CATÁLOGO



Pilous

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ARG 300 plus S.A.F.







	90° -45° +45°		+60°	
•	300	220	240	155
	290	195	225	150
	375 x 190	240 x 100	240 x 160	150 x 150

Main motor	400 V, 50 Hz, 2,2 kW
Pump motor	400 V, 50 Hz, 0,05 kW
Hydraulic motor unit	400 V, 50 Hz, 0,55 kW
Saw blade speed	15-90 m/min.
Working height of vice	910 mm
Hydraulic system oil	cca 25 I (ISO 6743/4-HM, DIN 51 524 part 2-HLP)
Coolant tank	cca 15 l
Machine dimensions (min.)	1740 x 950 x 1560 mm
Machine dimensions (max.)	2190 x 1870 x 2050 mm
Machine weight	690 kg

DESCRIPCIÓN DEL PRODUCTO

A new unique design. An upgraded version of the legendary ARG 300 model series, manufactured for over 20 years, with a completely new saw blade arm.

The most up to date concept of the cast iron arm creates a closed section that is hollow along its full length at all load-carrying points. This guarantees outstanding stiffness of the entire system, maximum accuracy during cutting and a long service life of the saw blade. 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. Apart from the new saw arm design, there are many technological adjustments that improve user comfort as well as the quality and durability of the machine.

Exceptionally robust universal band saw is appraised for general use in continuous uninterrupted production plants and in workshops (work on locks, maintenance) as well. Industrial band 27 x 0.9 mm 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 machine is equipped with high-performance industrial hydraulic unit. 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. All of this in connection with hydraulics-controlled saw band feed into cut significantly increases cutting efficiency, especially in larger series and cutting of full and highquality materials. When you switch to the manual mode you can control all functions separately. Hydraulic unit allows you to set the required pressure of the vice. 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. Large base and massive arm turning system with large loading surfaces ensure exceptional stability of the machine even when cutting heavy workpieces.

- Robust machine framework consisting of castings from grey cast iron ensures vibration absorption.
- · Modern concept of the band saw arm allows for large cutting ranges in upright and angular cuts.
- 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.
- The turntable rotates along with the saw band. Thanks to that the saw band does not cut into the loading surface of the vice.
- · 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.
- · 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 quiding heads independently. Coolant tank with a pump is 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.
- 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





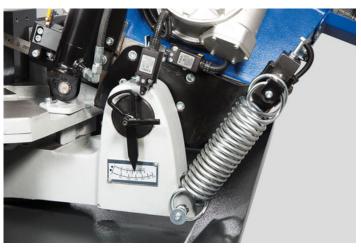














ACCESORIOS



DR250/300/330*

Tope de la pieza de trabajo equipamiento estandar

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



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.



HVP

Hydraulic pressure device

Used to clamp bundles of material to be cut. Ensures reliable clamping by hydraulically controlled vertical contact pressure working within the machine's cycle.



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.



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.



KDM

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.



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.



Rinse spray gun

For cleaning working space of the machine.



Electronic arm uplift height setting

On a standard machine, the arm uplift height is adjusted manually on a scale located on the machine's joint. This version is fitted with a sensor on the machine's joint. If you set the desired arm uplift height before serial cutting in manual mode, the set arm uplift height is stored in the machine memory after switching the machine to semi-automatic mode. After the workpiece is cut, the arm is automatically raised to the set arm uplift height.



Stainless steel container and chip separator

The robust stainless steel container is an optional accessory enabling the machine to be complemented with a chip separator. The chip separator is a galvanized, finely perforated container for efficient collection of sawdust that has passed through a sieve in the base. This container is easily removable when filled and is easy to clean outside the machine.



SPM magnetic separator+

Stainless steel container and magnetic chip separator

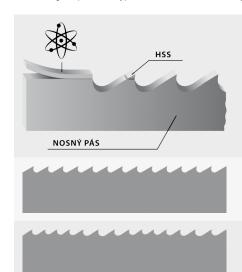
The robust stainless steel container is an extra accessory enabling the machine to be complemented with a magnetic chip separator. For particularly fine chips that have passed through the sieves in the saw, a highly efficient magnetic separator is used. It saves time for cleaning and disassembling the cooling path and extends the service life of the cooling emulsion. This device is easily removable and easy to clean outside the machine by simply pulling the magnetic bars out of the housing.

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 toothing 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

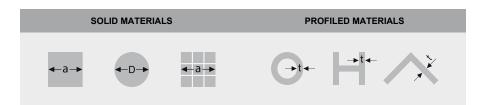
Blade for tool and stainless steel with hardness up to 50 HRC. Tooth tips are made from steel HSS-M42 containing cobalt and wolfram

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 toothing		Constant 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.











EMULSIONES



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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