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VB1250

VOORTMAN VB RANGE CUTTING OF PROFILES

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VOORTMAN VB RANGE CUTTING OF PROFILES

The Voortman VB-Series CNC bandsaw machine is designed for automatic straight and miter cutting of structural steel.

- Mounted on a heavy frame.
- Comes with cutting-edge servo motors and ball screw spindles.
- Cuts at optimal speed and quality for maximum production capacity.



VERY STABLE CUTTING AND LONG SERVICE LIFE

The VB bandsaw machines have a welded base frame for maximum stability:

- Saw always has the required tension.
- Does not deviate from the intended cutting line.
- Thanks to a robust frame, the machine can perform operations at a constant, higher pressure.

Multiple functions in the machine extend the life of the saw blades:

- Swarfbrush removes chips from the holes in the saw blade.
- Supports maximum saw band speeds for best results.
- Maximum power limit; always cut with optimum force for precise cutting functionality.

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COMPLETE AUTOMATION, NO MATTER HOW SMALL THE PRODUCTS ARE

The VB range is capable of autonomous production of even the smallest products. Small (clean) cuts can be removed with the Short Product Removal System (SPRS). Profiles with a weight of a few tonnes or long lengths at the outfeed can easily be sorted at different sections of the roller conveyors and cross transports. Flexibility and automation allow the operator to concentrate on loading and unloading the system, saving valuable time and labour costs.



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MAIN BENEFITS



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MOVEABLE SAW TABLE - BLADE ALWAYS ALIGNED WITH SAWING AREA

A distinguishing feature on the Voortman VB sawing machine is the moveable sawing table.

- The saw blade and the cutting zone move together and remain in line with each other, so that the saw never cuts through the table.
- It is not necessary to replace the table throughout the lifetime of the machine.
- The saw and table can be rotated steplessly to any desired angle.
- If the next cut in the batch is a miter cut, the

machine automatically lowers the cutting table to allow free rotation so that the next angle can be processed.

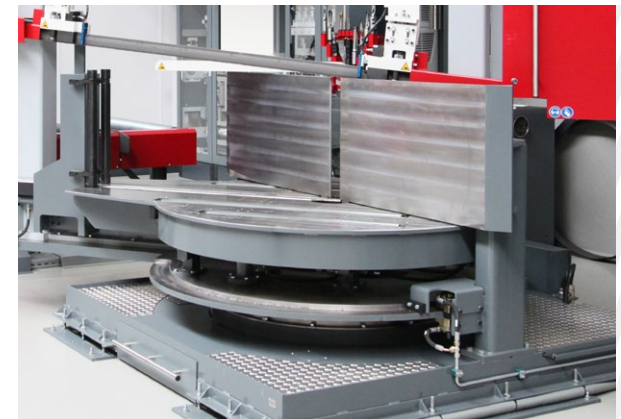
PROGRAMMABLE ROTATION FOR MITER CUTS

When the machine adjusts the angle for a miter cut at the next cut in the batch, the machine automatically lowers the table for contact-free, fast rotation. Any angle can be selected with the stepless design and fixed with a disc brake before cutting. Miter cuts from 45°/60° or -60° to 45° are possible with the VB saw.

SHORT PRODUCT REMOVAL SYSTEM (SPRS)

The VB range can be equipped with an automatic short product removal system (SPRS).

- Sawed and small products can be removed automatically.
 - The automation level is increased.
 - Products up to 1400 mm are clamped during cutting and transported sideways by the removal system.
 - Clean cuts and small products shorter than 250 mm are placed in a separate tray.
- The SPRS is available in combination with a feeder truck measuring system.



MAIN BENEFITS

HEIGHT DETECTION BY LASER

- Saw cycle starts.
- Saw blade lowers at full speed until height detection laser reaches the top of the material.
- System switches to the cutting speed required for that cut.
- Accelerated movements between cuts limit the time the machine is not actively cutting.
- VB saw efficiency is therefore increased.

OPTIMAL BLADE COOLING FOR LONGER LIFE

- The air/oil mixture is sprayed directly onto the blade for optimal cooling.
- Lubricant guarantees maximum blade life with less cleaning.
- No excessive coolant consumption.
- Air/oil mist makes chip removal easier.
- Machine life is extended.

