

## Machines Working on Aluminium and PVC Profiles



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**ecoline**

Mahmutbey Merkez Mah. Kucuk  
Halkali Cad. No: 28 34560  
Bagcilar - Istanbul - Turkey  
Tel : +90 (212) 445 91 55 (Pbx)  
Fax : +90 (212) 445 91 44  
[www.ecoline.com.tr](http://www.ecoline.com.tr)

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### ECOLINE OFFERS YOU TWO PRODUCTION LINES

#### 20-30 WINDOWS AND DOORS PRODUCTION IN 8 HOUR SHIFT

- TA - 143 Table Saw
- FT - 372 Automatic Water Slot Router
- FU - 460 Router and Triple Spindle Drill
- FA - 152 End Milling Machine
- KB - 512 Single Head Welding Machine
- CA - 727 Corner Cleaning Machine
- TC - 292 Glazing Bead Saw

#### 50-60 WINDOWS AND DOORS PRODUCTION IN 8 HOUR SHIFT

- TT - 402 Automatic Double Mitre Saw
- FT - 382 Automatic Water Slot Router
- FU - 460 Router and Triple Spindle Drill
- FA - 152 End Milling Machine
- KC - 258 Two-Head Welding Machine
- CA - 747 Corner Cleaning Machine
- TC - 292 Glazing Bead Saw



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**Table Saw**

- Cutting of PVC profiles
- Precise working by cutting from underneath
- Pneumatic sawing feed
- Adjustable upward saw speed
- Wide angle cutting range up to 22,5° to the left and right
- Vertical pneumatic clamping
- Sawblade Diameter: 350 mm.
- Maximum Cutting Capacity: 188 x 97 mm.
- Spindle Speed: 3.000 r.p.m.
- Power Supply: 380 V, 50/60 Hz, 2,6A
- Power Output: 1.100 W
- Compressed Air Supply: 6 – 8 bar
- Air Consumption: 9,7 l/min.
- Length: 750 mm., Width: 700 mm., Height: 1.300 mm., Weight: 200 kg.

