



LEADCNC

## Product Information

Serial No: 1

Name: Five-Axis Sawing and Milling Machining Center

Model: Ultra X380



### Ultra X380 Intelligent Five-Axis Sawing and Milling Machining Center for Curtain Wall

**Milling, Drilling, Sawing and End Milling Machining Center for Aluminium Curtain Wall Profiles**

*Ultra X380 – A high-performance cutting and milling center for large aluminum and light alloy profiles of curtain wall, designed for milling, drilling, and cutting heads and ends*

**Applicable To:** Stick Curtain Wall System, Unitized Curtain Wall System, Semi-Unitized Curtain Wall System, Aluminum Glass Facade. This machine can process profiles with a maximum width of up to 380mm.

**Main Feature:**



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**Magnetic levitation automatic feeding:** Feeds up to 3 profiles at a time. Raw material length: 1,000–7,000mm; processing length: 400–7,000mm; height: 30–200mm; width: 30–380mm. Larger processing range, ideal for curtain wall profiles.

**Milling spindle linkage:** Equipped with 6 electro-spindles: 2 large (13.5KW) and 2 small (6.7KW) spindles on top/bottom, plus 2 front/rear spindles (6.7KW) with 90° rotation. Spindles work in sync.

**5-axis sawing:** 600mm saw blade, 7.5KW motor. 5-axis CNC enables multi-angle cutting and synchronized milling.

**4-axis horizontal end milling:** 400mm saw blade, 3KW motor. 4-axis CNC for precise profile end milling.

**Automatic unloading:** Automatic unloading transfers finished profiles to the unloading area. Cross conveyor supports profiles up to 7000mm (custom lengths available).

**Enclosed protection:** All processing units are fully enclosed in sheet metal for noise reduction and safe operation.

**Automatic labeling:** Servo-driven automatic labeling system reduces manual work and maximizes efficiency.



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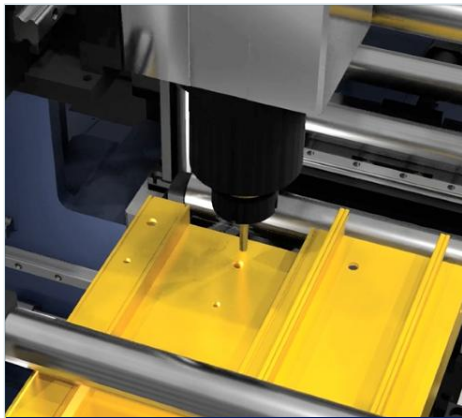
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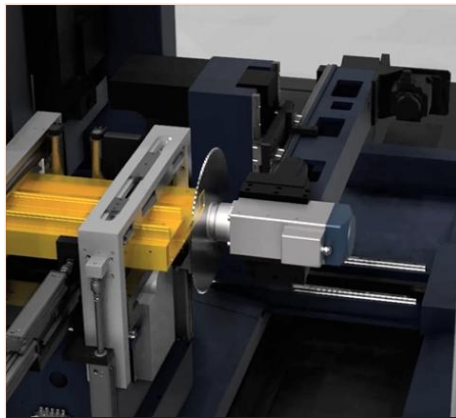
## Product Information

**CNC control:** Advanced CNC system ensures stable, precise multi-axis machining, improving efficiency and quality.

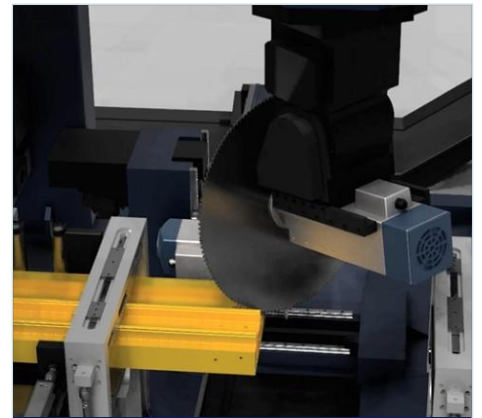
**Smart connectivity:** Seamlessly connects with ERP for real-time production planning, material management, and order tracking — enabling smart, flexible manufacturing.



