MODUS

3-axis CNC Machinig Centre with profile rotation -90, 0, +90°. Machining on three sides

Technical Specifications:

- Guard with receding frontal door with **pneumatic** opening
- Console on board LH side machine complete with PC + FOMCAM software
- CNC controlled interpolating X, Y, and Z
- Axis sliding X,Y,Z on linear guides with high precision
- X axis movement with DC motor and high pressure reducer
- Y and Z axis movement with DC motors and drive with ground recirculating ball-screw
- Pneumatic rotation of the worktable -90° to 0 to +90°
- Worktable height 850 mm
- Pneumatic vices (n° 4) that translate along the worktable with quick positioning (without use of keys or accessories) (PATENTED)
- Dual working pressure with safety valves for profile stop
- Vices positioning readout on the workable by CN
- Automatic/manual tool change ISO 30 cone with cone tool-holder (6 tools)
- Software automatically corrects tool diameter and length

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- Milling capacity: X=2.985, Y=260, Z=120
- Electrospindle speed: 1000/12000 rpm, 2.2 kW
- Microdrop lubrication
- Set-up for central greasing for recirculating ball-screws and linear guides
- LH and RH profile pneumatic stop
- The profile being machined can be greater than the X milling depth (3.000 mm) alternatively using the pneumatic stops on the left and the right of the machine
- Air working pressure required 7 bar
- Work cycle air consumption 64 Nl
- Chip bin
- Set up for the installation of fume extraction
- Max tool height (spindle end projection) 130 mm
- Max tool height 45°-135° and intermediates angles (spindle end projection) 95 mm

Optional:

- Milling bits of various diameter and length
- **ISO 30** ERG 20 H 50 collet holder
- Collet ERG 20 diameters
- Cooling system by emulsified oil with coolant recovery
- Rotation of the worktable CNC controlled
- Integral guard system (A axis)
- **Additional** "**FomCam**" licence for office
- Module for the graphic designing in3D
- Bar-code optical reader and relatif software for FOM's protocol
- Bar-code optical reader and relatif software of a non FOM's protocol
- Additional charge for special voltage and cycle (Standard motor 230/400V three-phase 50 Hz)
- Additional charge for plant version UL-CSA (**Additional charge includes motor with special voltage**)

FOMCAM SOFTWARE

It is a CADCAM program, operating in Windows ambient, for the graphic designing of the machinings to be executed with the CNC.

Technical specification:

- 2D graphic representation in CAD ambient of inserted bars and machinings
- Guided introduction of the main machinings (hole, pocket, linear milling, cylindrical hole)
- Parametric machining management
- Simplified management of machining process sequence
- Automatic calculation of optimal vice positioning
- Tool archive management
- Profile and tool archive that can be extended and managed by user
- Management of machining prestored in archive (macro)
- Module for he graphic designing in 3D ambient (OPTIONAL)

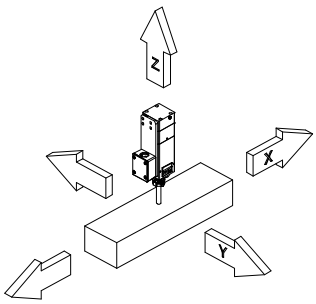
MAX MACHINING DIMENSIONS

OVERALL DIMENSIONS

LENGTH	WIDTH	HEIGHT	WEIGHT
3.960	1.760	2.065	2.000

AXES SPECIFICATIONS

AXES TRAVEL		
X Axis Longitudinal travel	mm	3005
Y Axis Transversal travel	mm	355
Z Axis Vertical travel	mm	214
AXES MOVEMENT		
X AXIS	m/1′	30
Y AXIS	m/1′	12,5
Z AXIS	m/1′	11
TOOL REPLACEMENT TIME sec. 15		
DISTANCE BETWEEN THE PNEUMATIC STOP mm 2960		



