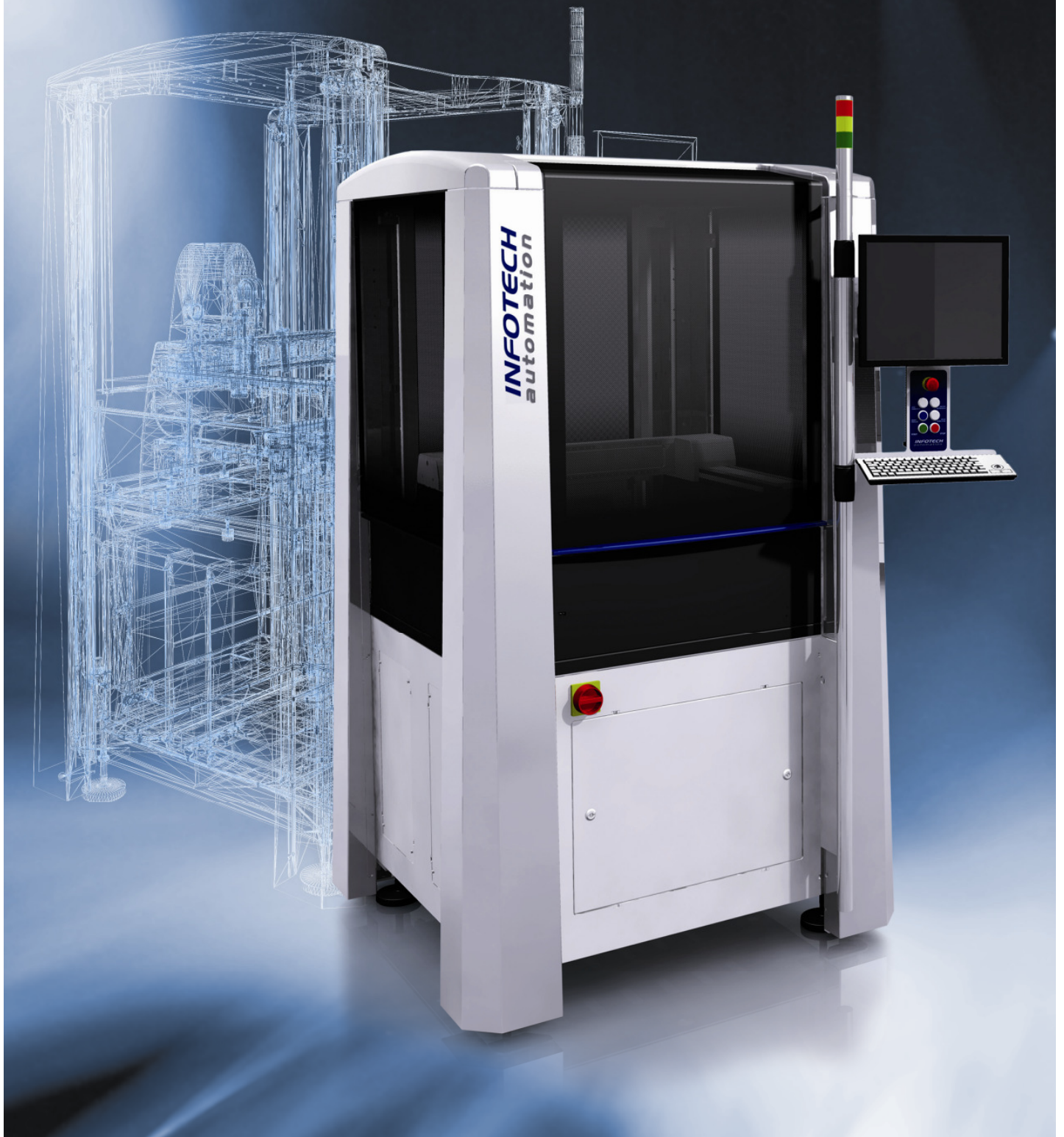


IP-500 Cell



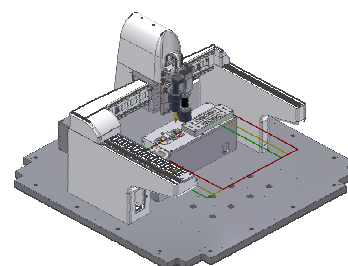
INFOTECH
automation

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Technical data IP-500 Cell

The ultimate precision multi - functional production cell with a wide open application range for miniature part and fluid handling for the different markets such as: Electronics, Semiconductors, Photonics, Micro-Assembly or Bio-Technology for manual, semi automated, or fully automated operations:



- Distributed, synchronized motion and vision control system
- Multiple up- or down-looking, moving or fix installed cameras (GigE)
- Head- and table peripherals from flexible component matrix
- Optional tools, nozzles, grippers (changers, heaters, force systems)
- Optional probes, dispensers (Time/pressure, micro screw and Jet dispensing)
- Optional conveyors, tape- and stick feeders, vibratory-, any-feed-, wafer and waffle-pack feeders

It guarantees made-to-measure applications: highest-precision Cartesian positioning systems with an extensive range of available components for the automation of precision processes.

IP-500 Cell	High precision multi- functional production cell – Single X-, single Y-axis linear motor drive			
Dimensions	Width	1200 mm	47.2 "	
	Depth	1200 mm	47.2 "	
	Height (average)	1800 mm	70.9 " (without stack light)	
	Weight (average)	900 kg		
Electrical power	3 x 400 / 230 VAC	50 Hz	3 phase or	
	3 x 208 / 110 VAC	60 Hz	3 phase	
Air pressure	0.6 MPa	6 bar	87 psi	
	X	Y	Z (standard)	Rotation
Axes range	400 mm 15.7 "	400 mm 15.7 "	68 mm 2.7 "	+/- 360 ^o
Axes acceleration *	10.0 ms ⁻²	10.0 ms ⁻²	6.0 ms ⁻²	60 rots ⁻²
Axes speed *	1.0 ms ⁻¹	1.0 ms ⁻¹	0.18 ms ⁻¹	2.5 rots ⁻¹
Axes resolution	0.0002 mm	0.0002 mm	0.001 mm	0.003 ^o
	0.000008 "	0.000008 "	0.00004 "	
Axes repeatability **	+/- 0.005 mm	+/- 0.005 mm	+/- 0.004 mm	+/- 0.012 ^o
	+/- 3 Sigma +/- 0.00020 "	+/- 0.00020 "	+/- 0.00016 "	
Process accuracy **	+/- 0.010 mm	+/- 0.010 mm	+/- 0.010 mm	+/- 0.020 ^o
	+/- 3 Sigma +/- 0.00039 "	+/- 0.00039 "	+/- 0.00039 "	
Safety system	CE certified, UL compatible			
	Production cell with production locked safety cover(s)			
Optional force tables	Precision force tables available with force profiles at 0,1N to 50N			
Optional pneumatics	Blow off, Vacuum, Vacuum sensing, Process air, Process flow control			
Typical cycle times	1.3 s for pick and place			
	1.8 s for vision, pick, vision and place			

Specifications are subject to change without previous notice.

* The axes performance is application specific configurable. Ask for other available axes speed and acceleration parameters.

** Values are based on glass flip chip placements on glass substrate. Local process accuracies of 0.005 mm can be reached depending on the process and depending of the machine configuration.

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