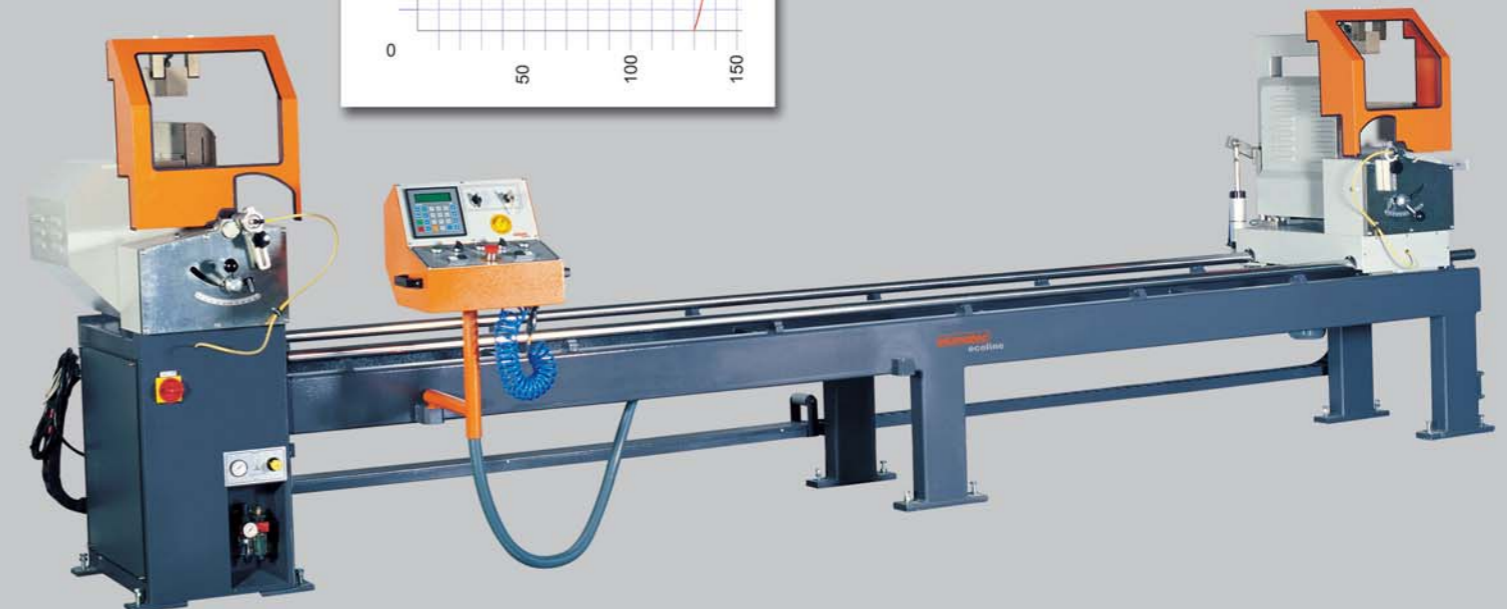
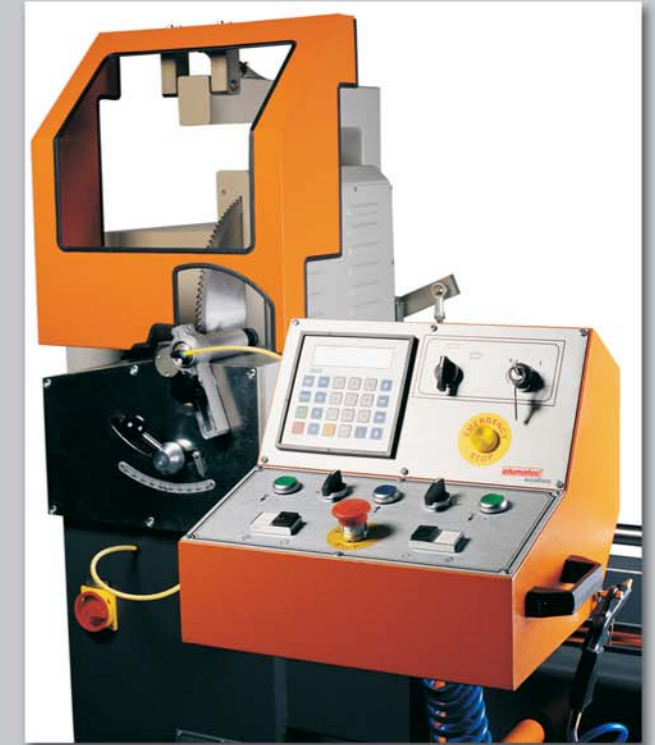
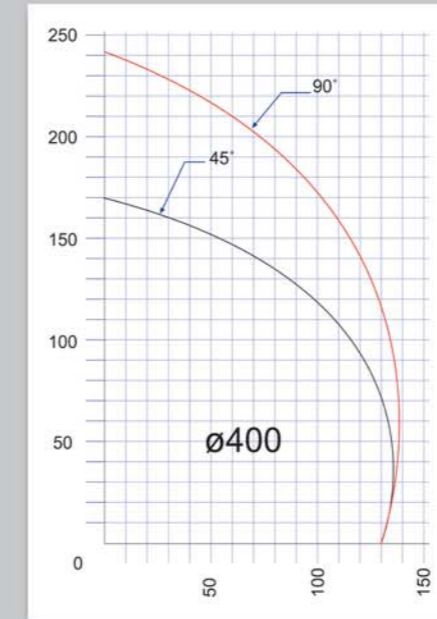
**Optional**

- Roller conveyor 2.910 mm. for each side
- Recommended for 20 – 30 windows production line



