



LEADCNC

Product Information

Serial No: 1

Name: Laser-Equipped Cutting and Milling Machining Center

for larger Profile

Model: UX380



Ultra X380 – A high performance Cutting and Milling Machining Center for larger profile.

Designed for Milling, Drilling, Cutting, and Laser Machining operations on the heads and ends of aluminum and light alloy larger profiles.

Automatic Loading and Feeding System:

Linear Direct Drive Motor Technology.

Multi-Functional Machining Modules:

Milling Module:

The 4-axis CNC milling module is equipped with four electric spindles, allowing simultaneous machining on multiple surfaces of the profile without requiring reorientation. This greatly enhances efficiency and precision.

Cutting Module:

The primary cutting module includes a 550 mm diameter saw blade with 5-axis CNC-controlled movement capable of multi-angle cutting. The cutting module can operate in synchronization with the milling module, enabling simultaneous cutting and machining for maximum productivity.



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End Milling Function :

A modular horizontal cutting and end milling unit can be added based on customer needs. This module includes a single-head cutting unit with CNC-controlled horizontal feed, a 350 mm saw blade, and a $\pm 90^\circ$ cutting range. All cutting angles are fully automated and managed by a 3-axis CNC system. The horizontal feed allows processing larger profiles and performing specialized cuts.

Automatic Unloading System:

The Ultra X380 includes an automatic unloading mechanism that transfers finished profile segments from the cutting unit to the unloading magazine. The transverse belt magazine supports profiles up to 4,000 mm in length (customized for longer profiles).

Fully Enclosed Central Cabinet:

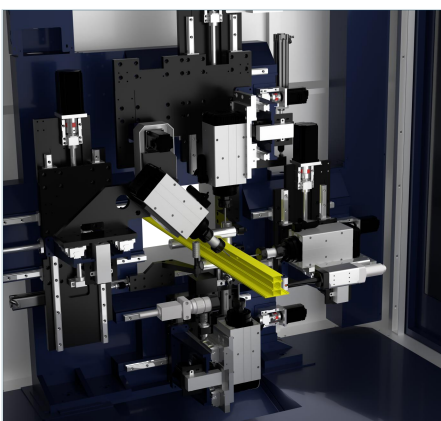
All working units are enclosed within the central cabinet, ensuring high standards of soundproofing and comprehensive operator safety.

Automatic Labeling:

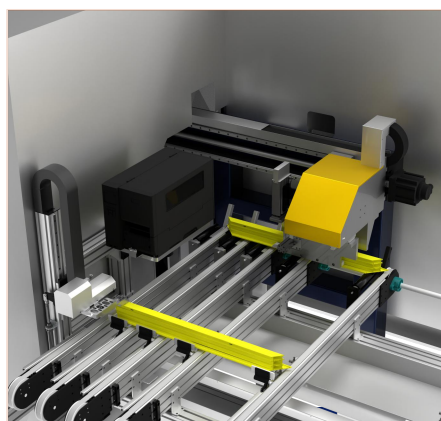
Equipped with a servo motor-driven automatic labeling system, Ultra X380 minimizes manual intervention and maximizes operational efficiency.

Smart Integration and High Efficiency:

The Ultra X380 enables the simultaneous operation of its four spindles and cutting processes, drastically reducing machining time. The integration of laser and mechanical machining modules achieves levels of speed and precision unattainable by traditional equipment.



FOUR ELECTRIC SPINDLES



AUTO LABELING DEVICE



CUTTING UNIT



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Machining Specifications	Parameter Value
Max. Profile Cross-Section	W*H = 385 × 200 mm
Min. Profile Cross-Section (depending on gripper position)	W*H = 30 × 20 mm
Raw profile length	L=600 – 7,000 mm
Finished part length	L=350 – 7,000mm
Feed Magazine	Parameter Value
Number of swing arms	4
Mounting positions	profile cross-section <250mm: 5 PCS profile cross-section <380mm: 3 PCS
Infeed	Parameter Value
Drive	Linear
Motorized gripper adjustment	Y/Z
Gripper rotation	Standard
Residual piece measurement	Optional
Residual piece processing	Fully automatic
Machining Station	Parameter Value
Axes	31
Router spindles	4 (servo-assisted)

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Saw	Parameter Value
Axes	5
Saw blades (diameter)	550mm*1 4kW*1
Sawing angles	40° - 140°、 5-axis multidimensional angle
Notching	Saw diameter 350mm*1
Outfeed clamping carriages	Parameter Value
Axis	1
Cycle operation(short parts)Laser	Optional
Outfeed conveyor	Parameter Value
Lifting station	YES
Outfeed conveyor width	4,000 mm (can be extended)
General Parameters	Parameter Value
Power supply	400V/50Hz
Power	39kW
Pressure	0.5-0.8Mpa
Gas consumption	300L/min
Weight	11, 900KG
Overall dimensions	21,000×5,500×2,800mm (Including workbenches on both sides)

