CATÁLOGO

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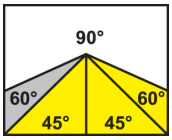
# ARG 250 plus




2710 x 27 x 0,9

| | 90° | -45° | +45° | +60° |
|---|---|---|---|---|
| ● | 250 | 180 | 200 | 125 |
| ■ | 240 | 160 | 190 | 120 |
| ▬ | 300 x 200 | 190 x 100 | 190 x 190 | 120 x 130 |

| | |
|---|---|
| Main motor | 400 V, 50 Hz, 0,9/1,4 kW |
| Pump motor | 400 V, 50 Hz, 0,05 kW |
| Saw blade speed | 40/80 m/min. |
| Working height of vice | 910 mm |
| Coolant tank | cca 15 l |
| Machine dimensions (min.) | 1620 x 950 x 1420 mm |
| Machine dimensions (max.) | 1860 x 1680 x 1980 mm |
| Machine weight | 465 kg |

# DESCRIPCIÓN DEL PRODUCTO

**Universal robust band saw is appraised for general use in continuous uninterrupted production plants and in work-shops (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.**

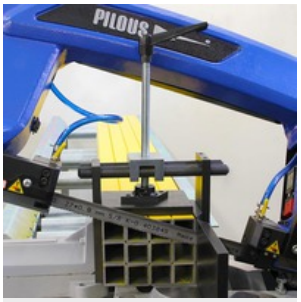
The band saw arm uplift is manual; the feed into cut is carried out by the weight of the arm, with the possibility of continuous regulation by the oil damper butterfly valve. When the cut is finished the band saw drive automatically switches off. To facilitate easy arm uplift the machine is equipped 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. 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. 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 composes of castings from grey cast iron and therefore 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.
• Three-phase two-speed motor (400 V) allows you to select the speed of 40 or 80 m/min. according to characteristics of the material to be 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. Coolant tank with a pump is placed in the base of the machine.
• 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.

# ACCESORIOS

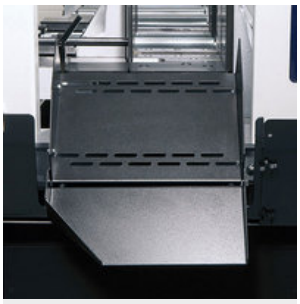
**DR250/300/330***

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




**VP**

**Dispositivo de presión VP**
Sirve para sujetar el material durante el corte en haces. Permite una sujeción sencilla y fiable del material mediante presión vertical manual.



**KL**

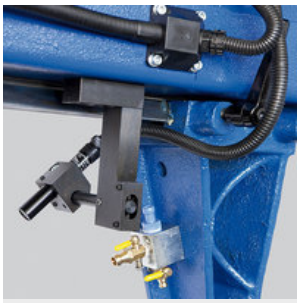
**Vertedero de material KL**
Une continuamente el tornillo de banco detrás del corte y permite deslizar fácilmente las piezas cortadas en un contenedor cuando se cortan series más grandes. La construcción de la conducto, que consta de 2 partes, evita las fugas del refrigerante.

**LA 50**

**Lámpara halógena LA 50**
Proporciona una buena iluminación del lugar de trabajo de la máquina. Una herramienta invaluable, especialmente cuando la iluminación del lugar de trabajo es insuficiente.

**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.

**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.

**OPL**

**Pistola de enjuague OPL**
Sirve para limpiar el área de trabajo de la máquina.

FR

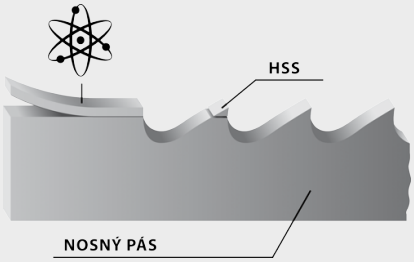
**Convertidor de frecuencia FR**
Permite la regulación continua de la velocidad de la cinta de sierra en el rango de 15 a 90 m/min, ajustando así las condiciones de corte óptimas para el material dado.

*) Is always a part of the conveyor.

Note: You can connect M280 behind the cut as a conveyor only if angular cutting isn‘t required.

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.




**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.

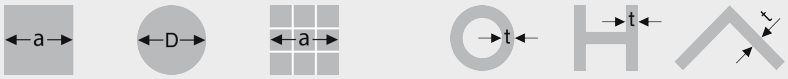
**M42**
Universal blade recommended for a wide palette of material, including tool steels and stainless steel up to hardness 45 HRC. Teeth are made from steel HSS-M42 containing cobalt.

**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.

| SOLID MATERIALS | PROFILED MATERIALS |
|---|---|




| 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.

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 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
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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 |

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