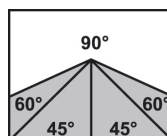




SRL "Global Palson Group"
 str. M. Sadoveanu, 11/1-98
 mun. Chisinau MD-2044
 R. Moldova
 tel: 060-171-730; 060-171-753
 e-mail: sales@palsonglobal.com
 www.palson-cnc.md

ARG 520 DC CF-NC Automat



5770 x 41 x 1,3 kW

	90°
●	520
■	500
■	700 x 480

Main motor	400 V, 50 Hz, 4 kW
Servo motor of the feed	400 V, 50 Hz, 4,5 kW
Pump motor	400 V, 50 Hz, 0,12 kW
Hydraulic motor unit	400 V, 50 Hz, 1 kW
Feed rate of material	1,6 / 2,5 / 3 m/min.
Saw blade speed	15-90 m/min.
Working height of vice	920 mm
Hydraulic system oil	cca 26 l (ISO 6743/4-HM, DIN 51 524 part 2-HLP)
Coolant tank	cca 35 l
Machine dimensions (min.)	3200 x 2500 x 3000 mm
Machine dimensions (max.)	3880 x 2770 x 3630 mm
Machine weight	3100 kg

DESCRIPTION

Massive double-column semi-automatic machine designed for versatile use in the industrial cutting of materials even in the most challenging and non-stop applications and also for cutting heavy workpieces of larger cross-sections. Exceptionally solid construction of the saw band arm and the massive dual-column arm support moving on linear lines ensure excellent stiffness of the whole system and accurate cut during industrial cutting of full materials. Industrial band 41 x 1.3 mm is manufactured in many versions and allows for cutting of wide range of materials, including stainless steel or tool steel.

The machine is equipped with a workpiece feed by industrial servomotor (servomotor with planetary gear) with a new control system. The servomotor and ball screw ensure high speed and maximum accuracy of workpiece feed, even in multiple feed when cutting long pieces. Options of setting three feed rates – 27, 42 or 50 mm/s according to weight and length of the workpiece to be cut. Maximum length of a single feed is 600 mm.

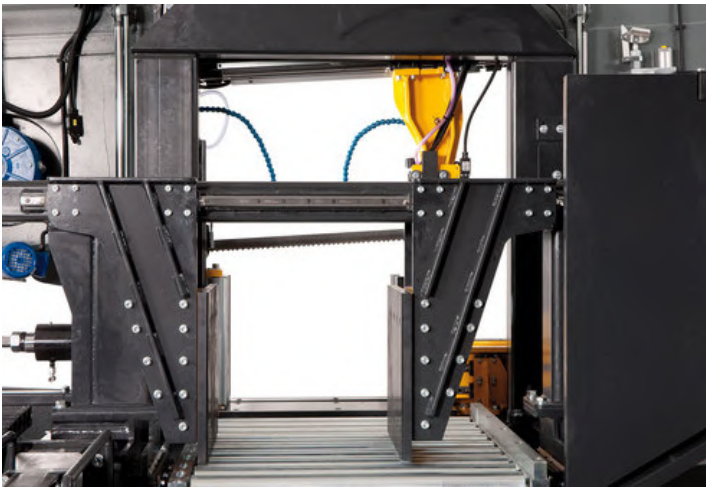
Central control panel with a big colour touch screen (7.5") ensures simple intuitive control of all features of the machine. The control unit allows for programming of up to 60 programmes for quick setting of the feed length in repetitive production. Each programme can be annotated, e.g. by the drawing number. Possibility of programming and cutting of different number of pieces of different sizes without the need for further operation of the machine. The machine can be controlled in fully automatic, semi-automatic or manual mode. In manual mode all functions of the machine are controlled separately.

