

CNC BAZ IMA  
Typ Bima 410 120/500  
Gebrauchtmachine - Baujahr 2000



1 electronically controlled CNC machining center

BIMA 410 type 120/500

Version: - without aggregates, without tools

- with standard table, safety mats

1 vacuum pump 100 m<sup>3</sup>/h, IMATRONIC-NT,

Protective grille on the right side, with door

and on the left front, portable desk for setting up

Technical data:

Processing area X 5000 mm

with standard units: Y 1200 mm

max. clamping height

Top edge of suction plate Z1 100 mm

Max. workpiece thickness Z2 depending on equipment/application

Work table height approx. 1000 mm

Alternating field range:

without pendulum processing X 2 x 2400 mm

Free space in the middle x 200 mm

with pendulum processing: X 2 x 1900 mm

Free space in the middle x 1200 mm

Machine weight: approx. 7000 kg

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Machine description BIMA 410

Basic machine

Solid statically and dynamically rigid steel construction.

The mobile support with boom is in the X direction

Here the processing support moves in the Y and Z directions.

Management system

All axes are equipped with preloaded precision rolling guides.

Central lubrication

Automatic central locking for all main axis linear guides and Z ball screws

Feed drive system

All axes (X, Y and Z) position in a position-controlled manner in the X and Y axes  
by means of a preloaded rack and pinion drive and in the

Z axis with backlash-free ball screw

suction

Default:

- Connection 1,300 mm diameter on the main milling spindle

- Connection 2 120 mm diameter on the drilling spindles

- Suction speed: approx. 28 m/sec

- Suction volume: approx. 4300 m<sup>3</sup> per hour.

1 vacuum pump:

Output 100 m<sup>3</sup>/h

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Compressed air

Central connection for 1/2" with maintenance unit.  
Air pressure 6 bar constant.

documentation

Electrical manual (2-fold), operating manual,  
Lubrication plan, programming instructions and spare parts list (1 each).

Electrical equipment

- Electrical installation according to EN, switching elements in a separate control cabinet,
- Control cabinet dimensions (HxWxD) 2000 mm/1800 mm/600 mm
- Control voltage: 24 volts (DC)
- electrical connection value approx. 24 KVA
- Mains voltage: 3/N/PE, 400/230 V, 50 Hz, +6/-10%

Machine equipment and extensions:

- Safety features include:
  - electrical Step mats divided into 3 and alternately active on the front of the machine.
  - 1 protective grille on the right side, with door and
  - 1 left front protective grille included.

CNC path control IMATRONIC NT 231

Windows NT operating system.

Keyboard with trackball.

17 inch color monitor

graphically oriented user interface IMAWOP

Language version for IMATRONIC, national language German

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The standard table version BIMA 410 includes:

- 1 right and left workpiece stop
- 6 support arms, infinitely adjustable in the X direction, each with a front stop
- 6 sets of suction plates consisting of a total of:
  - 12 suction plates 114 mm x 159 mm x 100 mm
  - 6 suction plates 125 mm x 75 mm x 100 mm
- 1 program-controlled vacuum connection per alternating field

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4 pcs suction plates 130 x 30 x 100 mm for narrow parts (y-oriented)

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1 additional 2nd vacuum pump 100 m3/h

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2 additional support arms Y = 1200 mm

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2 suction plates 125 x 75 x 100 mm for narrow parts (y-oriented) in the Y direction

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8 pcs suction plates 30 x 130 x 100 mm for narrow parts (x-oriented) in the X direction

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2 pieces foldable stop

Depth in Y direction 130 mm  
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Table version for 4 places offset in X

4 knee switches for workpiece clamping/loosening function

4 pieces smooth support rail items 2, 3, 6 and 7

Chip conveyor belt BIMA 210/310/410

Processing area X= 5000 mm

BIMA chip ejection conveyor

Ejection height approx. 1000 mm

Central connection for the suction

1 main spindle HSK F63, taper diameter = 38 mm

- Direction of rotation: clockwise/anti-clockwise, programmable

- Speed range: continuously variable 1500 - 24000 rpm, programmable

- Drive power: 7.5 KW in S-1 operation

1 centrally integrated CNC axis rotating 360 degrees, for all adapter units, with torque support on the main spindle and pneumatic interface

1 automatic tool/adapter change magazine 18 places

1 saw adapter unit, fixed at 90 degrees, with clamping plate,

1 adapter unit for horizontal drilling and milling head (cross head)

1 vertical drilling unit 5 spindles

Arrangement of the drilling gear in the X direction

1 vertical drilling unit 11 spindles

Arrangement of the drill gear in Y direction

1 measuring probe

Graphical user interface IMAWOP for PC computers

Language version for IMAWOP or IMAwinCAD for PC computers

National language German (standard).

Network coupling of the IMATRONIC 231

LED setup aid for 8 support arms, 1200 mm long

Teleservice preparation (modem, RSM, socket)