

X/Y/Z CNC Base Units

Series ICP



ICP 4030

CNC Base Units of the series ICP are further developments of the proven ready-to-use 3D-capable CNC machines of the series CPM.

Due to the newly developed sliding hood, the machines can now be operated from a sitting position, which, amongst others, results in decreased cycle times with regard to the hood's opening.

The chassis is completely screwed, and not welded like the forerunner models. This results in a more precise machine structure as well as in an improved maintainability.

Furthermore, the resonance and vibration behaviour could be optimised and thus a lower noise development could be achieved.

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Technical Data

	ICP 4030	ICP 3020	ICP 2015
Construction type	Chassis construction with protective hood	Chassis construction with protective hood	Chassis construction with protective hood
Design	Gantry unit	Gantry unit	Gantry unit
Travel ranges (X/Y/Z)	400/300/140 mm	300/200/90 mm	200/150/90 mm
Travel speeds (X/Y/Z)	60/60/60 mm/s at spindle 16 x 10 mm	60/60/60 mm/s bei Spindel 16 x 10 mm	60/60/60 mm/s bei Spindel 16 x 10 mm
Guides	Clearance-free precision steel shaft guides with shaft slide	Clearance-free precision steel shaft guides with shaft slide	Clearance-free precision steel shaft guides with shaft slide
Passage height (from lower edge z-axis)	170 mm	115 mm	100 mm
Clamping table surface (W x D)	600 x 375 mm	500 x 250 mm	400 x 250 mm
Dimensions (W x D x H)	780 x 850 x 810 mm	610 x 650 x 715 mm	535 x 600 x 690 mm
Weight (basic configuration)	Approx. 120 kg	Approx. 102 kg	Approx. 95 kg
Mode of drive	2-phase high-torque stepping motors	2-phase high-torque stepping motors	2-phase high-torque stepping motors
Control	4-axis micro-step stepping motor control, integrated into the machine, with RS 232 communication interface	4-axis micro-step stepping motor control, integrated into the machine, with RS 232 communication interface	4-axis micro-step stepping motor control, integrated into the machine, with RS 232 communication interface

Ordering Data

Item no.	Description	Ball screw drive (mm)	Power electronics
280200 1404	ICP 2015 KG-TR	16 x 10	Integrated power electronics IMC4
280201 1404	ICP 2015 KG-TR	16 x 4	Integrated power electronics IMC4
280210 1406	ICP 3020 KG-TR	16 x 10	Integrated power electronics IMC4
280211 1406	ICP 3020 KG-TR	16 x 4	Integrated power electronics IMC4
280220 1405	ICP 4030 KG-TR	16 x 10	Integrated power electronics IMC4
280221 1405	ICP 4030 KG-TR	16 x 4	Integrated power electronics IMC4