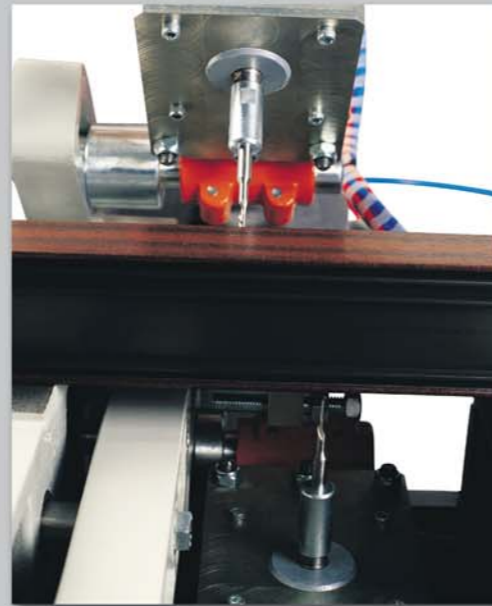
**Automatic Double Mitre Saw**

- Accuracy and speed in cutting of PVC profiles
- Automatic cutting length and positioning adjustment
- Ability to operate manually, automatically, or via direct connection to PC
- Pneumatic tilting of sawblades to 45° and 90°.
- Manual adjustment for angles between 45° - 90°
- Horizontal pneumatic clamping
- Sawblade Diameter: 400 mm.
- Maximum Cutting Length: 4.150 mm.
- Minimum Cutting Length: 450 mm.
- Cutting capacity: See cutting diagram
- Spindle Speed: 3.000 r.p.m.
- Power Supply: 380 V, 50/60 Hz, 12A
- Power Output: 3.800 W
- Compressed Air Supply: 6 – 8 bar
- Air Consumption: 28 l/min.
- Length: 6.120 mm, Width: 1.250 mm, Height: 1.550 mm., Weight: 1.070 kg.
- Equipped with mobile workpiece support and roller conveyor
- Recommended for 50 – 60 windows production line



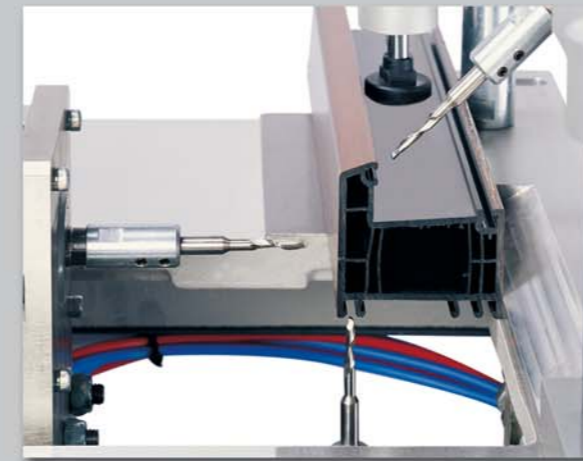
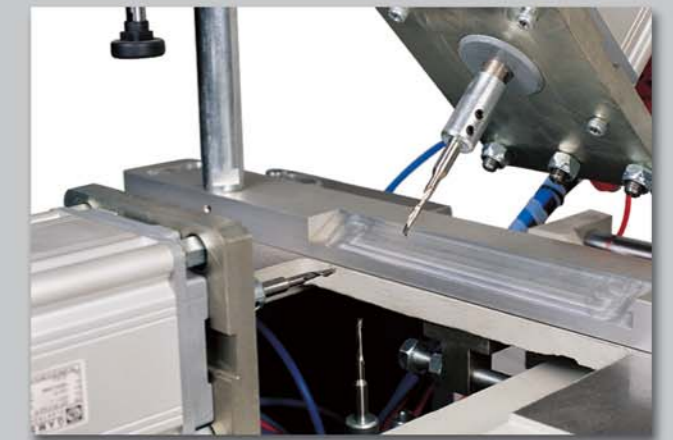
**Automatic Water Slot Router**

