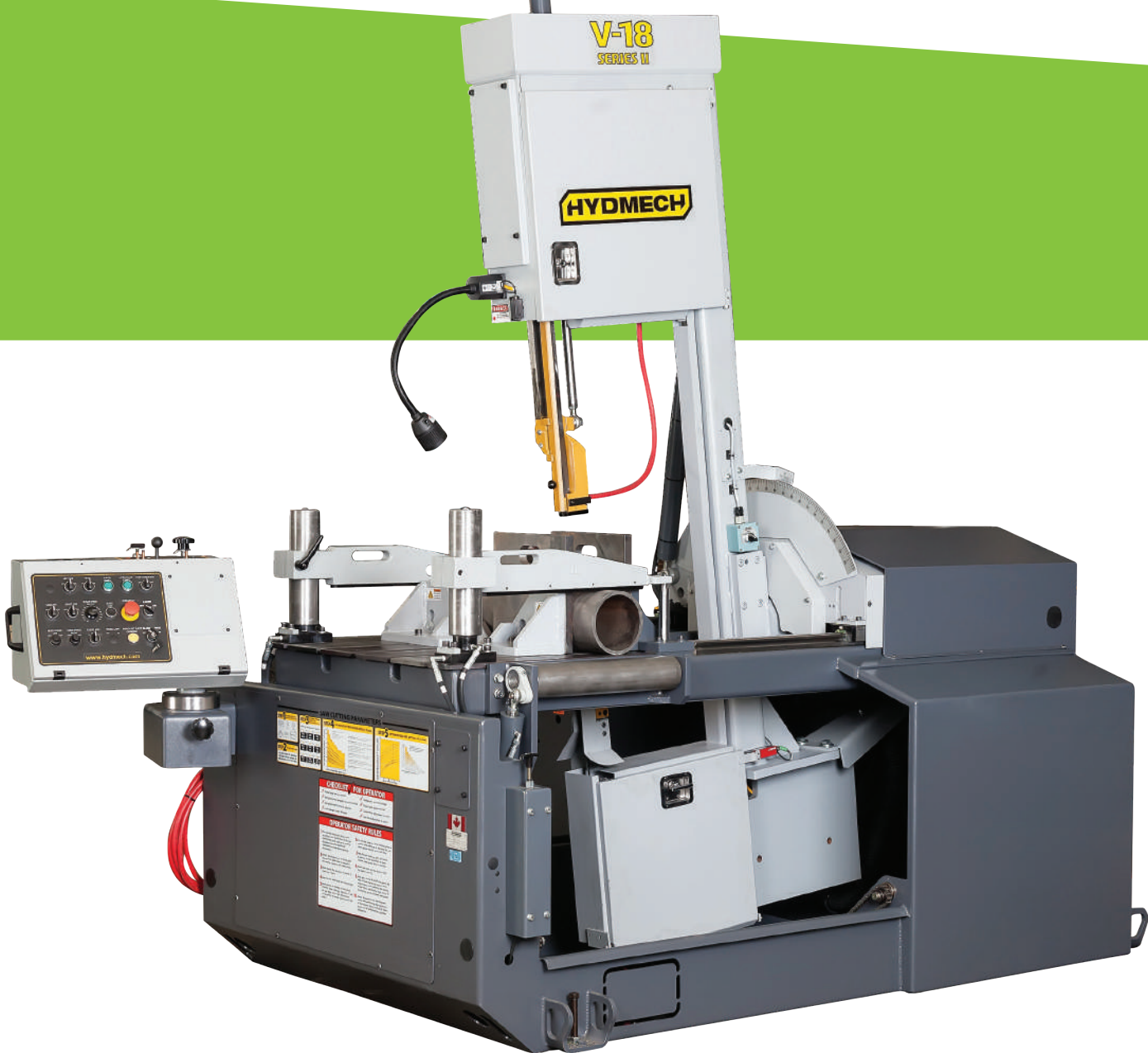
STANDARD FEATURES

- Adjustable 3° canted head
- Double articulating, 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 guide arm positioning
- 7.5 HP VFD. True direct blade drive - no belts/pulleys
- 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
- Hydraulic overhead bundling
- Digital angle display
- Mist lubrication
- Non-driven pop-up lift rollers
- Variable vise pressure
- Drag chain chip conveyor
- Hydraulic chip conveyor
- Tall square vise inserts
- 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.

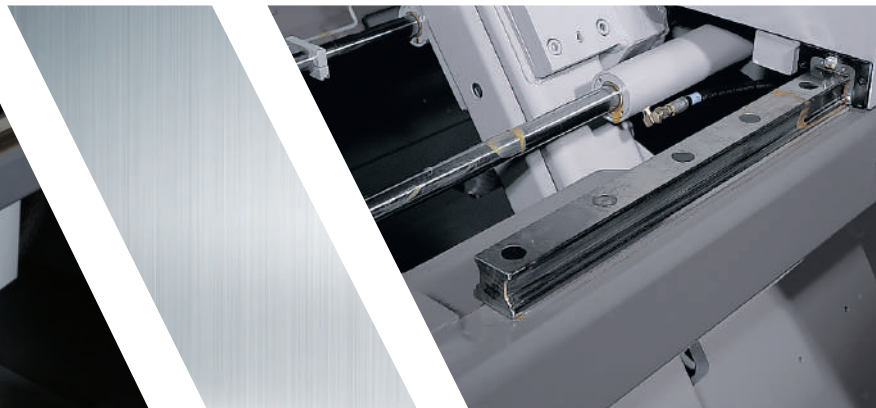
The V-18 features high quality cast iron hardened wheels with heavy-duty wheel and gearbox shaft bearings.

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
- Out feed vise
- 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
- Pedestal control
- Idler conveyors
- Powered conveyors

V-20

WINDOWS TOUCH SCREEN CONTROLLER

Operates the semi-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.



Photos may show optional equipment.

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 dissipates.





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 rollers
- 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 separates material from cut part
- 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 - one, opposite bar feed
- 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



60" BAR FEED

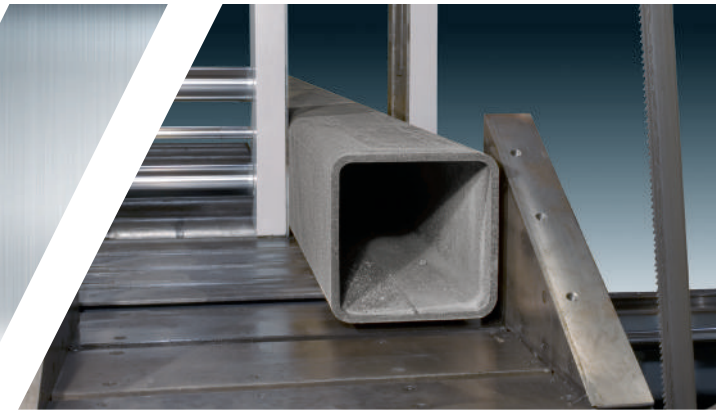
Fast shuttle vise is capable of indexing up to 60" (120" optional) in a single stroke. Shuttle carriage moves on linear rails and is driven by rack & pinion mounted gear reducer/servo motor assembly.

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.

INFEED SYSTEM LIFTS UP

The feed system lifts the material up and away from the saw datum vise. This allows you to feed banded material through the vise automatically. Shuttle datum vise retracts on return.



Photos may show optional equipment.



SPECIFICATIONS

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