

ino Machinery – AS 424 – Double Mitre Saw



Description:

- Double Mitre Saw customized for ALU profiles cutting in various length and degrees.
- Cuttin sawblade diameter: 500 mm.
- Cutting length is 4.000 mm. and with the software support it is possible up to 7.995 mm.
- Cutting degrees 45° outwards and 90° are automatic through pneumatic cylinder and all the rest in between degrees down to 22.5° are adjusted manually by the operator.
- Roller conveyor connected to the movable head for supporting the profile.
- Intermediate support pneumatic cylinders controlled by the PLC, at 2.000 mm. 4.000 mm. And the protection shield with 2 sets of buttons. 1 button for emergency stop and the other button is for controlling the pneumatic clamps.
- Motor power: 3.0 kW / 2.800 rpm. / 400 V
- N° 2 cutting unit guard pneumatically controlled
- Air consumption: 25 NI/min. in 6.5 bars.

Electrical Features:

- Movable head is moving on crack mill + linear guides with brushless servo motor 750W + Planetary Reducer 1:10 ratio.
- CNC Controller + 10.2" Touchpanel Embedded PC
- Cutting list read up to 99999 profiles. Reading files in .csv format and producing barcode.
- Data transfer via LAN cable or USB.



Cutting sizes:

- As the heads are tilting outwards, the profile height should be entered to the computer to get the right measurement.
- For measuring the height of the profile there is an “automatic height measurement system” that can be added optionally.
- Minimum cutting length with both heads cutting at the same time, with 50 mm of profile height, when the heads tilt 45 degrees outwards: 730 mm.
- Minimum cutting width with short piece stopper: 375 mm.
- Cutting width in 45 degrees: 165 mm.
- Cutting Height in 90 degrees: 300 mm.
- The cutting diagram is shown below at the bottom page.

Safety:

- Machine starts working only when both of the hands of the operator is on the Machine.
- Saw covers have switches and the covers will not be opened until the saws completely stop
- Optionally area laser barriers can be added to protect the complete area except the user terminal
- Machine protection metal sheet to prevent getting close to the Machine.
- With the emergency stops mounted on the protection shield, there are 3 emergency stop buttons.



Standard Accessories:

- N° 2 carbide blade \varnothing 500 mm with hardmetal inserts for aluminium.
- Vertical clamps 1 for each head. In total 2 pieces.
- Horizontal pneumatic clamps 2 for each head. In total 4 pieces.
- Extraction outlets, outside \varnothing 80 mm
- Air-gun complete with hose
- User's and maintenance manual and spare parts catalogue
- Service keys



Optional Accessories:

- Automatic profile height measurement system.
- Short cutting automation via pneumatic cylinder mounted under the roller conveyor of the movable head.
- Label printer.
- Dust Extractor and the piping accessories.
- Data transfer from window production softwares like Chakal, ReynaPRO, Schücal or Orgadata Logikal.
- Cutting list read up to 99999 profiles via recipe cut.
- Repetitive cut in fixed 90 degrees with Variable or Fixed length.
- PLC controlled reduced cut with pneumatic stopper.
- PLC controlled arrow head cutting 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 electrics panel.
- CNC Motion Controller with PC and Windows10 interface + 15.6" TouchPanel PC.