- Two routing units for automatic routing and drilling of water slots and ventilation openings
  - Automatic feed for routing depth and slot length
  - Angle, height and depth of routing units can be adjusted
  - Wear-free, frequency controlled motors with long operation life
  - Pneumatic clamping system for safe material clamping
  - No adjustment needed for similar profile types
  - The routing units can work simultaneously
  - Spindle speed: 12.000 r.p.m.
  - Maximum Routing Stroke: 25 mm.
  - Maximum Routing Length: 40 mm.
  - Power Supply: 220 V, 50/60 Hz
  - Power Output: 1.540 W
  - Compressed Air Supply: 6 – 8 bar
  - Air Consumption: 22 l/min.
  - Length: 800 mm., Width: 800 mm., Height: 1.250 mm., Weight: 355 kg.
  - Equipped with two cutters
- Recommended for 20 – 30 windows production line



**Automatic Water Slot Router**

- Three routing units for automatic routing and drilling of water slots and ventilation openings
  - Automatic feed for routing depth and slot length
  - Angle, height and depth of routing units can be adjusted
  - Wear-free, frequency controlled motors with long operation life
  - Pneumatic clamping system for safe material clamping
  - No adjustment needed for similar profile types
  - In the automatic working cycle always two units are in operation
  - Spindle speed: 12.000 r.p.m.
  - Maximum Routing Stroke: 25 mm.
  - Maximum Routing Length: 40 mm.
  - Power Supply: 220 V, 50/60 Hz
  - Power Output: 1.760 W
  - Compressed Air Supply: 6 – 8 bar
  - Air Consumption: 22 l/min.
  - Length: 800 mm., Width: 800 mm., Height: 1.250 mm., Weight: 375 kg.
  - Equipped with three cutters
- Recommended for 50 – 60 windows production line



**Copy Router and Triple Spindle Drill**

- Drill and copy router for opening locks, hinges, door handles and etc. on PVC profiles
- Routing to stops or template in 1:1 ratio
- The units can be operated separately
- Pneumatic material clamping
- Double acting copy pin for two different tool diameters
- Triple Drill Spindle Speed: 900 r.p.m.
- Routing Spindle Speed: 12.000 r.p.m.
- Routing capacity without copying template: 100 x 245 mm.
- Power Supply: 380 V, 50/60 Hz
- Power Output: 2.320 W
- Compressed Air Supply: 6 – 8 bar
- Air Consumption: 2 l/min.
- Length: 650 mm., Width: 870 mm., Height: 1.750 mm., Weight: 260 kg.
- Standard equipped with one set of drilling and routing tools

**Optional**

- Self-centering device
- Cooling system for aluminium processing
- Collets
- Recommended for 20 – 30 and 50 – 60 windows production lines



