



Band Saws

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Individual 520.360 DGH

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A universal semiautomatic band saw of a double-column construction, designed for double-sided mitre cuts. Thanks to their arms rigidity, double-column band saws with








both-sided linear guiding achieve much shorter cutting times, especially in cutting full materials, than machines with articulated saw arms. The outstanding cutting power of the machine results from the following features: a three-sided hardmetal band precision guide, a saw arm laid both-sided on preloaded linear guides, a 41 mm high saw band and lastly, a synchronous run-ning brush for chips disposal. Material clamping and arm downfeed are controlled hydraulically, while the material feed is manual. The whole work cycle is completed at the press of a single button: the material is clamped, the saw band starts up, cutting is carried out, the arm is raised to the set top position, and the vice is opened. After switching the machine to the manual mode, all functions of the machine may be controlled separately. All control elements are located on the freely-adjustable control panel.

The saw swivelling range is continuous from 60° at the left to 60° at the right with a stable position of the clamped material. Material clamping is performed by a full-stroke vice. The machine is equipped with a frequency convertor that allows the saw band's optimal speed to be set against the processed material within the 20-120 m/min range; this significantly increases both the saw band lifetime and the machine's productivity. The saw band is tilted against the vice load surface at a 2° angle, which also significantly shortens cutting times and contributes to a longer saw band lifetime. The standard equipment also includes automatic downfeed pressure regulation dependent on the resistance of the processed material, and continuously adjustable arm downfeed.

Key features

- Two-column structure
- Hydraulic full-lift clamping vice
- Continuously adjustable saw arm feed to depth and pressure to depth
- Freely positionable control panel

Cutting parameters

						
0°	360	520x360	360			
45°R	360	360x325	350			
45°L	360	365x350	350			
60°R	240	235x310	235			
60°L	255	255x340	255			

Technical specification

Working mode:	semiautomatic
Machine type:	Horizontal bandsaw
Cut:	Mitre cut
Mitre cuts range:	-60° - 60°
Drive:	3 kW, 3×400 V/50 Hz
Saw band speed:	20 - 120 m/min.
Saw band dimensions:	4 780×34×1,1 mm
Material loading height:	770 mm
Shortest remnant length:	40 mm
Smallest sawing diameter:	Ø 5 mm

Machine dimensions

Length:	2 450 mm
Width:	1 850 mm
Height:	2 100 mm
Weight:	1400 kg

Suitable handling systems

Handling System X/XP

The new X/XP handling system offers unprecedented flexibility for tailoring a handling system to individual needs and conditions. Load capacities and automation levels can be adjusted with perfect flexibility and modified at a later time. Besides the roll conveyor in a regular and propelled version, the X system comprises a rich array of options, from vertical rollers, to length measuring systems all the way to cross conveyor units and shifting devices. The load capacity can be customized by the number of rollers and support feet used. The roll conveyor's feed profile even allows varying roller and foot distances on the same roll conveyor unit. When needed, additional rollers and/or support feet can be installed at any time.

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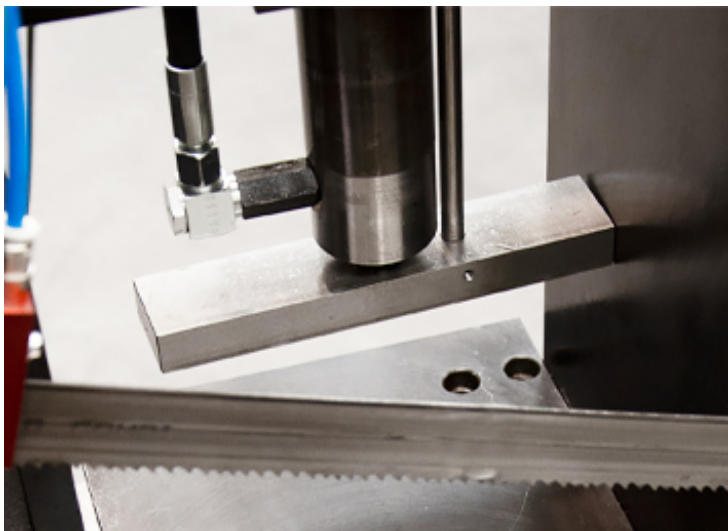


Accessories



Micro-spray-system

For ideal cutting of pipes and profiles, the micro-spray unit applies a grease film on the teeth points and lateral sides of the saw band.



Hydraulic bundle clamping device

Device for clamping materials in layers and bundles with the use of an additional vertical clamping unit.



Digital arm angle indicator

For an accurate reading angles of the arm position. Reading variables show digital display.



Laser liner

The laser unit copies the exact line in the saw band axis to the material. Laser Liner allows precise adjustment of the marked material.



Workspace lighting

A LED lamp for lighting the workspace, adjustable and mounted on the flexible arm.



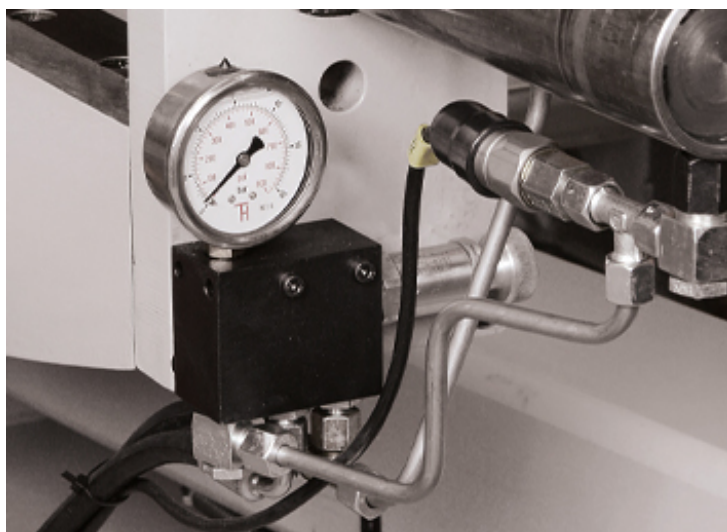
Tenzomat

A precise measuring tool for the control of the saw band tension when a new band is installed.



Pistol for machine cleaning

Tool for fast and easy cleaning of the machine from chips and burrs.



Vice pressure regulation

The pressure regulation of both cylinders is centrally prese firstly to be avoided of the deformations by thin-walled pipe and profiles.

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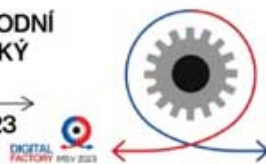
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