Electric Spindles



End milling



Cutting Unit

Machining Specifications	Parameter Value
Raw Profiles Placed	3 PCS
Raw Profile length	1,000–7,000 mm
Processing Lenth	400-7,000mm
Processing Width	30-380mm
Processing Height	30-200mm



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## Product Specification

Infeed	Parameter Value
Drive	Linear
Motorized gripper adjustment	Y/Z
Gripper rotation	Standard
Residual piece measurement	Optional
Residual piece processing	Fully automatic
Milling unit	Parameter Value
Number of Spindle	6 (servo-assisted)
Upper Spindle	1*13.5KW 1*6.7KW
Lower Spindle	1*13.5KW 1*6.7KW
Front Spindle	6.7KW $\pm 90^\circ$
Rear Spindle	6.7KW $\pm 90^\circ$
Spindle speed	18000r/min
Tool	$\phi 5$ 、 $\phi 8$ (12 total)
Sawing unit	Parameter Value
Saw Blade	1*600mm 7.5KW
Rotation Angle	Any angle
Axis	5
Accuracy	$\pm 0.1\text{mm}$
Spindle speed	variable frequency

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End Milling Unit	Parameter Value
Saw Blade	1*400mm 3KW
Axis	4
Rotation Angle	±90°
Accuracy	±0.1 mm

Outfeed clamping carriages	Parameter Value
Axis	1
Cycle operation(short parts)Laser	Optional

Outfeed conveyor	Parameter Value
Lifting station	YES
Outfeed conveyor width	7,000 mm

General Parameters	Parameter Value
Power supply	380V/50Hz
Power	56KW
Pressure	0.5-0.8Mpa
Gas consumption	300L/min
Weight	16,000KG
Overall dimensions	20,500×5,500×3,340mm (including workbenches on both sides)

