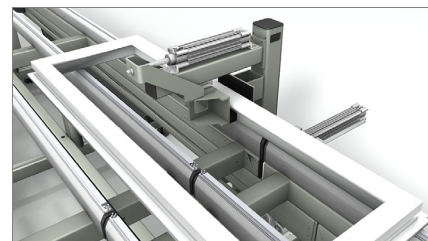


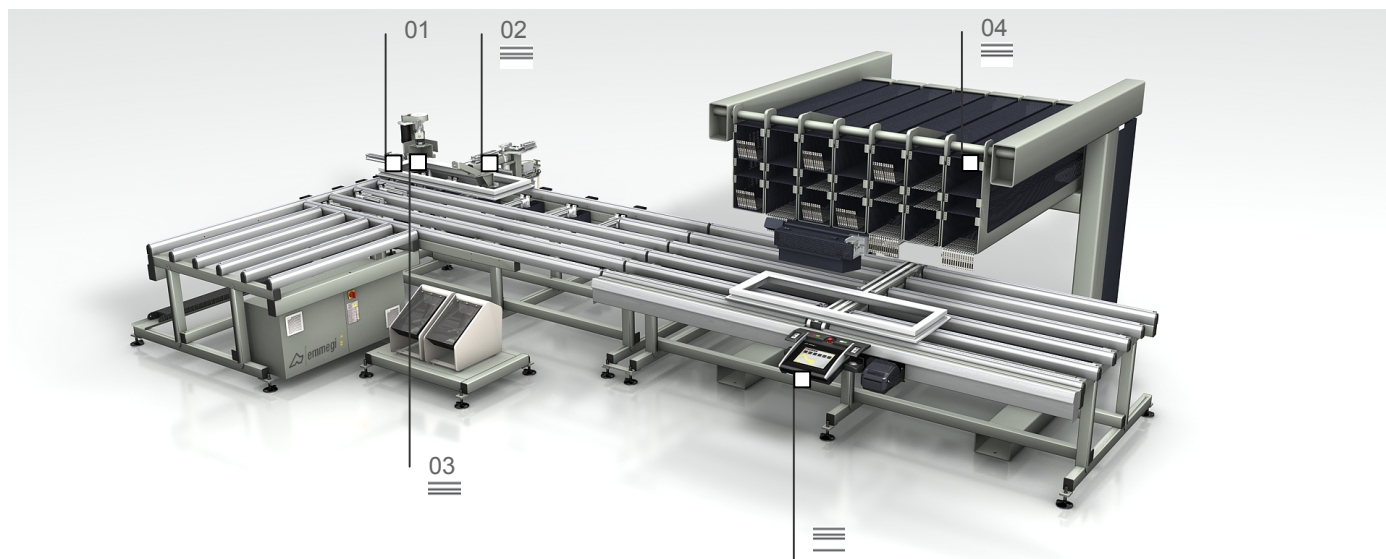
Automatic screwing double trolley 01



Frame transfer 02

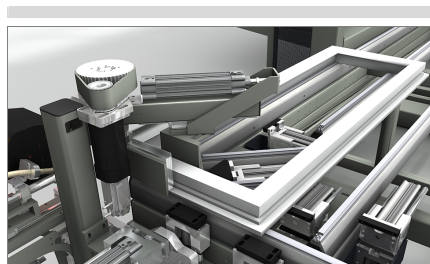
Insermatic H2

Automatic workbench for hardware assembly and screwing



Automatic workbench for the automated screwing of hardware with constant or variable step on door and window frames, with large worktable that allows large frames to be handled and rotated. It is fully programmable from a console or more commonly receives data from a hardware management system which automatically programs machining. Two screwdrivers with automatic screw feed work two sides of the frame simultaneously. It is equipped with a pre-assembly workbench with component selection systems, with a 21-place hardware storage unit complete with a CN shear for customised cutting and swarf collection drawer. The storage unit can be enlarged on demand to 42 places and can be supplied with an additional shear for variable hardware and LED identification system (optional). The "BA" models are equipped with a transport system which allows for the automatic movement of frames from the assembly workbench to the hardware screwing workbench.

