



Band Saws

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Construction 820.450 DGS

Construction

820.450 DGS



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A **hydraulic semiautomatic machine** of a double-column construction, designed for cutting steel profiles and supports and for double-sided mitre cuts up to 60°. It offers high-quality and quick cutting with perfect absorption of vibrations thanks to preloaded linear arm guiding on both sides and to the use of a polymer-concrete mixture which fills the arm, columns and pedestal. The 41mm saw band and arm laid under 6° present the main advantages for cutting profile materials. Control elements concentrated on a movable panel guarantee comfortable operation of the machine; communication is done via a lighted, easy-to-read four-line display.

The standard version of the machine is fitted with these additional devices: a digital indicator of the arm automatic angle turning, upper auxiliary clamping of the material, a display of the band's speed changed by a frequency convertor, saved preset positions of the arm and vice after cutting, automatic presetting of the movable guiding cube, and automatic change of the arm downfeed speed dependent on the material shape.







The working cycle starts by necessary presetting the machine to the operating position and by turning the arm for mitre cuts. When the material is inserted and the START button pressed, the material is clamped with a full-stroke hydraulic vice, the movable guiding cube is set, and the saw band starts running. Using an overflow valve, the operator selects the band's optimal speed and the arm downfeed speed. When the cutting is completed, the arm returns to its top position and the vice opens to the preset position. Then the cycle repeats.

Thanks to the system of input and output roller conveyors, transverse material feeders, and measuring length stops the cutting line may be assembled as required by the customer. Further, a wide range of additional equipment is available: oil mist cooling and greasing (Micronizer), a hydraulic band tensioning indicator, a laser line showing the future cut location, and many other devices supplied upon request.

Key features

- Hydraulic full-lift clamping vice
- Automatic control of saw band pressure to depth
- Sawing arm welded of steel plates
- Continuously adjustable saw arm feed to depth

Cutting parameters

					
0°	450	820x450	450	400	400
45°R	450	560x450	450		
45°L	450	560x450	360		
60°R	360	360x450	360		
60°L	360	360x450	360		

Technical specification

Working mode:	semiautomatic
Machine type:	Horizontal bandsaw
Cut:	Mitre cut
Mitre cuts range:	-60° - 60°
Drive:	4 kW, 3×400 V/50 Hz
Saw band speed:	20 - 120 m/min.
Saw band dimensions:	6 470×41×1,3 mm
Material loading height:	776 mm
Shortest remainder length:	30 mm
Smallest sawing diameter:	Ø 10 mm

Machine dimensions

Length:	3 750 mm
Width:	1 600 mm
Height:	2 487 mm
Weight:	2 800 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.

[Get more information > \(/products-band-saws/handling/handlingsystem-x-xp.html\)](#)

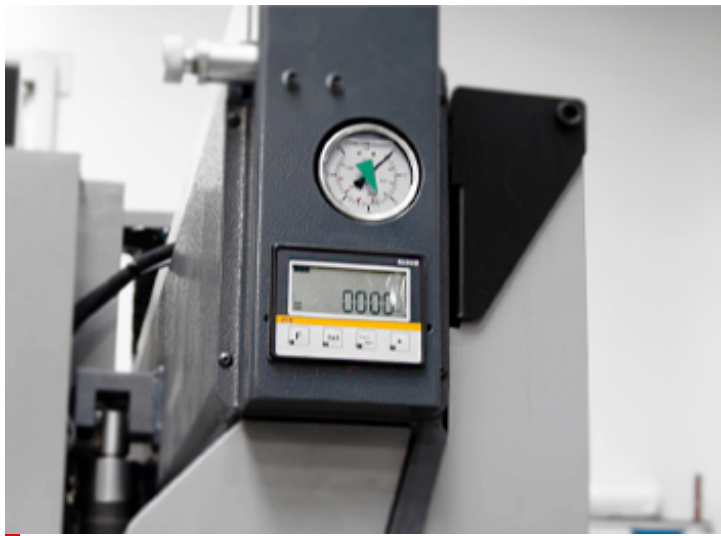


Accessories



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.



Downfeed speed readout

Allows easy and accurate reading of the current rate of descent of the machine arm into the cut.



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.

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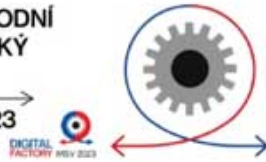
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