



iNTEL MAKiNA
INDUSTRY AND TRADING CORP.

PEM 100

End Mill Machine

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Description

A manually operated portable machine; ideal for precision end milling (face milling) operations on PVC and aluminum profiles.

Highlights

- ✓ Adjustable vise system
- ✓ Saw adjustment apparatus
- ✓ Adjustable alignment apparatus with special bolt
- ✓ Start–Stop operation
- ✓ Easily movable carriage (carrier system)
- ✓ Saw adjustment apparatus
- ✓ 2 adjustable vise systems
- ✓ Hex key wrench

Optional Features

- + Saw blade change

Machine Components



TOOL, BODY AND VISE SYSTEM

The PEM 100 End Mill Machine is a manually controlled, portable/tabletop mechanical processing machine designed for end milling (face routing / center-line butt joint milling) operations on PVC and aluminum profiles.

Drive and Cutting Group

Vertical Electric Motor: A vertically mounted electric motor located at the rear rotates the milling tool bit at high speed to perform end routing operations.

Manual Feed Handle: A vertical black grip handle located on the right/rear of the motor block allows manual feeding of the processing head over the profile to complete the cutting operation.

Spring Return Guide Shaft: The processing head slides on a spring-loaded horizontal guide shaft located at the rear; ensures safe return of the head to the starting position after cutting.

Manual Clamping and Support Mechanism

Vertical Manual Clamping (Pressure) Piston: A long-lever mechanism with white plastic/Delrin wedge at the bottom located at the top center manually secures the profile to the table from above.

Horizontal Manual Clamping Piston: A black-lever shaft mechanism on the right side clamps the profile from the side, preventing profile movement and slippage during processing.

Adjustment Clamps (Clamping Levers): Black clamping levers enable quick and tool-free adjustment for different profile widths and heights.

Frame and Table Structure

Heavy-Duty Cast Frame: Features a cast/molded body structure to prevent vibration and deflection.

Angled/Flat Profile Support Bearings: Contains machined metal support blocks that ensure proper seating and precise milling of the profile.

Technical Specifications

General

Voltage	230 V
Power	1.1 kW / 1.5 HP
Frequency	50–60 Hz
Speed	2850 rpm
Max. Saw Diameter	128 mm
Special Bolt	35 mm
Vise (Quantity)	2
Weight	27 / 28 kg
Machine Dimensions	495 × 237 × 433 mm
Package Dimensions	52 (l) × 35 (w) × 49 (h) cm



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