

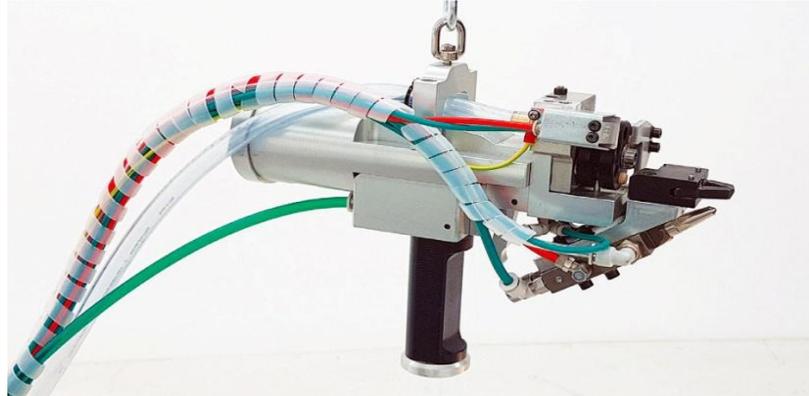


DOWEL INSERTER

Pizzi® easySHOT SP165



Ca 3400 dowels per hour!



- For dowels \varnothing 6, 8, 10, 12 mm, Lmin 25 mm, Lmax 80 mm
- Any PVA adhesive in water dispersion visc. 200-400 mPas
- Option: you need piston pump for high viscosity glue
- The need: 230V/ 50 Hz / 0.7 kW / press. air 6 bar
- Presentation: <https://youtu.be/xhCGTRFUVDQ>
- Netto 310 kg / brutto 360 kg



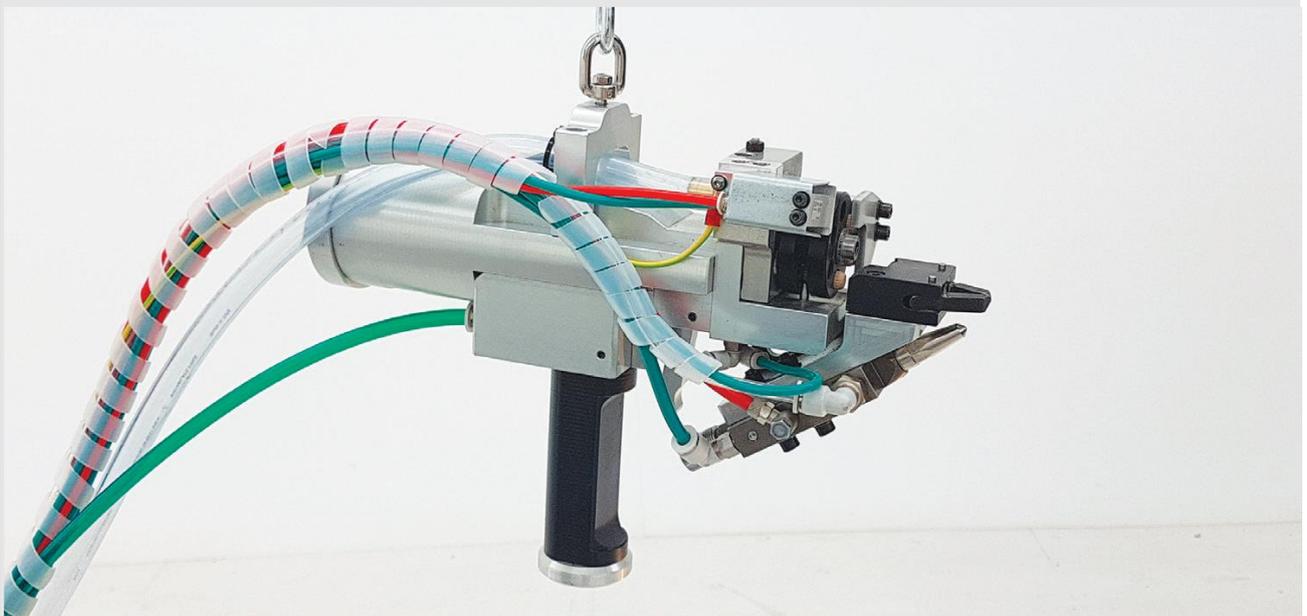
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easySHOT

Stationary dowel inserting machine
with pneumatic gun for simultaneous operation of
glue application and dowel insertion



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STATIONARY DOWEL INSERTING MACHINE WITH PNEUMATIC GUN FOR SIMULTANEOUS OPERATION OF GLUE APPLICATION AND DOWEL INSERTION.

Description and technical features

A unique system that ...

This manual dowel inserter machine allows to realize, through a series of automations, simultaneous operation of glue application and dowel insertion in pre-drilled panels, furniture components, small parts, solid wood components and wood construction components.

