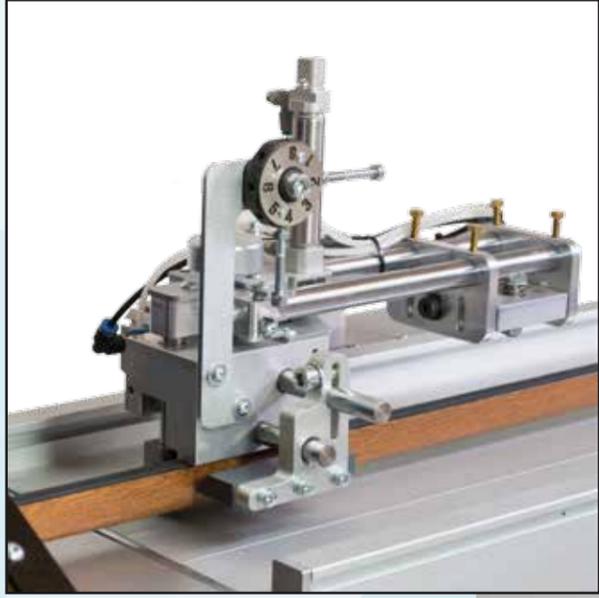# DigiBS-IG
-- INTEGRATED SAW SYSTEM --

The DigiBS-IG is the evolution of the DigiBS concept designed to improve productivity and accuracy. The Cutting Unit is equipped with the same 'Up-cut' type of saw with a blade diameter of 250 mm on a rotary table controlled by the CNC unit wich allows to achieve angles from 20° to 160° with the astonishing accuracy of ±0.1 degrees.

The revolution comes with the Length Stop Unit, moved on the infeed side of the Cutting Unit and equipped with the brand new Infeed Gripper taking the place of the stop. It slides on the 3 meters table made of robust aluminium structural profiles and it's positioned by a stepper motor integrated in the carriage with a magnetic encoder feedback to archeive the required precision of ±0.1 mm on all the stroke.

The design of the Infeed Gripper is based on the experience made with the quick adjusting, blockless device of the DigiBS, so there is no need of specific equipment for each profile, you just need to change the preset of the glass simulator every time you need to work a different profile. The glass simulator is controlled by the CNC that lifts it while moving to reduce friction and facilitate the loading of a new bar.
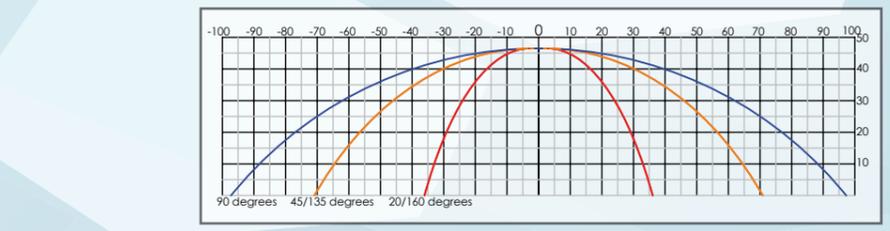
The software has been designed to be the most self-sufficient, from the moment of the load of the bar and the first cut to the end of the material, detected by a sensor mounted on the clamp. In this way the cutting process of the bead is completely managed by the CNC unit from the first cut, positioning, clamping and cutting. The operator just needs to press start to perform each entry and unload the worked piece, with obvious advantages in speed and precision, leaving out of the process any operator-dependant mistake like misplacing of the bead or deforming the processed end of the bar against the measurement stop. All the informations about the cutting cycle are took directly from the list, so the machine can know if it's necessary to perform an intermediate headcut in case of different cutting cycles.

INTEGRATION
This evolution of the DigiBS elights even more the main advantages of a single machine that manages both the positioning and the cutting process:

- One control unit means contemporaneity in operations, improving speed, precision and quality of the process.
- One interface to operate the machine, few commands and setup made on just one screen.
- No need for interconnection between two units, the Control Unit knows both the positions of the blade and the clamp, that are parts of the same machine.

CONNECTIVITY
The new control unit of DigiBS integrates an USB port, Ethernet port and a radio interface used for the reception of measurements from Digi-FAMILY'S devices. It offers multiple solutions to compile / get the list of measurements to be cut as:
- Reception via radio of measurements from Digi-BAR electronic caliper
- Reception via radio of measurements from Digi-BARCODE bar code reader
- Reading from USB memory a cutting list
- Receive via Ethernet of cutting lists
- Receive via WI-FI of the cutting lists (optional)

90 degrees   45/135 degrees   20/160 degrees

DigiBS-IG is configurable any time LH to RH or RH to LH

(ALU) (PVC) (→) (←)

Cutting Unit	
Kind of cut	Up-cut saw
Cutting angles	CNC-controlled "arrow cut" 20 to 160 degrees
Blade	Ø 250 mm
Blade motor	Three phase 0.75 kW 2800 rpm

Positioning Unit (Clamp)	
Stroke	3000 mm
Carriage movement	Stepper motor, magnetic encoder feedback
Accurancy	± 0.1mm
Positioning speed	Up to 50 m/min

Electronic	
Control Unit	HMI 7" colour touch screen PLC Cards
Radio Interface	Integrated
USB for external input devices/pendrive	Integrated

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Contextual Help available in every page
On screen trouble shooting with pictures,
electric and pneumatic diagrams for a quick
resume of working cycle

-- Easy Life in Workshop --

User friendly interface, big funcion
buttons on screen and physical push
buttons for the most useful actions

