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# FomIndustrie

# EMC

475.445

FMC 475 . 445 - 02 / 2025 - version 1.1



## FomIndustrie

Aluminium Working Machinery

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The specifications and illustrations in this catalogue are only guideline, FomIndustrie therefore reserves the right to make any modifications it deems necessary for technical or commercial reasons at any time and without prior notification.



# FMC 475 . 445

Fully-automated 5-axis interpolated work centre for 5-sided machining of 300 x 270 mm section aluminium profiles and steel tubing up to 3 mm thick. A 7 kW [11kW optional] liquid-cooled electrospindle enables the production of customised cut, machined and end milled parts.

## OVERALL VIEW

For easy control of the work area, the console can be swivelled and is equipped with a practical push-button panel. 24" display.

**LOLA**, our cloud based platform viewable from PC or mobile phone allows monitoring of machine status, machining statistics, state of machine components, scheduled and predictive maintenance. Additionally, upon request, it is possible to receive information regarding energy consumption.

INDUSTRY 4.0



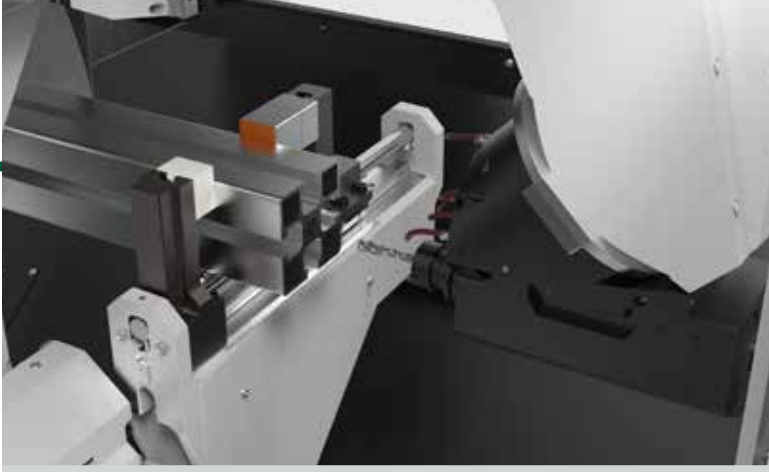
## WORK AREA CONFIGURATIONS

It is always possible to machine up to 2 profiles in a single working area mode or, as an additional option for the FMC 445 and included as standard for the FMC 475, to machine up to 4 profiles in single working area or pendular mode.



## HEAD-MOUNTED TOOL MAGAZINE

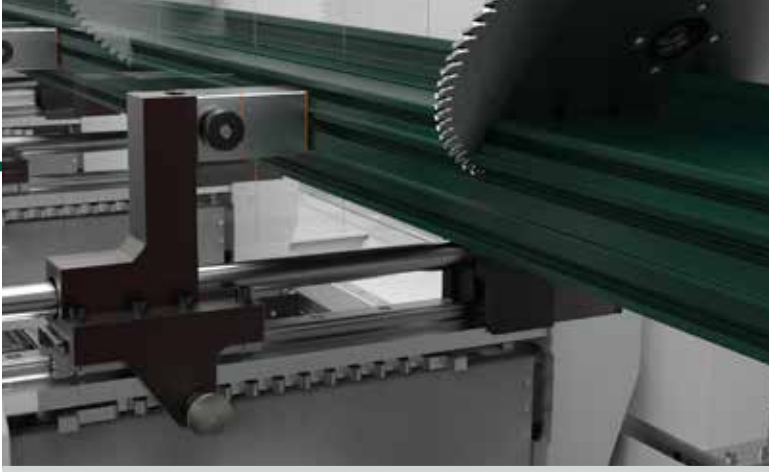
Allows up to 12 tools to be loaded. For real-time control and precise machining, the tool length measurement and integrity check device is fitted as standard. **Dedicated blade magazine** Ø300mm positioned at head edge.



## 5-SIDED PROFILE MACHINING with direct tooling.

## X-AXIS BEAM CARRIAGE

It travels on linear guides driven by brushless motors with speeds of up to 100 m/min.



## CUT AND SEPARATE

When a bar is to be loaded and different cut and machined profiles are required, the operator can activate the 'cut and separate' mode which integrates the cutting phase and the machining phase [available upon request on FMC 475].

## VISIBILITY OF THE MACHINING AREA

Ergonomic design provides ample visibility while working. The luminous **FOM Industrie LOGO** indicating the machine status is integrated in the guard system.

## CLEANING OF THE WORKING ENVIRONMENT

Optimised base conformation for chip and swarf collection. The **chip conveyor** [as standard on the FMC 475] features a robust metal structure and a 700 mm ramp, providing a large containment volume.

## OVERSIZED MACHINING

There are two pneumatically reclining fixed position stops on the left and right sides. The presence of two stops also allows the two-stage machining of profiles longer than the stroke of the CNC.

## X PAL

Multifunctional LED bar assists the operator in operating the machine and loading the bars. During machining, the brightness of the LED signals the progress of the cycle working cycle.

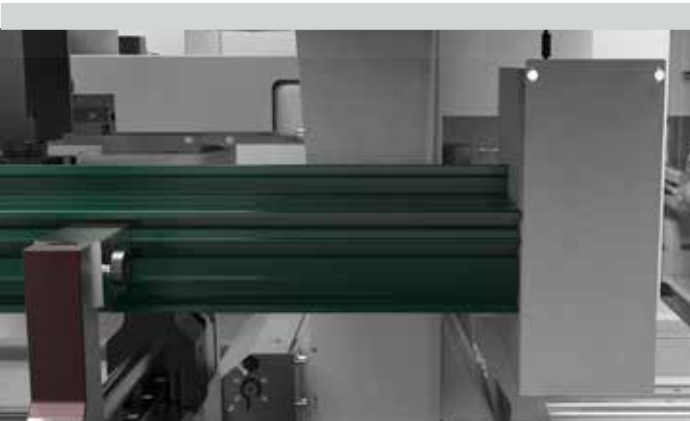
## TOOL LUBRICATION

Long service life of the tools with the 5 lubrication nozzles which ensure optimum machining conditions. Automatic lubrication of mechanical elements.



## DOUBLE REFERENCE

Mounted on the X-axis, the profile length measuring device provides two reference points for positioning the machining operations.



## VICES

With independent and controlled positioning along X. The equipment includes 8 vices on FMC 475 and 4 vices on FMC 445. Upon request it is possible to equip the machine with 10 vices on FMC 475 and 8 vices on FMC 445.

