**Name:** Laser-Equipped Cutting and Milling Machining Center

**Model:** UX260

## FEATURES

**UX260 – A high performance Laser-Equipped Cutting and Milling Machining Center.**

Designed for Milling, Drilling, Cutting, and Laser Machining operations on the heads and ends of aluminum and light alloy 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 600 mm diameter saw blade with three-axis CNC-controlled downward movement. The cutting module can operate in synchronization with the milling module, enabling simultaneous cutting and machining for maximum productivity.

**Laser Machining:**

The Ultra X260 features two high-precision laser units, designed for marking and assisting in milling operations, substantially increasing processing speed.

## FEATURES

**End Milling Function (Optional):**

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 ±90° 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 X260 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:**

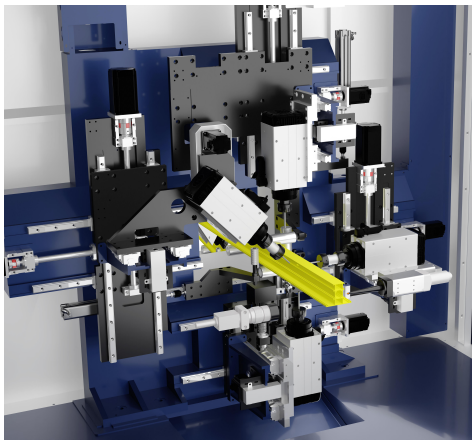
All working units are enclosed within the central cabinet, ensuring high standards of soundproofing and comprehensive operator safety.

**Automatic Labeling:**

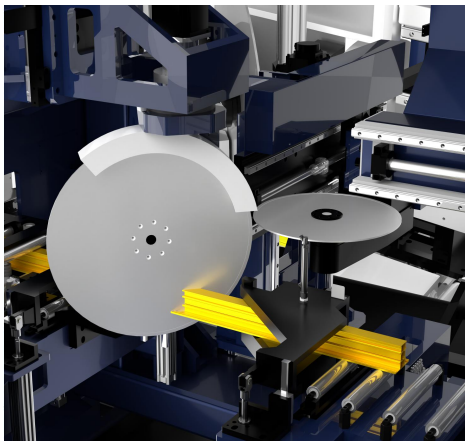
Equipped with a servo motor-driven automatic labeling system,Ultra X260 minimizes manual intervention and maximizes operational efficiency.

**Smart Integration and High Efficiency:**

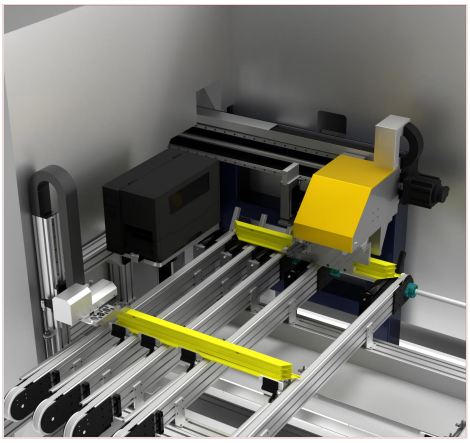
The Ultra X260 enables the simultaneous operation of its four spindles and cutting processes, drastically reducing machining time. The integration of laser and mechanical machining modules achieves levels of speed and precision unattainable by traditional equipment.



FOUR ELECTRIC SPINDLES



CUTTING UNIT



AUTO LABELING DEVICE

## PRODUCT SPECIFICATIONS

| Machining Parameters | Parameter Value |
|---|---|
| Max. Profile Cross-Section | W*H = 260 × 190 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=300 – 7,000mm |

| Feed Magazine | Parameter Value |
|---|---|
| Number of swing arms | 4 |
| Max loading capacity per time | 6 |

| Infeed | Parameter Value |
|---|---|
| Drive | Linear motors |
| Motorized gripper adjustment | Y/Z |
| Gripper rotation | Standard |
| Residual piece measurement | Optional |
| Residual piece processing | Fully automatic |

## PRODUCT SPECIFICATIONS

| Machining Station | Parameter Value |
|---|---|
| Axes | 5 |
| Router spindles | 4 (servo-assisted) |
| Laser | 2 (1.5kW cutting and 0.03kW engraving) |

| Saw | Parameter Value |
|---|---|
| Axes | 3 |
| Saw blades (diameter) | 1*600mm |
| Sawing angles | 40°- 140° |
| Notching | Optional |

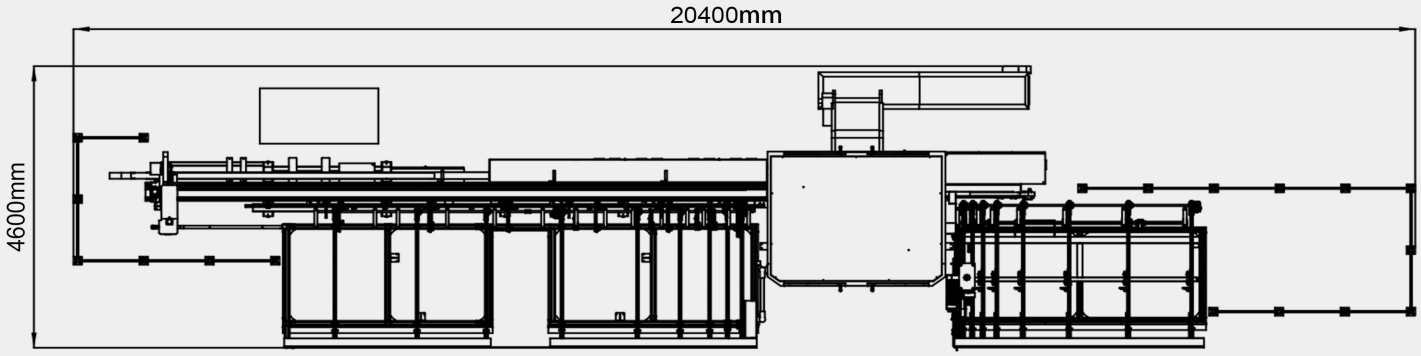
| Outfeed clamping carriages | Parameter Value |
|---|---|
| Axis | 1 |
| Cycle operation(short parts)Laser | Optional |
| Gripper rotation | Standard |