Frame rotation 03



Hardware storage unit with LED selection system 04



Control 05



The pictures are provided by way of illustration only

Insermatic H2

Automatic workbench for hardware assembly and screwing

01

Automatic screwing double trolley

The H2 model is equipped with two independent screwing stations to simultaneously work on two sides of the frame, with the possibility of inserting a third loader for special screws.

02

Frame transfer

This system allows to transfer large frames and reposition them without any operator intervention, up to the point in which hardware screwing takes place automatically.

03

Frame rotation

Frame rotation for sequential processing of the 4 sides is ensured by an automatic CN system. The device allows to rotate large frames and reposition them without any operator intervention, until hardware fixing on the board is complete.

04

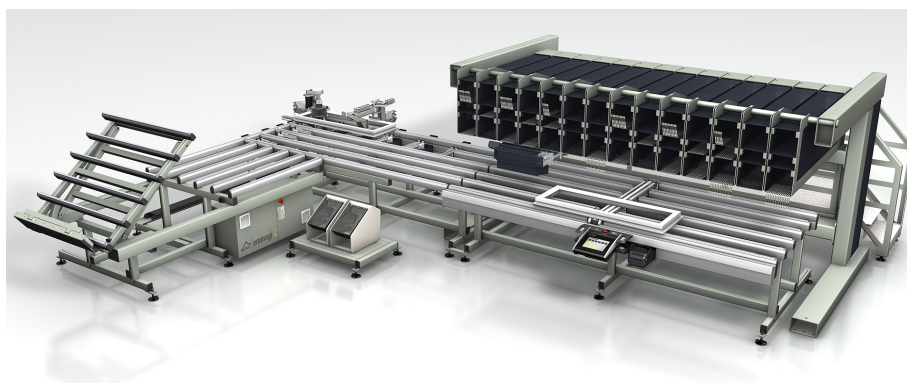
Hardware storage unit with LED selection system

For perfect hardware storage unit organisation near the line, INSERMATIC can optionally be completed with a 21 or 42 place storage unit, loadable from the rear side and easily accessible by the operator on the front side. The storage unit can be equipped with a LED system to ease the selection of the proper hardware components and with a rear mezzanine to ease loading.

05

Control

The ergonomic and extremely advanced control panel uses a 10.4" touch screen display and completely customised software and is full of functionalities developed specifically for this machine, in Microsoft Windows® environment.



"BA" model with 42 place storage unit and online unloading unit

MACHINE CHARACTERISTICS

Number of controlled axes	5
X axis run – main screwing unit (m/min)	3860
Y axis run – frame pick-up from assembly area and secondary screwing unit (m/min)	4870
R axis run – frame rotation	-5° ÷ 185°
X axis speed – screwing positioning (m/min)	45
Y axis speed – frame translation from assembly area (m/min)	45
Y axis speed – screwing positioning (m/min)	45
R axis speed – frame rotation (°/min)	2500
Operating pressure (bar)	6 – 7
Air consumption (NI/min)	700
Installed power (kW)	8
Maximum capacity (kg)	240

PRE-ASSEMBLY WORKBENCH

Hardware pre-assembly workbench	•
21 compartment hardware storage unit	•
42 compartment hardware storage unit	○
CN shear for hardware with constant step	•
Swarf collection drawer	•
CN shear for hardware with variable step	○

SCREWING UNIT

Number of screwing units	2
Additional loader for screws of special length	○

PIECE LOCKING

Frame locking system via pneumatic clamps	•
Minimum profile height (mm)	34
Maximum profile height (mm)	120
Maximum profile locking dimension (mm)	170
Minimum workable frame dimension - outer measurement (mm)	400 x 400
Maximum workable frame dimension - outer measurement (mm)	1250 x 2500
Maximum workable frame optional dimension - outer measurement (mm)	1250 x 2700

WORK SURFACES

Contact surfaces covered with brushes	•
Work surface height (mm)	905

- included
- available