# isel GermanyAG

# ICV 4030 EC

## The compact desktop CNC machine

- CNC machine ready for mains connection
- low noise thanks to the maintenance-free servomotors
- prepared for the connection for a fourth axis
- ergonomically slim design



**PILZ**
THE SPIRIT OF SAFETY
**INSIDE**

# ICV4030EC | The compact desktop CNC machine

The ICV 4030 EC is a compact table machine with a tried and tested, optimised chassis design. A practical base table equipped with monitor and integrated keyboard is optionally available. The CNC machine has a modular structure; all control components, including the isel CNC control, the control computer, and the high-quality safety technology by PILZ, are installed on the rear side so to be easily accessible in the event of service.

All linear axes installed in the machine come from the isel program; they run with linear ball bearings on ground precision steel shafts. Ball screw drives without clearance having various spindle pitches are used as drives. The machine table made of plane-milled T-slot profiles offers a wide range of clamping options for individual workpiece holders and for clamping devices.

The ICV 4030 EC is suitable for numerous areas of application and industries; experience has shown that it is preferred for the machining process. The range is rounded off by a wide range of accessories tailored to your application.

## Features

- powerful isel control
  with maintenance-free servomotors
- reliable linear units
  with steel ball screws are installed as drives
- PILZ security technology
- easy to use thanks to the height-adjustable display
- network-compatible control PC with WIN 10
- user-friendly soft-lift hood
- clamping of the workpieces by means of a T-slot plate

## Highlights

- little space required for installation

## Options

- milling spindle from 500W to 1200W
- linear tool changing station
- tool cooling as a cooling, spray, or air version (CoolMin)
- length measuring pushbutton
- vacuum clamping table
- maintenance unit equipped with a valve terminal
- base table equipped with swivelling screen
  and integrated keyboard
- the base table is used to install the vacuum pump,
  cooling device and other peripheral devices
- automatic hood opening
- safety light curtain
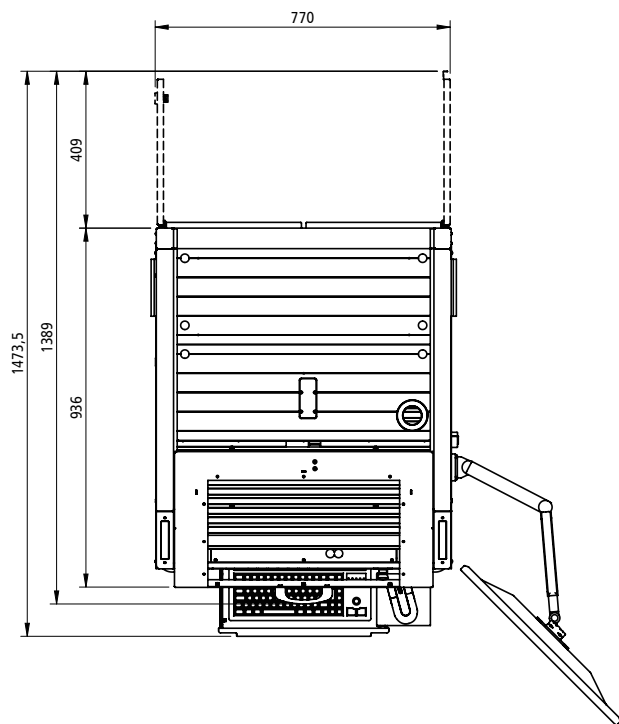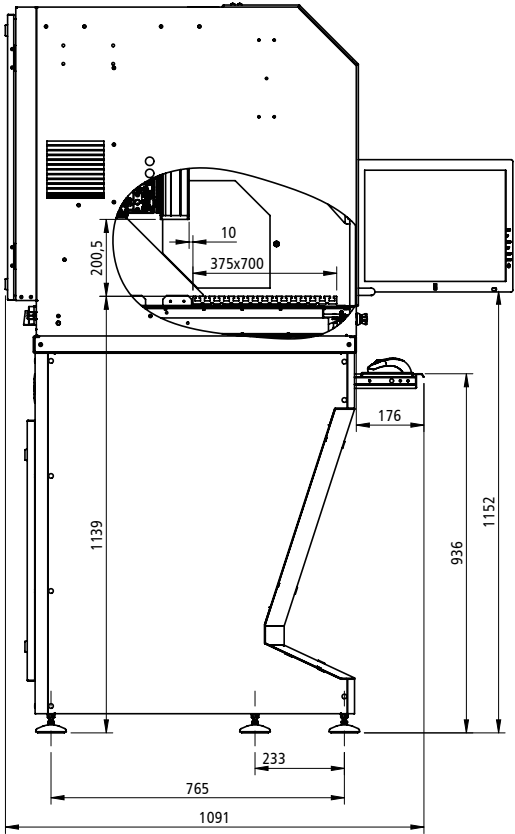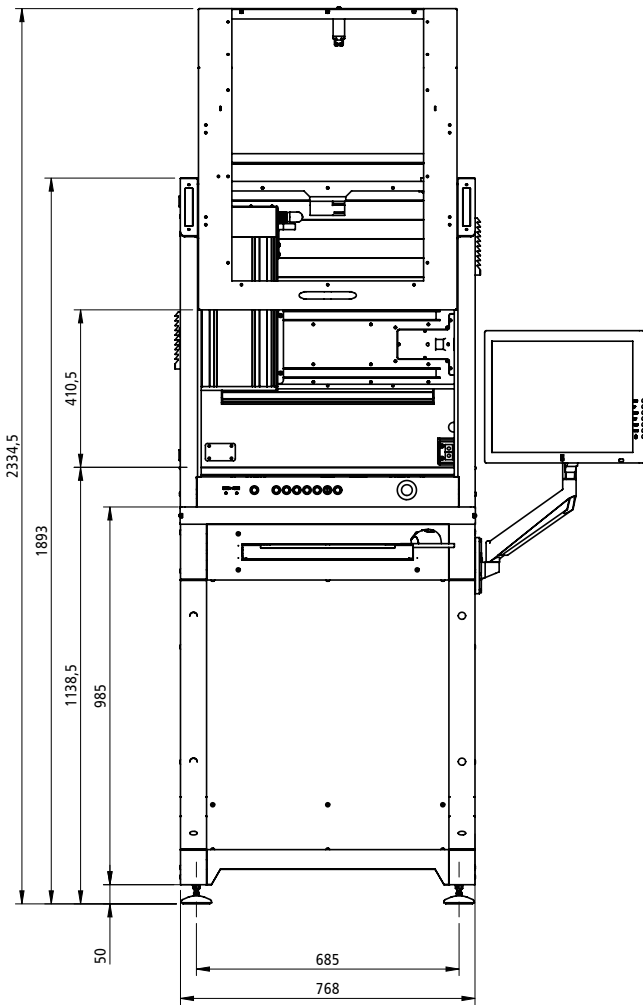- light-tight protective glass for laser applications

