



iNTEL MAKiNA
INDUSTRY AND TRADING CORP.

UMS 700

Upcut Cutting Machine

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Description

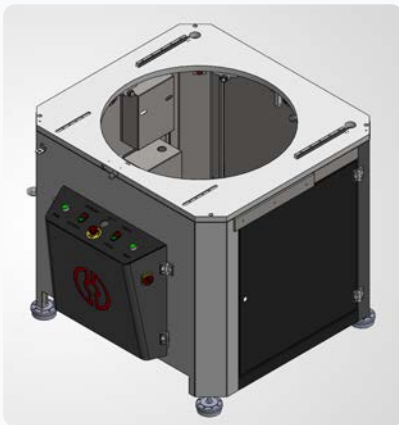
Designed for straight or angled cutting operations on large-sized profiles manufactured from PVC and aluminum materials. With a hydro-pneumatic controlled Ø 700 mm saw, it can perform precise cutting at all angles from -75° to +75°.

Highlights

- ✓ Safe operation with dual-hand control
- ✓ Cutting with spring stop at 75°, 60°, 45°, 30°, 22.5°, 15°, 0° angles in both right and left directions
- ✓ Precise cutting at all intermediate angles from -75° left to +75° right
- ✓ Hydro-pneumatic controlled saw movement
- ✓ Adjustable saw feed speed
- ✓ Pneumatically opening protection cover
- ✓ Safety relay with locked upper and lower cover interlocks
- ✓ Pneumatic dual-pressure vise clamping for operator hand protection
- ✓ Movable support angle for wide-angle profiles (120 mm)
- ✓ Ø 700 mm saw

- ✓ Spray-type saw cooling system
- ✓ 300 cm conveyor x 2
- ✓ Vertical Vise x 2
- ✓ Horizontal Vise x 2
- ✓ LED lighting (Cabinet Interior)
- ✓ Laser marking set showing cutting line
- ✓ Rubber Vibration Feet
- ✓ Single manifold powerful chip vacuum system
- ✓ Air Gun

Machine Components



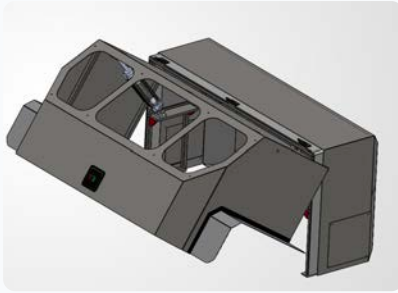
FRAME

High-Capacity Chassis: Its heavy-duty construction and extended circular central bore allow for larger-diameter cutting systems.

Upper Table Guide Channels: Linear channels on the table enable precise mounting and sliding of additional accessories and support systems.

Ergonomic and Safe Control Panel: The inclined control panel with Emergency Stop, Start/Stop, and lock switch provides practical and safe operation.

Vibration Damping and Access: Height-adjustable rubber feet absorb vibration, while hinged side panels provide quick maintenance access to internal mechanisms.



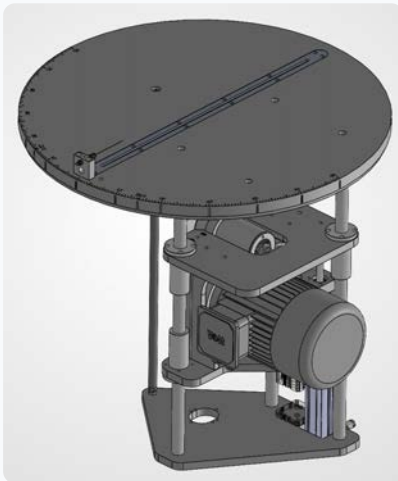
PROTECTIVE COVER

Extended Protection: Prevents chip and burr ejection during large saw and profile cutting operations, absorbs noise.

Integrated Cover Control: The button panel on the front cover allows the operator to manage the cover and process cycle directly from the cabin.

Automatic Pneumatic Operation: Automatic opening and closing with a powerful pneumatic cylinder, providing serial and ergonomic operation.

Visibility and Accessibility: Three-section wide viewing windows and wide-angle opening design make cutting control extremely convenient.



