Handheld Automatic Screw Locking Assembly Machine WPM-801

Model No. WPM-801



SPECIFICATIONS

Model Number	WPM-801
Efficiency	50-70pcs/MIN (Depends on screw length)
Voltage	220V/50Hz
Screw-feeding Speed	0.75sec/p
Power	30W
Weight	9kg
Dimension	370*250*190mm
Noise	lower than 65db
Distance	1-4M

The WPM-801 is a hand-held automatic screw locking machine. The driver is a pistol-grip unit connected by a 1-4 m tube to a 9 kg feeder cabinet; screws are blown through the tube to the bit, so the operator positions the tool and pulls the trigger without picking up a screw. Output is 50-70 pcs/min, depending on screw length.

Manual assembly loses time at the pick-up rather than at the drive: reaching into a tray, orienting the screw and starting it straight accounts for most of the cycle. In the WPM-801 the screw arrives at the bit in 0.75 s per piece, already aligned with the driver axis, and the feeder counts each screw on a digital display so a short feed is visible before a screw is missed. The cabinet groups the air regulator, filter, pressure gauge and emergency stop, and feed noise stays below 65 dB.

The WPM-801 is the hand-positioned member of the screwdriving range. The WPM-802 three-axis table drives at 3-5 seconds per workpiece and suits flat parts that can be fixtured, and the WPM-803 four-station rotary machine is built for volume on small housings. The WPM-801 is the choice when the workpiece is too large, too heavy or too awkward to bring to a table, or when several operators work on one assembly.

Key Features

1. 50-70 pcs/min output, governed by screw length and thread engagement.

2. Screw feed time of 0.75 s per piece from the feeder to the bit.

3. 1-4 m feed hose, so the 9 kg cabinet can stand on the floor or a bench away from the work position.

4. 30 W at 220V/50Hz; cabinet measures 370 x 250 x 190 mm and the complete set weighs 9 kg.

5. Feed noise below 65 dB, low enough to run in an open assembly cell.

6. Front panel groups the emergency stop, digital screw counter, air regulator, filter and pressure gauge, so feed pressure is trimmed at the machine.

Technical Specifications

Parameter	Specification
Model Number	WPM-801
Efficiency	50-70 PCS/MIN (depends on screw length)
Voltage	220V / 50Hz
Screw-feeding speed	0.75 sec/piece
Power	30 W
Weight	9 kg
Dimension	370 x 250 x 190 mm
Noise	lower than 65 dB
Feed distance	1-4 m

Applications

— Consumer electronics: assembling small appliance housings and control boxes with M2-M4 screws.

— Cable harness and connector assembly: fixing strain-relief clamps and connector shells.

— Furniture and shelving hardware: driving screws into flat-pack panels at fixed stations.

— Electrical panels: fastening terminal blocks, DIN rail components and covers.

— Automotive aftermarket: assembling lamp housings and brackets that cannot be moved to a table.

FAQ

What is the primary application and benefit of the WPM-801 Handheld Automatic Screw Locking Assembly Machine?

The WPM-801 is designed for high-volume assembly lines where speed and operator ergonomics are critical. Its primary benefit is boosting assembly efficiency with a rapid speed of 50-70 screws per minute, significantly reducing manual labor fatigue and increasing production output compared to traditional screwdrivers.

What are the key technical specifications of the WPM-801 automatic screw driving machine?

The WPM-801 operates on a 220V power supply with a 30W motor. It is a handheld unit weighing approximately 9KG, making it robust yet manageable for extended use. These specifications make it suitable for industrial environments, providing reliable power while maintaining a design focused on operator comfort during high-volume tasks.

How does the WPM-801 improve ergonomics and reduce operator fatigue?

As a handheld automatic screw locking machine, the WPM-801 is engineered for ergonomic operation. It automates the screw feeding and driving process, eliminating the repetitive manual handling of screws. This design minimizes wrist strain and operator fatigue, allowing for longer, more productive work cycles and contributing to a safer, more efficient workstation.

Is the WPM-801 suitable for automated or robotic assembly lines?

Yes, the WPM-801 functions as a versatile handheld screwdriver for manual stations and can also be integrated as a modular automatic screwing robot in semi-automated or automated assembly systems. Its consistent driving performance and high speed make it an ideal component for streamlining high-volume production processes.

Who is the ideal user for this handheld screw locking assembly machine?

The ideal users are manufacturers and assembly facilities engaged in electronics, appliance, automotive component, or furniture production—any industry requiring rapid, reliable screw fastening in high-volume scenarios. It is perfect for companies looking to upgrade from fully manual driving or to enhance their existing assembly lines with efficient, ergonomic tools.