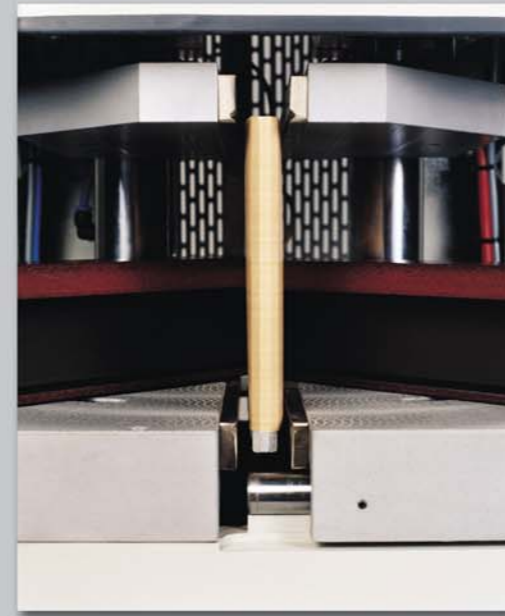
**End Milling Machine**

- For end milling of transom and door frames in PVC profiles
- Automatic feed of milling unit
- Adjustable fence can be swivelled to the left and right up to 60° for angled milling
- Adaptable vertical pneumatic clamping
- Profile depth setting bar with ruler
- Maximum diameter of cutter: 150 mm.
- Spindle speed: 3.000 r.p.m.
- Routing capacity height: 75mm.
- Routing capacity: depth: 45mm.
- Routing capacity length: 150 mm. (at 90°)
- Power Supply: 380 V, 50/60 Hz, 3,1A
- Power Output: 1.100 W
- Compressed Air Supply: 6 – 8 bar
- Air Consumption: 10 l/min.
- Length: 950 mm., Width: 500 mm., Height: 1.350 mm., Weight: 270 kg.
- Equipped with profile support arm

**Optional**

- Hydropneumatic milling feed for aluminium processing
- Cooling system for aluminium processing
- Set of cutters
- Recommended for 20 – 30 and 50 - 60 windows production lines





**Single Head Welding Machine**

- Welding of PVC profiles
- Adjustable fences with incremental scales enable the welding of all angles between 60° - 180°
- Heating, melting and welding operations are controlled automatically
- Welding by one table movement
- Digital control of heating and waiting time
- Weld seam restriction from 0,2 to 2,0 mm. for welding of foil and acrylic coated profiles
- Welding and clamping pressures can be adjusted
- Maximum profile height: 140 mm.
- Maximum profile width: 120 mm.
- Power Supply: 220V, 50/60 Hz, 8A
- Power Output: 1.500 W
- Compressed Air Supply: 6 – 8 bar
- Air Consumption: 5 l/min.
- Length: 700 mm., Width: 660 mm., Height: 1.450 mm., Weight: 230 kg.
- Equipped with support arms

**Optional**

- Welding fixtures
- Recommended for 20 – 30 windows production line



**Two-Head Welding Machine**

- Welding of two PVC profile corners at the same time
- Adjustable fences of the fixed head enable welding of all angles between 60° - 180°
- Movable head welds 90°
- Heating, melting and welding operations are controlled automatically
- Weld seam restriction from 0,2 to 2,0 mm. for welding of foil and acrylic coated profiles as well as white profiles.
- Digital control of heating and waiting time
- Welding and clamping pressures can be adjusted
- Maximum profile height: 160 mm.
- Maximum profile width: 130 mm.
- Maximum frame length: 3.400 mm.
- Minimum frame length: 400 mm.
- Power Supply: 380 V, 50/60 Hz
- Power Output: 2.200 W
- Compressed Air Supply: 6 – 8 bar
- Air Consumption: 11,5 l/min.
- Length: 4.000 mm., Width: 740 mm., Height: 1.600 mm., Weight: 970 kg.
- Equipped with support arms

**Optional**

- Welding fixtures
- Recommended for 50 – 60 windows production line



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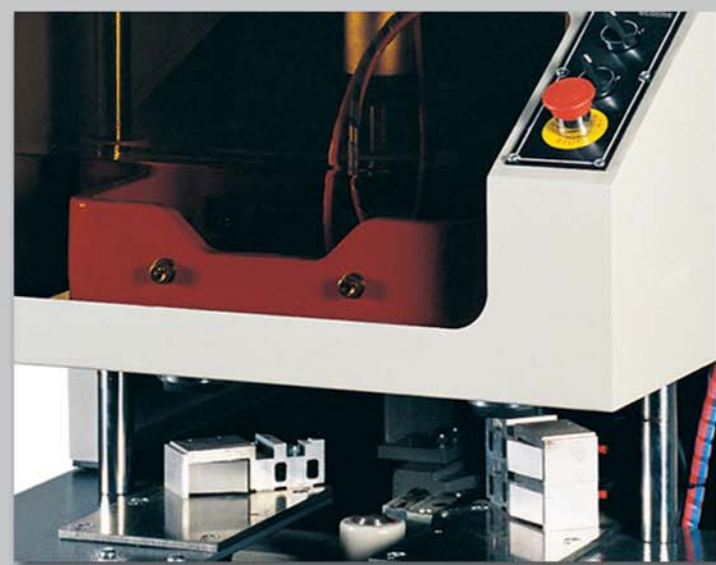


