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
- 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.

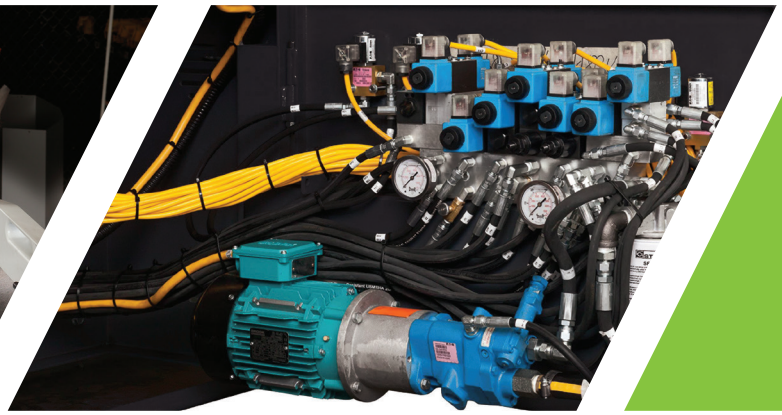
EASY ACCESS HYDRAULICS

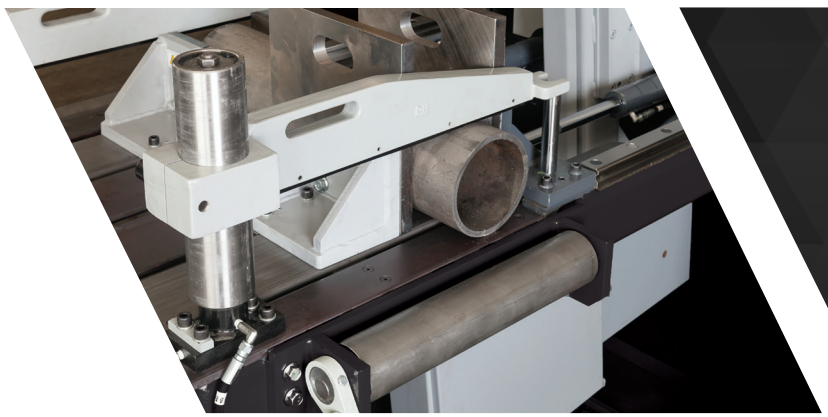
A 2 HP hydraulic pump supplies system pressure which controls all vising, head swing, head advance/ retract,guide arm movement and blade tension functions. Easy access for minimal downtime.

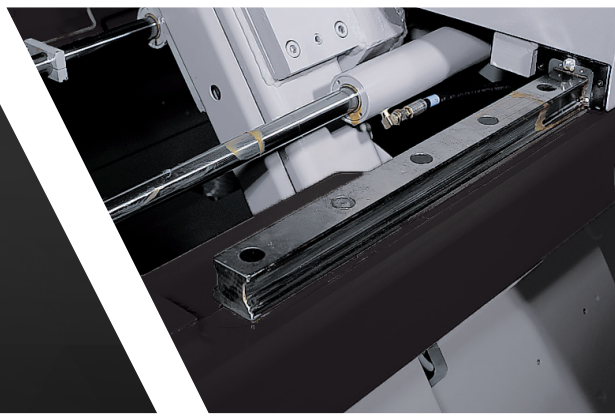
OPTIONAL TALL SQUARE VISE INSERTS

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-60

AUTOMATIC MULTI-INDEXING

Shuttle features automatic multi-indexing up to 40" in a single stroke with automatic kerf compensation. V-18APC-60 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 60° left to 60° right
- Four full stroking hydraulic vises (feed, main, and outboard) and squaring vise
- Automatic multi-indexing up to 40” in a single stroke
- Powered movable guide arm
- Automatic PLC control programmable up to 1,000 jobs with 5 in queue
- Safety door interlocks
- Flood coolant with wash down hose
- Laser light & work light
- Hydraulic overhead bundling
- 7.5 HP VFD. True direct blade drive – no belts/ pulleys
- Hydraulic DDF system
- 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
- Drag chain chip conveyor
- 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 and Work light
- Variable vise pressure
- 3 degree head cant

OPTIONAL FEATURES

- Chip bucket
- Mist lubrication
- Non-driven pop-up lift roller
- 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.







Photos may show optional equipment.



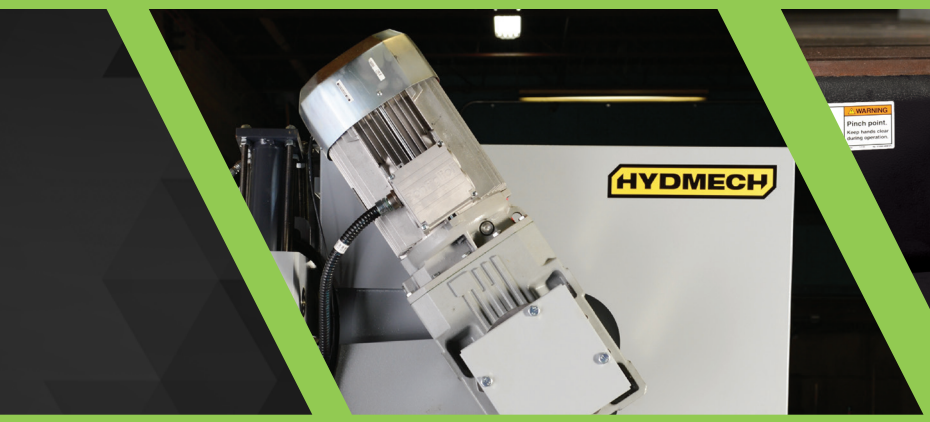
V-25

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 evaporates.







