

CNC machine with step motor drive

ICP4030

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**NEW
DESIGN!**

MECHANICS - ELECTRONICS - SOFTWARE - SYSTEMS
MADE IN GERMANY
LIFE CYCLE - DISPLAY -



ICP 4030
with hood closed

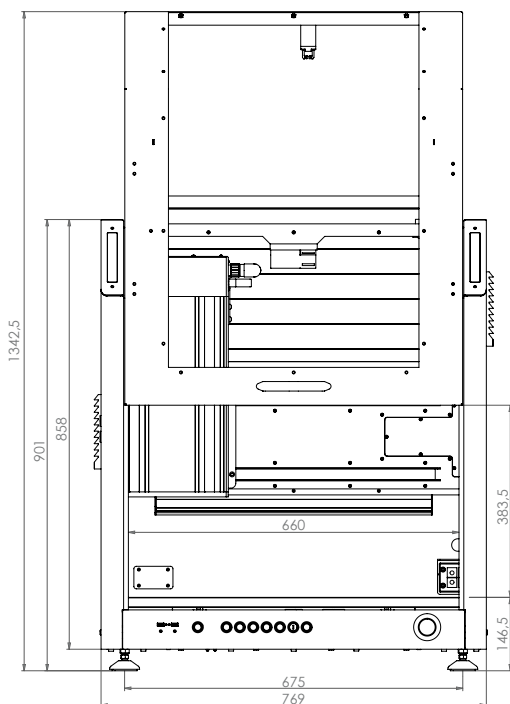


ICP 4030
with hood open

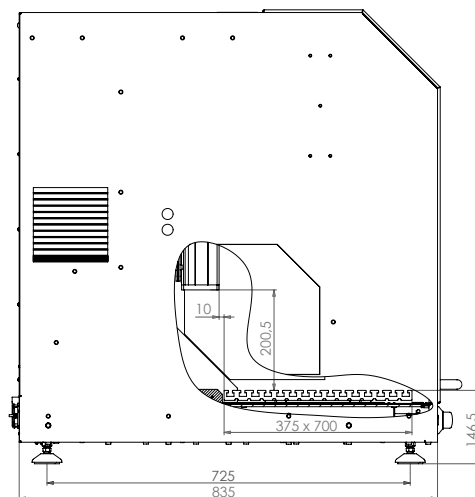
Features

- tried-and-tested technology
- for over 20 years
- over 20,000 systems sold
- Operation possible without a connection to a PC
- suitable for school and training

Dimensioned drawings



front view



side view

CNC machine

with step motor drive

ICP4030

CNC machines in the ICP series have been developed from the proven CPM series. By introducing a sliding door, the machines can now be operated in a sitting position which, inter alia, leads to shorter cycle times when opening the hood. The chassis is completely bolted instead of being welded like its predecessors. This produces higher precision when building the machine and makes servicing easier. In addition, it was possible to optimise the resonance and vibration behaviour and therefore lower noise build-up has been achieved. The universal control PC iPC 25 is installed.

Technical specifications

	ICP 4030
Traverse path X/Y/Z [mm]	400 x 300 x 140
Clamping table surface W × D [mm]	700 x 375
Throughput [mm]	200
Dimensions W × D × H [mm]	769 x 836 x 901
Guides	Linear units with precision steel shafts and recirculating ball slots, clearance free adjustable
Process speed X/Y/Z [mm/s]	100 (for Ball screw drives 16x10) 60 (for Ball screw drives 16x4)
Repeatability [mm/s]	± 0.02
Drive motors	Stepper motors
Drive elements X/Y/Z	Ball screw drives 16 x 10 / 16 x 10 / 16 x 4 mm Clearance free adjustable (optional: 16 x 4 mm in X/Y/Z)
Controller	iMC-P step controller with 4 final stages 48V/4.2A, integrated control computer, and 500W power supply unit with processor board
Operation	Function keys and emergency shutdown
Software	WinRemote (optional: ProNC, isy CAM 2.8)
Weight [kg]	appr. 150
Part-no.:	280270 0001*

* The deliverables include an accompanying pack with mechanical accessories (inter alia Hand lever clamping device, stop rails Triangle wrench, open jaw wrench, hook wrench, Allen key, one 6-socket bench extension, connection lead, power lead)

Overview machine configuration
see page E-20

Accessories

680670 9300	machine stand, RAL 7016/3003
442107	monitor support - WLB511, VESA 100 x 100, wall mounting / gas spring
442057	23.6" LED-monitor
370321 2003	metal industrial keyboard with touchpad and 105 Keys, USB-interface, IP68
280220 9012	Cooling/spray device for ICP 4030
280120 9010	Length measuring button for ICP 4030
280110 9004	Workspace lighting for ICP 4030
420003 0500	Milling motor UFM 500, 500 W, 11,000...25,000 r.p.m.
280110 9001	Suction device for UFM 500
Z13-337070	isy-CAM 2.8
Z11-333500	ProNC software
310704 1611	iSA 500 spindle motor up to 30,000 rpm, 500 W, with frequency converter, ER 11 clamping ring and motor lead
310708 1611	iSA 750 spindle motor up to 24,000 rpm, 750 W, with frequency converter, ER 16 clamping ring and motor lead
280210 9001	Suction device for iSA 500 / 750
277014	Fixing plate for main spindle drive iSA 500 / 750
290055	Vice 1 (W 130 x H 45 x L 152 mm)
290056	Vice 2 (W 180 x H 75 x L 215 mm)