PILOUS

PALSON

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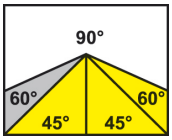
ARG 330 plus H.F.



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

Main motor	400 V, 50 Hz, 3 kW
Pump motor	400 V, 50 Hz, 0,12 kW
Hydraulic motor unit	400 V, 50 Hz, 0,18 kW
Saw blade speed	15-90 m/min.
Working height of vice	945 mm
Hydraulic system oil	cca 6 l (ISO 6743/4-HM, DIN 51 524 part 2-HLP)
Coolant tank	cca 35 l
Machine dimensions (min.)	1350 x 2200 x 1750 mm
Machine dimensions (max.)	2050 x 2600 x 2150 mm
Machine weight	845 kg

DESCRIPTION

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 machine is equipped with a simple hydraulic unit which facilitates the automatic uplift of the saw band arm after the cut is finished. In contrast to manual uplift this system makes the operation of the machine much easier, especially when cutting larger series. Uplift height can be adjusted according to the size of the material to be cut. 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 cutting is finished the band drive automatically switches off and the arm goes up to the set position. 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. 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 “houses” 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 45°, 60° and 90°.
• 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 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.

ACCESSORIES

DR250/300/330*

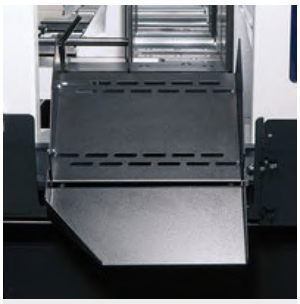
Workpiece stop - Standard equipment
Robust stop with a 500mm scale for setting the required length of the material to be cut.

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.

VP

Pressure device
Used to clamp the bundles of material to be cut. Ensures simple and reliable material clamping using a vertical contact pressure.



KL

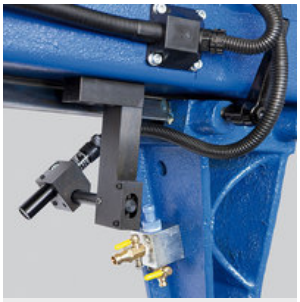
Material chute
Continuously joins the vice behind the cut and allows for easy slide of cut pieces into a container when cutting larger series. The chute construction consisting of 2 parts prevents leakage of the coolant.

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.

KDM

Cleaning brush
Steel cleaning brush, driven by driving wheel. Used to remove chips from the saw band behind the cut.

KDE

Electrical cleaning brush
Steel circular brush powered by and industrial motor with worm gearbox. Used to remove chips from the saw band behind the cut.

CD

Saw band tension indicator
Ensures accurate tensioning of the saw band to a required value according to the pressure gauge and its control during the use of the machine. Optimum tensioning of the saw band is essential for its service life and cutting accuracy.

CONVEYORS