



iNTEL MAKiNA
INDUSTRY AND TRADING CORP.

PK 503

Automatic PVC Cutting Machine

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Description

Cutting machine designed for straight and angled cutting operations of PVC and aluminum profiles.

Highlights

- ✓ Ø 450 mm saw blade
- ✓ 2 x pneumatic vertical vises
- ✓ Air gun
- ✓ Right Conveyor 2.4 mt
- ✓ Left Conveyor 2.4 mt
- ✓ Cutting with spring mechanism at 45°, 30°, 22.5°, 15°, 0° angles in right and left directions
- ✓ -45° left and +45° right precision cutting at all intermediate angles
- ✓ Manually opening protective cover
- ✓ Foot Pedal Control

Optional Features

- + Spray saw blade cooling system
- + Hydro-pneumatic controlled saw blade movement

Machine Components

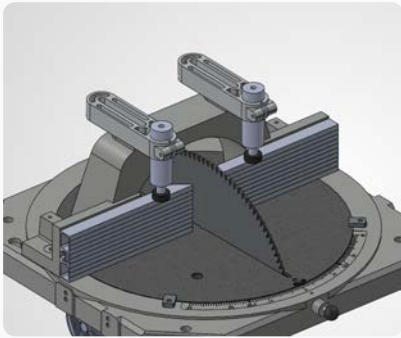


TABLE SECTION

Circular Saw Blade: A circular saw blade positioned vertically at the center of the machine. Part of the blade protrudes upward from a slot beneath the table and is ready for cutting.

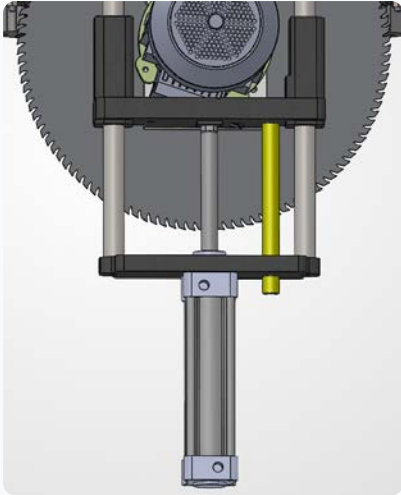
Rotating Cutting Table: A circular table that can rotate to change the cutting angle.

Precision Angle Gauge: A highly accurate angle gauge located on the edge of the rotating table, displaying angles from 0° to 45°. This gauge allows the operator to cut the workpiece at the exact desired miter angle. The ball pin on the front is part of a mechanism that provides quick and secure locking at specific angles (for example, 0°, 15°, 22.5°, 30°, 45°).

Two-Part Support System: On both sides of the saw blade, there are two separate support pieces made of aluminum profile material with grooved surfaces. These pieces provide a surface to hold the workpiece perpendicular to the blade during cutting.

Vertical Vise Mechanisms: Behind the support pieces, there are two vertical vise mechanisms consisting of arms and pneumatic cylinders. These vises hold the workpiece firmly and securely against the aluminum support pieces and rotating table, preventing movement during cutting.

Support Structures: At the rear, there are larger vertical metal support pieces that carry the vise arms and provide a robust structure.



SAW BLADE SECTION

Circular Saw Blade: A large toothed circular blade serving as the main cutting element, positioned in a vertical plane behind the motor.

Electric Motor: Provides power to the saw blade through a shaft.

Pneumatic Cylinder: This is the primary linear actuator that moves the entire cutting head up and down. The aluminum-bodied cylinder uses compressed air to lower the head for cutting and then retracts it. Provides automatic, repeatable cutting.

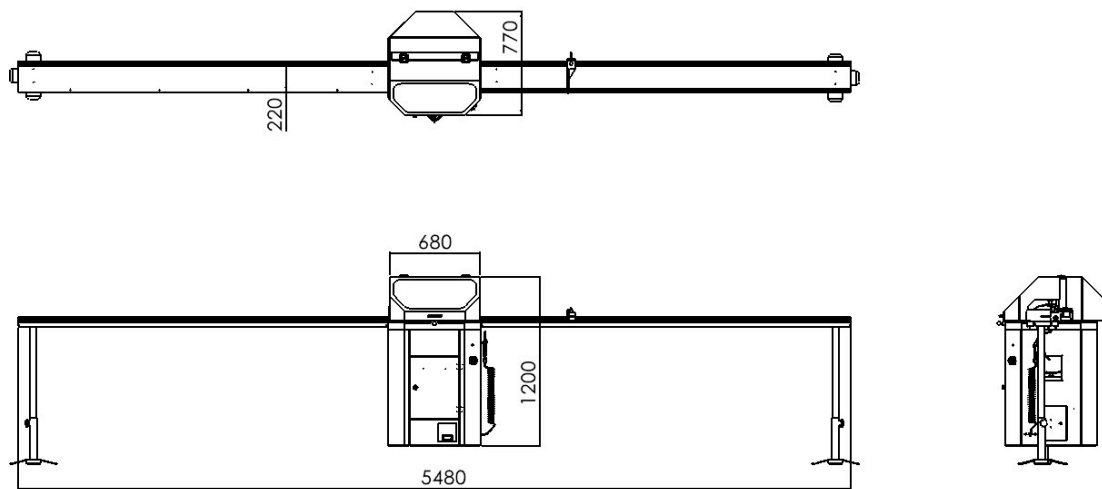
Linear Guide Rails and Blocks: The motor and cylinder slide on two vertical polished metal guide rails. Two black upper blocks and two black lower connection plates ensure the entire assembly moves smoothly and without wobbling on these rails.

Adjustable Depth Stop Shaft: This long yellow shaft limits the downward movement (cutting depth) of the cutting head. The threaded part or collar at the lower end can be adjusted vertically to precisely control how far the head can descend. This is critical for consistent cutting quality.

Connection Plates: The upper and lower black vertical plates connect the motor, cylinder, and guide blocks to each other, creating a rigid frame.

Technical Drawings

Technical Drawing 1



Technical Specifications

CUTTING UNIT

Motor Power	1.5 kW (1.1 kW Square Motor)
Voltage	400V
Power Supply Type	3Ph
Frequency	50/60 Hz
Saw Blade	450
Air Consumption	80lt
Saw Blade Rotation Speed	3000 rpm
Spring-Loaded Cutting Angles	45°, 30°, 22.5°, 15°, 0°
Vertical Vise	✓
Input Conveyor	2.4 Mt
Output Conveyor	2.4 Mt

MACHINE DIMENSIONS

Machine Height	1200 mm
Machine Length	770 mm
Machine Width	680 mm
Machine Weight	155 kg

PACKAGING DIMENSIONS - MACHINE

Machine Height	1300 mm
Machine Length	830 mm
Machine Width	725 mm

PACKAGING DIMENSIONS CONVEYOR

Conveyor Height	300 mm
Conveyor Length	600 mm
Conveyor Width	2800 mm



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