



TA 350 CFP CUTTING SYSTEM DESCRIPTION



System is well suited for production double mitre cutting for picture and photo frames as well as any other moulding or trim board assembled by way of 45 degree mitre cutting.

Made of three major components: Vertical or Horizontal Material Feeder, Cutting Station, and Unloading Belt

The **Vertical Feeder** is best suited for cutting operations where the moulding is easily stackable as requires minimal amount of floor space.

The Horizontal Feeder option is best suited for cutting operations having multiple moulding sizes and profiles.

A Material Gripper System (**Primary**) is used to provide moulding part movement into the Saw Cutting Station, an optional Material Gripper System (**Advanced**) is also available, and is used in conjunction with the primary gripper for minimizing moulding scrap and to increase overall material yield rate.

The advanced clamps it's also designed for eject the short pcs during the production up to 90 mm.

The cutting system is equipped with a **Speed Feed Servo System** for production rates up to 1,900 cut pieces per hour.

Vertical and Horizontal **Auto Adjustable Clamping System** within the cutting station firmly holes the moulding during the cutting process giving higher accuracy and a superior cut edge quality.

Material Gripper Feeding Cutting Station



Advanced Clamps System



AUTO ADJUSTABLE VERTICAL CLAMPS



AC Eject System



TA350 CFP CONTROLLER

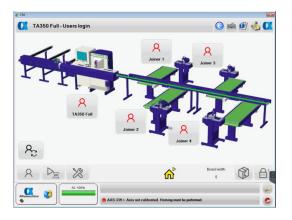


- PC Integrated in the TA350 Custom Framing with 17" Touch screen
- Lan port avalaible for Ethernet Connection
- Direct Internet Connection for remoted Service access









TA350 CFP OPERATING SOFTWARE

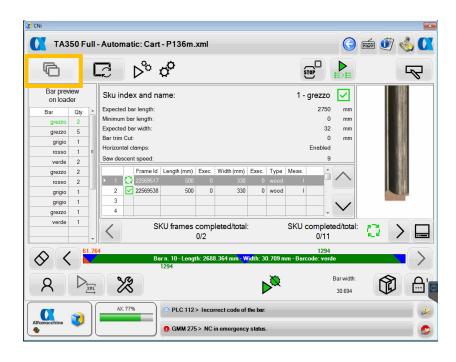


A password protected software platform with a user friendly navigational graphic menu that guides the operator through the various steps needed for programming, executing the job, and overall operation of the auto saw.

The software can be used as a touch screen, screen with mouse, or mouse with external keyboard.

Key Functionality Features

- Manually Control all Machines Commands
- Creating and Executing a Program by Frame or List Method
- Simulation and Visualization of Programmed Frame Cutting (onscreen view of entered job for cut and material optimization
- Data Production Reporting
- •Barcode Recall Program System
- Possibility to connect the machine directly whit the Factory MES Management
- Remote Control and Diagnostic Pra