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CUTTING DIAGRAM

Diagram direction sawing

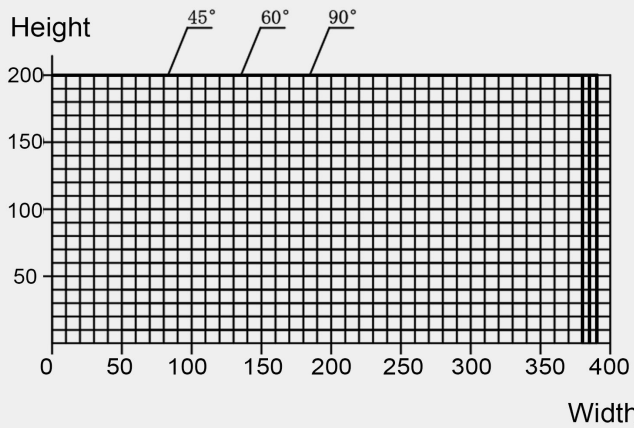
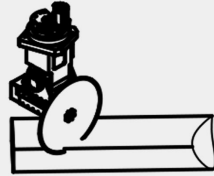
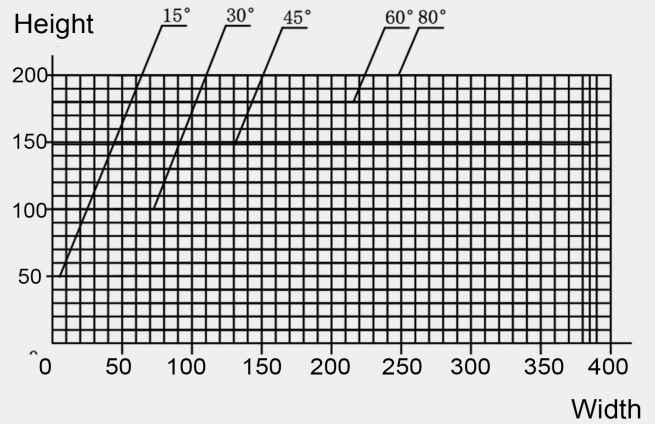


Diagram direction sawing



Upper saw blade

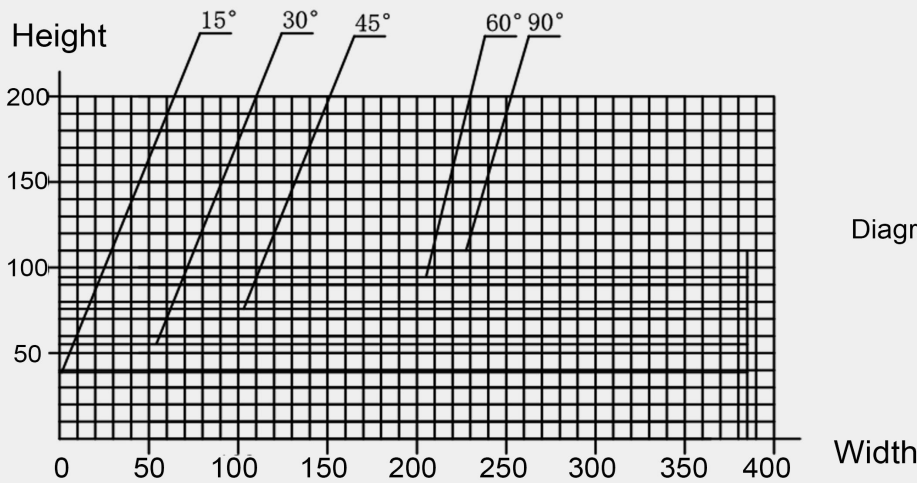
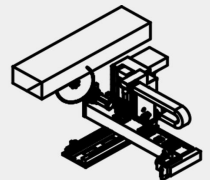


Diagram direction sawing



Lower saw blade

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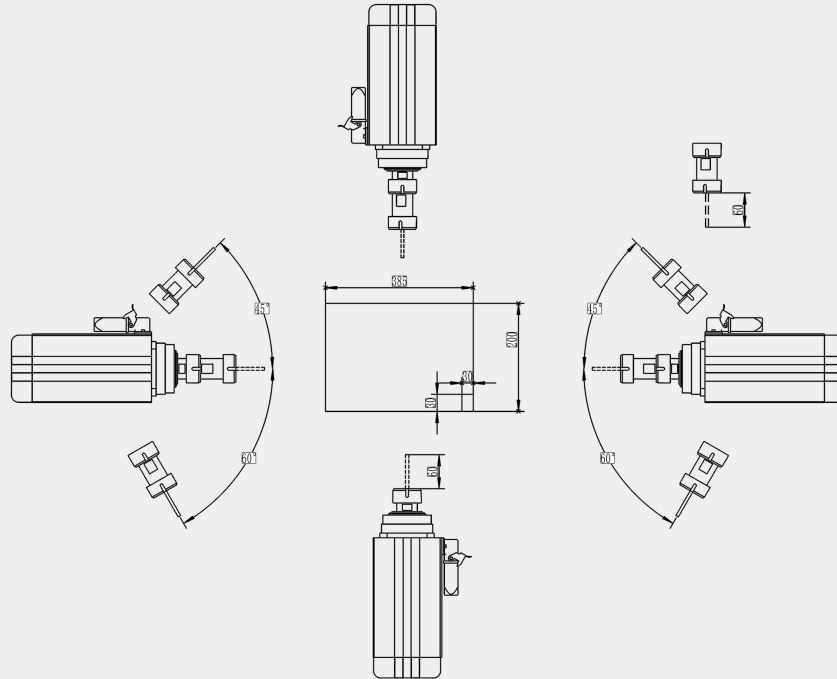
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MACHINING AREA OF THE MILLING UNIT



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