



SHARK












350 CNC HS 4.0

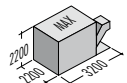
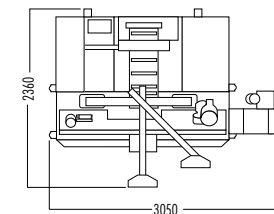
Shark 350 CNC HS 4.0, electro-mechanic double-column bandsaw for 0° cuts on structural, stainless and alloys steels, profiles and solid parts, with dimensions up to 350x350 mm.

- Designed for safety with "saw-in-a-box" style.
- Great accessibility to the saw either for set-up, maintenance and blade change.
- Saw head powered by servo motor, mounted on dual post and linear guides with pre-loaded ball bearings granting a continuous check and correction of cutting parameters in real time.
- Motorized chip conveyor which can be assembled on the left or right handside of the machine.
- Variable vice pressure allow to set the clamping force.
- Two vertical rollers assembled on the feeding vice to help align the material.
- CNC machine with MEP 40 controller that has been specifically designed by MEP for the automation of its range of products.
- Shark 350 CNC HS 4.0 is equipped with a controller with processor RISC 32 bit 200 MHz with integrated interface to:
 - Connect to an Ethernet network for the remote assistance service.
 - Get software updates and changes by e-mail, that are transferred to USB port by SD or MMC card and later on the control memory, through the suitable slot on the control console.



OPTIONALS FROM PAG 27 - N° 01 - 02 - 03 - 04 - 17 - 18 - 19 - 20 - 25 - 29 - 33 - 43 - 49 - 50 - 51 - 52 - 59 - 67

													
	m/min	kW	kW	mm		mm	mm	kg	kW	l	kW	l	mm
STANDARD	15÷115	5,5	11,0	4640x34x1,1									
OPTIONAL	15÷200	5,5	11,0	4640x34x1,1	0°	350	350	2800	1,1	70,0	2x0,18	230	355
	15÷115	5,5	11,0	4640x41x1,3									
	15÷200	5,5	15,0	4640x41x1,3									



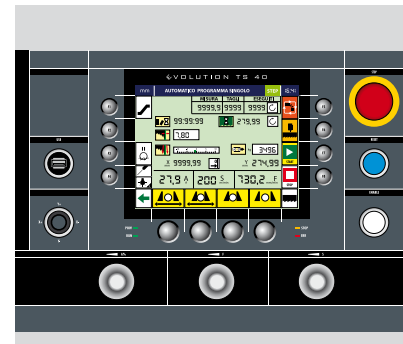


- Pre-set cutting parameters according to geometry and type of material selected from the material library in the control.
- When equipped with sensors (OPTIONAL) that read the beginning and end of the bar, the CNC control activates 3 cycles:
 - 1- PROGRESSIVE FEEDING CYCLE: cuts progressively all the length of pieces that are obtained in one stroke (600mm) which brings down cutting times.
 - 2- FEEDING REST PIECE CYCLE: the rest piece which no longer can be automatically fed is located by sensors and fed again.
 - 3- Cutting cycle "RECUPERATING REST PIECE" this cuts bars at the front and back having the back part of the bar sufficient in order to obtain the last length programmed but insufficient to complete the cut. The CNC control makes it possible to cut the scrap piece keeping blocked the good piece.
- CLEAN CUT CYCLE: the feeding vice moves backwards the material once the cut has been completed. This eliminates any scratches caused by the blade during its return to its starting position.
- 8" touch screen display operator interface and pushbuttons for all functions of the sawing machine. It is simple and intuitive with a self-learning feature, it guarantees a reliable use and it controls all cutting parameters in real time.
- Upper and lower saw head limits and bar feeder forward/backward, are set through a joy-stick according to dimension of the material.



- Programmable plc up to 300 different jobs which can be made in sequence.
- Structure in grey cast iron g25, reducing drastically vibrations, grant a better stability and longer blade life.
- Cutting head downfeed movement with brushless motor and 40 mm diameter pre-loaded ball bearings in order to obtain the maximum rigidity during the cut and to control and check the cutting parameters inputted in real time.
- Hydraulic power pack to power saw head, main and feeding vices.
- Electronic inverter for infinite variable band saw blade speed (from 15 to 115m/min).
- Bar feeder with stepper motor and ball screw. Multi-indexing up to 600mm in a single stroke with automatic blade kerf compensation.
- Minimum bar remnant of 120 mm in automatic operation. (OPTIONAL feeder jaws to reduce the remnant to min. 25 mm)
- Self-aligning feeder vice unit for feeding even not straight bars.
- Driving pulley locked by conical clamping ring to ensure a strong fastening still allowing axial adjustment.
- Software to control/assess/correct in real time:
 - cutting force – cutting torque and band tensioning against the programmed values.

- Low voltage control panel installed on a rotating arm to reach the positions to operate safely still keeping the visual control.
- Moveable band saw blade guide on a vertical arm sliding on balls bearing linear guides. Blade driven by carbide pads and vertical anti-vibration rollers.
- Automatic blade tensioning trough servo motor.
- Automatic adjustment of the front blade-guide head according to the dimensions of the bars to be cut.
- Work lamp and Laser projector to position the bar accurately to carry out non-standard or facing cuts.
- Band rotation control with stop in real time in case of blade jammed.
- Blade tensioning trough a servo system constantly monitored during the cycle.
- Blade deviation (OPTIONAL)
- Coolant tank inside the steel base with two electric pumps to lubricate and cool off the band saw blade.
- Two coolant pumps to ensure high cutting liquid quantities (120 l/min) to cool down the band saw blade and wash away chips from the working area, so as to guarantee a longer blade life.
- Wash gun to clean the working area.
- Mechanical driven blade brush keeps the blade gullets clean, helping to maximize blade performance and life.
- Sound and flashing indicator for machine alarms.
- Machine preset for being handled by lift truck.



- Bi-metal band saw blade for solids and profiles.
- Service keys and instructions manual, for maintenance and spare parts list.