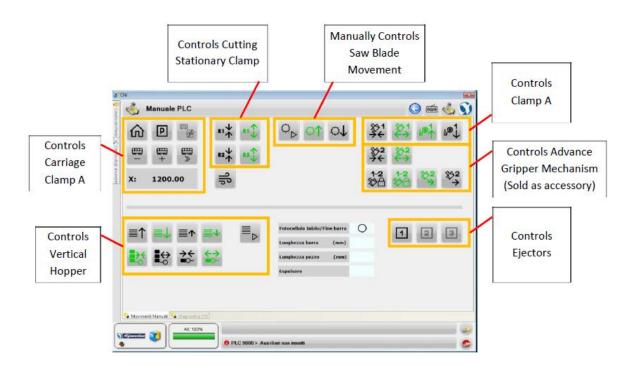


SOFTWARE KEY FUNCTIONALITY



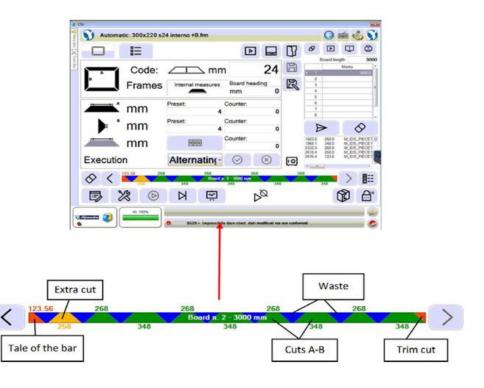
MANUAL CONTROL SCREEN

Manual control of all Auto-saw operations



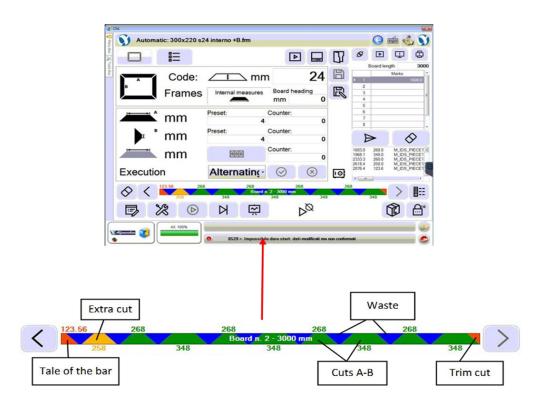
PROGRAM SIMULATION AND VISUALIZATION

onscreen view of entered job requirements for cuts and material optimization prior to releasing the job



SOFTWARE FEATURES





Simulation and Visualization of Programmed Frame Cutting

Software provides onscreen view of entered job requirements for cuts and material optimization prior to releasing the job



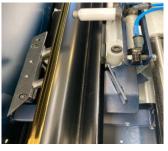
VERTICAL HORIZONTAL CLAMPING SYSTEM

- Auto Adjustable Clamps System
- No setup is required
- Strong stability during the cutting cycle
- No pressure regoulation required

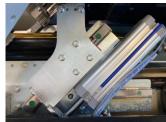




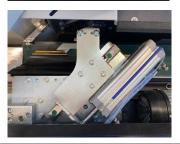
LOADING / ADVANCED CLAMPS AND HORIZONTAL CLAMPING SYSTEM AUTOMATIC SET UP



Auto Adjustable Clamps System



Advanced Clamp System

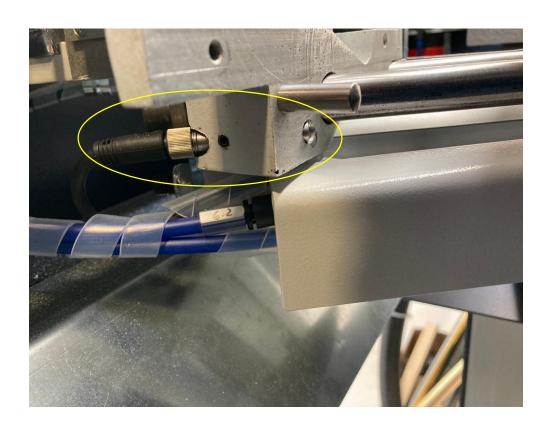


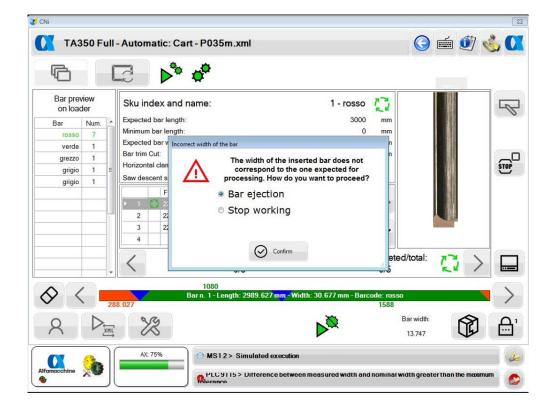
Automatic Short Pcs (<90 mm) Eject System

AUTOMATIC MOULDING WIDHT MEASURER CAPACITY SENSOR (OPTIONAL)



Automatic moulding widht measurer and auto adjstament length system (internal mode)





CUTTING BLADES SPEED CONTROL (OPTIONAL)



CUTTING BLADES SPEED CONTROL SYSTEM

- Pneumatic System Control
- Stored in the memory of the programs
- 10 steps speed control







Barcode Frame Recall System Qr/BarCode

The system recall the program associated to the Qr/BarCode directly to the sfw production area





020005001500500000000000-SHm96OSy/G13Vqm0wA







BAR CODE SCANNING AND BAR IDENTIFICATION (OPTIONAL)

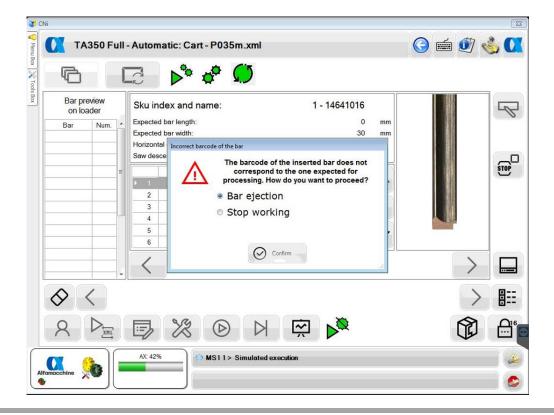


The barcode reader is optionally installed in the saw to recognize if the bar taken from the gripper A corresponds to the bar code entered in the program.

