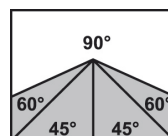


**Pilous**

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e-mail: metal@pilous.cz, www.pilous.cz**ARG 330 DC S.A.F.**

3870 x 34 x 1,1

	90°
●	330
■	310
■	360 x 310

Main motor	400 V, 50 Hz, 3 kW
Pump motor	400 V, 50 Hz, 0,12 kW
Hydraulic motor unit	400 V, 50 Hz, 0,55 kW
Saw blade speed	15-90 m/min.
Working height of vice	855 mm
Hydraulic system oil	cca 25 l (ISO 6743/4-HM, DIN 51 524 part 2-HLP)
Coolant tank	cca 30 l
Machine dimensions	Dimension drawing
Machine weight	1170 kg

DESCRIPCIÓN DEL PRODUCTO

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. A completely new revolutionary concept of the band saw arm casting and a unique design. The massive grey cast iron arm is entirely unique in the category of dual-column band saws. This, and the massive dual-column arm support moving on linear guides ensure excellent stiffness of the whole system and accurate cut during industrial cutting of full materials. Industrial band 34 x 1.1 mm is manufactured in many versions and allows for cutting of wide range of materials, including stainless steel or tool steel.

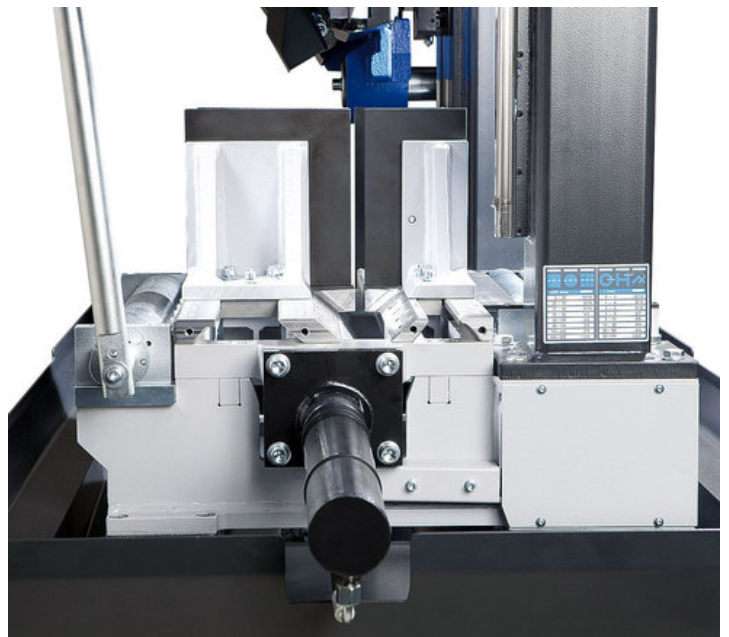
Optimum clamping of the workpiece when cutting is facilitated by full-stroke double-jaw vice which clamps the material both before and behind the cut. Pressing a single switch will execute complete cutting cycle – material clamping, band and cooling system start, cutting, band and cooling stop, arm uplift to the original adjustable position and vice unclamping. When you switch to the manual mode you can control all functions separately.

Easy intuitive controls through a touchscreen on an ergonomic rotary central control panel. The display also shows required lifting height of the saw band arm depending on the cross section of the material to be cut. Moreover it allows you to monitor the number of cut workpieces in the current settings and machine diagnostics (PLC inputs and outputs, history of errors). During cutting the display shows saw band speed, main engine load and any potential error messages.

The machine is equipped with a high-performance industrial hydraulic unit which allows setting of the contact pressure of the vice. Maximum cutting efficiency is maintained also thanks to the possibility of setting optimum saw band speed by a frequency converter in the range between 15 and 90 m/min., which significantly contributes to cutting accuracy and service life of saw bands. Large base and overall massive framework guarantee exceptional stability of the machine even when cutting heavy workpieces. By default the machine is equipped with a screw conveyor. Its location right below the cut ensures optimum removal of chips. The basic version of the vice assembly is also equipped with an eccentrically placed roller which allows easy manual lift of the material onto the loading area of the vice and therefore its smooth movement. The assembly is equipped with a material slide behind the cut. High-quality lighting of the work area by a line of powerful LEDs with a cover.