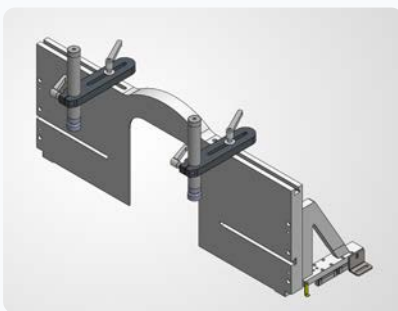
SAW

High Cutting Capacity: Large Ø700 mm saw blade and powerful Volt motor easily cut thick-walled profiles.

Upcut System: The saw blade is hidden below the table; during cutting, it rises vertically with a pneumatic cylinder, providing complete safety.

Rigid Vertical Guidance: Twin vertical columns and precision bearings on both sides ensure vibration-free and burr-free cutting surface.

Precise Angle Adjustment: Degree scale on the rotating table enables quick and accurate cutting at desired angles.



SUPPORT

Wide Reference Surface: Ensures large-section profiles rest perpendicular to the cutting table and zero-reference without bending before cutting.

Arched Design: The special curved opening between two plates allows the large saw blade to rise without interference.

Rigid Support Structure: Heavy-duty rear support bracket prevents degree deviation caused by thrust forces during support.

Precise Adjustment: Slotted arms and vertical buffer shafts quickly adapt to profiles of different widths and wall thicknesses.



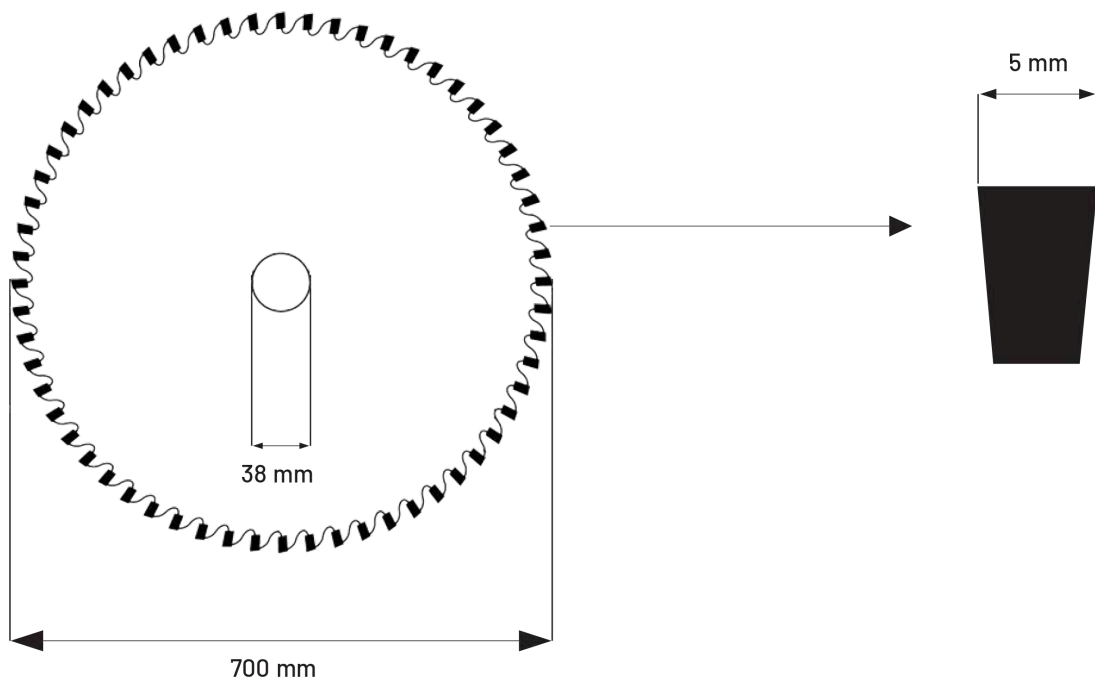
MEASUREMENT

Precise Length Measurement: Star knob and linear sliding stop mechanism ensures profiles are cut to desired length with millimetric accuracy.

