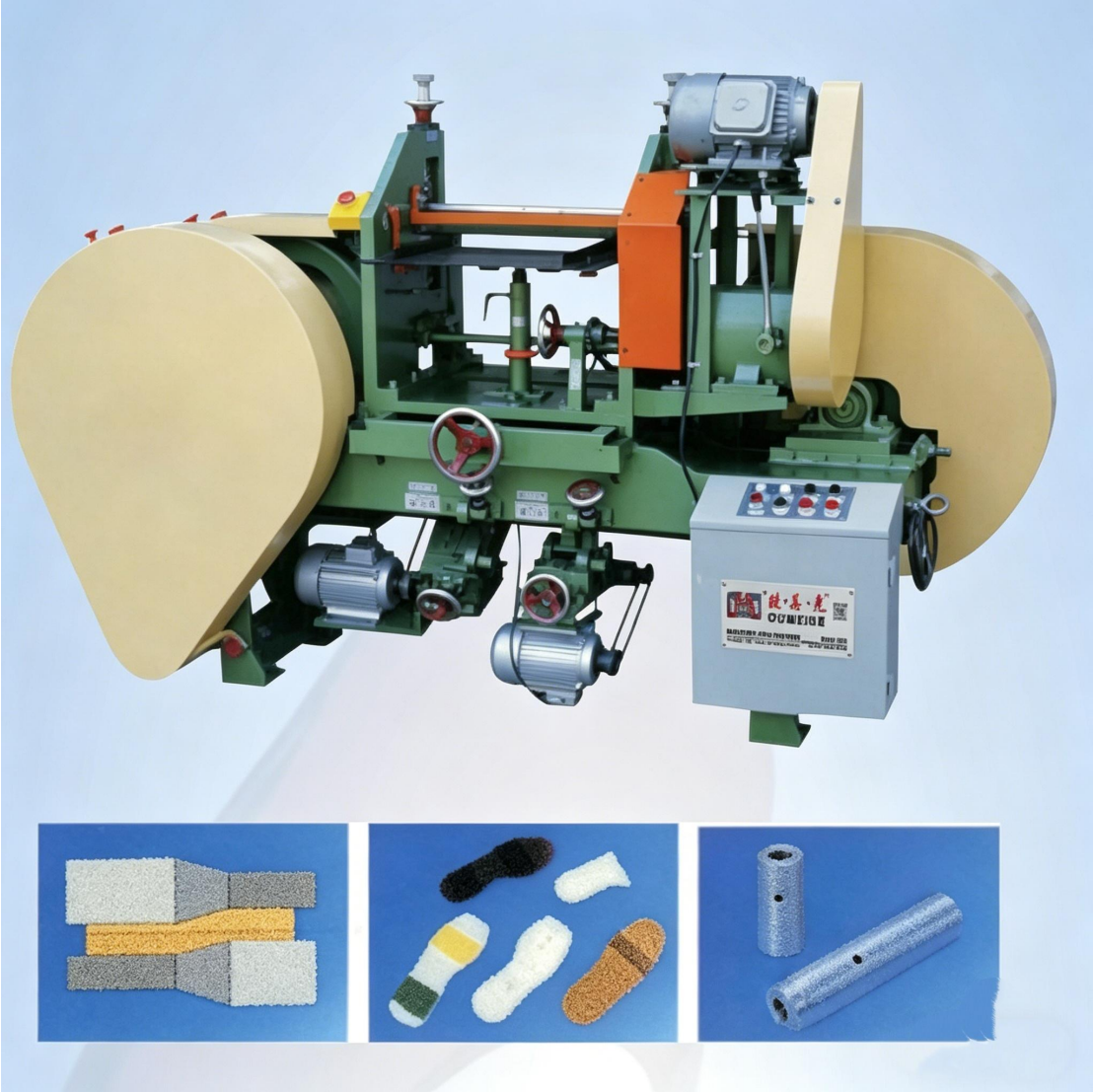
OMC-2251

（Auto Sole Slope Cutting Machine）



OMC-2251 Automatic Sole Slope Cutting Machine

1. This machine is suitable for cutting the cambered or sloped surfaces of the front and rear ends of sole materials, as well as cutting sloped surfaces on shoe half-vamps, to facilitate bonding with other shoe materials.

