iNTEL MAKiNA
INDUSTRY AND TRADING CORP.

DV 450

Dual Head Reinforcement Steel Fastening Machine

Last updated: July 10, 2026



Description

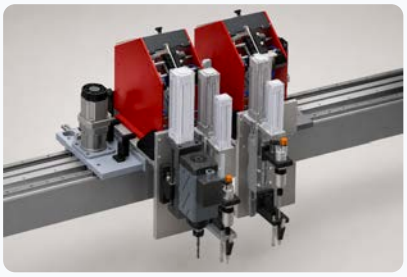
Automatic fastening system for steel reinforcement rods into UPVC profiles. The structure with four profile loading capacity accelerates workmanship. Profiles are automatically sent to the fastening area and after completion of operations, profiles are stored in the finishing area. Speed is increased thanks to two fastening hoppers. During assembly of UPVC frames, it is possible to perform this operation thanks to a specially positioned drill to open holes.

Highlights

- ✓ Automatic centering of fastening position with servo motor control unit
- ✓ Opening drill holes for use during frame assembly
- ✓ Ergonomic design and durable structure
- ✓ Automatic transfer of UPVC profiles to fastening section
- ✓ Storage area for completed UPVC profiles
- ✓ Machine automatically measures profile length and determines screw count
- ✓ Four profiles are processed according to the program created by the operator
- ✓ Automatically stops when fastening operations are completed
- ✓ Continuous and flawless fastening thanks to screw feeding unit

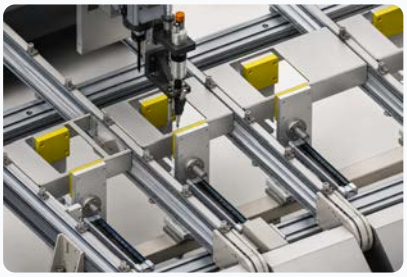
- ✓ Head screw throwing speed 2.5-3/sec
- ✓ Recommended maximum steel thickness 2.0 mm
- ✓ Technical support and troubleshooting via remote connection

Machine Components



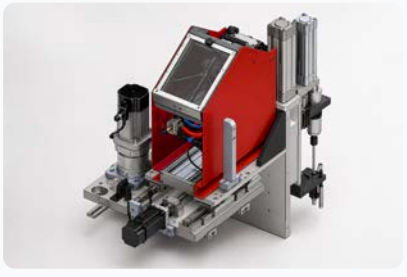
Fastening and Assembly Hole Opening System

Our machine manufactured in standard form with Ph2x150 mm fastening tip uses two fastening heads with pneumatic system to automatically center and tighten screws to desired positions with adjustable distance intervals in a precise and quality manner.
To facilitate assembly of UPVC frames, there is an additional motor that can open assembly holes, thereby simplifying workmanship.
Servo motor and threaded shaft systems are used for precise positioning.



Clamping System

A specially designed clamping system to keep the profile fixed during screw fastening is manufactured with plastic material that will not damage the profile surfaces. This system consisting of eight units is produced for safe and quality workmanship.



Fastening Hopper

The fastening hopper is specially designed from stainless steel and stores the screws coming into the system and automatically transfers the screw from there to the location of the screw fastening tip.

