

Compact²⁰⁰ ANC

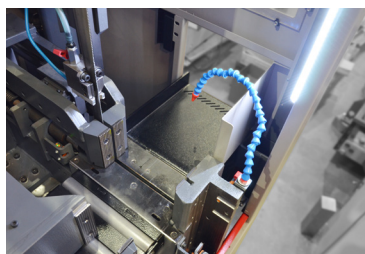
V-loader

High productivity in less space



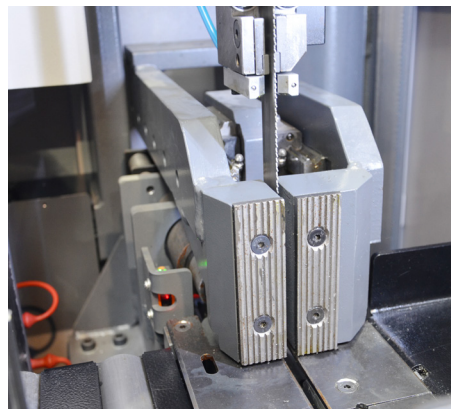
The automatic vertical band saw COMPACT 200 ANC is designed for companies looking for a space-saving and efficient solution for cutting materials. The main advantage of the COMPACT 200 ANC automatic vertical band saw is its dimensions, which are identical to those of a standard Euro pallet. The band saw is designed for vertical cuts (0°) with a maximum cutting capacity of up to 200x200 mm. The vertical arm of the band saw is equipped with a 2.2 kW drive unit with a frequency converter, allowing seamless regulation of the saw blade speed from 20 to 120 m/min. The band saw is equipped

with a 27 mm saw blade, and the arm's feed into the cut is assisted by a servo drive unit and a ball screw. For a fully automatic cutting cycle, the vertical band saw is equipped with a feeding vice and a maximum pulling capacity of 750 kg. Together with a roller conveyor, the feeding vice can deliver material in a maximum length of 560 mm in a single feed, and this feeding cycle can be repeated to achieve the desired final length of the piece. The feed of the feeding vice is ensured by an electric motor and a ball screw.

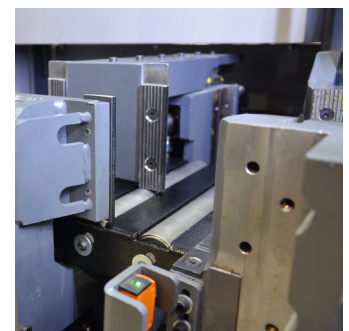
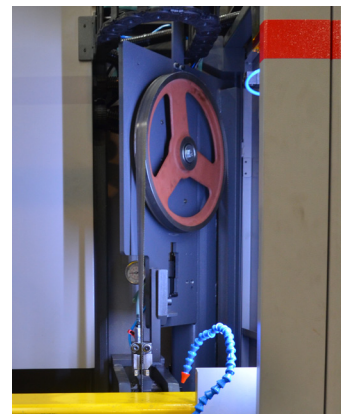


Automatic vertical bandsaw Compact 200 ANC is equipped by two vice. First in a feeding vice with possibilities to feed a material according to required length and second one is a clamping vice with a key feature to hold material before and after cut via split jaw. Material clamping in both vices is maintained continuously via hydraulic cylinders, ensuring stability throughout the cutting process.

The primary concept of the design of the Compact 200 ANC is to create a space-efficient bandsaw. To achieve it is the saw arm is positioned vertically, allowing for a compact footprint. The saw arm's precisely welded construction ensures rigidity and stability due to this is bandsaw capable of achieving exceptionally accurate and high-quality cuts, whole of material width. This solution promotes cut quality and minimizes the potential for errors or deviations during the cutting process..



Control and programming of the bandsaw are providing from panel mounted on the side of the machine at an ergonomic height. The panel has a control buttons and touchscreen. The touchscreen displays clear and logically structured dialog windows that guide the operator whole setting and cutting cycle. A complete cutting plan, including cut lengths, quantity, and feed parameters, can be prepared via the touchscreen. The plan can be saved in the machine's memory for repeated use.



The Compact 200 ANC is equipped with two independent hydraulic vices: a feeding vice and a clamping vice. These are designed to ensure accurate material positioning and secure clamping throughout the entire cutting cycle.

