

SIRIUS

Automatic Welding and Cleaning Line (3 Axis)



FEATURES

Used for simultaneously welding four corners of plastic profiles and removing the burrs from the profiles after welding.

- Pneumatic motion
- Automatic frame output unit and automatic profile rotation system
- Batch processing and precision measurement
- Process programming and large memory
- Safe working area with safety barrier
- Welding time adjustment and digitally controlled heating
- Temperature adjustment between 0 °C and 350 °C with electronic thermostat
- 0.2 mm welding range
- Touchscreen control panel and profile recognition system
- Quick transferring the profile to cleaning unit with robot system after welding
- Cleaning of bottom, top, internal and external surfaces of the profile by two independent cleaning units
- Easy programming with manual control system (hand wheel)
- Manual operator adjusted axial speeds
- Real time communication between two machines
- Memory capacity for 1000 profiles
- Manual and automatic operation
- Automatic cleaning with 11 profile cleaning blade
- Separate cleaning blades for colored and white profiles
- Data transfer over remote network connection, Ethernet and USB
- Alarm and warning sign on screen
- Quick and easy to replace hot press teflon
- Processing time monitoring on screens during operation
- Uniform heat distribution on plate, profile cooling station
- Rotation speed optimization and picking up unit for finished profile on the line

Standart Equipment

- Conveyor
- Profile external cleaning saw blade
- Cleaning blades
- Cutters
- Profile holding and cooling unit
- Automatic profile rotation system
- Barcode reader

Optional Equipment

- Special mold
- Gasket pressing system
- Automatic bearing lubrication system

WELDING UNIT FRAME DIMENSIONS

Min. Frame Dimensions	350 mm x 400 mm
Max. Frame Dimensions	2540 mm x 4000 mm

CLEANING UNIT FRAME DIMENSIONS

Min. Frame Dimensions	350 mm x 400 mm
Max. Frame Dimensions	2540 mm x 4000 mm

WELDING UNIT PROFILE DIMENSIONS

Min. Profile Height	30 mm
Max. Profile Height	200 mm
Min. Profile Width	30 mm
Max. Profile Width	150 mm

CLEANING UNIT PROFILE DIMENSIONS

Min. Profile Height	30 mm
Max. Profile Height	200 mm
Min. Profile Width	30 mm
Max. Profile Width	150 mm

WELDING SEAM

Welding Seam	0.2 mm
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CUTTING UNIT

Saw Blade Diameter	300 mm
Spindle Power (for saw blade)	1.5 kW
Spindle Rotation (for saw blade)	6000 rpm
Saw Blade Thickness	3.2 mm
Spindle Power (for router bit) (x2)	1.1 Kw
Spindle Power (for router bit)	18000 rpm
Router Bit Dimensions	8 mm
Router Bit Length	120 mm

ELECTRICITY & AIR

Voltage	400V 3N PE AC
Frequency	50 – 60 Hz
Power	20.85 Kw
Air Pressure	6-8 bar
Air Consumption	180 lt/dk



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