



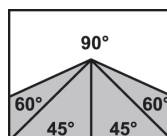
Pilous

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ARG 1100 DC S.A.F.



11060 x 67 x 1,6

	90°
●	1100
■	1100
■	1100 x 1100

Main motor	11 kW
Pump motor	0,09 W
Hydraulic motor unit	0,36 kW
Max. cutting in bundle	370 x 700 mm
Saw blade speed	10-115 m/min.
Saw blade tilt	0
Working height of vice	700 mm
Hydraulic system oil	Paramol HM 32
Coolant tank	160 l
Dimensions machine (max.)	5600 x 2500 x 3600 mm
Machine weight	10500 kg

DESCRIPTION

Massive double-column semi-automatic machine designed for versatile use in the industrial cutting of materials even in the most challenging and non-stop applications.

Exceptionally solid construction of the saw band arm and the massive dual-column arm support moving on linear lines ensure excellent stiffness of the whole system and accurate cut during industrial cutting of full materials. Robust industrial saw blade 67 x 1.6 mm is manufactured in many versions and allows for cutting of wide range of materials, including stainless steel or tool steel. For easier feed of heavy materials, the loading area is equipped with a pass-through roller track with a load-carrying capacity of 10 t/m. Full uplift vice ensures a quick and reliable workpiece clamping during cutting. The vice jaw together with the movable guide head of the saw blade are automatically adjusted on the linear guiding. Thus, it is located as close to the cut as possible, which contributes to the accuracy and speed of the cut and to the service life of the saw blade. Both guide heads of the saw blade are equipped with automatic control of the feed to the cut. The system monitors the current load on the saw blade and provides automatic coordination of an ideal cutting pressure and feed, considering the current profile of the material. This significantly speeds up as well as gives precision to the cut and increases the service life of the saw blade. Hydraulic saw blade tensioning controlled from the central panel ensures optimum tension and control of it during the operation of the machine. Optimum tensioning of the saw blade is essential for the service life of the saw blade and for the cutting accuracy. Accurate guidance of the saw blade on the guide heads is ensured by hydraulically clamped solid carbide guiding plates. Maximum cutting efficiency is maintained also thanks to the possibility of setting optimum saw blade speed by a frequency converter in the range from 10 to 115 m/min, which significantly contributes to cutting accuracy and service life of the saw blades.

Ergonomic central control panel ensures easy control of the machine.

After material clamping and pressing of a single switch, the machine will execute complete cutting cycle – workpiece clamping, saw blade and cooling system start, cutting, saw blade and cooling stop, arm uplift to the original adjustable position above the material. When you switch to the manual mode, you can control all functions separately. Large robust base and overall massive framework guarantee exceptional stability of the machine even when cutting heavy workpieces. For a comfortable chip removal, the machine can be equipped with a rake chip conveyor. The machine is equipped with a high-performance industrial hydraulic unit. Hydraulic unit allows you to set the required pressure of the vice. Hydraulic blade tensioning guarantees perfect tensioning of the saw blade..

- In order to achieve maximum accuracy and productivity, the machine is designed only for upright cutting.
- Very robust machine construction composes of massive castings and ensures safe vibration absorption.
- Large diameter blade wheels and precise three-side solid carbide blade guides ensure long service life of the blade and cutting accuracy.
- Overdesign of blade wheel bearings, tensioning wheel system and all rotary parts ensure long service life of the machine.
- Noiseless and maintenance-free band drive is provided by an industrial electric motor with bevel-spur gearbox.
- A circular steel brush powered by an industrial motor with a bevel-spur gearbox ensures removal of chips from the saw blade behind the cut.
- The machine is connected to a complete cooling system with a high-performance pump and possibility of regulating the flow on both guiding heads independently and on two additional adjustable outlets. Rinsing pistol is used for easy cleaning of the machine. Coolant tank of approx. 100 l with a high-performance pump are placed in the base of the machine.
- High-quality lighting of the work area by a line of powerful LEDs with a cover.
- The machine checks correct tension or breakage of the saw blade. If the saw blade breaks, the machine automatically switches off.