## Technical data

### ICV4030EC

| | |
|---|---|
| Travel ranges X/Y [mm] | 400/300/140 |
| Table clamping area WxD [mm] | 700 x 375 |
| Passage* [mm] | 200 |
| Dimensions WxDxH [mm] | 769 x 836 x 901 |
| Travel speed X/Y/Z | max. 12 m/min. |
| Drive motors | Servo motors |
| Drive elements X/Y/Z | Ball screw drives 16x10 / 16x10 / 16x5 mm, set without clearance (optional 16x4 mm in X/Y/Z) |
| Guides | Linear units equipped with precision steel shafts and recirculating ball slides, set without clearance |
| Control | CAN controller with 3 drive controllers (expandable to 4), integrated control computer, I/O module, safety circuit with standstill monitoring, power supply 48 V / 1000 W |
| Operation | Function keys and emergency-stop |
| Software | WinRemote (optional: ProNC, isy-CAM) |
| Weight* [kg] | approx. 210 (plus approx. 110 kg base table) |
| Electrical specifications | 230V, 16A |
| Part No. | 280261 0001* |

*without installed components on the axes.

# ICV4030EC | Dimensional drawing [dimensions in mm]

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# **ICV4030EC** | Diverse - expandable - functional

Foams



Plastic materials

## Typical materials:

- light and non-ferrous metals
- foam and milled plastics
- wood
- plexiglass
- and many more

## Application areas:

- model and mold making
- orthopaedic technology
- measurement and testing procedures
- rapid prototyping



Option: vacuum clamping table and linear changer



The figure shows the optional keyboard

Pull-out keyboard compartment with fold-out mouse tray



## Base table
## for ICV 4030 EC

- ergonomic design
- rear storage space
- optional: monitor and monitor bracket

Technical specifications subject to change. Katalog_Systeme