Technical parameters

Compact 200 ANC

0 °	200	200 x 200	200 x 200	200 x 200
				3,5 kW
20-120 m/min			3365 x 27 x 0,9 mm	

Accessories

Automatic first cut transaction

When working with pre-aligned materials where no initial cut is needed, our automatic bandsaw utilizes an advanced moving laser system positioned on the feeding vice to precisely detect and measure the start of the material. This sophisticated technology ensures accurate and efficient operations, saving you time and enhancing the overall cutting process.

Hydraulic blade tensioning

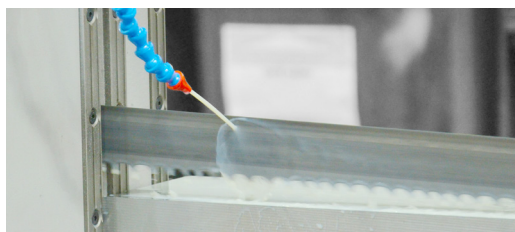
Hydraulic blade tensioning is an upgrade from manual tensioning, offering a quick, precise, and accurate way to adjust the blade tension. This system automatically releases the blade when the machine is shut off, which helps extend the blade's lifespan. The tensioning process is conveniently controlled directly from the control box, enhancing both ease of use and operational efficiency.

Pressure regulation for both vices

The regulation of the clamping pressure on the vice and feeding vice of BOMAR automatic bandsaws is particularly valued by customers who frequently cut thin-walled profile material. When such material is clamped, there's a risk of deforming and damaging its shape. The vice pressure regulation allows for continuous adjustment of the clamping pressure in the hydraulic cylinder, ensuring an optimal balance. This means the material is held securely in place for cutting without compromising or deforming its profile shape, providing both protection and precision.

Remote machine diagnostic and maintenance

In the event of a software failure on the automatic bandsaw, a remote connection accessory allows a technician to diagnose the machine and identify or resolve potential issues. This remote maintenance capability enables the technician to upload a complete updated version of the software to the PLC, ensuring the bandsaw is quickly brought back to optimal operation with minimal downtime.



Drip plate

When using cooling liquid during the cutting process, there's a risk of coolant leaking outside the bandsaw's work area. To maintain a clean and safe workspace, BOMAR bandsaws can be enhanced with drip plates. These plates effectively prevent coolant from contaminating the floor and surrounding work environment, ensuring tidiness and safety in your workspace.

Straight cut deviation gauge

During multi-shift operations, where the automatic bandsaw runs for several hours, the saw blade can become dull, leading to undercutting. To address this, BOMAR automatic bandsaws can be equipped with a saw blade deflection indicator. This device monitors the cut and, if it detects an uneven cut beyond the set tolerance, it either stops the bandsaw or signals a warning with a beacon. This ensures cuts remain within the desired tolerance, minimizing material waste and maintaining cutting precision.

Hydraulic bundle clamping device

When cutting materials in bundles, a necessary equipment upgrade is the additional top pressure jaw. This component is mounted on the main and feeding vice jaws, enabling the secure fixation of multiple pieces of material to prevent spontaneous movement. The hydraulic system controls the fixing and positioning of the top pressure jaw, working in synchronization with the main and feeding vice manipulations, ensuring stability and precision during the cutting process.

Halogen light

Enhance the visibility and oversight of your bandsaw's working area with halogen lighting. This illumination provides clear, bright light, allowing operators to see every detail of the cutting process, ensuring precision and safety during operation.



Additional coolant inflow

Correct and adequate cooling of the cutting area is crucial for achieving a quality cut and extending the life of the saw blade. When working with large or particularly wide solid semi-finished products, it's often necessary to install an additional cooling nozzle. This nozzle allows the center of the material to be cooled directly, ensuring effective cooling throughout the cutting process, enhancing cutting quality, and prolonging blade life.

Swarf remover

When cutting large volumes of material, swarf can accumulate at the base of the bandsaw. To prevent this buildup, BOMAR bandsaws can be equipped with an automatic rake swarf remover. This accessory continuously removes swarf from the bandsaw area, ensuring a clean workspace and maintaining efficient operation.