- In order to achieve maximum accuracy and productivity the machine is designed only for upright cutting.
- Very robust machine construction composes of massive castings from grey cast iron and ensures vibration absorption.
- Large diameter running wheels and precise three-side hardmetal guiding ensure long service life of the band and cutting accuracy.
- Overdesign of running wheel bearings, tensioning wheel system and all rotary parts ensures long service life of the machine.
- Noiseless and maintenance-free band drive is provided by an industrial electric motor with worm gearbox.
- The machine is connected to a complete cooling system with the possibility of regulating the flow on both guiding heads independently and on two additional adjustable outlets. The coolant tank with a high-performance pump are placed in the base of the machine.
- The machine checks correct tension or break of the saw band. If the saw band breaks the machine automatically switches off.

GALERÍA DE IMÁGENES



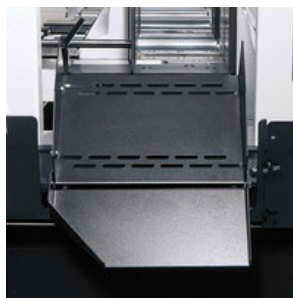




FR*

Convertidor de frecuencia - equipamiento estándar

Permite regular continuamente la velocidad de la cuchilla entre 15-90 m/min. y establecer así las condiciones de corte óptimas para el material de que se trate.



KL*

Vertedero de material - equipamiento estándar

Une continuamente el tornillo de banco detrás del corte y permite deslizar fácilmente las piezas cortadas en un contenedor cuando se cortan series más grandes. La construcción de la conducto, que consta de 2 partes, evita las fugas del refrigerante.



SD 520*

Transportador de virutas SD - Equipamiento estándar

Asegura la eliminación continua de virutas fuera de la máquina. Reduce el tiempo necesario para limpiar la máquina, especialmente durante el corte en serie de materiales sólidos, donde se genera una gran cantidad de virutas.



OPL*

Pistola de enjuague OPL - Equipamiento estándar

Sirve para limpiar el área de trabajo de la máquina.



LED*

Lámpara LED - Equipamiento estándar

La tira LED con cubierta asegura una iluminación de calidad del área de trabajo. Un ayudante invaluable, especialmente en condiciones de iluminación insuficiente en el lugar de trabajo.



HVP

Dispositivo de presión hidráulica HVP

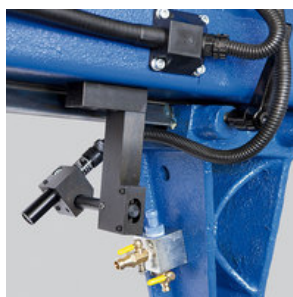
Sirve para sujetar el material durante el corte en paquete. Asegura una sujeción fiable mediante una presión vertical controlada hidráulicamente, que funciona en ciclo con toda la máquina.



MM

Lubricación por neblina de aceite MM

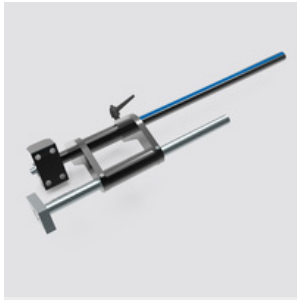
Crea una niebla de aceite que se pulveriza sobre el filo de corte. Sustituye al uso de un refrigerante clásico, especialmente al cortar secciones durante las cuales pueden producirse fugas. Posibilidad de utilizar aceites ecológicos.



LS

Alineación láser LS

El láser industrial de alta calidad proyecta la línea de corte sobre el material a cortar. Hace que el ajuste de la longitud de material requerida sea más sencillo, rápido y preciso.



DR 330 DC SAF

Tope de la pieza de trabajo

Tope robusto con escala de 500 mm para ajustar la longitud necesaria del material a cortar.



KDM

Cepillo de limpieza KDM

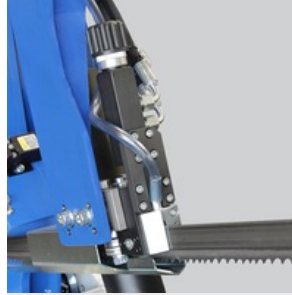
Cepillo de limpieza de acero, accionado por rueda motriz. Se utiliza para eliminar virutas de la cinta de sierra detrás del corte.