Semi automatic mode for single cut

Cutting cycles database
(combinations of angles)
Cycles can be associated with DigiBAR
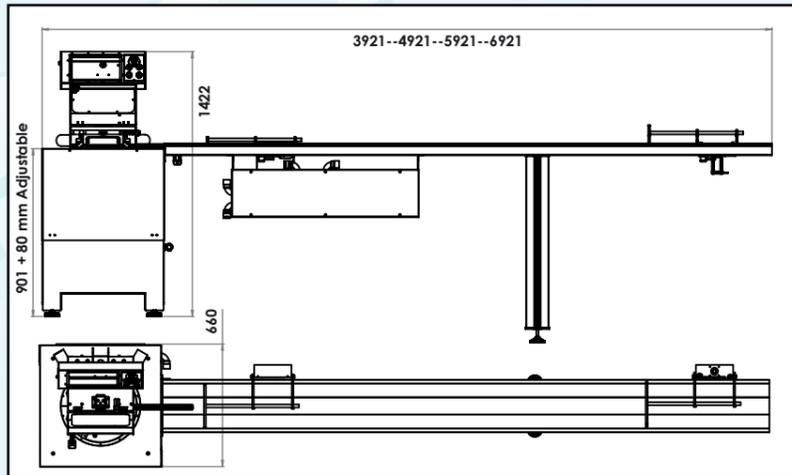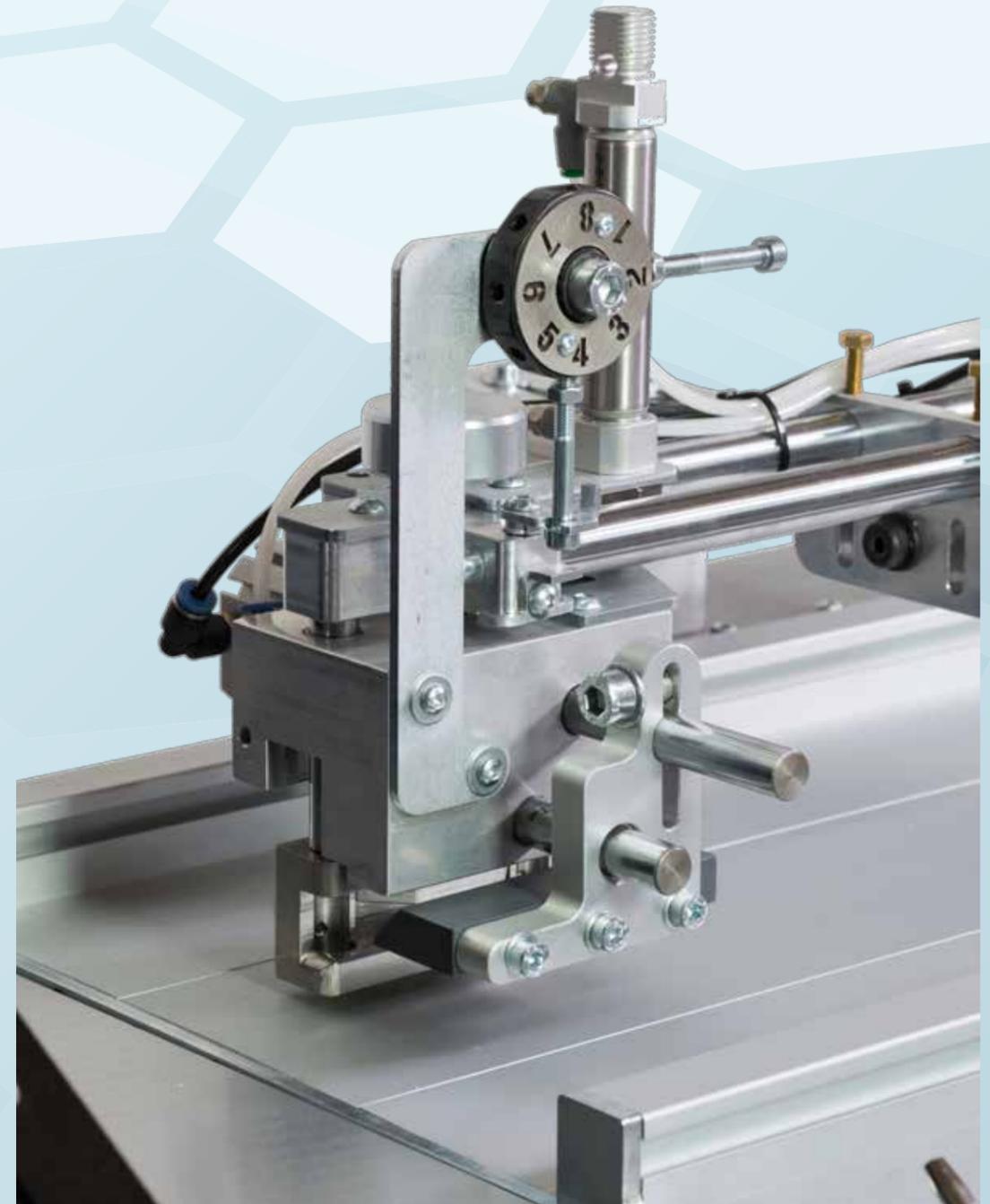references and automatically performed
during automatic cycles

Cutting list page with all the details
and references for every entry. It's also
possible to edit or delete an entry or
jump to a different line

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