**Corner Cleaning Machine**

- Cleaning of welding seam from PVC window corners
- Processes the upper, bottom and outer surface of the profile
- With respect to PLC control, automatic profile recognition system between frames and sashes
- Automatic window centralization and clamping before operation
- Operation with 2 cleaning cutters. Quick and easy replacement
- Profile height maximum: 80 mm.
- Maximum diameter of cutter: 270 mm.
- Spindle Speed: 3.000 r.p.m.
- Power Supply: 380 V, 50/60 Hz, 3,1A
- Power Output: 1.100 W
- Compressed Air Supply: 6 – 8 bar
- Air Consumption: 9,5 l/min.
- Length: 1.120 mm., Width: 700 mm., Height: 1.350 mm., Weight: 225 kg.
- Equipped with two groover knives

**Optional**

- Cleaning cutters
- Recommended for 20 – 30 windows production line



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**Corner Cleaning Machine**

- Cleaning of welding seam from PVC window corners
- Processes the upper, bottom and outer surface of the profile
- With respect to PLC control, automatic profile recognition system between frames and sashes
- Automatic window centralization and clamping before operation
- Ability to use 4 different cleaning cutters. Quick and easy replacement
- Profile height maximum: 80 mm.
- maximum diameter of cutter: 270 mm.
- Spindle Speed: 3.000 r.p.m.
- Power Supply: 380 V, 50/60 Hz, 3,1A
- Power Output: 1.100 W
- Compressed Air Supply: 6 – 8 bar
- Air Consumption: 9,5 l/min.
- Length: 1.120 mm., Width: 700 mm., Height: 1.350 mm., Weight: 270 kg.
- Equipped with two groover knives