Photos may show optional equipment.



STANDARD FEATURES

- 6° canted head allows for efficient cutting and improved blade life
- Control provides hydraulic powered mitering 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
- Datum line vertical rollers
- 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

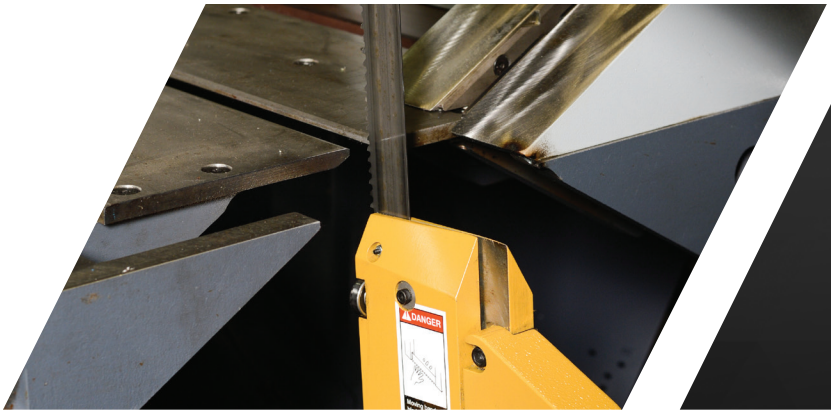


PROGRAMMABLE GUIDE ARM

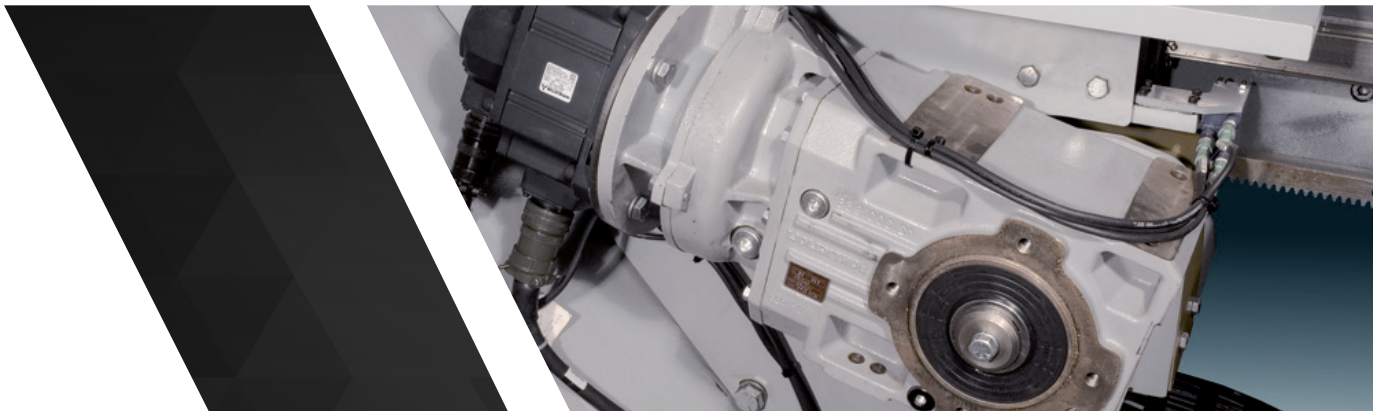
Hydraulically powered moveable guide arm attached to saw column. In automatic mode, programmable guide arm adjusts to material height when mitering, providing optimum blade support and minimum blade exposure.