AUTOMATIC INFEEED AND OUTFEED

- Loading of DSTV or DSTV+ (fully nested) files in the VACAM processing list.
- Loading of (optional) cross transports with nested profiles.
- Machine can be started at the push of a button.
- Operator feeds nested profiles into the machine.
- Operator removes the finished products from the outfeed of the cross transports.



MAIN BENEFITS



SAW BAND PROJECTION LIGHT FOR PRECISE POSITIONING

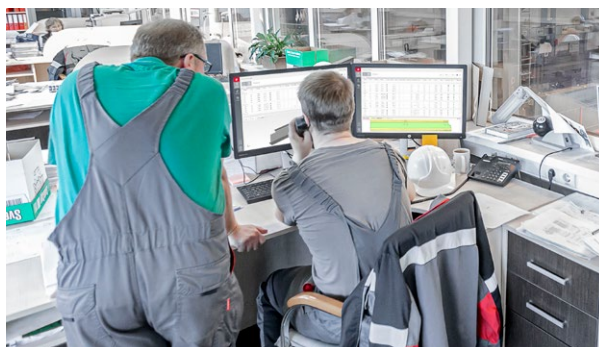
- LED projection method ensures precise positioning of the saw blade so that it is visible on the product to be processed.
- Useful function when saw cut is marked on another machine or by hand and your operator needs to place a heavy profile exactly under the blade.

CHOICE OF MEASURING SYSTEM

Voortman offers three different measuring systems with the VB saw:

1. Feeder truck
2. Full stop
3. Roller feed system

We can provide the most optimal measuring system for your application. Each system has unique features to deliver the best solution for steel fabricators or steel service centres. Voortman analyses your specific production requirements to recommend the ideal system. This maximizes throughput and reduces production costs.



VACAM CONTROL SOFTWARE CONTROLS THE MACHINE:

- Instructing the machine to produce a workpiece.
- Scheduling nestings.
- Clustering nestings.
- Starting automatic production.
- Providing information and getting feedback.
- No additional licence fees.
- All machine functionalities are included.

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FEATURES AND PROCESSES



FEATURES AND PROCESSES

MEASURING ROLLS

- Fastest measuring system for profiles on the market.
- Absence of feeder truck allows for positioning of next profile for machine while processing current profile.
- The profile is clamped only once, considerably eliminating waiting time.
- The most common configuration, a back-to-back or drill-saw line, combines a VB saw with a profile drilling machine.
- Measuring rolls of the drilling machine can be used for both machines.
- Compact system requires limited space and provides a high degree of autonomy.

FEEDER TRUCK - MEASURING AND TRANSPORT SYSTEM

- A feeder truck is the most optimized measuring and transport system when processing many small products.
- The length is determined immediately when the feeder truck clamps your profile at the end.
- The feeder truck can reach saw blade, making it ideal for fully automated production.
- Combined with a Short Product Removal System (SPRS), it allows for automatic removal of clean cuts, residual material and products up to 1400 mm.



- The feeder truck has the unique ability to automatically rotate the clamp for transporting different profiles.

MEASURING SYSTEM WITH STOP PLATE

- The stop plate is an extremely fast measuring system that makes it possible to cut several bundles of profiles.
- Profiles are placed against the stop plate to determine their exact position.
- The profile is between the clamps, the stop

plate is lifted and moves to the next position according to the VACAM cycle list.

BUNDLE STOP AND BUNDLE CLAMP

- Bundle stop and bundle clamp can significantly increase the output of steel service centres.
- Simultaneously cut multiple profiles to length.
- Bundle stop ensures accurate length by aligning all profiles, after which the bundle clamp secures all profiles at the top and sides.

FEATURES AND PROCESSES

VARIOUS SAWING APPLICATIONS

- The VB range bandsaw machine supports various types of saw blades with profiles. Built into the VACAM control software.
- Changing saw blades is a simple operation and takes less than 15 minutes.
- User-friendly individual saw settings can be adjusted in an instant.
- The VB range is extremely flexible for various applications.
- Special mode for cutting through thick profiles.
- Prevents the saw blade from becoming blocked due to the tension of the profile.

