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**CobraFab Industries Inc.**

## GENERAL SPECIFICATIONS

The NEW CobraSaw VH **SERIES II** Metal Cutting, Vertical, Tilt Frame, Band Saw Machines with Exclusive **"COBRASTRIKE"** Action have over 50 improvements over the previous model. They are versatile bandsaw machines which meet a wide variety of applications and are designed for shops requiring *a large capacity saw at an economical price*. They are fully hydraulic (including blade drive) with the ability to miter cut up to 60° both left and right of center. The VH **SERIES II** Vertical Tilt Bandsaws are equally at home in high output fabrication shops and steel service centers as in machine shops, tool and die shops and specialty steel suppliers. Heavy duty hydraulics and a 1½" blade are available for even tougher cutting applications.

<b>CAPACITIES</b>	<b>VH1822-60</b>	<b>VH1832-60</b>	<b>VH2536-60</b>
Cap at 90° horizontal	18"	18"	25"
Cap at 45° horizontal	18"	18"	25"
Cap at 90° vertical	22"	32"	36"
Cap at 45° vertical	16"	22"	24"
Cap at 60° vertical	12" Left – 7" Right	16" Left – 11" Right	18" Left – 13" Right
Forward blade cant	0° or 2°	0° or 2°	0° or 2°
<b>ELECTRIC SPECIFICATIONS</b>			
Main motor	5 HP	5 HP	5 HP
Coolant pump	1.7 AMP	1.7 AMP	1.7 AMP
<b>HYDRAULIC SPECIFICATIONS</b>			
Hydraulic gear pump output	6.6 GPM	6.6 GPM	6.6 GPM
Hydraulic tank capacity	30 GAL	30 GAL	30 GAL
<b>MACHINE SPECIFICATIONS</b>			
Blade size	16'4" X 1-1/4"	18'4" X 1-1/4"	20'4" X 1-1/4"
Blade speed	0 - 365 SFPM	0 - 365 SFPM	0 - 365 SFPM
Guide arm lift	Manual	Manual	Manual
Miter tilt	Hand crank	Hand crank	Hand crank
Blade Guides	Roller bearing	Roller bearing	Roller bearing
Coolant capacity	14 GAL	14 GAL	14 GAL
<b>MATERIAL VISE SPECIFICATIONS</b>			
Vise	"Quick-Cam lock"	"Quick-Cam lock"	"Quick-Cam lock"
Vise Height	8"	12"	12"
<b>MACHINE DIMENSIONS</b>			
Band wheel diameter	18.5"	18.5"	25.5"
Saw table size	47" X 29"	47" X 29"	47" X 36"
Table height (work height)	41"	41"	44"
Machine length	95.5"	95.5"	119.5"
Machine width at 90°	68"	68"	70"
Machine height at 90°	102.5"	114.25"	125.5"
Machine width at 60°	90.5"	99.5"	114.75"
Machine weight	3465 LBS.	3615 LBS.	4445 LBS.

**"COBRASTRIKE"** Action: Preloads the saw blade to cut up to 15% faster than conventional saws with no appreciable loss of blade life. Combine this with the **NEW 2°** forward blade tilt and we offer one of the fastest cutting saws on the market.

Blade Tension: Manually applied and maintained by tension gauge to provide .001" of blade stretch per foot of blade length. This assures proper and consistent beam strength for maximum cutting rates and cut accuracy.

Blade Speed Range: Infinitely variable, hydraulically controlled, 50 to 365 S.F.P.M. provides the optimum speed for most materials. Blade can be stopped with all other power functions operative.

Blade Guides: Roller bearing guides minimize blade stress caused by the 90° twist in the blade. Side and back bearings are interchangeable offering superior bearing life. Non-rotating circular backup carbide guides are optional.

Blade Drive: The band wheel is driven by a hydraulic motor so there are no belts to wear out or slip, no pulleys to replace, no pinion gear to wear and no backlash from a ring and pinion drive allowing for much greater blade life. Blade can be stopped with all other functions still working.

Dual Blade Feed Functions: Independently controlled feed rate and feed pressure achieves optimal cutting performance. The feed pressure valve and feed rate valve are infinitely and independently variable to assure maximum control under the most demanding applications. Feed pressures ranging from 40 to 250 lbs. are obtainable.

Blade Brush: A power driven blade-cleaning brush assures that chips are thoroughly cleaned from the blade gullets. As the blade speed is changed, so is the speed of the cleaning brush.

Coolant System: Built-in blade cooling system with separate control valve on panel to adjust coolant flow. Coolant nozzles on each sides of the blade assure consistent coolant flow. (Spray mist cooling is available as an option.)

Flushing Hose: Control panel mounted coolant flushing hose reduces clean up time.

Construction: Tubular steel construction provides rigidity to assure years of accurate and reliable cuts. Solid reinforced steel saw table and tubular saw bow form the foundation on which this precision machine tool is manufactured. The band wheels are made from quality North American castings. This minimizes wheel warp stress and provides many years of band wheel life.

Upper Guide Arm: The manually controlled guide arm can be located as low as 7.5" above the worktable surface.

Column Tilt: Manual with lock allows the operator to tilt the head of the saw up to 45° left or right of center via a hand operated crank. The degree of tilt is read on a large protractor for maximum accuracy in positioning the sawhead.

Vise: The VH *SERIES II* saws offer a left hand, "Quick Acting" positive-lock vise as standard equipment. (An optional right hand vise set is available for bundled material.)

Guarding: All blade and machine guarding meet national and most international governing body's requirements. Totally enclosed left and right hand machine skirts serve a dual purpose of offering operator safety as well as keeping the work area clean.

Operator's Control Panel: Conveniently located at the front of the machine in a fixed position to give the operator a full view of the cutting area. Electrical and hydraulic components are separated in individual oil tight enclosures. Emergency stop button is placed in easily accessible area on front panel.

Hydraulic Components: A high quality 6.6 GPM hydraulic gear pump is standard. All control panel hydraulic valves are fitted with JIC fittings and steel pipe to insure maintenance free and leak-proof operation. Only the finest North American made hydraulic components are used for easy replacement if required. A 6.6 GPM or 11.3 GPM pressure compensated load sensing piston pump are available at extra cost

Additional Features: Front rollout chip/coolant pan for easy cleaning and chip removal. Leveling footpads are standard. Feed force and feed pressure valves are lockable to assure consistency between cuts.

Voltage: Available voltages include: 208, 230, 460 or 575 volt, 60 cycles, 3 phase. 220 volt, 60 cycles, 1 phase electrics and 380 volt, 50 cycles 3 phase electrics can be provided at additional cost. Control voltage at the control panel is 110/60/1. *"Entela" evaluates our product for electrical safety and conformity.*

#### STANDARD EQUIPMENT:

"COBRASTRIKE" Action.

Separate controls for both "feed rate" and "feed pressure".

Standard 1¼" wide band blade. (1½" blade optional.)

Infinitely variable band speed, hydraulically driven.

Heavy-duty ball bearing guides (suitable for dry cutting, spray mist systems, or flood coolant).

Flood coolant system with two nozzles at blade with removable swarf and coolant tray.

The coolant volume control is conveniently located on control panel.

Standard left hand "Quick Acting" positive lock vise.

Hand operated crank miter tilting mechanism.

5 HP 3 phase main motor.

110V at the controls.