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 - IMPERIAL

		VW-18	V-18	V-18APC-60
Rectangular Capacity (h x w)	90°	22" x 18" / 20 3/4" x 18" cant. head 558 mm x 457 mm / 527 mm x 457 mm cant. head	31" x 18" / 28" x 18" cant. head 787 mm x 457 mm / 711 mm x 457 mm cant. head	22" x 18"/ OH Bund. 12" x 18" 559 mm x 457 mm / OH Bund. 305 mm x 457 mm
	45°	15" x 18" / 15" x 18" cant. head 381 mm x 457 mm / 355 mm x 457 mm cant. head	21" x 18" / 19" x 18" cant. head 533 mm x 457 mm / 482 mm x 457 mm cant. head	14.75" x 18"/ OH Bund. 12" x 18" 375 mm x 457 mm / OH Bund. 305 mm x 457 mm
	60° Right	10 1/4" x 18" / 9 1/2" x 18" cant. head 260 mm x 457 mm / 241 mm x 457 mm cant. head	n/a	9" x 18"/ OH Bund. 6" x 18" 228 mm x 457 mm / OH Bund. 152 mm x 457 mm
	60° Left	10 1/4" x 18" / 9 1/2" x 18" cant. head	n/a	9" x 18"/ OH Bund. 6" x 18" 228 mm x 457 mm / OH Bund. 152 mm x 457 mm
Round Capacity	90°	17 1/2" / 438 mm	17.5" / 12" w/OH bundling 444 mm / 305 mm w/OH bundling	18"/ OH Bund. 12" 457 mm/ OH Bund. 305 mm
	45°	12 1/2" / 381 mm	17.5" / 6" w/OH bundling 444 mm / 152 mm w/OH bundling	13"/ OH Bund. 12" 330 mm/ OH Bund. 305 mm
	60° Right	10 1/4" / 9 1/2" cant. head / 260 mm / 241 mm cant. head	n/a	9"/ OH Bund. 6" / 228 mm/ OH Bund. 152 mm
	60° Left	10 1/4" / 9 1/2" cant. head / 260 mm / 241 mm cant. head	n/a	9"/ OH Bund. 6" / 228 mm/ OH Bund. 152 mm
Blade Drive		5 HP VFD / 3.7 kW VFD	7.5 HP VFD / 5.5 kW	7.5 HP VFD / 5.5 kW
Blade Speed		65-385 SFM / 20-117 MPM	65-385 SFM / 20-117 MPM	65-385 SFM / 20-117 MPM
Blade Size		1 1/4" x 16' 3" / 31.7 mm x 4953 mm	1 1/4" x 16' 11" / 31.7 mm x 5156.2 mm	1 1/4" x 16' 11" / 31.7 mm x 5156.2 mm
Automatic Shuttle Multi-Indexing		N/A	N/A	40" / 1016 mm
Coolant Tank Capacity		12 Gal. / 45 ltr	20 Gal. / 76 ltr	30 Gal. / 114 ltr
Table Height		36 1/2" / 927 mm	38" / 965 mm	44" / 1117 mm
Voltages Available		240 or 480 v (208,575 optional)	208, 240, 480, 575 v	208, 240, 480 v
Weight		2,700 lbs. / 1225 kg	4,500 lbs. / 2041 kg	9,000 lbs. / 4082 kg
Dimensions	Width	36" / 914 mm	80" / 2032 mm	120" / 3048 mm
	Length	95" / 2413 mm	120" / 3048 mm	188" / 4775 mm
	Height	96" / 2438 mm	97" / 2464 mm	112" / 2845 mm
		V-20	**V-25**	**V-25APC**
Rectangular Capacity (h x w)	90°	25" x 20" / 635 mm x 508 mm	30" x 25" / 762 mm x 635 mm	30" x 25" / 762 mm x 635 mm
	45°	17" x 20" / 431 mm x 508 mm	21" x 25" / 533 mm x 635 mm	21" x 25" / 533 mm x 635 mm
	60° Right	11 1/4" x 20" / 285 mm x 508 mm	14 1/2" x 25" / 368 mm x 635 mm	14 1/2" x 25" / 368 mm x 635 mm
	60° Left	11 1/4" x 20" / 285 mm x 508 mm	13 1/2" x 25" / 342 mm x 635 mm	13 1/2" x 25" / 342 mm x 635 mm
Round Capacity	90°	20" / 508 mm	25" / 635 mm	25" / 635 mm
	45°	17" / 431 mm	21" / 533 mm	21" / 533 mm
	60° Right	11 1/4" / 285 mm	14 1/2" / 368 mm	14 1/2" / 368 mm
	60° Left	11 1/4" / 285 mm	13 1/2" / 342 mm	13 1/2" / 342 mm
Blade Drive		10 HP VFD / 7.4 kW VFD	10 HP VFD / 7.4 kW VFD	10 HP VFD / 7.4 kW VFD
Blade Speed		65-400 SFM / 20-122 MPM	75-350 SFM / 23-107 MPM	75-350 SFM / 23-107 MPM
Blade Size		1 1/2" x 19' 3" / 38.1 mm x 5867.4 mm	1 1/2" x 21' 0.5" / 38.1 mm x 6413.5 mm	1 1/2" x 21' 0.5" / 38.1 mm x 6413.5 mm
Automatic Shuttle Multi-Indexing		N/A	N/A	60" (120" optional) / 1524 mm (3048 mm optional)
Coolant Tank Capacity		20 Gal. / 76 ltr	38 Gal. / 144 ltr	38 Gal. / 144 ltr
Table Height		44" / 1117 mm	44" / 1117 mm	44" / 1117 mm
Voltages Available		480 v (208, 240, 575 n/c trans.)	208, 240, 480, 575 v	240 or 480 v
Weight		4,200 lbs. / 1905 kg	10,000 lbs. / 4536 kg	15,000 lbs. / 6804 kg
Dimensions	Width	70" / 1178 mm	96" / 2438 mm	158" / 4013 mm
	Length	128" / 3251 mm	160" / 4064 mm	254" / 6451 mm
	Height	112" / 2844 mm	123" / 3124 mm	123" / 3124 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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