The dowels must be loaded inside the circular vibrator, which allows to orient the pins, which are then cadenced and sent to the gun through a hose.

The dowel, by means of a breath of air, is pushed into the drum loader inside of the gun and, then, it is inserted through a cylinder that pushes it towards the dowel hole.

This is a unique system that, avoiding mechanical drives (usually used in other machines for similar applications), keeps out problems of dowel jams, and in addition proves to be very safe.

Before the dowel is shot, the glue - with a very fast operation - is applied by means of the gun placed below the pin passage. The amount of glue can be easily adjusted through the adjustment knob on the gun.

With the "Sure Dowel Shot" system, EasySHOT also presents the latest technologies for the control and insertion of each dowel, to ensure the final result of each cyclic operation.

A barrier photocell (or presence sensor) controls the effective insertion of each dowel into the hole, checking each operation.

Through a PLC, it is possible to configure different parameters for glue application and dowel insertion.

The dowel insertion unit is configured for a single dowel diameter.

This unit is covered by the protection according to CE safety regulations.

The machine is configured with the following standard units:

- Structure in electrowelded sheet metal, painted with epoxy powders, placed on wheels, with working console and handle to facilitate machine shift;
- Action gun, pneumatic, very light and ergonomic;
- PLC and control panel placed at the height of the man eye, in an ergonomic position;
- Vibrating electric feeder complete with unidirectional dowel bowl;
- High quality pressurized tank - in accordance with the directives CE and PED – for PVA glue (low viscosity), 8 kg capacity, maximum operating pressure 5 bar;
- High quality pressurized tank - in accordance with the directives CE and PED – for water (for the cleaning system), 8 kg capacity, maximum operating pressure 5 bar;
- Cleaning unit for the complete system (machine and gun) with button for cleaning (glue / water);
- Movable support arm for pneumatic gun with balancer;
- Filter group;
- Various drives and controls;
- Electric panel.

Production capacity

3,400 dowel insertions per hour

(Which means the complete operation of simultaneous application of glue and dowel insertion).

available DOWEL DIAMETERS:

6 - 8 - 10 or 12 mm.

The machine – in standard configuration – is provided with a single dowel diameter, the customer chooses the desired diameter among the four available options.

DOWEL LENGTH:

25 mm / min. - 80 mm / max.

GLUE SPECIFICATIONS

Any PVA adhesive in water dispersion *, specially formulated for the use of automatic machines for simultaneous application of glue and dowel insertion.

* (Adhesives in dispersion, generally called emulsion, is an adhesive composed of a organic binder (mainly PVA) that is finely dispersed in water).

GLUE VISCOSITY (BROOKFIELD): 200-400 mPa s

PRESSURIZED TANK FOR GLUE: * no. 1 (8 Kg capacity)
PRESSURIZED TANK FOR WATER: * no. 1 (8 Kg capacity)

* Maximum working pressure of pressurized tanks: 5 bar.

Options

- Unit to be able to use one (1) other type / diameter of plugs (to have available an additional dowel diameter).

Some parts must be set on the gun and others on the machine.

- High pressure pump for high viscosity glue.

For a correct and long-lasting use, the machine requires the following necessary connections:

- 220 volts / 50 Hz. Single phase (others available on request);
- Installed power 0,7 Kw;
- 6 bars of compressed / dry air.

Technical details

MACHINE SIZE	900 x 800 x h 1.600 mm h 2.100 mm total, with movable support arm set
MACHINE SIZE WITH PACKING BOX	950 x 850 x h 1.750 mm (WOODEN BOX, movable support arm not set)
NET WEIGHT	310 kg
TOTAL WEIGHT (packaging included)	360 Kg

Benefits and advantages

- System of simultaneous application of glue and dowel insertion, professional, efficient and very fast;
- Great saving of time and glue during the production process, shorter dead times, without cleaning problems;
- Processing times are drastically reduced (- 80%) compared to any manual application and to any use of traditional and obsolete devices;
- Cost-effective and fast dosing system, with simultaneous application of glue and dowel insertion, flexible, safe and clean;
- Glue amount and dowel insertion always accurate and constant;
- "Sure Dowel Shot" system, the latest technology that verifies and guarantees every operation of glue application and dowel insertion, to be sure of the final result of each operation carried out cyclically;
- Stronger adhesion between all the glued parts and long-lasting quality of all the parts stuck together;
- Precise dowel insertion, with the certainty of always keeping the dowel on axis and with a constant directionality;
- Maximum cleaning during each processing phase compared to any manual application and to any use of traditional and obsolete devices;
- Always ready for use;
- Working in total security;
- High quality technology, which guarantees a long service life.

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