(all bars must be equipped with a label/printed with their own identification bar code.





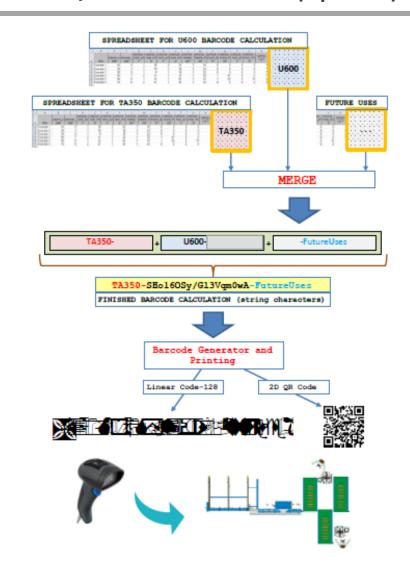


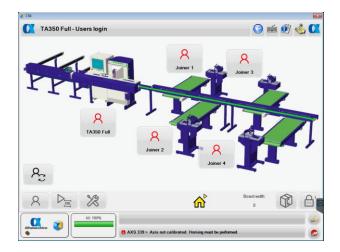
INDUSTRY 4.0 READY – MES CONNECTION/DATA INTERCHANGE (Optional)



MES – TA 350 – U 600 Structure (es.)







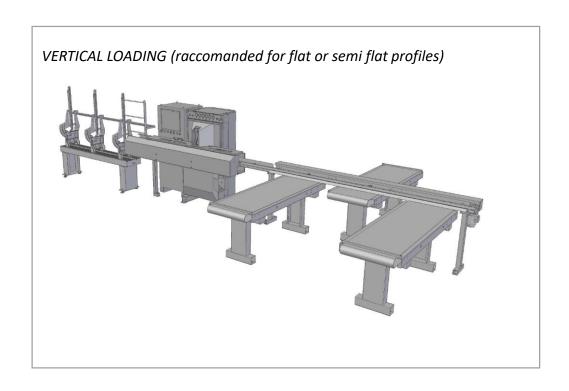


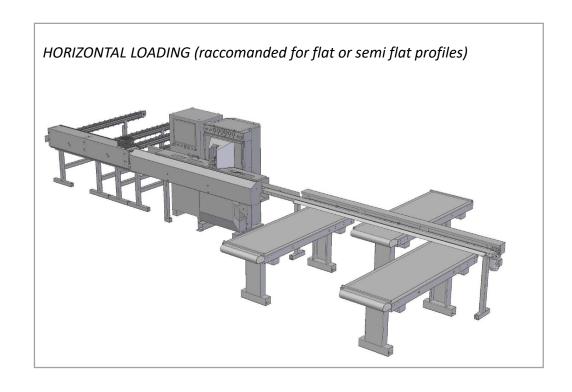
Electronic Exit Belts Sensor Control/Detect pcs overflow/status



LOADING SYSTEM CONFIGURATIONS









LOADING CAPACITY UP TO 50 PCS (20 mm widht)

EXTENSION ARM 1MT MODULE (Optional)



ELECTRONIC LENGHT MEASURAMENT/DETEC. SYSTEM



AUTOMATIC WIDHT MEASURAMENT/AUTOMATIC CUTTING
LENGHT CORRECTOR SYSTEM



HORIZONTAL PRESSURE CYLINDER





LOADING CAPACITY UP TO 15 PCS

STANDARD 3 ARMS (min. lenght 1500 mm)

OPTIONAL 4 ARMS FOR SHORT PCS (1000 mm)