2. This machine performs cutting operations on various sloped or cambered surfaces using a forming mold cutting method.

3. The cutting shape of sloped or cambered surfaces can be changed by using different aluminum forming molds.

Technical Specifications

| Item | Parameters | Model | OMC-2251 |

| Maximum processing width | 400mm |

| Processing thickness range | 2-50mm |

| Main motor power | 7.5HP (5.5kW) |

| Feeding motor power | 1HP (0.75kW) |

| Knife sharpening motor power | 1/4HP (0.18kW) |

| Dust collection motor power | 1HP (0.75kW) |

| Rated voltage | 380V three-phase 50Hz |

| Overall machine dimensions | 2720×840×1370mm |

| Packaging dimensions | 2750×950×1450mm |

| Net weight | 1800kg |

| Gross weight | 2000kg |

| Applicable materials |

EVA, rubber, foam cotton, leather, latex, PU and other shoe materials / insoles / shoe soles |

| Cutting accuracy | ±0.1mm |

| Feeding speed | 0-12m/min (adjustable) |

Instruction Manual (Core Content)

1. Equipment Application

This machine is a special automatic sole slope cutting equipment designed exclusively for footwear production. It is suitable for automatic slope / cambered surface cutting of shoe soles, insoles, EVA foam materials, thermal insulation materials, etc. By replacing different aluminum molds, it can achieve precise cutting of various shapes and slopes at the front and rear ends of soles, heel cambers, half-arch positions, etc. The cut surface is smooth and can be directly bonded to other sole materials, greatly improving shoemaking efficiency and process precision.

2. Technical Features

- Adopts a band knife cutting structure with stable feeding and high cutting accuracy; slope angle is flexibly adjustable (0-90° adjustable)

- Equipped with an automatic knife sharpening system to extend tool service life and ensure long-term cutting stability

- Independent dust collection device effectively collects cutting dust and improves the workshop working environment

- Centralized control panel + multiple sets of adjustment handwheels for convenient parameter setting and easy operation for beginners

- Compatible with various shoe materials, meeting processing requirements for different materials such as EVA, rubber, leather, PU, etc.

- Enables mass continuous processing, significantly reducing labor costs and improving production efficiency

3. Operating Procedures

Pre-start Preparation

Check that the power supply and grounding are normal, and clean up debris on the workbench and feed inlet.

Inspect tool wear, install the corresponding processing aluminum mold, and tighten the mold screws.

Verify that all handwheels, motors and transmission components are in normal condition and well lubricated.

Parameter Adjustment

Adjust cutting thickness, slope angle and feeding speed via handwheels.

Use waste materials for test cutting to confirm the cutting effect meets process requirements, then lock the parameters.

Startup and Operation

Start the main motor, feeding motor and dust collection motor in sequence.

Place the materials to be processed smoothly into the feed inlet, and the equipment will automatically complete cutting and discharging.

Do not put hands into the cutting area or adjust parameters illegally during processing.

Shutdown and Finalization

After processing is completed, turn off the feeding motor first, then the main motor and dust collection motor.

Clean the workbench, tools and dust collection system, and remove residual waste.

Turn off the main power supply and perform routine equipment maintenance.

4. Maintenance

- Daily maintenance: Clean the equipment surface, workbench, tools and dust collection pipes; check the operating status of all motors and the tightness of handwheels.

- Weekly maintenance: Lubricate transmission gears, bearings and guide rails; check belt tension and tighten fuselage screws.

- Monthly maintenance: Inspect tool wear and replace severely worn band knives; calibrate cutting accuracy; check circuit wiring.

- Long-term shutdown: Disconnect power, thoroughly clean the equipment, apply anti-rust oil to metal parts, and store in a dry and ventilated environment.

5. Safety Precautions

Operators must wear protective goggles and labor protection gloves; never put hands into the feed inlet or cutting area.

Do not open the protective door or dismantle safety devices illegally while the equipment is running.

Cut off the main power supply before maintenance, tool replacement or adjustment, which must be performed by professional personnel.

Regularly inspect the insulation performance of circuits and motors to avoid risks of electric leakage and overload.

Operation by non-professional personnel and illegal modification of the equipment structure are strictly prohibited.