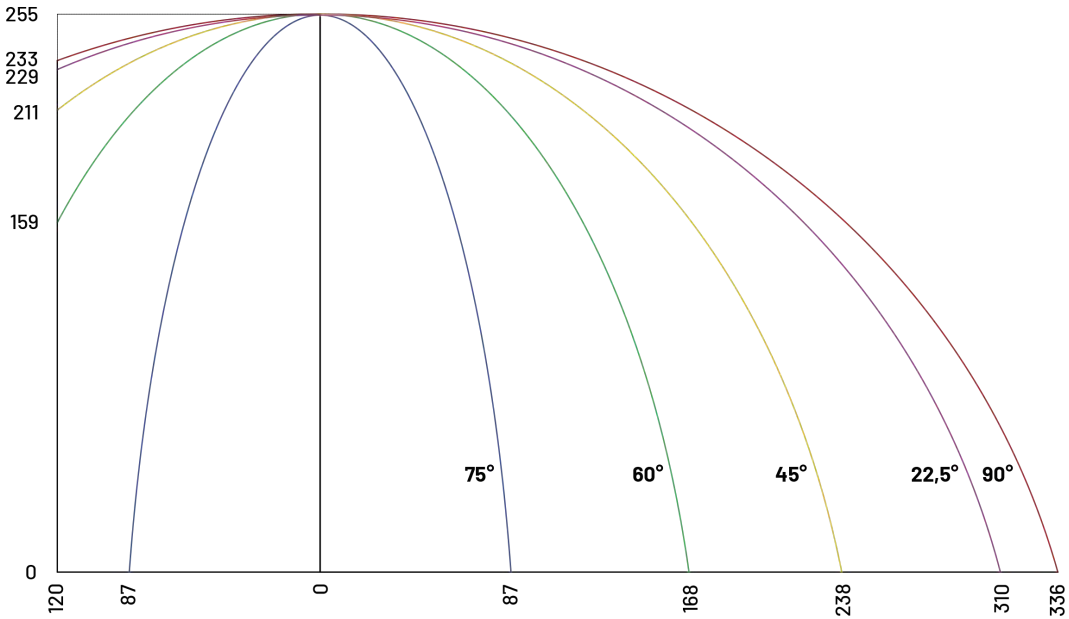
Scuff-Free Roller Transport: Rotating cylindrical rollers on the frame allow heavy and long profiles to slide smoothly without surface scratching.

Triple Guide Shafts: Parallel shafts in the stop block ensure perfect seating of profiles of different widths or angled cut ends.

Robust and Serial: Its rigid steel frame and foot-mount structure provides maximum measure repeatability without deflection in mass production.



CUTTING DIAGRAM



Technical Specifications

CUTTING UNIT

Motor Power	5.5 kW
Voltage	400 V
Supply Type	3 ph
Frequency	50/60 Hz
Saw	Ø 700
Air Consumption	120 Lt/min
Air Pressure	6-8 Bar
Saw Rotation Speed	2000 rpm
Saw Tooth Count	120
Saw Thickness	4 mm
Spring Stop Cutting Angles	75°, 60°, 45°, 30°, 22.5°, 15°, 0°
Precise Cutting Angles	-75° / +75°
Laser Marking	✓
Belt Drive	✓
Liquid Cooling	✓
Hydrocheck	✓
Vertical and Horizontal Vise	✓
Infeed Conveyor	3 m
Discharge Conveyor	3 m

MACHINE DIMENSIONS

Machine Height	1750 mm
Machine Length	1350 mm
Machine Width	7300 mm
Machine Weight	900 kg

PACKAGING DIMENSIONS - MACHINE

Machine Height	2000 mm
Machine Length	1400 mm
Machine Width	1300 mm

PACKAGING DIMENSIONS - CONVEYOR

Machine Height	300 mm
Machine Length	650 mm

Machine Width

3100 mm

SAFETY

Dual-Hand Operation	✓
Protection Covers	✓
Integrated Air Pressure Sensor	✓
Piston Lock System	✓
Current Protection (Leakage)	✓
Motor Protection (High Current)	✓
Phase Protection (Motor Direction Change)	✓
Emergency Stop	✓



iNTEL MAKİNA
INDUSTRY AND TRADING CORP.

Kayapa Organized Industrial Zone, Mavi St. No:45/45 Nilüfer,
BURSA/TURKIYE

+90 (224) 504 30 32 | info@intelmakina.com

www.intelmakina.com