emmegi

A Aluminium
S Steel
P Pvc

en #4

Phantomatic T3 A
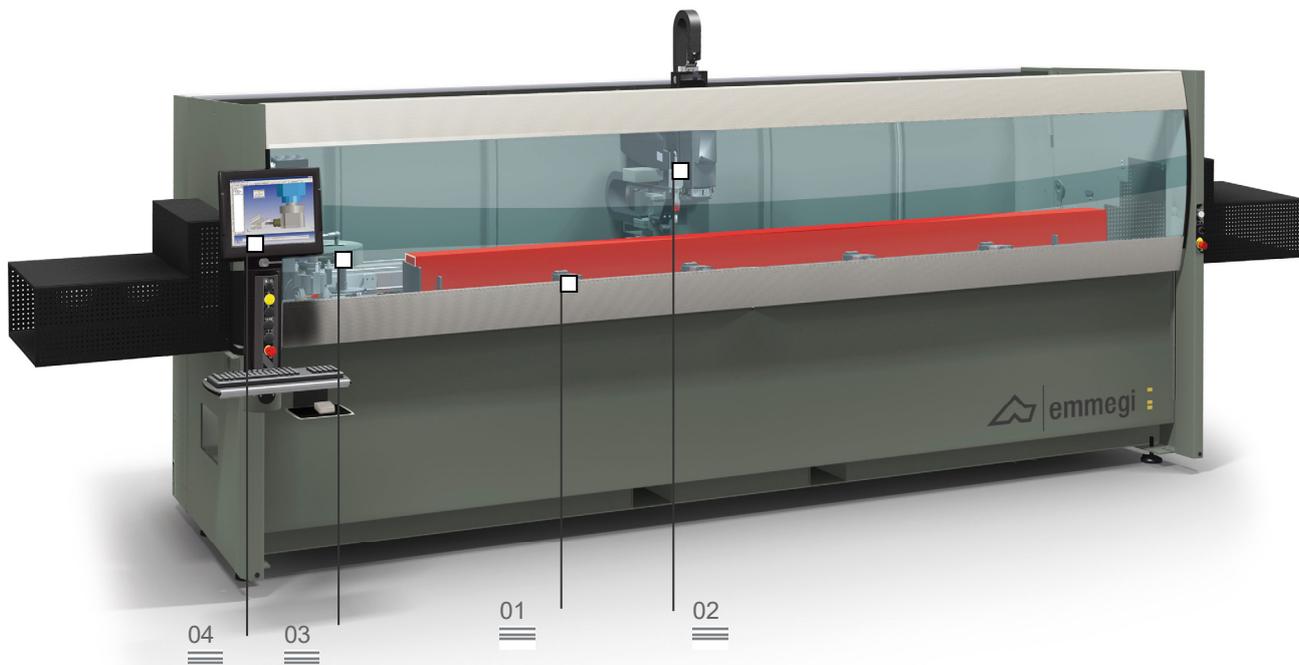**Machining centre**

Vices 01

Electro-spindle 02

04 03 01 02

CNC machining centre with 3 controlled axes, designed for machining operations on bars or workpieces made of aluminium, PVC, light alloys in general and steel up to 3 mm thick. It is provided with a 4-place tool magazine, with predisposition for containing 2 angle machining heads and a side milling cutter, for machining operations on the 5 faces of the workpiece. It also has a traversing work table which facilitates workpiece loading/unloading as well as considerably increasing the machinable section.
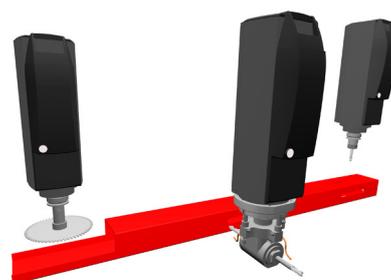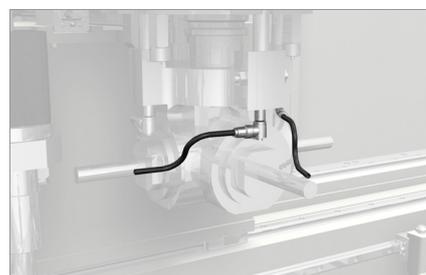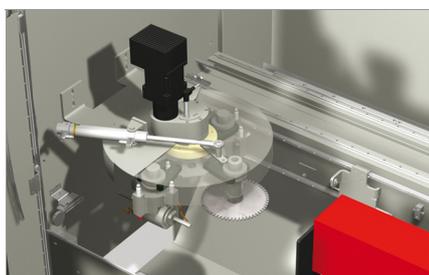

