CATÁLOGO

PILOUS P

Pilous

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ARG 330 plus F





3870 x 34 x 1,1

90°	-45°	+45°	+60°
330	240	250	165
320	200	230	150
400 x 200	250 x 140	250 x 170	150 x 150

Motor principal	400 V, 50 Hz, 3 kW
Motor de la bomba	400 V, 50 Hz, 0,12 kW
Velocidad de la hoja de sierra	15-90 m/min.
Altura de trabajo de la mordaza	945 mm
Tanque de refrigerante	cca 35 l
Dimensiones de la máquina (min)	2290 x 1360 x 1660 mm
Dimensiones de la máquina (max)	2650 x 2040 x 2050 mm
Peso de la máquina	835 kg

DESCRIPCIÓN DEL PRODUCTO

A completely new, revolutionary concept of the band saw arm casting and a new, unique design. The band saw arm casting is hollow in its full length and it forms a closed section. This ensures optimum stiffness of the whole system and maximum accuracy cutting. The robust band saw is generally suitable for all demanding production plants. The saw band sized 34 x 1.1 mm ensures accurate cutting of large cross-sections.

The band is manufactured in many versions and allows for cutting of wide range of materials, including stainless steel or tool steel. Vice system contributes to versatility of use by providing bilateral continuous setting of the cutting angle within the ranges 60° to the right and 45° to the left. The band saw arm uplift is manual; the feed into cut is carried out by the weight of the arm, with the possibility of smooth continuous regulation by the oil damper butterfly valve. When the cut is finished the band saw drive automatically switches off. To facilitate easy arm uplift the machine is equipped with adjustable tension springs that allow for setting of optimum force required for the arm uplift according to characteristics of the material to be cut. Maximum cutting efficiency is maintained also thanks to the possibility of setting optimum saw band rate 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. The turntable rotates along with the saw band. Thanks to that the saw band does not cut into the loading surface of the vice. Ergonomic base allows you to install the machine even in confined spaces.

• Very robust machine framework composes of castings from grey cast iron and ensures vibration absorption.

• In order to achieve maximum stiffness of the whole system and cutting accuracy, the band saw arm is attached to a sturdy turntable on both sides in massive housing fitted with pre-stressing tapered roller bearings.

Modern concept of the band saw arm allows for large cutting ranges in both upright and angular cutting.

• Massive arm turning system with large loading surfaces ensures exceptional stability of the machine even when cutting heavy workpieces.

• Simple locking and adjusting of the desired cutting angle on the angle scale with stops fixed at 60° to the right and 45° to the left.

· Massive quick-clamping vice ensures easy and reliable material clamping.

• Large diameter running wheels and precise three-side hardmetal guiding ensure long service life of the band and cutting accuracy. 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 a high-performance pump and possibility of regulating the flow on both guiding heads independently. Coolant tank with a pump is placed in the base of the machine.

• All of electrical wiring and coolant distribution are concealed in hollow parts of the arm which means they are protected from damage.

• The new concept of the arm also brings a great simplification when changing the saw band or when cleaning the inside of the arm. You just need to open the hinged back cover of the arm and it will stay locked in the upper position.

• The machine checks correct tension or break of the saw band. If the saw band breaks the machine automatically switches off.

• Easy control by ergonomically placed controls (electrical and hydraulics) on the base of the machine.

• The machine is equipped with a hinged stop with a 500mm scale. Hinged system prevents the workpiece from jamming during cutting.

GALERÍA DE IMÁGENES







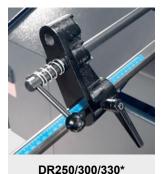








ACCESORIOS



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



FR*

Convertidor de frecuencia equipamiento estandar

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.



VP

Dispositivo de presión

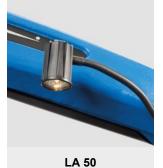
Se utiliza para sujetar los paquetes de material a cortar. Garantiza una sujeción simple y confiable del material mediante una presión de contacto vertical.



KL

Vertedero de material

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.



Lámpara halógena

Proporciona una buena iluminación del lugar de trabajo de la máquina. Una herramienta invaluable, especialmente cuando la iluminación del lugar de trabajo es insuficiente.



ΜМ

Lubricación por neblina de aceite

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.



Alineación láser

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.



Cepillo de limpieza

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

LS



KDE

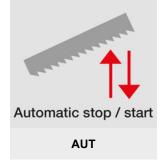
Cepillo de limpieza eléctrico

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.



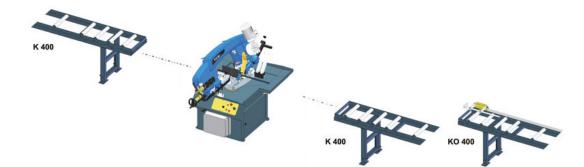
Indicador de tensión de la cinta de sierra

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.



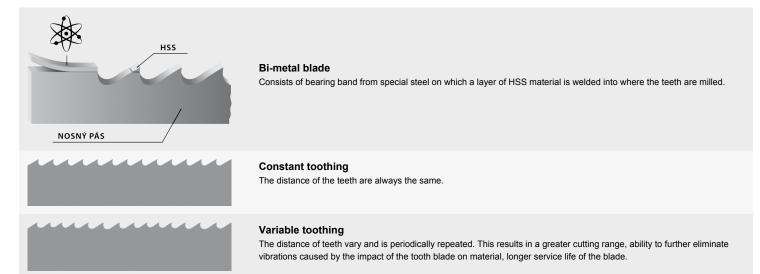
Descenso automático del brazo En las máquinas estándar, la válvula de control del descenso del brazo tiene que cerrarse después de la elevación del brazo y para el siguiente descenso del brazo, la velocidad de descenso tiene que ajustarse de nuevo. En esta versión, la válvula de control está equipada adicionalmente con una válvula electrohidráulica, que permanece después de la elevación del brazo en la posición ajustada. Después del arranque de la hoja de sierra, se libera automáticamente y el brazo desciende al corte a una velocidad establecida. Por lo tanto, el ajuste de la velocidad de descenso para cada corte cae. Esto elimina significativamente los errores del operador, protegiendo así las hojas de sierra y aumentando también la productividad de la máquina. Una ayuda ideal para cortar material en series más grandes.

TRANSPORTADORES



MAXtech

- 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 toothing enables the professional cutting of almost all available materials.



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

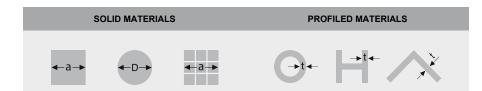
Blade for tool and stainless steel with hardness up to 50 HRC. Tooth tips are made from steel HSS-M42 containing cobalt and wolfram

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	toothing	Constan	t toothing	Variable toothing		Constant toothing	
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.

EMULSIONES



COOLcut Standard



COOLcut Opti



COOLcut Eco 65



COOLcut Bio 90

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 – 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 – 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 – 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 – 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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