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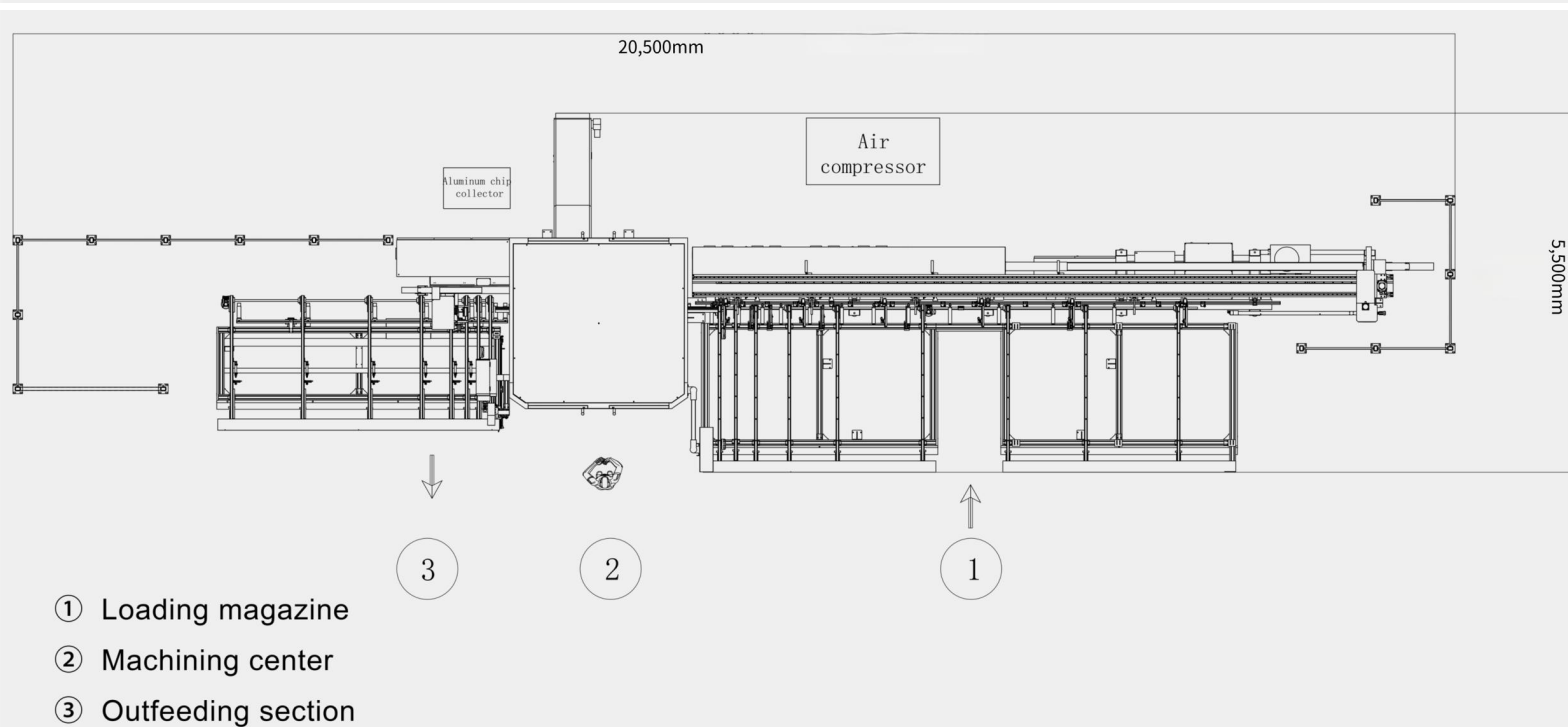
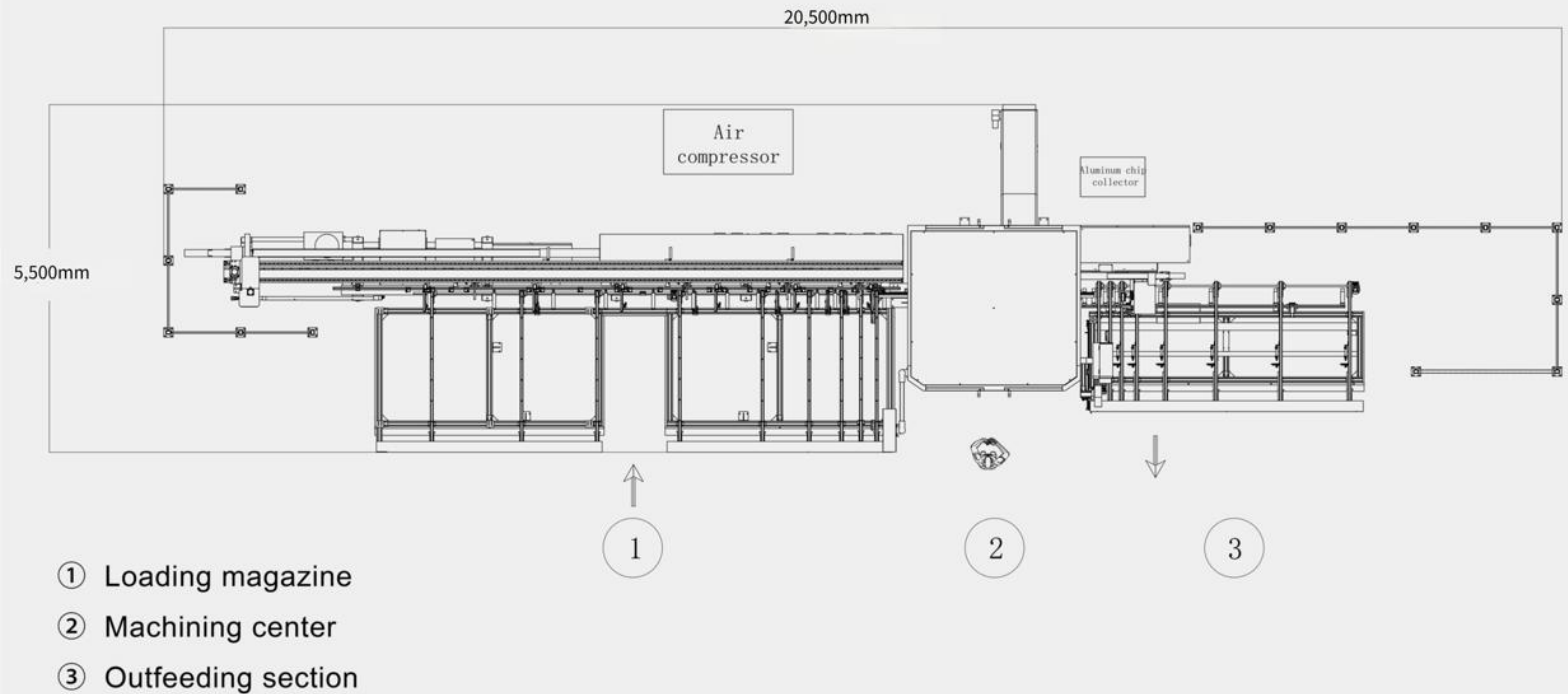
Serial No: 6

