

CNC machine with servo controller

ICV 4030



Figure: ICV 4030

General

CNC basis machines of the series **ICV** are tried and tested, wired ready for mains connection, 3-D compatible CNC machines with high operating comfort for a multitude of automatable task at an ideal price/performance ratio.

The basis is a chassis made of powder-coated steel panel elements. The design layout provides for high precision during the set-up of the machine as well as ease of maintenance. The resonance and vibration behaviors of the machine series is optimized and thereby reaches a low noise emission.

The machines can be easily operated while in seating position with the help of a sliding door. This allows for shorter cycle times when opening the hood and thereby increases profitability.

The clearance free ball screw used in the linear axes ensure high precision, accuracy and quiet running. The DC servo motors of the axis drive are ideally adjusted to the mechanics, control and software.

The servo controller with CAN-BUS integrated into the CNC machine, is easily via accessible for maintenance via the rear panel.

The CNC machine **ICV** has a fixed portal area, the machine table with the thereon attached workpiece is moved during the machining process.

Technical specifications subject to change.

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Applications

The company **ICV4030**® CNC Machine are the basis for the set-up of machines for:

- Drilling and milling
- Assembling and mounting
- Imprinting and engraving
- Metering and Fastening
- Buring and polishing
- Forming and modeling
- Bonding and casting
- Soldering and welding
- Measuring and testing
- Scanning
- ... etc.

Options

For **ICV4030**® CNC Machine special devices and tools for different requirements and applications are available:

- Drilling and milling spindle
- Engraving spindle
- Cooling/spraying device
- Frequency converter
- Tool changer
- Rotary unit
- Rotary / swivel unit
- T-Groove table milled
- Extraction

- Vacuum clamping plates
- Pneumatic accessories
- CNC Joystick
- I/O Module
- Applications

We are able to design and manufacture for OEM customers, in collaboration, special machines.

Technical specifications

	ICV 4030
Traversing range X/Y/Z (mm)	395 x 300 x 100
Table clamping area WxD (mm)	600 x 375
Opening (mm)	150
Dimensions WxDxH (mm)	771 x 835 x 806
Guides	Linear units with precision steelshafts and ball circulation skid, clearance free adjustable
Process speed X/Y/Z (mm/s)	250
Repeat accuracy (mm)	≤ 0,02
Drive motors	DC servo motors
Drive elements X/Y/Z	Ball screw drive, adjustable backlash-free
Control	CAN controller iMC with 3 drive regulators CAN PC (computer with I/O module) safety circuit and zero speed monitoring Power supply 48 V / 500 W
Operation	Function key and Emergency OFF
Software	Remote optional: Windows, ProNC, isy-CAD/CAM
Weight (kg) *	approx. 150
Item no.*	280230 4405

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