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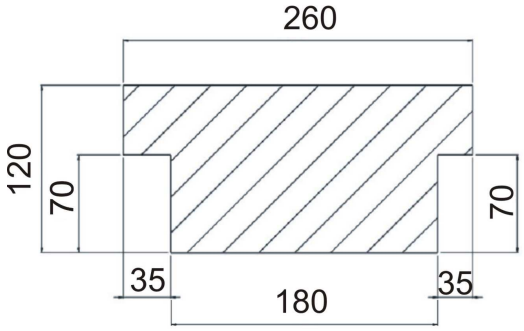
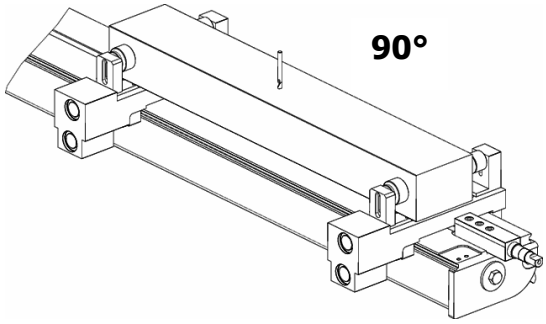
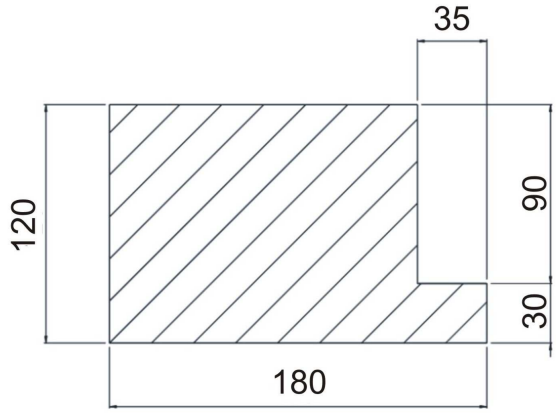
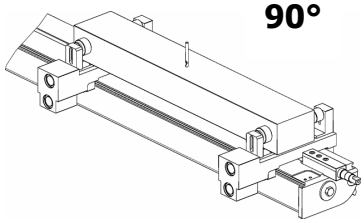
WORKING RANGE

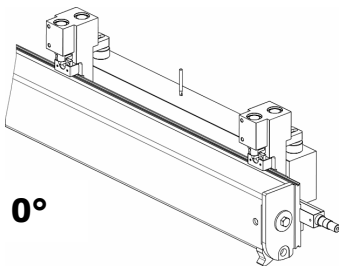




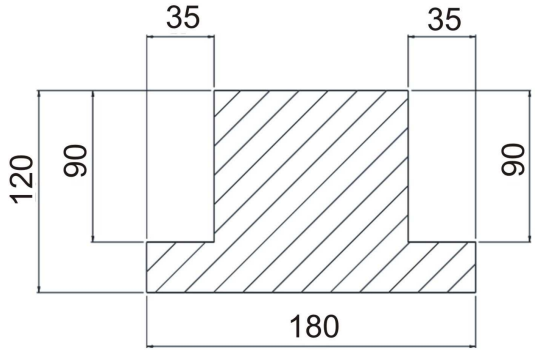
Max profile – 1 profile side with tool (Ø 10mm) height 60mm.

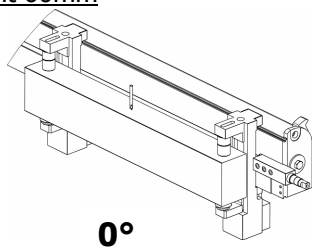


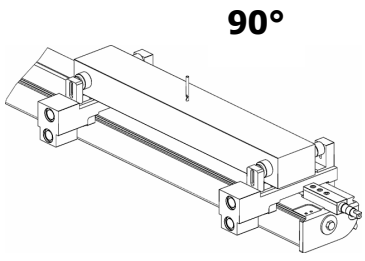


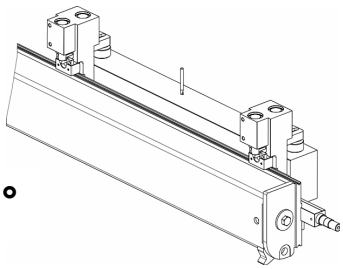


Max profile – 2 profile sidse with tool (Ø 10mm) height 60mm









Max profile – 3 profile sides with tool (Ø 10mm) height 60mm

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