FR*

Frequency converter - Standard equipment

Enables continuous blade speed regulation between 15–90 m/min. and thus setting the optimum cutting conditions for the given material.



LA 50

Halogen lamp

Provides good lighting of the workplace of the machine. An invaluable tool especially when the lighting at the workplace is insufficient.



MM

Oil mist lubrication

Creates an oil mist that is sprayed onto the cutting edge. It replaces the use of a classic coolant, especially when cutting sections during which leakages may occur. Possibility of using organic oils.



LS

Laser alignment

High-quality industrial laser projects the cutting line on the material to be cut. Makes the setting of the required material length simpler, faster and more accurate.



RC

Chip rake conveyor

Ensures smooth removal of chips from the machine. Reduces the time needed for the cleaning of the machine especially when cutting series of full materials producing large amount of chips.



- Original bandsaw blades produced using the latest technology with top-quality German materials, while strictly complying with all stated production and control procedures.
- High productivity and precision of cut with the maximum service life of the blade is ensured.
- Wide range of produced types of sawblades and tooling enables the professional cutting of almost all available materials.

Bi-metal blade
Consists of bearing band from special steel on which a layer of HSS material is welded into where the teeth are milled.

Constant tooth spacing
The distance of the teeth are always the same.

Variable tooth spacing
The distance of teeth vary and is periodically repeated. This results in a greater cutting range, ability to further eliminate vibrations caused by the impact of the tooth blade on material, longer service life of the blade.

M42

Universal blade recommended for a wide palette of material, including tool steels and stainless steel up to hardness 45 HRC. Teeth are made from steel HSS-M42 containing cobalt.

M51

Blade for tool and stainless steel with hardness up to 50 HRC. Tooth tips are made from steel HSS-M42 containing cobalt and wolfram

Carbide

Consists of bearing band from special steel into which the teeth are milled on which especially grinded carbide plates are welded. The carbide mounted blade is recommended for cutting surface hardened materials, chrome parts, forged pieces and materials with external tenacity and hardness up to 62 HRC.

Cutting range

For optimal output of the blade, the correct selection of the size of the blade tooth is important depending on the size of the divided material.



Variable tooth spacing		Constant tooth spacing		Variable tooth spacing		Constant tooth spacing	
a(D) [mm]		a(D) [mm]		t [mm]		t [mm]	
0-25	10/14	0-10	18	0-4	10/14	0-1	18
20-40	8/12 (8/11)	5-20	14	3-6	8/12 (8/11)	0-3	14
30-60	6/10	20-40	10	6-9	6/10	4-7	10
40-70	5/8 (5/7)	40-80	6	9-13	5/8 (5/7)	8-11	6
60-110	4/6	80-120	4	12-16	4/6	12-15	4
80-140	3/4	120-200	3	16-22	3/4	16-20	3
120-350	2/3	200-400	2	20-35	2/3	21-30	2
250-550	1,4-2	300-800	1,25	30-85	1,4-2	31-90	1,25
380-750	1/1,5			40-85	1/1,5		
550-3000	0,75/1,25			80-200	0,75-1,25		

When selecting the number of teeth for the blade, the general principle applies of a minimum of 4 teeth, but no more than 30 teeth are in contact with the work piece.

Be careful when unpacking welded saw blades. They are in a shipping container in tensioned condition. Remove the saw blade cover only after fitting it onto the machine.



COOLcut Standard

COOLcut Standard – universal coolant and lubricant.

Recommended concentration 5–10 %. 5 litres pack. Dilution 1:20.

