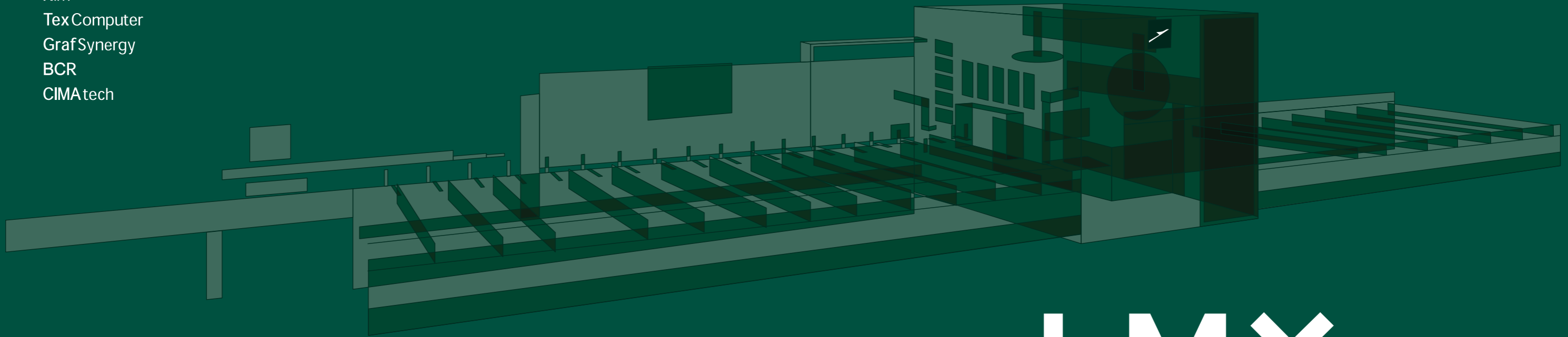




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# FomIndustrie



# LMX 650



Via Mercadante, 85 - 47841 Cattolica (RN) - Italia  
Tel +39.0541.832611 - Fax +39.0541.832615

[info@fomindustrie.com](mailto:info@fomindustrie.com)

[fomindustrie.com](http://fomindustrie.com)

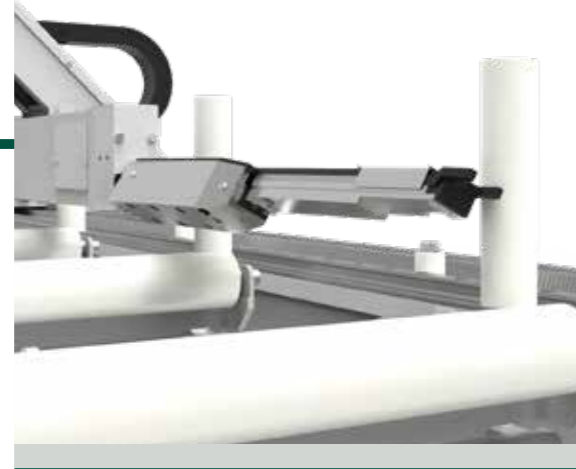


LMX 650 - 11/2021 - version 1.1

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# LMX 650

The processing unit tooled up with max 18 electrospindles and the cutting unit with infinite 360° blade rotation produce a continuous flow of processed and cut to measure elements. The additional machining module XMU carries out end milling (with blade, mill or mill units), boring and head tapping, as well as 45° and 135° inclined cuts, guaranteeing maximum flexibility for numerous applications. The high visibility cabin and the presence of the luminous FOM logo indicating the machine status are a feature of the system's futuristic design. 6 different variants are available, which can be configured in terms of length of material loading/unloading magazines and right or left material feed direction.



## GRIPPER

with automatic controlled positioning allows rapid and accurate adaptation of pick-up at variable angles.

## BAR FEEDER AND PROFILE PICKUP SYSTEM

consisting of an electrowelded steel beam that guarantees long-term rigidity and stability, can be equipped with **X PUSH** for loading of profile packs and solid profiles.



## SOUNDPROOF CABIN

with wide visibility and luminous Fom Logo indicating the machine status.

## 55" LCD SCREEN

to view the programs and the bars to be loaded.



