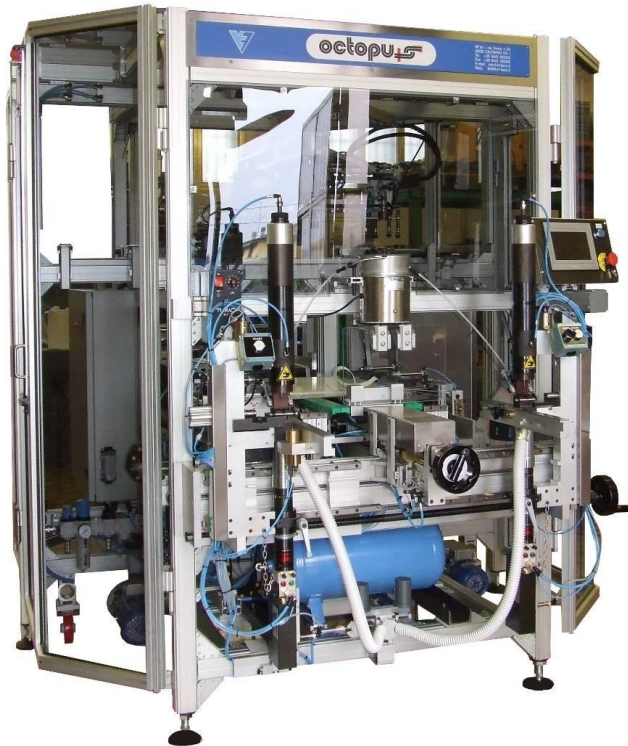


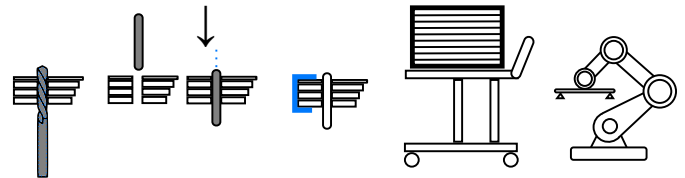
OCTOPUS

AUTOMATIC DRILLING, PINNING AND TAPING TWIN MACHINE FOR PCBs + OPTIONAL FULL AUTOMATIC
LOADING SOLUTION
PIN Ø 3/3.17/4/5MM VERSION



Available configurations to fit any standard pin diameter used in the market:

- **3mm, 3.17mm, 4mm e 5mm**
- Multilayer: pinning only
- Multilayer: pinning and taping
- Double-sided: drilling and pinning
- Drilling, pinning, and taping



OCTOPUS is the ideal solution for those seeking compactness, efficiency, and ease of use in printed circuit board (PCB) processing.

A single machine handles the insertion of registration pins into both double-sided and multilayer PCBs, the application of adhesive tape to two or four sides of the stack, and the unloading of stacks onto trolleys.

Simple, quick settings allow for rapid production changes, adapting the machine to various operational needs such as pin insertion only, or drilling and insertion with the option to add tape application on two or four sides.

Built with high-quality materials and featuring field-proven operation, it ensures high reliability, robustness, and durability.

Operation is intuitive and requires only brief basic training.

The operator works in safe, comfortable conditions: simply guide the PCB into the work area and perform the straightforward steps required by the selected process.

At the end of the cycle, the two pins and the tape are correctly applied to the PCB stack.

Tape application can be performed on two or four sides.

The machine is equipped with a vibration system for automatic pin insertion.

For multilayer PCB processing, a retractable punch system combined with "floating" technology ensures correct centering and precise pin positioning, compensating for any stack tolerances.

The pin insertion stroke is controlled by a proven, adjustable mechanism that allows for precise setting of the insertion depth, ensuring uniform and correct pin height. Ideal for medium-to-high volume PCB production.

It can be integrated with an automatic robotic loading system for the various components that make up the PCB stack.

The data and images contained in this datasheet are for indicative purposes only and may be subject to change without prior notice.

