

## Point to Point Boring, Gluing and Dowel Insertion Machine for Doors and Windows

### INSERT DW 500



**OMAL**

## Standard Operation:

### BASIC MACHINE

The **INSERT DW** is a point to point boring gluing and dowel insertion machine specially designed to make borings and dowel insertions on edges of doors and windows. Thanks to optional external shoulders it is also possible to make borings on door and window studs.

The working head is fitted with three stations: drilling with air cleaning of the hole, gluing, and dowel insertion.

Thanks to the three axes the machine is equipped with (horizontal X axis, vertical Y axis, Z axis for the depth of the holes and the dowel projection) it is possible to solve any kind of boring and dowel insertion problem.

The high pressure gluing plant has been completely designed and produced by OMAL; with the control system of glue injection, it guarantees the insertion of glue into the hole, assuring the quality of pieces output from the machine.

The special software is very simple to use and makes the machine very versatile.

### Numerical Control CNC:

Numerical control TPA based on PC of commerce with ax card integrated on Bus PC.

PC characteristics:

- PC I3-8100
- RAM 4 GB DDR4
- SSD 128 GB
- USB port
- Colour video 17" TFT
- Complete keyboard + mouse
- Windows 10 IOT
- Ethernet network card
- Serial line for barcode connection

### CNC Characteristics:

- N° 3 axes
- Driver Bus of field Greenbus for remote Input/Output
- Graphics programming 2D ½ with simultaneous working display
- Graphics menu for macro-working selection:  
boring, boring+gluing+dowel insertion, gluing+dowel insertion
- Parametric programming
- Graphical aids
- Pre-programmed executive lists, which can be edited, run-time and structured into articles
- Internal self-diagnosis, historical report of alarms

### CE regulations

### Drilling Unit:

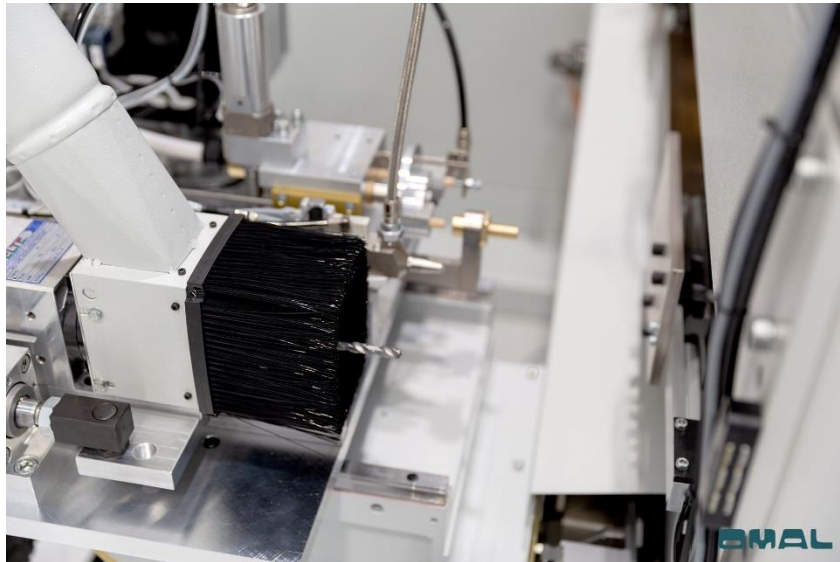
-One unit with a high frequency spindle to solve more complex and not standard boring problems

-Power

2,2 KW

-Drills rotation speed

6000-12000 rpm



### Blowing Unit:

-N° of air blowing

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### Gluing Unit:

-N° of glue guns

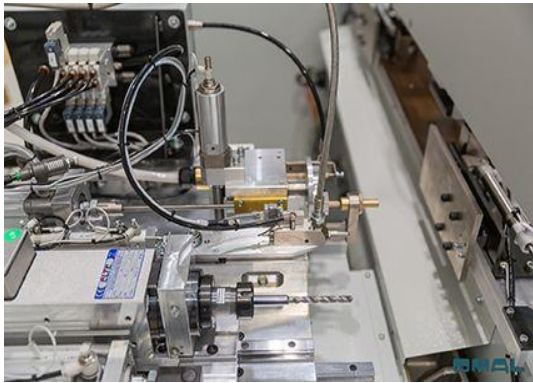

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-Automatic washing cycle

-Glue electronic dosage

-Electronic control of glue insertion into the hole through inductive sensor

- Monocomponent vinyl glue type B3

Code	Description	Image
AS-DW	Horizontal Bore and Dowel Machine for Doors and Windows	
VR-500DW	<p>X axis: Stroke 500 mm Speed 60 m/min Y axis: Stroke 120 mm Speed 15 m/min Z axis: Stroke 120 mm Speed 15 m/min</p>	
VR-SPINA8L	<p>Dowel Insertion Unit: -N° of dowel insertion units 1 -dowel dimension (other dimensions upon request) <math>\varnothing</math> 8x30/60 std -max dowel projection 14mm -fiber optic sensor to check for dowel presence - Dowel feeding Vibrator</p>	
VR-POMPA 10-1	10-1 High pressure glue pump complete with pump support, glue/water switch for cleaning, glue filter and glue pressure regulator	

VR-VOLT 400	<p>General Information:</p> <ul style="list-style-type: none"> <li>-Voltage 400V 3Ph+N 50Hz</li> <li>-Control voltage 24 V</li> <li>-Air pressure</li> </ul>	
VR-Pallet 500	Packing on pallet for Insert 500	

Code	Description	Image
VR-2500DW	<p>X axis: Stroke 2500 mm Speed 60 m/min Y axis: Stroke 120 mm Speed 15 m/min Z axis: Stroke 120 mm Speed 15 m/min</p>	
VR-DW2HZ	<p>Second diameter drilling-gluing-dowel insertion head Second drilling unit: -Power 2,2 KW -Drills rotation speed 6000rpm</p>	
VR-DW-LIV2	<p>Second diameter drilling-gluing-dowel insertion head Second drilling unit: -Power 2,2 KW -Drills rotation speed 6000rpm Gluing unit: -N°1 glue gun -Glue electronic dosage -Electronic control of glue insertion into the hole through inductive sensor - Monocomponent vinyl glue type B3 Dowel insertion unit: -N° of dowel insertion units 1 -Dowel dimension upon request -Dowel feeding vibrator</p>	