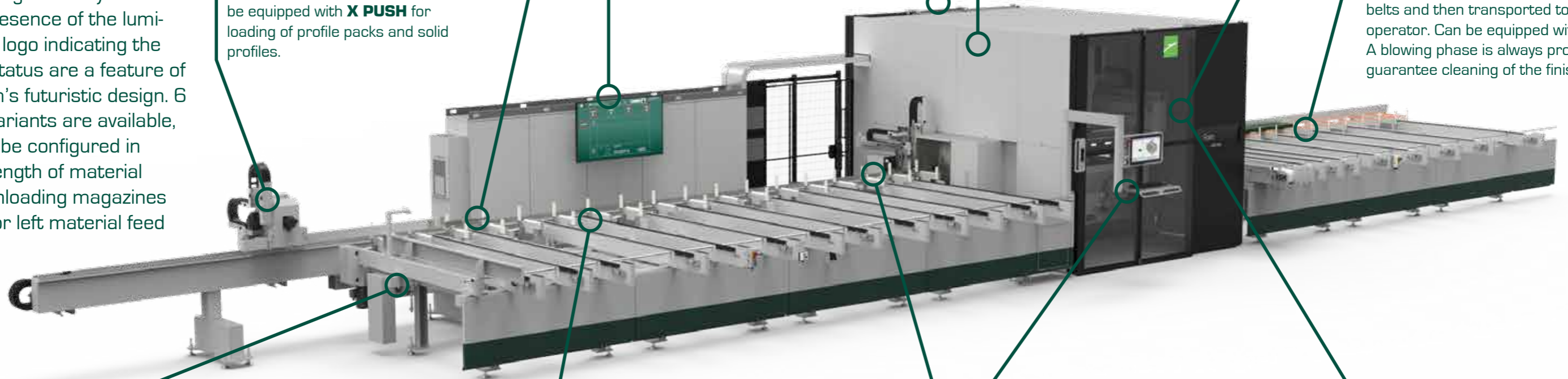
## MULTISPINDLE MACHINING UNIT

designed to carry out machining operations on all four sides of the profile. Tilting electrospindles are available with pneumatic or controlled drive rotation for oblique machining operations and electrospindles for rigid tapping. Designed to receive up to 18 HSK-C40 electrospindles.



**X MODULE** this is the downfeed cutting unit driven by 4 controlled axes (x,y,z and rotation A) and Ø650mm blade. Two groups of motorised vices are provided for proper alignment and pneumatic locking of incoming and outgoing profiles. The vice surfaces are equipped with blowers to clean away any chips.

**UNLOADING MAGAZINE** allows the finished pieces to be rapidly extracted, stored and compacted on motorised belts and then transported towards the operator. Can be equipped with **X PULL**. A blowing phase is always provided to guarantee cleaning of the finished piece.

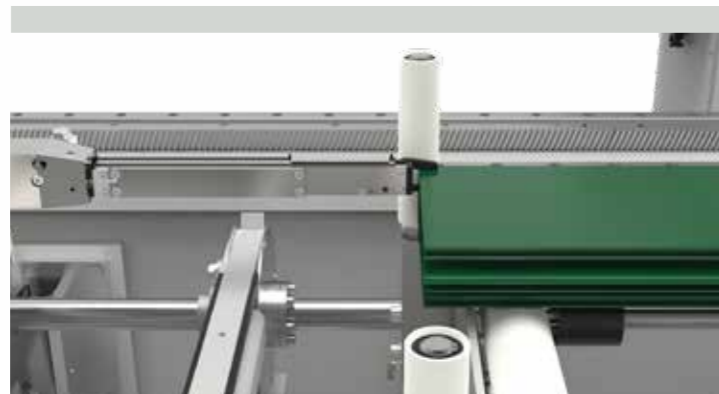


## LOADING MAGAZINE

carries out accumulation and horizontal transfer of the profiles. The profile is moved onto the bar feeder rollers by a controlled device.

## PROFILE FEED SYSTEM

consisting of horizontal rollers and vertical rollers in non-scratch material. For machining of profiles with highly complex and irregular geometries, the bar feeder can be supplied with an innovative controlled axis device to overturn and automatically support the profile.



## X LAB - AUTOMATIC PRINTER

applying labels to the moving bar. The label can be applied to the top or rear side.



## ADJUSTABLE CONTROL CONSOLE

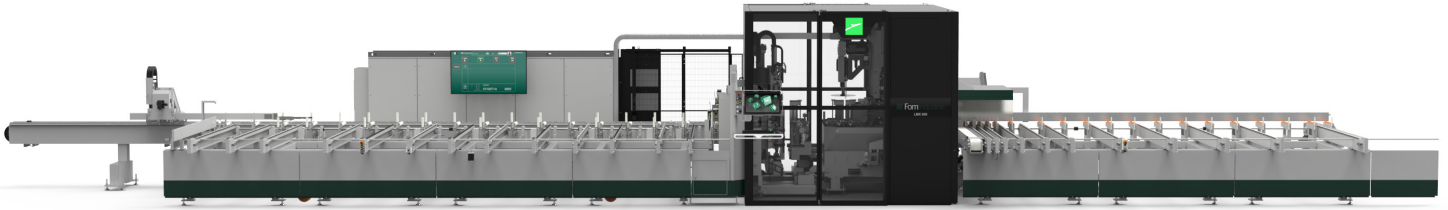
hooked to the guard cabin to run commands and programs.