100% MADE IN DVBE

- Origin & Manufacturing: Fully designed, engineered, and manufactured in-house (100% In-House Production).
- Machining & Reliability: High-precision mechanical processing ensuring long-term reliability and accuracy over time.
- Service Life Expectancy: > 30 years, backed by decades of specialized industry expertise.
- Maintenance: minimal, restricted to scheduled inspection and replacement of wear parts.
- Ergonomics & Safety: ergonomically optimized design to minimize operator physical fatigue and overload during operation



Customization Options:

Tailor-made machine configurations available to process materials with custom dimensions or specific technical properties.
Contact our engineering team for bespoke solutions.

TECHNICAL DESCRIPTION

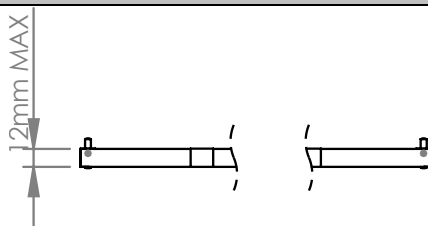
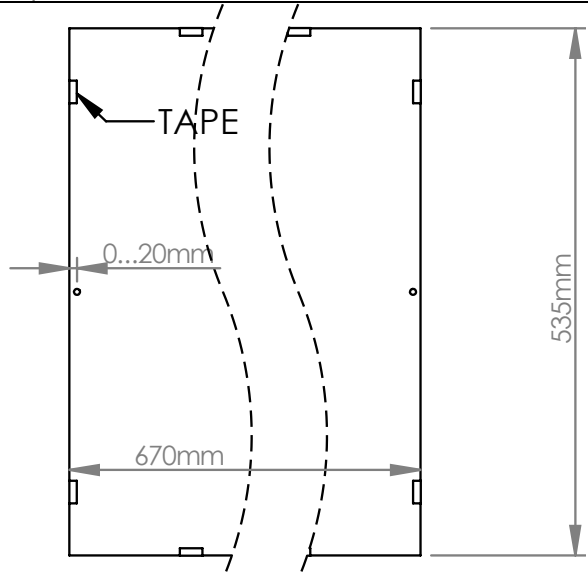
GENERAL

- Installation & Commissioning: Fast and straightforward plug-and-play setup.
- Operator Training: Zero specialized training required; fully intuitive operation

MECHANICAL

- Construction Materials: Premium-grade painted steel, stainless steel, and anodized aluminum.
- Surface Treatments: Engineered surface coatings applied to enhance durability and support low-maintenance performance.

TECHNICAL DATA

WORKING LIMITS		
PCB STACK THICKNESS <i>The indicated measurement are expressed in millimetres</i>		12mm (max)
PCB DIMENSIONS <i>The indicated measurement are expressed in millimetres</i>		350-670mm (min/max)
PIN DIMENSION		
PINS	Ø3/3.17/4/5mm	
KIND OF MACHINE	ORDER DIMENSIONS	WEIGHT
STAND-ALONE STRUCTURE	2100x2700 h2150mm	1100Kg
AIR INLET CONNECTION		
ALL VERSIONS	6 bar	
MAIN POWER		
ALL VERSIONS	400VAC – 1KW	

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CONFIGURATION OPTIONS

KIND OF MACHINE	ORDER CODE	PIN DIMENSION
STAND-ALONE STRUCTURE	OCTOPUS-TP-25-x	x = 3/3.17/4/5 Ømm

ORDER CODE EXAMPLE **OCTOPUS-TP-25-4** MEANS VERSION CALIBRATED FOR Ø4MM PIN

OPTIONAL

REINFORCED PINNING CYLINDERS	INCREASE IN PIN INSERTION FORCE
THIRD HOLE CHECK	VERIFICATION OF CORRECT PCB ORIENTATION
SUCTION GUILLOTINE	GUILLOTINE WITH CONTROLLED SUCTION DURING THE CYCLE
ADDITIONAL TROLLEY	ADDITIONAL TROLLEY FOR PCB STORAGE
REMOTE SUPPORT	REMOTE SUPPORT MODULE
AUTOMATIC LOADING	AUTOMATIC PCB LOADING SYSTEM

TECHNICAL DIMENSIONS

The indicated measurement are expressed in millimetres

2100x2700 h2150mm