

## ino Machinery – AS 434 – Double Mitre Saw



### Description:

- Double Mitre Saw customized for ALU profiles cutting in various length and degrees.
- The rack basis + the linear guides basis are machined, the rack and the linear guides connection holes are drilled&tapped with 5 Axis Metal Processing Center.
- Electrostatic Powder Coated Painting for all of the machine.
- Cutting sawblade diameter: 600 mm.
- Cutting length is 6.000 mm. and with the software support it is possible up to 9.700 mm.
- Automatic tilting of the heads from 22.5 to 135 degrees through servo motors and the upgraded 3 Axis CNC controller. Heads' rotation via cycloid reducer and 0,4 Kw servo motors.
- Hydro-Pneumatic cylinder modification for the saw feed + Pulse spray mist coolant with adjustable dripping.
- 2 pieces of horizontal and 1 piece vertical clamping pistons for each head.
- Roller conveyor connected to the movable head for supporting the profile.
- Motor power: 3.0 kW / 2.800 rpm. / 400 V
- N° 2 cutting unit guard pneumatically controlled.
- Air consumption: 50 NI/min. in 6.5 bars.



### **Cutting Dimensions:**

- Minimum cutting length in 45° inwards: 775 mm.
- Minimum cutting length in 45° outwards: 728 mm.
- Minimum cutting length in 45° with mechanical short piece stopper: 386 mm.
- Minimum cutting length in 90° both heads: 609 mm.
- Minimum cutting length in 90° with auto-feed in cleat cutting mode: 10 mm.
- Cutting width in 45°: 222 mm.
- Cutting Height in 90°: 325 mm.
- The angular accuracy: 0,1 degree.
- The cutting accuracy: 0,1 mm.

### **Electrical Features:**

- Mitsubishi CNC + Mitsubishi Fiberoptical servo Motors + Drivers with absolute encoders.
- Second head moving with servo motor and reducer on linear guides and rack&pinion.
- There is no HOMING in the machine, the servo motors have ABSOLUTE Encoders.
- Cutting list read up to 99999 profiles.
- Colored cables inside the electric box.
- Sliding control panel board.
- CNC Controller with Fiberoptical servo and drivers. 15.6" TFT-LCD Touchpanel PC Intel Celeron 4GB RAM 64GB SSD Licenced Windows10
- Two buttons must be pressed at the same time to start the cutting cycle for safety.
- Emergency button.



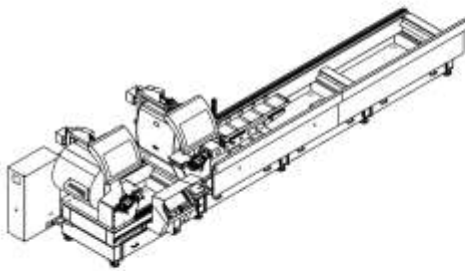
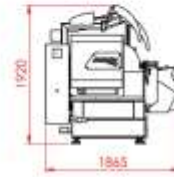
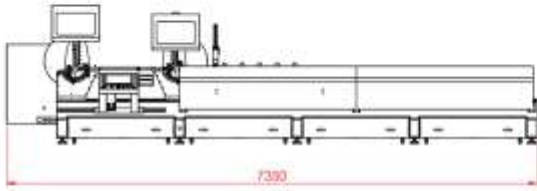
### **Standard Accessories:**

- N° 2 carbide blade  $\varnothing$  600 mm with diamond tooling customized for Aluminium Profiles.
- Horizontal pneumatic clamps 2 for each head. In total 4 pieces.
- Vertical clamps 1 for each head. In total 2 pieces.
- Extraction outlets, outside  $\varnothing$  80 mm.
- Air-gun complete with hose.
- User's and maintenance manual and spare parts catalogue.
- CE Certificate and test reports.
- Service keys.

### **Optional Accessories:**

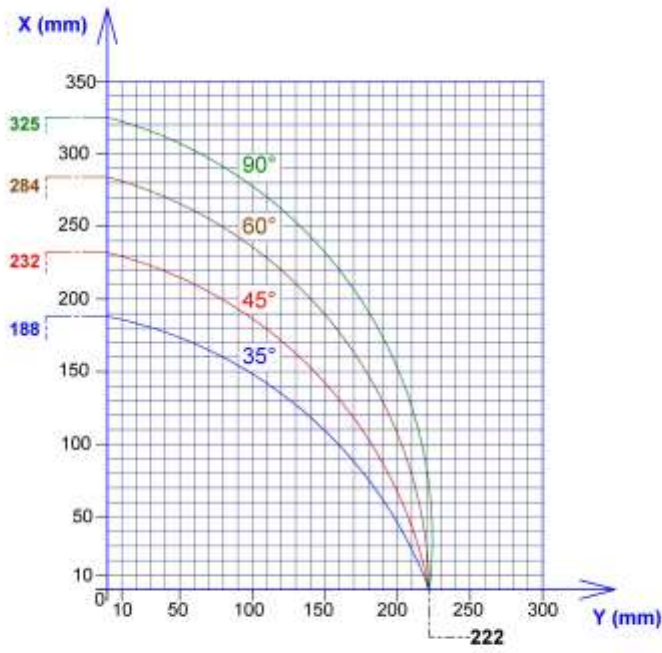
- Data transfer from window production softwares like Chakal, ReynaPRO, Schücal or Orgadata Logikal.
- Cutting list read up to 99999 profiles via recipe cut.
- Recipe for cutting in different angles and different dimensions in a sequence.
- Label printer.
- Dust Extractor and the piping accessories.
- Repetitive cut in fixed 90 degrees with Variable or Fixed length.
- Reduced cut with pneumatic stopper.
- Intermediate support pneumatic cylinders controlled by the CNC, at 2.000 mm. 4.000 mm. and 6.000 mm. + the protection shield with 2 sets of buttons.
- Dust trays under the machine.
- Air conditioning for the electric panel.
- CNC Motion Controller with PC and Windows10 interface + 15.6" TouchPanel PC.
- Vertical clamps turning off through the PLC via buttons for thin profiles that doesn't need strong clamping.

**MACHINE DIMENTIONS:**



**2200 kg**

**CUTTING DIAGRAM:**



AS-434 (Ø 600)