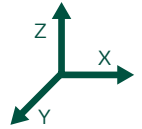
**XMU X Milling Unit** is the additional machining unit with 16kW electrospindle for milling, end milling and cutting with front blade feed.



# LMX 650



✓ = standard    ○ = optional



## TECHNICAL FEATURES

### LOADING MAGAZINE

- Minimum transportable profile length
- Maximum transportable profile length
- Loading capacity
- Independently lowered rollers for solid profiles

1000 mm

7500 mm

9 bars

○

### BAR FEEDER AND PROFILE PICK-UP SYSTEM

- Miniaturised gripper
- Automatic controlled positioning on 4 axes
- Maximum speed in rapid mode

✓

✓

125 m/min

### MULTISPINDLE MACHINING UNIT

- Max No. electrospindles housed
- Electrospindle power rating
- Tool coupling
- V axis travel (vertical)
- C axis travel (transversal)
- Maximum working capacity
- Minimum quantity lubrication (MQL) with pure oil
- Sensor for tool integrity control

18

3,3 kW at 18.000 rpm

HSK-C40

430 mm

800 mm

300 mm x 300 mm

✓

○

### AVAILABLE ELECTROSPINDLES

- 3.3 kW HSK-C40 tilting electrospindles with pneumatic or controlled drive rotation with positioning between 0° and 45°
- HSK-C40 4 kW/17,000 rpm synchronous electrospindles

### X-MODULE: CUTTING UNIT

- Tungsten carbide saw blade Ø 650
- Downward cut
- Drive with 4 controlled axes (x,y,z and rot. A)
- Cutting head with 360° infinite blade rotation
- Controlled vice unit both at infeed and outfeed
- Motorised and controlled gripper for extracting the piece
- Motor 7,5 kW

✓

✓

✓

✓

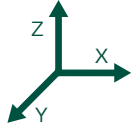
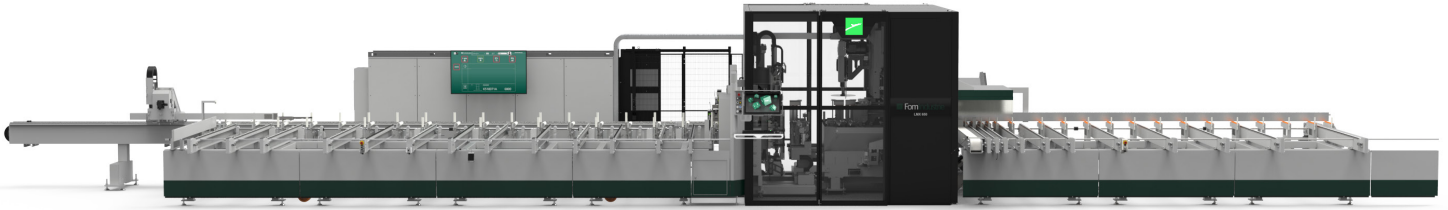
✓

✓

✓



# LMX 650



✓ = standard    ○ = optional

## TECHNICAL FEATURES

- Blade speed control by an inverter ✓
- Minimum quantity lubrication (MQL) with pure oil ✓

### XMU X Milling Unit [○]

- Electrospindle 16kW HSK63E
- Automatic tool change ○
- 3 location tool magazine ○
- C axis for XMU electrospindle unit ○
- 90° angular head ○
- 45° angular head (Ø 300 mm blade excluded) ○
- End-milling cutter set (to drawing) ○

### UNLOADING MAGAZINE

- Minimum unloadable bar length 40 mm
- Maximum unloadable bar length (according to the version) 2500 mm, 4500 mm or 7000 mm
- Profile compacting function ✓
- Useful storage depth 2500 mm
- Complete storage unit and profile presence detection by photocell ✓
- Profile anti-drop safety device by safety micro ✓

### SYSTEM OPTIONALS

- Supports for instable profiles with controlled positioning in Y and Z ○
- Overturning units ○
- X LAB label printer with automatic application ○
- 55" LCD display ○

### CONTROL AND SOFTWARE

- FST LINE 4.0 version ✓
- 23" display ✓
- Luminous FOM Logo indicating machine status ✓
- Lola Ready ✓