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# Product Specification

## LAYOUT



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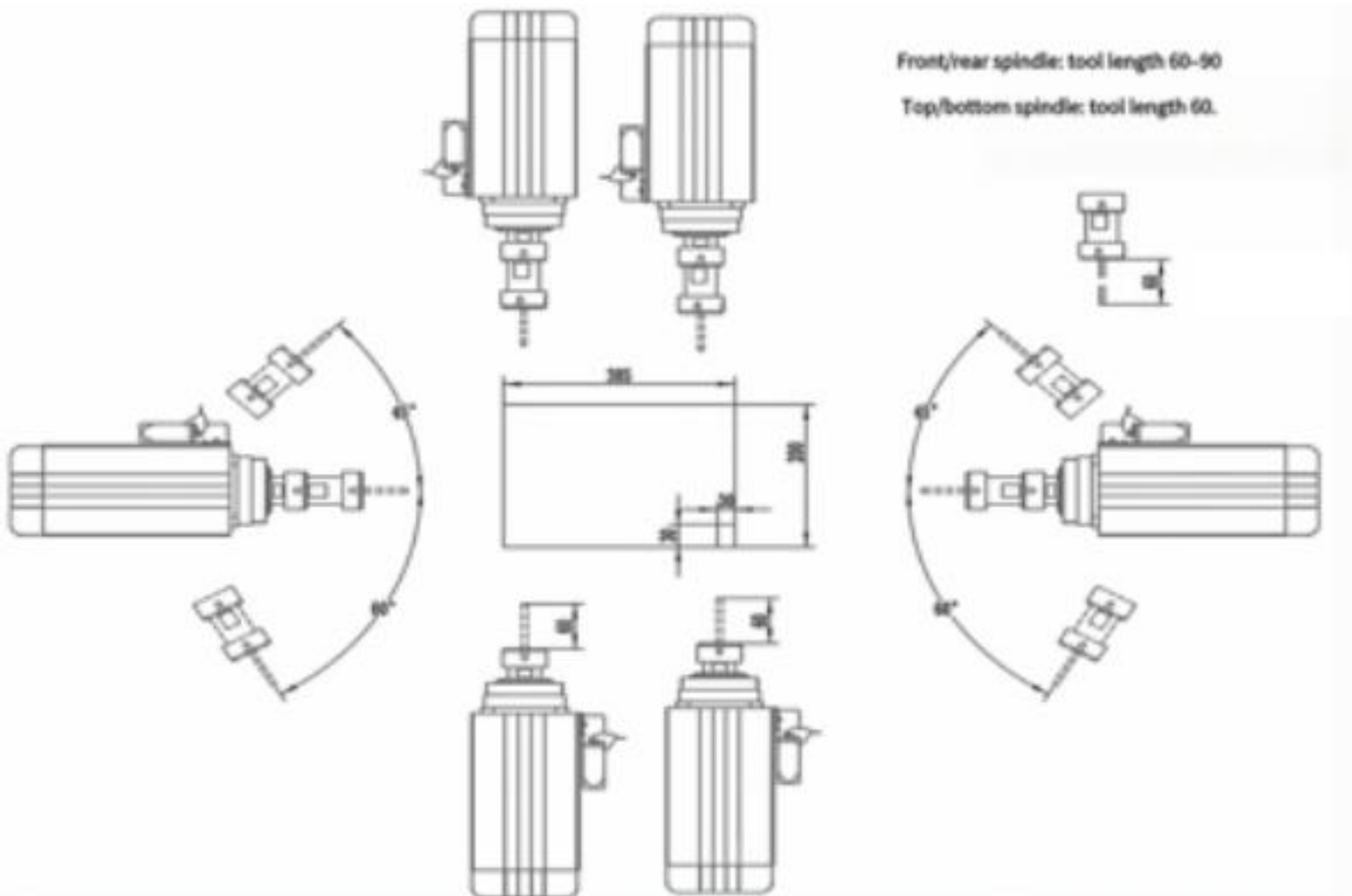
Serial No: 7