FULLY AUTOMATIC PROFILE TRANSPORTATION

- Fully automatic profile transportation makes it possible to integrate the machine into a fully automatic MSI beam processing line.
- VACAM software controls the sensed drag-dogs or lifttables, transporting profiles onto the infeed roller conveyor and from the outfeed roller conveyor.
- Selected products are automatically produced from the trade length.
- Cross transports are able to transport several profiles.
- The machine can operate autonomously for a long time.

ACTIVE BUFFER MANAGEMENT

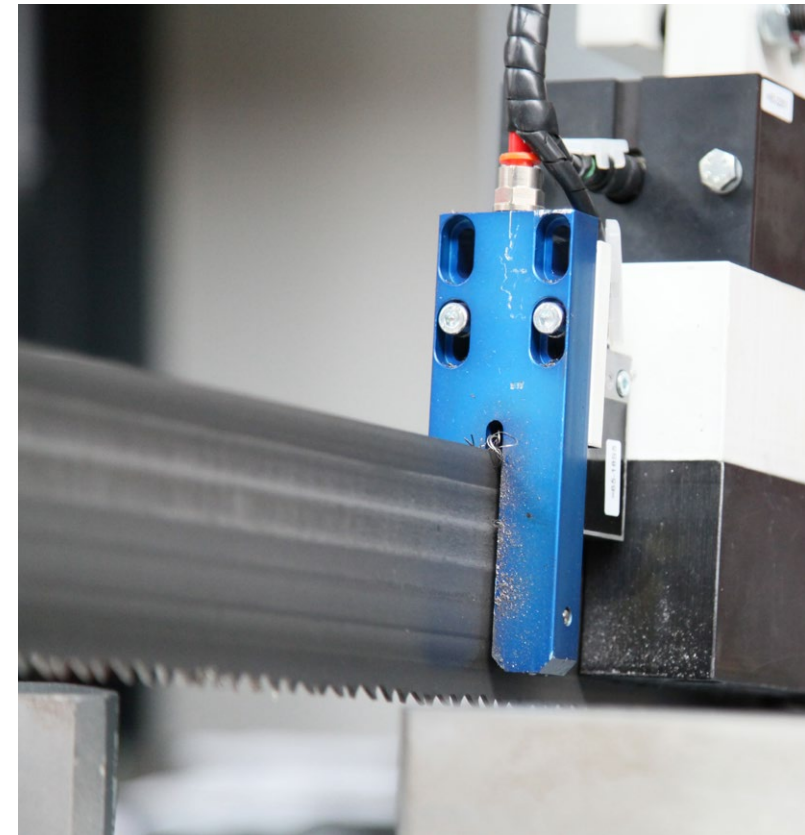
- VACAM software is known for its premium performance in automatic material handling and buffer management.
- Active buffer management secures a priority position for the first profile in the line, while the following profiles are automatically buffered.
- Profiles are continuously pushed towards the datum line, and new profiles can be loaded onto the transports.
- Datum line is always supplied with new material.
- Significantly increases productivity and efficiency.
- Machines are not in idle mode waiting for the next profile or production batch.

USER-FRIENDLY CONTROLS

- Constant and efficient production
- VACAM offers your operators a comprehensive and easy-to-use interface
- VACAM's main strengths lie in the clear separation between work preparation, production and manual machine activities.
- For each operating mode, the required functions and data are at your fingertips
- Tasks performed in the right environment
- VACAM software is highly valued in the industry

for its compact graphical representation of the production process

- VACAM gives you a clear overview of the process, the production status and, if necessary, immediate access to online assistance



SPECIFICATIONS

VOORTMAN VB RANGE	VB1050	VB1250	
Operating range 0°	500 x 1.130	600 x 1.250	mm
Operating range 15°	500 x 1.060	600 x 1.200	mm
Operating range 30°	500 x 925	600 x 1.000	mm
Operating range 45°	500 x 725	600 x 850	mm
Operating range 60°	500 x 470	600 x 500	mm
Feed Approach speed	6	6	m/min
Saw band drive	7,5	11	kW
Saw band speed	40 - 120	40 - 120	m/min
Saw band size	54 x 1,6	67 x 1,6	mm
Saw band inclination	5°	5°	
Machine weight	8.500	10.000	kg



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