- fluid allows achievement of optimal lubricating and cooling properties during the machining process
- low aromatic, highly refined paraffinic oil
- effective corrosion inhibitors provide permanent protection of the workpiece and the machine from corrosion
- bio stability and excellent wettability ensure excellent cooling and lubricating effect even in very hard water
- minimum tendency to foaming ensures effective lubrication
- high efficiency and profitability of use

Except use on log band saws the product is designed for machining operations carried out both on conventional machines and NC and CNC machining centres.



COOLcut Opti

COOLcut Opti – universal coolant and lubricant. Such machining fluid allows achievement of unique lubricating and cooling properties during the machining process.

Recommended concentration 4–7 %. 1 and 5 litres pack. Dilution 1:20.

- low aromatic, highly refined mineral oil
- effective corrosion inhibitors provide permanent protection of the workpiece and the machine from corrosion
- above average stability and excellent wettability ensure excellent cooling and lubricating effect even in very hard water
- minimum tendency to foaming ensures effective lubrication
- high efficiency and profitability of use
- long-term biostability

In addition to use in saw bands the product is designed for machining operations carried out both on conventional machines and NC and CNC machining centres.



COOLcut Eco 65

COOLcut Eco 65 – universal cooling and lubricating emulsifying oil, well biodegradable according to OECD 301-D test. Biodegradability of 65 % in 21 days.

Recommended concentration 4–7 %. 5 litres pack. Dilution 1:20.

- Such machining fluid allows achievement of unique lubricating and cooling properties during the machining process
- highly refined synthetic ester oil
- effective corrosion inhibitors provide permanent protection of the workpiece and the machine from corrosion
- above average stability and excellent wettability ensure excellent cooling and lubricating effect even in very hard water
- minimum tendency to foaming ensures effective lubrication
- high efficiency and profitability of use
- long-term biostability

In addition to use in saw bands the product is designed for machining operations carried out both on conventional machines and NC and CNC machining centres.



COOLcut Bio 90

COOLcut Bio 90 – universal cooling and lubricating emulsifying oil, well biodegradable according to OECD 301-D test. Biodegradability of 90 % in 21 days. Due to its biodegradability it can be used in any outdoor environment without environmental damage.

Recommended concentration 4–7 %. 5 litres pack. Dilution 1:20.

- Such machining fluid allows achievement of unique lubricating and cooling properties during the machining process
- highly refined synthetic ester oil
- effective corrosion inhibitors provide permanent protection of the workpiece and the machine from corrosion
- above average stability and excellent wettability ensure excellent cooling and lubricating effect even in very hard water
- minimum tendency to foaming ensures effective lubrication
- high efficiency and profitability of use
- long-term biostability

In addition to use in saw bands the product is designed for machining operations carried out both on conventional machines and NC and CNC machining centres.



COOLcut Micro

COOLcut Micro – an easily biodegradable semi-synthetic cooling and lubricating micro-emulsion. Due to its biodegradability it can be used in any outdoor environment without environmental damage. Such machining fluid allows achievement of unique lubricating and cooling properties during the machining process.

Pack of 5 litres. Use undiluted.

- highly refined synthetic ester oil
- effective corrosion inhibitors provide permanent protection of the workpiece and the machine from corrosion
- above average stability and excellent wettability ensure excellent cooling and lubricating effect even in very hard water
- minimum tendency to foaming ensures effective lubrication
- high efficiency and profitability of use
- long-term biostability

In addition to use in saw bands the product is designed for machining operations carried out both on conventional machines and NC and CNC machining centres. 5 litres pack.



COOLcut Antifreeze

COOLcut Antifreeze – low-freezing ingredient for water miscible coolants used in winter in outdoors environment, up to minus 20 °C, depending on the dosage.

5 litres pack. Dilution 1:20.

- effectively lowers the freezing point of the fluid
- very good resistance to oxidation guarantees long service life
- does not act aggressively on the sealing elements (elastomers), to which it comes into contact.

Optima Antifreeze	(%)	10	20	30	40	50
Flowability temperature	(°C)	-5	-10	-17	-26	-40