Due to very cutting of very heavy workpieces the loading floor is equipped with a robust rollers along its entire length, allowing easy motion of the material. Optimum clamping of the workpiece when cutting is facilitated by a full-stroke double-jaw vice which clamps the material both before and behind the cut. The vice moves along linear guides. The moving guide block is adjusted together with the vice jaw. That means that it is always automatically closest to the cut, which contributes to cutting accuracy and speed. Saw band guide block holder also moves along the linear guides. Extremely robust feeding full-lifting vice moves again along the linear guides. For maximum performance the servomotor with ball screw is additionally equipped with cutting-edge planetary gear, which guarantees easy motion of even the heaviest materials. For the expected cutting of very heavy and often uneven materials, e.g. forgings, the vice is equipped with a system gaping simultaneously both jaws. The fixed jaw pushes aside by 15 mm from the material, the movable jaw with full-lifting hydraulic cylinder pushes during the automatic operation also by 15 mm. Therefore there is not any conflict between the feed vice and material, and also the accuracy of the feed is ensured. The machine is equipped with a high-performance industrial hydraulic unit. Horizontal and possibly vertical clamping of the material and motion of the sawblade arm to the cut and back into the required position according to the diameter of the material are also hydraulically operated. Hydraulic unit allows you to set the required pressure of the vice.

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 speed 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 overall massive framework guarantee exceptional stability of the machine even when cutting heavy workpieces. By default the machine is equipped with a screw conveyor. Its location right below the cut ensures optimum removal of chips. Chips are driven into a metal container with a removable drip tray. The container is a part of the machine base, it is equipped with wheels and simply retractable. High-quality lighting of the work area by a line of powerful LEDs with a cover. Behind the cut the vice can be fitted with a supporting roller for cutting long pieces or a slide of material for short pieces.

- In order to achieve maximum accuracy and productivity the machine is designed only for upright cutting.
- Very robust machine construction composes of massive castings from grey cast iron and ensures safe vibration absorption.
- Large diameter running wheels and precise three-side hardmetal guiding ensure long service life of the band and cutting accuracy.
- Easy intuitive controls by ergonomically places controls on the control panel.
- 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 highperformance pump and possibility of regulating the flow on both guiding heads independently and on two additional adjustable outlets. Coolant tank with a high-performance 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.

PHOTOGALLERY





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.



SD 520*

Screw chips conveyor - Standard equipment

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.



OPL*

Rinse spray gun - Standard equipment

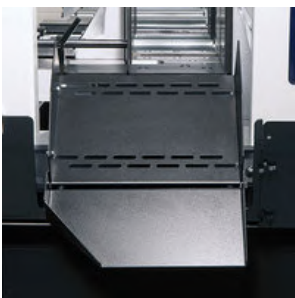
For cleaning working space of the machine.



LED*

LED Light - Standard equipment

High-quality lighting of the work area by a line of powerful LEDs with a cover. An invaluable tool especially when the lighting at the workplace is insufficient.



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.



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.



HD

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.



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.



M2

Signalling beacon M2

Signalling beacon is designed for a remote check of the working status of the machine. Dichromatic beacon is fitted with LED lights of a high luminosity and visibility from all directions, thanks to a unique shape of lenses.

Green light – indication of a working mode of the machine, sawblade is in the cut. After cutting operation and sawblade stopping the light switches off signalling that a next cut can be started.

Red light – indication of malfunction, e.g. broken sawblade, main motor overload, opened safety cover and other failures leading to the stop of the machine.



M3

Signalling beacon M3

Signalling beacon is designed for a remote check of the working status of the machine. Trichromatic beacon is fitted with LED lights of a high luminosity and visibility from all directions, thanks to a unique shape of lenses.

Green light – indication of a working mode of the machine, sawblade is in the cut. After cutting operation and sawblade stopping the light switches off signalling that a next cut can be started.

Red light – indication of malfunction, e.g. broken sawblade, main motor overload, opened safety cover and other failures leading to the stop of the machine.

Blue light - indication of material ending etc.



PV

Additional roller

To be installed instead of the slide behind the cut. Facilitates the feed of the material when cutting long workpieces.



BG

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.



SDB 520

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



SP separator

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

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.

CONVEYORS

