PILOUS ®

PALSON

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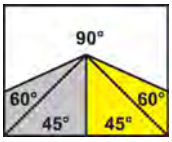
ARG 330 S.A.F.



3870 x 34 x 1,1

	90°	+45°	+60°
●	330	250	165
■	320	230	150
▬	400 x 200	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, 0,55 kW
Saw blade speed	15-90 m/min.
Working height of vice	940 mm
Hydraulic system oil	cca 25 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	665 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.

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. 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. When you switch to the manual mode you can control all functions separa-tely. The machine is equipped with a high-performance industrial hydraulic unit which allows setting of the contact pressure of the vice. 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 high-quality materials. 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 overall stability of the machine is also ensured by a robust base. By default machine is equipped with a removable chips container or with an additional conveyor.

• Continuous adjustment of the cutting angle within the range 90°–60° when the workpiece is clamped tight.
• Massive arm turning system with large loading surfaces ensures exceptional stability of the machine even when cutting heavy workpieces.
• 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.
• Simple locking and adjusting of the desired cutting angle on the angle scale.
• Massive 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.
• Easy control by ergonomically placed controls (electrical and hydraulics) on a rotary panel.
• The machine checks correct tension or break of the saw band. If the saw band breaks the machine automatically switches off.
• The machine is equipped with a hinged stop with a 500mm scale. Hinged system prevents the workpiece from jamming during cutting.

PHOTOGALLERY

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.

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

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.

AG 330/380/400

Pressure regulation
Hydraulically controlled one-sided automatic regulation of saw band feed into cut according to the resistance of the material to be cut. Significantly reduces the cutting time and service life of the saw band.

SD

Screw chips conveyor
Ensures smooth removal of chips from the machine. Reduces the time needed for the cleaning of the machine especially when cutting series of full materials producing large amount of chips.

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.

OPL

Rinse spray gun
For cleaning working space of the machine.

SDB

Chip container
For easy handling is chip container equiped with wheels and swivel chip bin.

CONVEYORS