Tool magazine 03

Operator interface 04

Angle machining head lubrication 05

The images are only given for illustrative purposes

Phantomatic T3 A
Machining centre

01 Vices

02 Electro-spindle

03 Tool magazine

04 Operator interface

05 Angle machining head lubrication

The machine software, in relation to the workpiece length and machining operations, is able to determine the exact position for each vice set under fully safe conditions. The automatic vice positioner allows engaging each vice set and traversing it via the slide movements. This operation is performed at max. speed and with great accuracy, thus avoiding long downtimes and risks of collision hence the machine can easily be used also by less skilled operators.

The high torque electro-spindle 5.5 kW (S1), which also comes in the 7.5 (S1) version, allows heavy duty machining typical of the industrial sector. It can be used on certain types of extruded steel sections as well as on aluminium profiles thanks to the availability of a lubrication system, programmable via software, whose double tank allows use of both minimum quantity oil lubrication or spray mist with oil emulsion.

The new tool magazine of circular shape, is designed to take up less space. Not only does it allow positioning of very large extruded sections in the machine, it also allows very quick tool change. The metal protective cover offers maximum protection of the tool tapers against swarf and accidental collision. The tool magazine can hold up to 4 (8 on request) toolholders with their corresponding tools, which can be configured as required by the operator.

The new version of the control system, with pendant interface, allows the operator to view the monitor from any position, as it is can be pivoted about the vertical axis. The operator interface features a 15" touchscreen provided with all the necessary USB connections for remote interfacing with the PC and N/C. It is also provided with a control panel, mouse and keyboard. It also has predisposition for connection of a barcode reader and remote control panel. An easily accessible front USB socket replaces the floppy disk and CD-ROM drives.

The electro-spindle incorporates an adapter flange with quick-connect fittings in order to accommodate the lubrication system for the angle machining attachments thus ensuring correct lubrication of the tools during cutting.

Single-piece mode
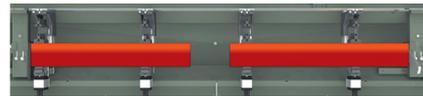
Multi-piece mode max 2 workpieces

AXIS TRAVEL	
X AXIS (longitudinal) (mm)	4300
Y AXIS (cross) (mm)	270
Z AXIS (vertical) (mm)	300
ELECTRO-SPINDLE	
Max. power rating (S1) (kW)	5,5
Max. power rating (S1) (kW) (optional)	7,5
Max. speed (rpm)	20000
Tool taper	HSK 63F
AUTOMATIC TOOL MAGAZINE	
Max. number of tools in the tool magazine	4 standard 8 optional
Max. number of angle machining heads loadable in the tool magazine	2
Max. blade diameter loadable in the tool magazine (mm)	Ø 180
FUNCTIONS	
Multi-piece operation	○
MACHINABLE FACES	
With straight tool (top face)	1
With angle machining head (side faces and ends)	2 + 2
With blade tool (side faces and ends)	2 + 2
TAPPING CAPACITY (with tap on aluminium and through hole)	
With compensating chuck	M8
Rigid tapping (optional, only with 7.5 kW electro-spindle)	M10
PROFILE POSITIONING	
Piece reference left stop with pneumatic movement	●
Piece reference right stop with pneumatic movement	○
WORKPIECE CLAMPING	
Standard number of vices	4
Max. number of vices	6
Automatic vice positioning through the X axis	●