DigiBS
-- INTEGRATED SAW SYSTEM --

The Digi-BS system is the integration of a technologically advanced saw and a length stop.
The saw is an 'Up-cut' type of saw with a blade diameter of 250 mm, the positioning of the rotary table which allows angles from 20° to 160° is accurately controlled from a CNC unit.   The unique mechanical structure of the Digi-BS is specifically designed for the cutting of glazing beads and for this reason the Digi-BS includes a quick-adjusting device for the blocks.   This innovative system allows you to work a wide varied range of beads without the additional need for profile specific bead blocks, the design of the machine also allows you to make the 'arrow cut' (typical of PVC glazing beads) by making the two cuts required in one programmed operating sequence.
The cutting area is fully protected by a protection guard which can be opened for access, but for the operators safety is interlocked with a safety device that prevents opening when the machine is in operation.
The Digi-BS has a very fast cutting cycle due to the 'short stroke' action of cutting blade.
Additionally the Digi-BS has also been equipped with an adequate system for waste pieces to be expended from the machine and is supplied with two outlet ports for the dust extraction system.

The length stop is made of robust aluminum structural profiles with a stepper motor controlled integrated carriage positioning system, this positioning system is managed by the control unit and the measurement is verified with a magnetic measurement system that can have a very impressive accuracy of + or - 0.1mm.This allows the length stop to achieve optimal positioning speeds with high precision.

INTEGRATION
There are many advantages with a machine that integrates a miter saw and a length stop a few are:

- Unique control system which manages all the functions of the "two " machines
- Easier to operate, a single screen with few operator interface buttons to control both units
- No need for interconnection between the two units as the control system knows both the positions of the blade in relation to the length stop fence.

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)

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

ALU   PVC

90 degrees   45/135 degrees   20/160 degrees

Images and data are indicative
P.M.S. reserves the right to make changes at any time, without notice
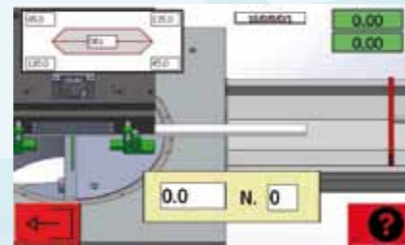
Cutting Unit	
Kind of cut	Up cut saw
Cutting angles	CNC controlled "arrow cut" from 20°to160°
Blade	250mm Diam.
Blade Motor	Triphase 1.3Kw 2800 rpm
Positioning Unit (Length stop)	
Minimum piece measure	180 mm
Maximum piece measure	3180mm
Carriage movement	stepper Motor, Magnetic encoder feedback
Accurancy	+/- 0.1 mm
Positioning speed	50 m/min
Electronic	
Control unit	HMI 7" colour touch + plc cards
Radio Interfaces	Integrated
Usb for external Keyboard / mouse / usb flash drive	Integrated

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

Intuitive software with the use of icons and
 function keys

Execution of a manual measurement

Memorization of cutting cycles (combinations
 of angles) Each cycle may be associated with
a reference and invoked automatically
by the caliber
DigiBAR

Cutting list page where you can see every details /
 reference for avery single line, you can edit, delete
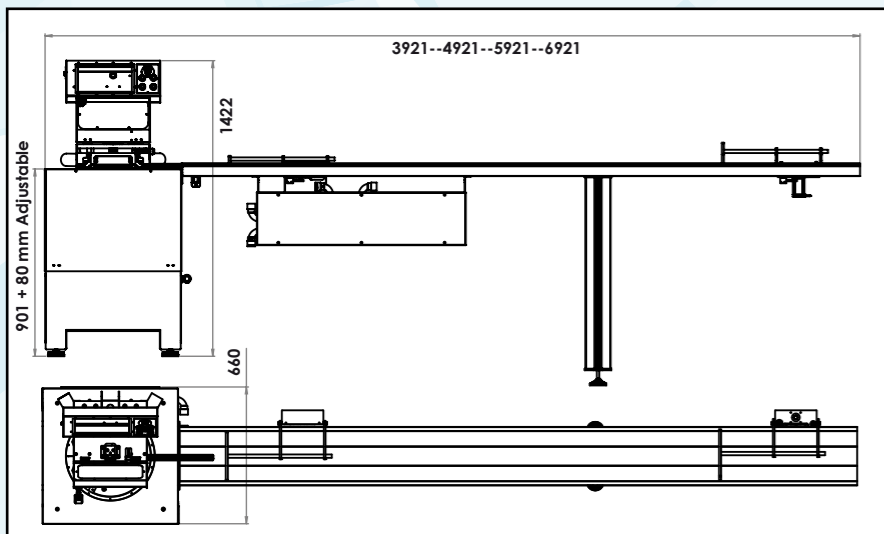 or jump to different line

-- EASY LIFE IN WORKSHOP --

DIGI BS
-- INTEGRATED SAW SYSTEM --

Avantek
Window fabrication technology