KDE

Cepillo de limpieza eléctrico KDE

Cepillo circular de acero accionado por un motor industrial con engranaje helicoidal. Se utiliza para eliminar virutas de la cinta de sierra detrás del corte.



AG 330 DC

Regulación de presión

Regulación automática de presión bidireccional controlada hidráulicamente de la cinta de sierra en el corte, dependiendo de la resistencia del material cortado. Reduce significativamente el tiempo de corte y prolonga la vida útil de la cinta de sierra.



CD

Indicador de tensión de la cinta de sierra CD

Garantiza un tensado preciso de la cinta de sierra al valor requerido según el manómetro y su control durante el uso de la máquina. La tensión óptima de la cinta de sierra es esencial para su vida útil y su precisión de corte.



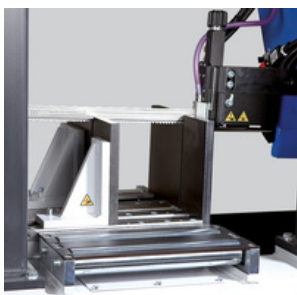
M2

Baliza de señalización M2

Sirve para el control visual remoto del estado de funcionamiento de la máquina. La baliza de dos colores está equipada con luces LED de alta luminosidad y visibilidad desde todas las direcciones gracias a la forma única de las lentes.

Luz verde: señala el modo de trabajo de la máquina, la cinta de sierra está en corte. Al finalizar el corte y detener la cinta de sierra, la luz se apaga y le indica que puede iniciar el siguiente corte.

Luz roja: señala una avería, por ejemplo, una cinta de sierra rota, sobrecarga del motor principal, cubierta de seguridad abierta y otros fallos que llevan a la parada de la máquina.



PV 330

Additional rollers PV

To be installed instead of the slide behind the cut. Facilitates the feed of the material when cutting long workpieces.

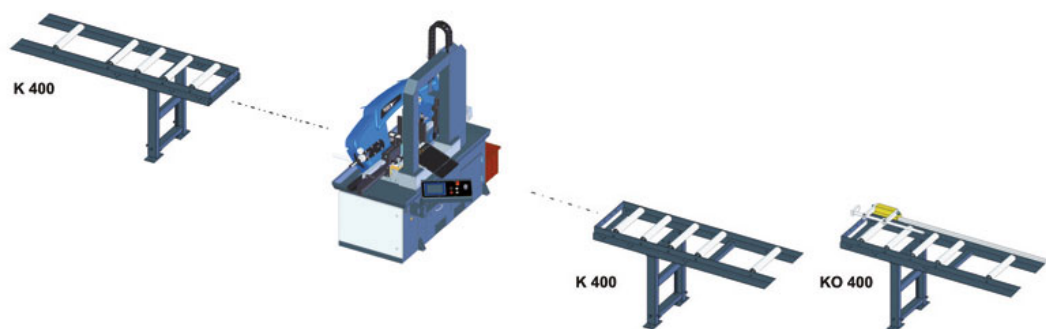


SDB

Contenedor de virutas SDB

Para una fácil manipulación, el contenedor está equipado con ruedas y un depósito basculante para virutas.

TRANSPORTADORES





- 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 toothings 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 toothing
The distance of the teeth are always the same.

Variable toothing
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 toothings		Constant toothings		Variable toothings		Constant toothings	
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

RECOMENDADOS



OH 90

Simple and very fast deburring of all kinds of sections (including the internal edges) or full material by a rotary steel brush. High quality construction of the machine along with a three-phase motor make use of the machine possible in specialized workshops as well as in production plants. Compared to manual deburring it reduces the required time and hence reduces your costs. While maintaining incomparably higher and balanced quality of deburring.

We recommend using stainless steel brush for stainless steel products.
Example of the difference between manual deburring (including internal edges) and OH 90

Hollow section 60 x 60 x 2 mm:	manual deburring - 32 s	machine OH 90 - 8 s
Tube diameter 50 x 2 mm:	manual deburring - 21 s	machine OH 90 - 4 s



OHE 90

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