

# Four-Side Moulder – UMX 509

NichoMachines Machinery



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## Description

Heavy-duty four-side moulder with cast iron machine frame, high-precision spindles and variable feed speed. Designed for stable production, superior surface finish and flexible spindle configuration.

- Cast iron machine body with vibration damping
- Variable feed speed 6–30 m/min
- 5 spindle standard configuration
- High precision spindles 7,200 rpm
- Automatic lubrication system
- Full safety enclosure (CE)
- Spiral cutterhead on first spindle

## Details

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### 1. Machine frame

- One-piece cast iron machine frame for maximum rigidity and vibration absorption. Heavy-duty construction ensures stable feeding and precise machining.
- One-piece cast iron construction
- High rigidity design
- Vibration dampening structure
- Industrial heavy-duty build



### 2. Feeding system

- Upper and lower feed drive system with cardan shaft transmission for smooth and stable feeding.
    - Upper and lower feed rollers
    - Cardan shaft drive (no chains)
    - Pneumatic pressure adjustment
    - 3-stage pressure setting
    - Variable feed speed
- Feed speed: 6 – 30 m/min



### 3. Spindle configuration

- Standard 5-spindle layout:
  1. Bottom horizontal spindle
  2. Right vertical spindle
  3. Left vertical spindle
  4. Top horizontal spindle
  5. Bottom horizontal spindle



- Spindles
  - Spindle diameter: 40 mm
  - Spindle speed: 7,200 rpm
  - Spiral cutterhead on 1st spindle
  - HSS cutterheads on remaining spindles

### ➤ 4. Working capacity

Working width

Min: 15 mm

Max: 230 mm

### ➤ Working thickness

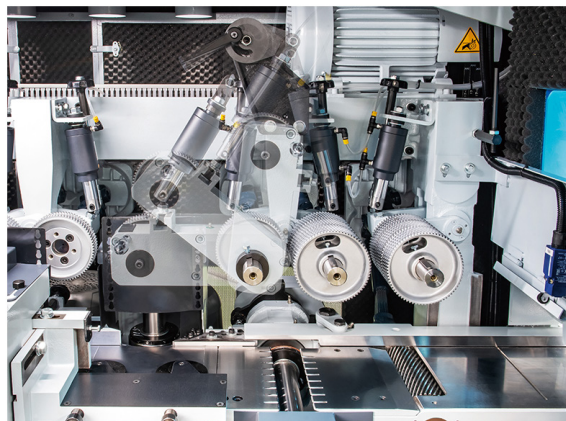
Min: 10 mm

Max: 150 mm

Workpiece length

Min. single piece: 800 mm

Min. continuous feed: 300 mm



### 5. Feed table

- Hard chrome plated table for long service life and low friction.
  - Hard chrome plated table surface
  - Automatic lubrication
  - Adjustable infeed table
  - Engraved reference scale



### 6. Pressure system

- Feed roller pressure system with pneumatic adjustment for stable workpiece control.
  - Upper pressure rollers
  - Lower feed rollers
  - Pneumatic pressure control
  - Adjustable pressure settings



### 7. Spindle unit

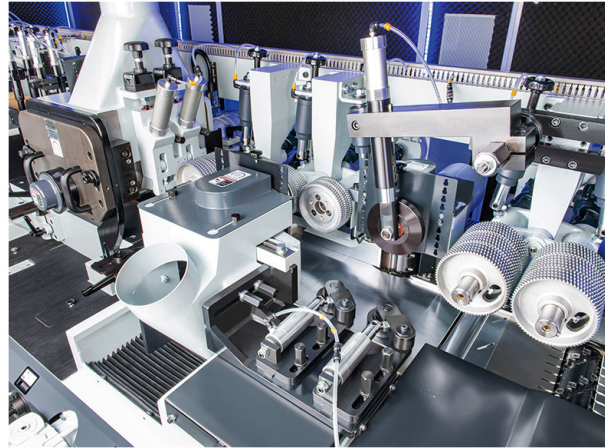
- High-precision spindles equipped with high-speed bearings for superior finish quality.
- Spindle data:
  - Spindle diameter: 40 mm
  - Spindle speed: 7,200 rpm
  - High-speed precision bearings
 Heavy-duty spindle design
- Cutting circle capacity:
  - Bottom spindle: 125 – 160 mm
  - Vertical spindles: 112 – 200 mm
  - Top spindle: 112 – 200 mm



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#### 8. Drive motors

- Feed motor
  - 5 HP inverter controlled
- Vertical adjustment motor
  - 3/4 HP
- Spindle motors
  - Up to 15 HP



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#### 9. Lubrication system

- Automatic pneumatic lubrication system for reduced maintenance.
  - Timer controlled lubrication
  - Automatic oil supply
  - Reduced maintenance requirements

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#### 10. Safety enclosure

- Fully enclosed machine housing for operator safety and noise reduction.
  - Full safety enclosure
  - Noise reduction design
  - Chip protection
  - CE compliant

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#### Standard equipment

- - Spiral cutterhead on first spindle
  - HSS cutterheads on remaining spindles
  - 2 meter infeed table
  - Tool kit
  - Documentation package
  - CE electrical components
  - Automatic lubrication system
  - Hard chrome plated feed table

## 12. Optional equipment (selection)

### ➤ Automation

- NC positioning system
- EasySet control
- SmartSet control
- Auto Width Set system
- ProSet panel PC

### ➤ Machine options

- Universal spindle
- Multiple rip saw unit
- Tilting spindles
- Pneumatic side pressure rollers

### ➤ Production options

- Chamfering units
  - Milling spindle
  - Router head
  - Additional pressure rollers
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Technical Data

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Working width: 15 – 230 mm

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Working thickness: 10 – 150 mm

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Feed speed: 6 – 30 m/min

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Spindle speed: 7,200 rpm

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Spindle diameter: 40 mm

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Min. workpiece length: 800 mm

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Min. continuous length 300 mm

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\*Thanks for the attention!

The company continuous to improve the product specifications and design details, the specifications are subject to change without notice. 250523