

Four-Side Moulder – UMX 609

NichoMachines Machinery



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Description

Heavy-duty six-spindle four-side moulder designed for high-capacity production and superior finish quality. The machine features a cast iron frame, precision spindles and variable feed speed for stable and accurate machining.

- Heavy-duty cast iron machine frame
- 6 spindle configuration
- Variable feed speed 6–30 m/min
- High precision spindles 7,200 rpm
- Automatic lubrication system
- Full safety enclosure
- Spiral cutterhead on first spindle
- Cardan shaft feed drive system

Details

1. Machine frame

- One-piece cast iron machine body providing maximum rigidity and vibration absorption for high precision machining.

- One-piece cast iron construction

- High rigidity design

- Vibration dampening design

- Industrial heavy-duty build



2. Feeding system

- Upper and lower feed rollers driven by universal joint transmission ensuring smooth feeding and high accuracy.
 - Upper and lower feed rollers
 - Cardan shaft drive system
 - Pneumatic pressure adjustment
 - 3-stage feed roller pressure
 - Infinitely variable feed speed
- Feed speed: 6 – 30 m/min



3. Spindle configuration

- Standard 6-spindle layout:
 1. Bottom horizontal spindle
 2. Right vertical spindle
 3. Left vertical spindle
 4. Top horizontal spindle
 5. Bottom horizontal spindle
 6. Top 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

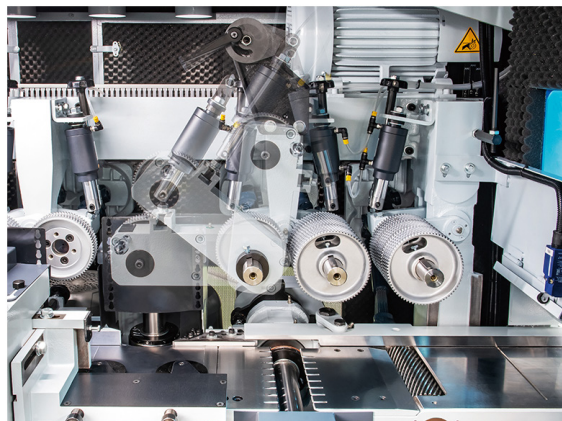
Min: 10 mm

Max: 150 mm

➤ Workpiece length

Min. single piece: 800 mm

Min. continuous feed: 300 mm



5. Feed table

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



6. Pressure system

- Pneumatic pressure system ensuring stable workpiece control.
 - Upper pressure rollers
 - Lower feed rollers
 - Pneumatic pressure compensation
 - Adjustable pressure settings



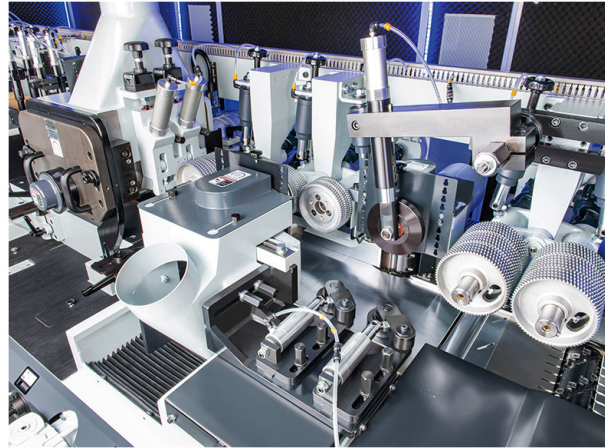
7. Spindle unit

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



8. Drive motors

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



9. Lubrication system

- Automatic pneumatic lubrication system for feeding table and key components.
 - Timer controlled lubrication
 - Automatic oil supply
 - Reduced maintenance

10. Safety enclosure

- Fully enclosed machine housing for safe and quiet operation.
 - Full safety enclosure
 - Noise reduction design
 - Chip protection
 - CE compliant

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
 - Pneumatic pressure system
 - Cardan shaft feed drive
-

12. Optional equipment (selection)

➤ Automation

- Auto Width Set system
- EasySet control
- SmartSet control
- NC positioning system
- PROSET control

➤ Machine options

- Universal spindle
- Multiple rip saw unit
- Tilting spindles
- Pneumatic pressure shoes
- Additional feed rollers

➤ Production options

- Chamfering units
 - Milling spindles
 - Router head
 - Multiple rip saw
 - Hydraulic outboard bearing
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Technical Data

Working width: 15 – 230 mm

Working thickness: 10 – 150 mm

Feed speed: 6 – 30 m/min

Spindle speed: 7,200 rpm

Spindle diameter: 40 mm

Min. workpiece length: 800 mm

Min. continuous length 300 mm

*Thanks for the attention!

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