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AXEL 5 - 02/2024 - version **1.1**

FomIndustrie

AXEL 5

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Aluminium Working Machinery

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AXEL 5

The AXEL 5 machining centre with 5 axes has been designed to carry out drilling and milling operations on aluminium or steel profiles. The mechanical specifications of this machining centre and its control system also mean that it can be economically used for the production of single pieces. For specific manufacturing needs it is possible to activate “pendular machining” or “multi-piece and pendular machining” functions with the ability to select numerous vice/stop configurations.

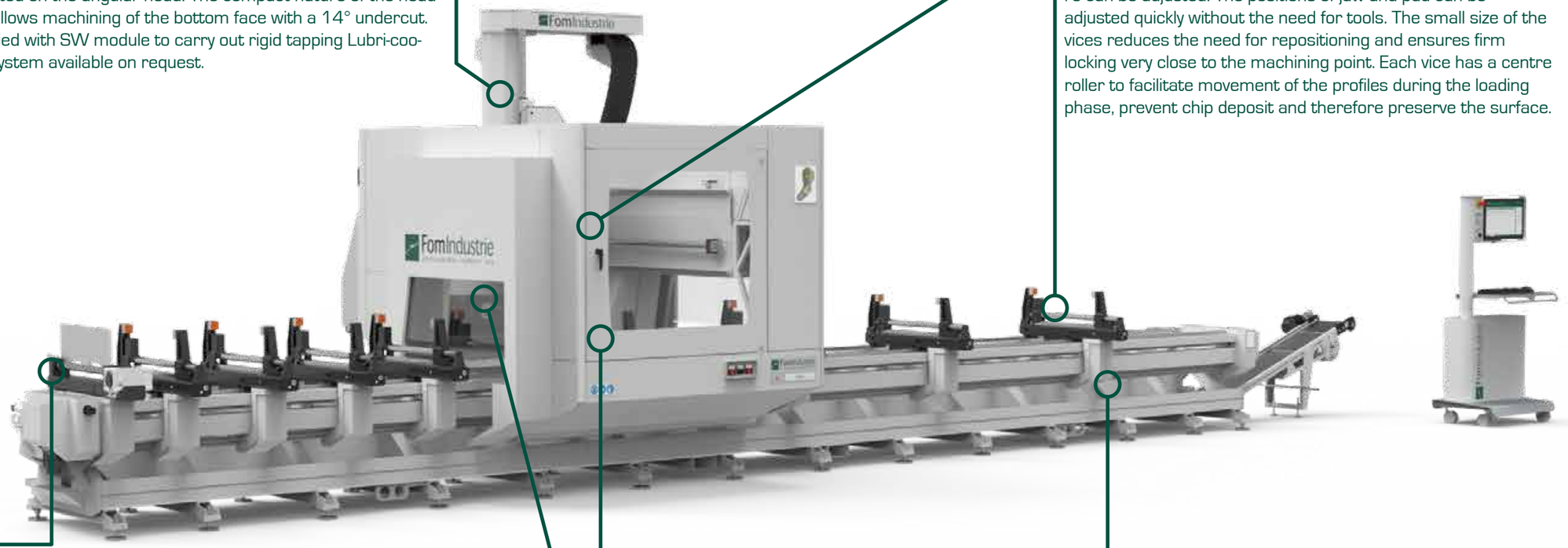
LOLA, our cloud based platform viewable from PC or mobile phone allows monitoring of machine status, machining statistics, state of machine components, scheduled and predictive maintenance.

INDUSTRY 4.0
LOLA READY

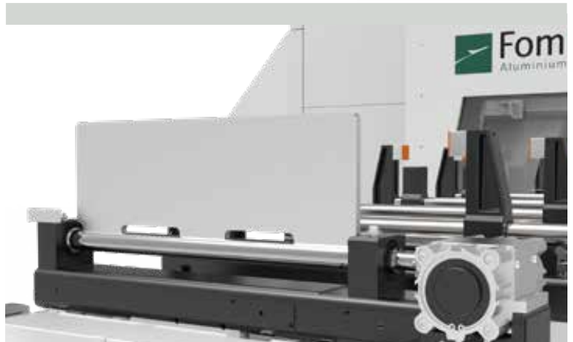
MACHINING ON 5 PROFILE FACES
As well as machining the 3 faces and the 2 ends, it is possible to perform cuts or milling operations with saw blade or mill mounted on the angular head. The compact nature of the head also allows machining of the bottom face with a 14° undercut. Supplied with SW module to carry out rigid tapping Lubri-coolant system available on request.

ELECTROSPINDLE
Liquid cooled 24000 rpm, 22 kW HSK E63 electrospindle.

VICES
Locking is optimum for every profile shape and section size. There is no surface deformation because the pad thrust pressure can be adjusted. The positions of jaw and pad can be adjusted quickly without the need for tools. The small size of the vices reduces the need for repositioning and ensures firm locking very close to the machining point. Each vice has a centre roller to facilitate movement of the profiles during the loading phase, prevent chip deposit and therefore preserve the surface.

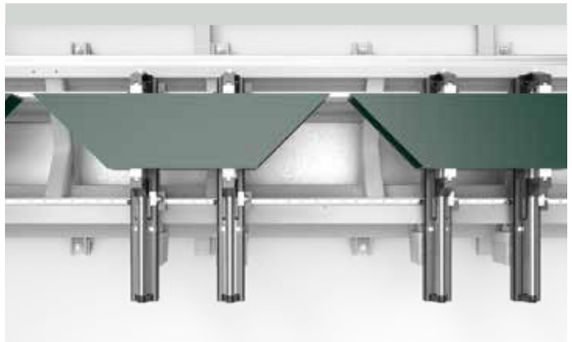


WORKING AREA CONFIGURATION
A fixed, pneumatically tilting stop is provided on the left hand side. A second fixed position, tilting stop is available on the right hand side for two phase machining of profiles with a length greater than the longitudinal stroke of the CNC or to carry out pendular machining. A central stop with controlled movement is available for pendular and multi piece machining operations, to optimise the dimensions of the two working areas.



TOOL MAGAZINE ON HEAD
It has 20 HSK E63 tool holders, also suitable for angular heads. The magazine turns in both directions to minimise the tool change time. On request, the tool magazine can be fitted with a device to check the tool is undamaged and measure its length, so as to allow real time control and guarantee precise machining operations at all times.

CUT
“Cut and separate” mode can be activated to integrate the cutting and machining phases when it is necessary to load a bar and obtain a number of cut and machined profiles. Step by step cutting mode can also be activated to carry out a number of cuts automatically on the same bar.



WORKING ENVIRONMENT AND ERGONOMICS
Loading and unloading operations are particularly easy and safe thanks to the base, which is designed using ergonomic criteria that also simplify the collection of chips and waste.