ELECTRONIC PHOTOCELL Long and Short Pcs Reading System



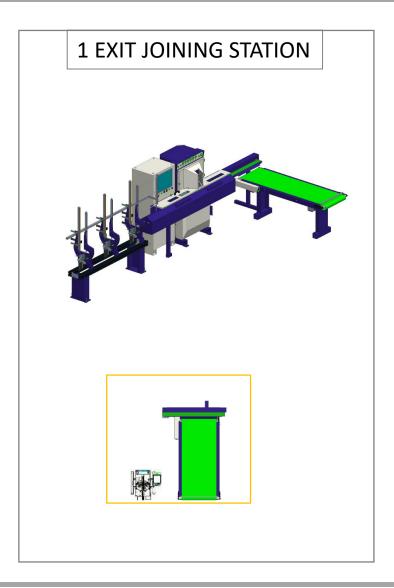


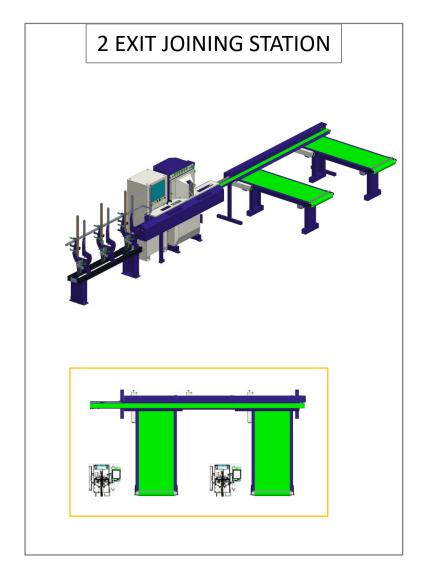
Auto Adjustable Clamps System

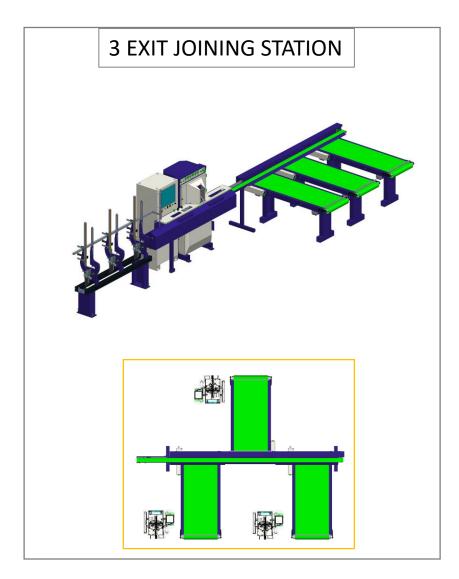


UNLOADING SYSTEM CONFIGURATIONS



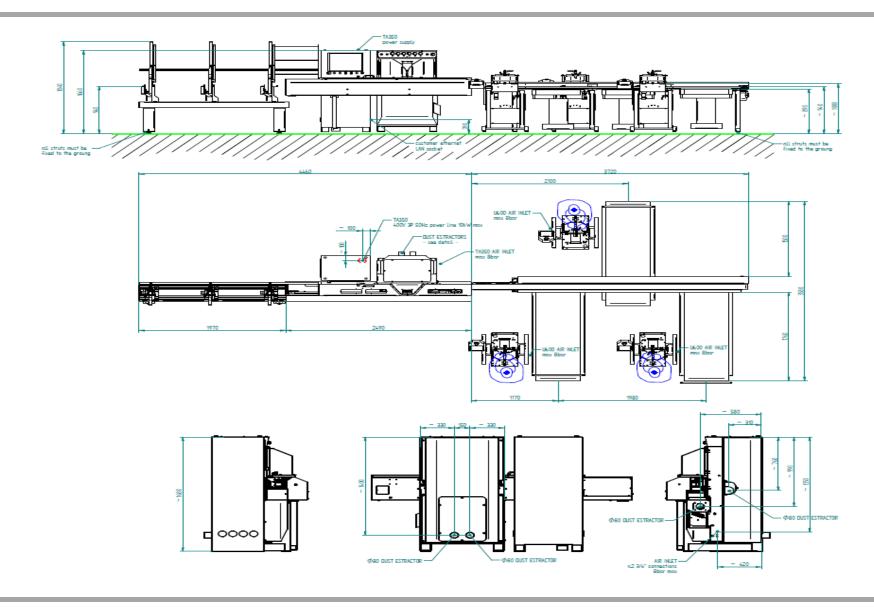






LAY OUT TA 350 CFP – 3 KICHER – 3 JOINING UNITS U 600







Alfamacchine S.r.l. (Unipersonale)

Via Curie Marie e Pierre, 3 47122 Forlì (FC), Italy alfamacchine.com M. info@alfamacchine.com T. +39 (0) 543 783301 F. +39 (0) 543 783302