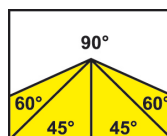




## ARG 500 plus S.A.F.



6040 x 41 x 1,3

	90°	-45°	+45°	+/- 60°
●	500	500	500	350
■	450	440	440	310
■	620 x 450	440 x 450	430 x 450	310 x 400

Main motor	400 V, 50 Hz, 4 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	870 mm
Hydraulic system oil	cca 26 l (ISO 6743/4-HM, DIN 51 524 part 2-HLP)
Coolant tank	cca 35 l
Machine dimensions	<a href="#">Dimension drawing</a>
Machine weight	1530 kg

## DESCRIPTION

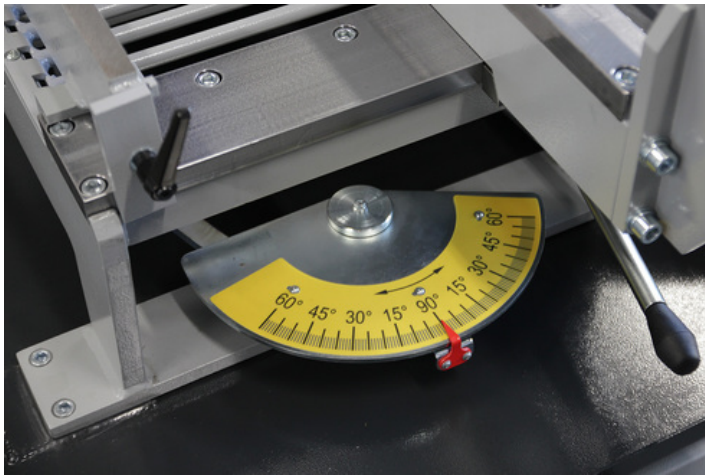
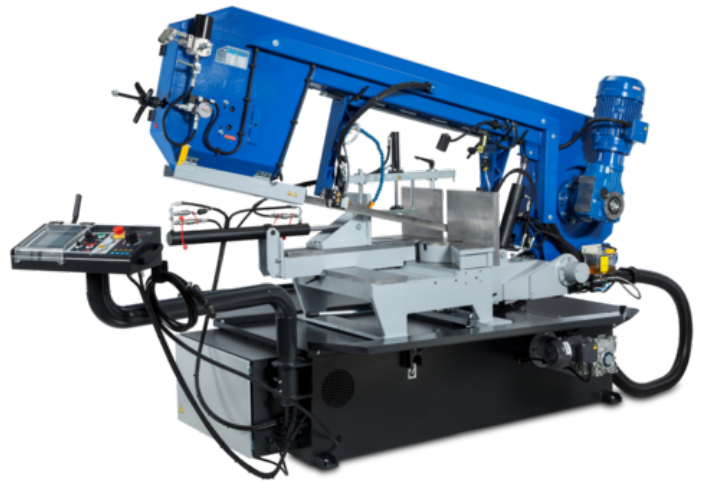
**The modern conception of a massive band saw arm allows for industrial cutting of full materials of large sections, cutting of very large sections and also for angular cutting. That is why the maximum cutting angle range of 60° to the right and 60° to the left is available. The robust industrial band saw is generally suitable for all demanding production plants. The saw band sized 41 x 1.3 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.**

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. The display also shows cutting angle settings. Special accessories.

When you switch to the manual mode you can control all functions separately. 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. 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. Both saw band guiding heads are fitted with automatic regulation of feed into cut, which significantly increases the rate and accuracy of cutting and service life of the saw band. 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 ergonomic base of the machine is by default equipped with a removable chips container or with an additional chips conveyor. Powerful, separately powered cleaning brush for removal of chips from the saw band.

- 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 housings fitted with pre-stressing tapered roller bearings.
- The turntable rotates along with the saw band. Thanks to that the saw band does not cut into the loading surface of the vice.
- The system is mounted on tapered roller bearings in order to facilitate the easiest possible rotation of the arm during angular cutting.
- Simple locking and adjusting of a required cutting angle on the angle scale or, as additional accessories, digital monitoring on a touch screen.
- Massive full uplift vice ensures easy, fast 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 and on an additional adjustable outlet. 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 a rotary panel.
- The touch screen, PLC, and frequency inverter are provided by Schneider Electric.

## PHOTOGALLERY



## ACCESSORIES



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.



KDE\*

### Electrical cleaning brush - Standard equipment

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



AG\*

### Pressure regulation - Standard equipment

Hydraulically controlled double-side 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.



HVP 500 PLUS

### Hydraulic pressure device HVP

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



LA 50

### Halogen lamp LA

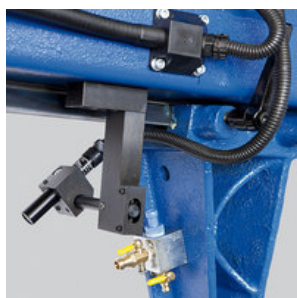
Provides good lighting of the workplace of the machine. An invaluable tool especially when the lighting at the workplace is insufficient.



MM

### Oil mist lubrication MM

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 LS

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.

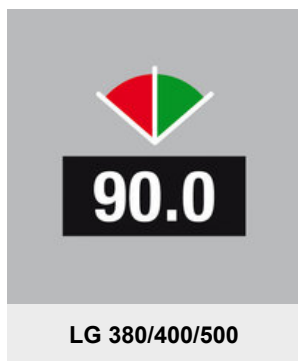


DR 380/400/500

### Workpiece stop

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





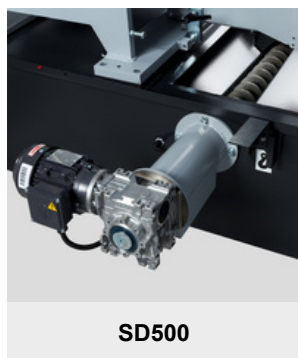
#### Display of angles

Digital scanning of set cutting angle ensures fast and accurate setting of the required angle. The value is displayed with an accuracy of 0.1 degrees on a central touchscreen. We recommend this equipment especially for a frequent angular cutting.



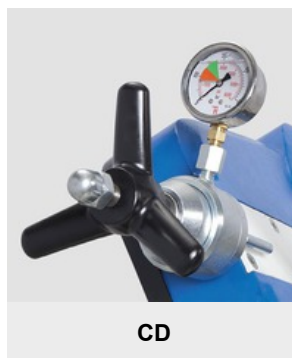
#### Hydraulic tensioning

Ensures convenient tensioning of the saw band by a manual hydraulic pump 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.



#### Screw chips conveyor SD

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.



#### Saw band tension indicator CD

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.



#### Rinse spray gun OPL

For cleaning working space of the machine.



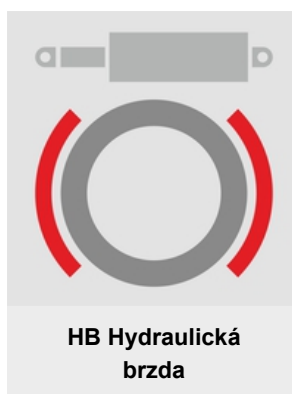
#### Bevel gearbox with 5,5 kW motor

Bevel gearbox with stronger motor 5,5 kW increases cutting power. Efficient for highly productive cutting of tough metal, e.g. stainless steel.



#### Chip container SDB

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



#### Hydraulic brake of the arm swiveling

Device allows easy fixation of the arm position from the control panel.



**SP separator+**

#### **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.