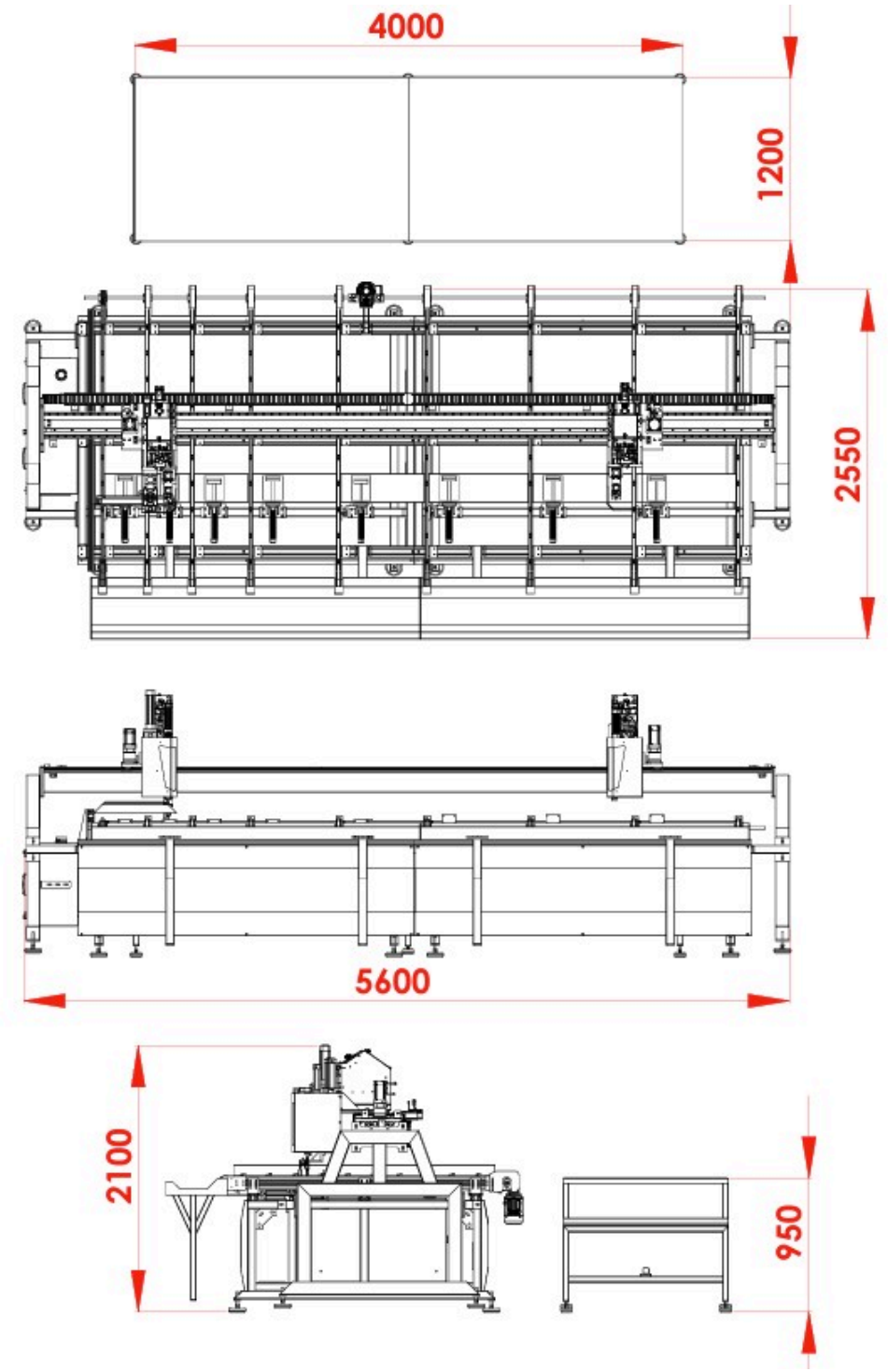


Conveyor Movement System

UPVC profiles that will undergo fastening operations are placed 4 units on conveyors and fastening operations are performed sequentially, then the conveyor movement transfers the completed profiles to the storage area. Support systems are available on the belts located on the conveyor for comfortable positioning of profiles.

Technical Drawings

Layout Plan 1



Technical Specifications

Technical Specifications

Air Pressure	**6-8 Bar**
Total Air Consumption	**200 l/min**

Voltage	**400 V**
Total Power	**5 kW**

Profile Processing Capacity

Minimum Profile Length	**350 mm**
Maximum Profile Length	**4600 mm**
Minimum Profile Height	**30 mm**
Maximum Profile Height	**180 mm**
Minimum Profile Width	**40 mm**
Maximum Profile Width	**140 mm**

Machine Dimensions

Length	**5600 mm**
Width	**2550 mm**
Height	**2100 mm**
Weight	**1380 Kg**

Storage Shelf Dimensions

Length	**4000 mm**
Width	**1200 mm**
Height	**950 mm**
Weight	**120 Kg**

iNTEL MAKiNA
INDUSTRY AND TRADING CORP.

Kayapa Organized Industrial Zone, Mavi St. No:45/45 Nilüfer,
BURSA/TURKIYE
+90 (224) 504 30 32 | info@intelmakina.com
www.intelmakina.com