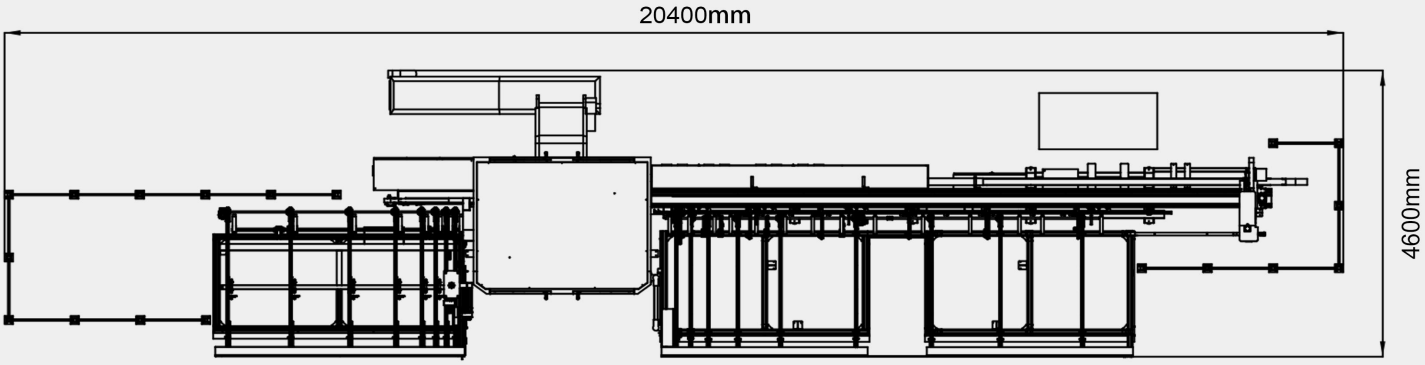
| Outfeed conveyor | Parameter Value |
|---|---|
| Lifting station | YES |
| Outfeed conveyor width | 4,000 mm (can be extended) |

## PRODUCT SPECIFICATIONS

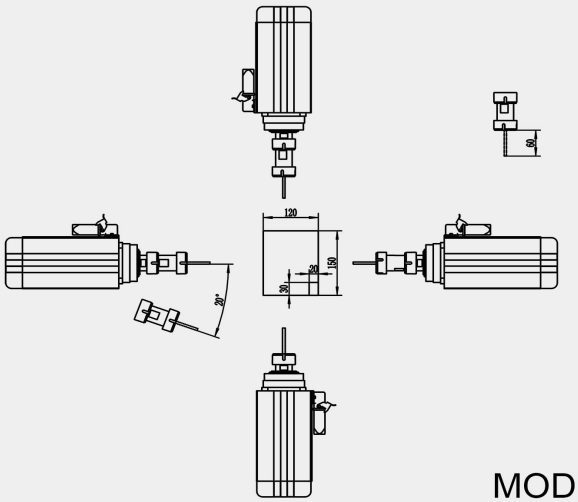
| General Parameters | Parameter Value |
|---|---|
| Power supply | 380V/50Hz |
| Rated Power /Power | 22kW |
| Pressure | 0.5-0.8Mpa |
| Air consumption | 300L/min |
| Weight | 81,00KG |
| Overall dimensions | 20,000×5,500×2,500mm<br>(including workbenches on both sides) |

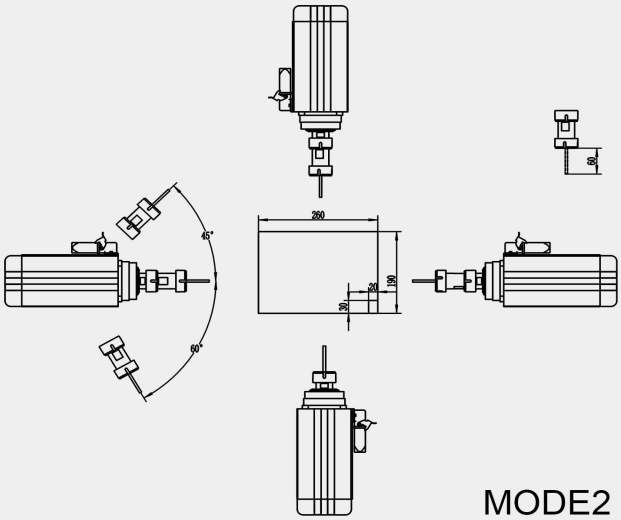
## LAYOUT



## MACHINING AREA OF THE MILLING UNIT




## CUTTING DIAGRAM