**Optional**

- Cleaning cutters
- Recommended for 50 – 60 windows production line

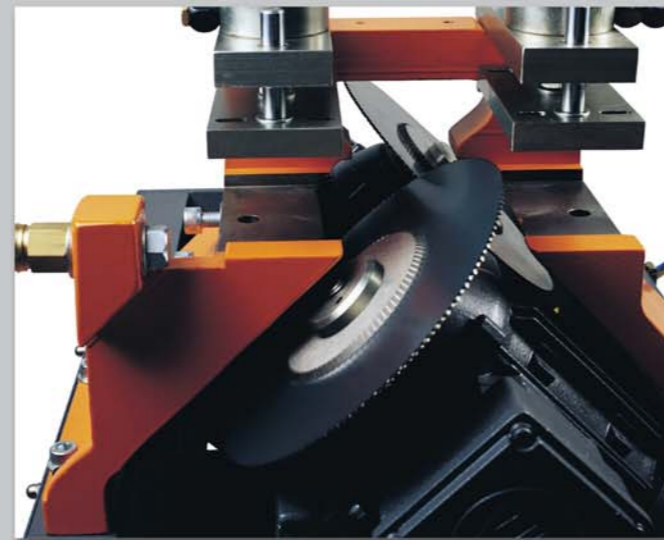


**Glazing Bead Saw**

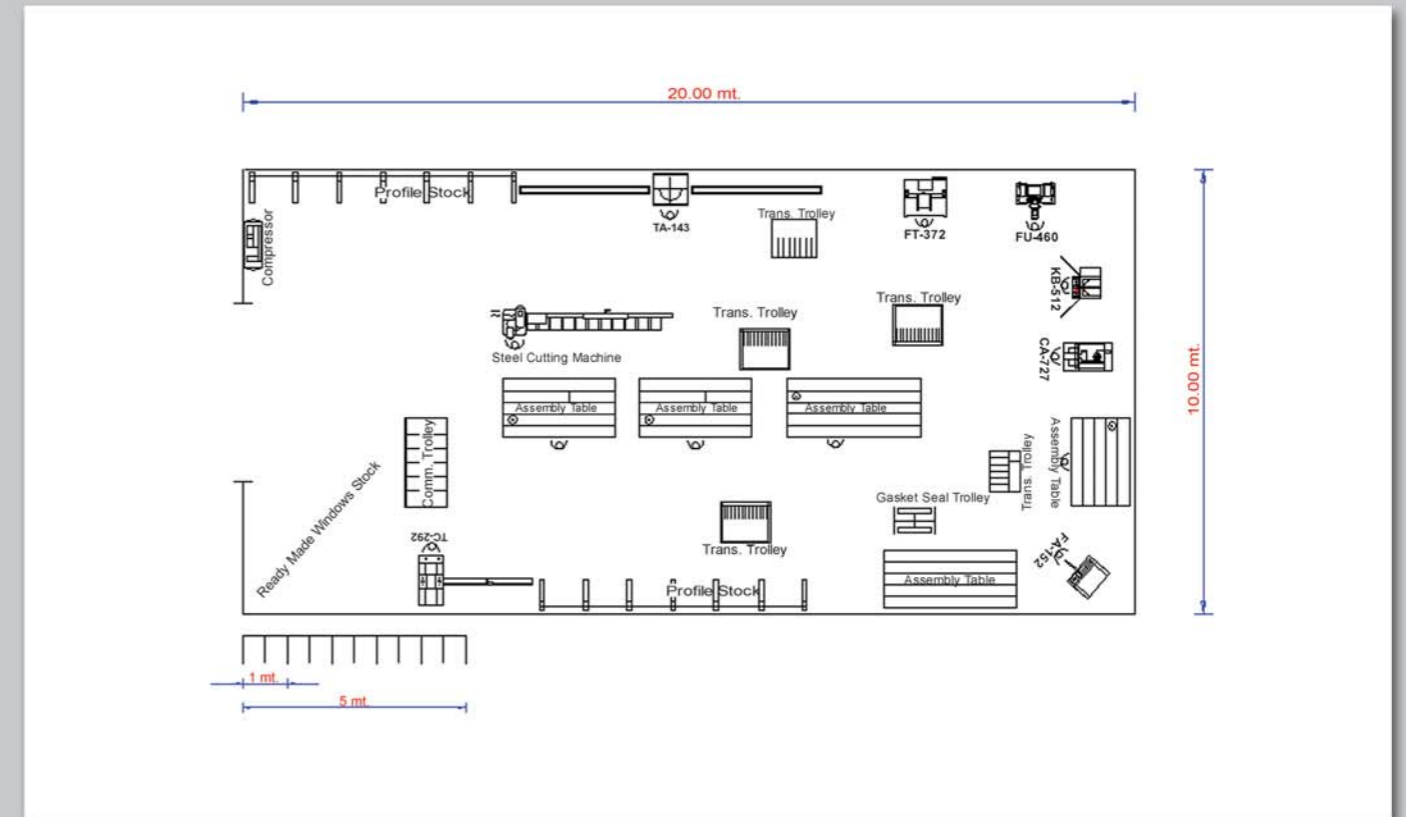
- V-cutting saw with two special saw blades for simultaneous undercutting the glazing bead profile
- Two glazing beads can be cut at the same time quickly and efficiently
- Automatic operation with adjustable saw speed
- Two vertical pneumatic clamps
- Saw blade diameter: 220 mm. & 100 mm.
- Power Supply: 380 V, 50/60 Hz, 2,8A
- Power Output: 1.100 W
- Compressed Air Supply: 6 – 8 bar
- Air consumption: 24 l/min.
- Length: 1.150 mm., Width: 540 mm., Height: 1.070 mm., Weight: 310 kg.
- Standard equipped with measurement conveyor

**Optional**

- Special cutting block according to profile



**20 - 30 Windows and Doors Production Line Layout**



**50 - 60 Windows and Doors Production Line Layout**