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## Product Specification

### Milling unit diagram



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# Product Specification

## Sawing unit diagram

Diagram direction sawing

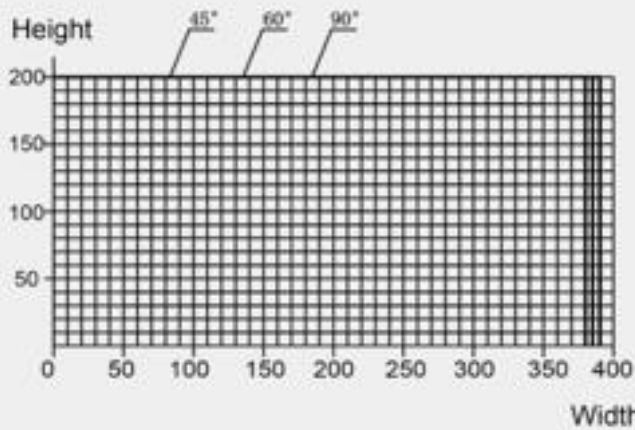
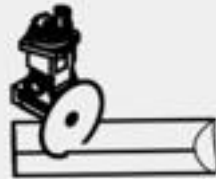
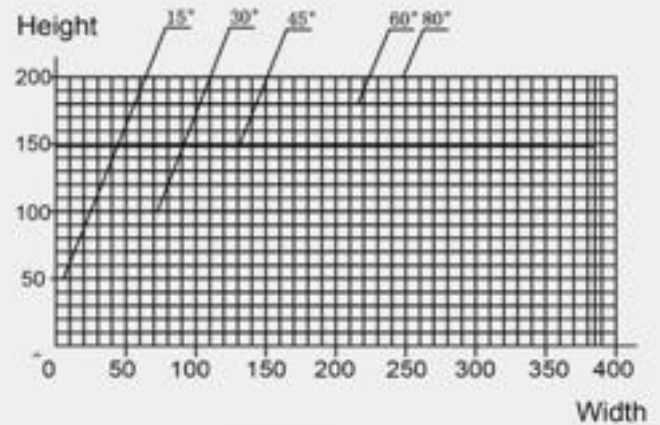


Diagram direction sawing



Upper saw blade

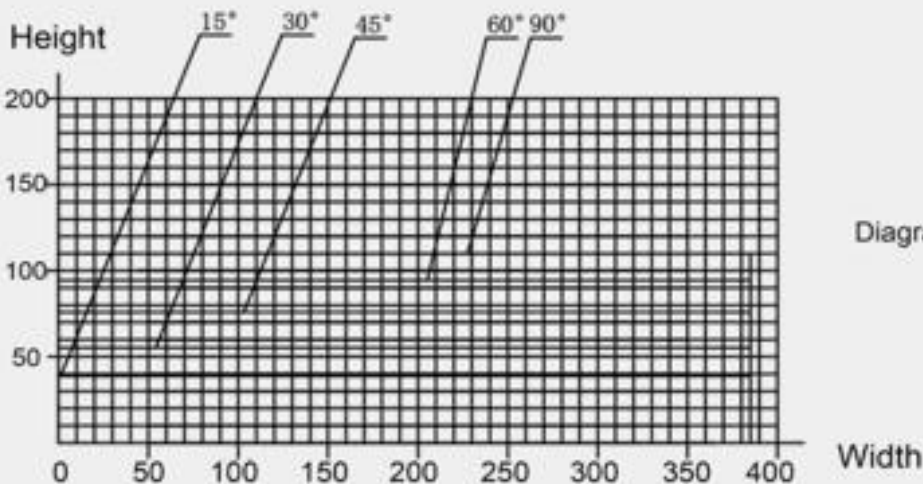
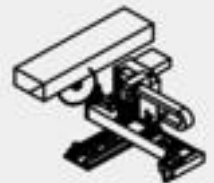


Diagram direction sawing



Lower saw blade

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