

## iineo I



### Machine Capability

Tact time	0.263 sec. - 13,660cph (IPC: 11,700cph) 0.232 sec. - 15,500cph (IPC: 12,700cph - Tornado head)
Placement accuracy	standard 35 µm (QFPs) to 60 µm (Chips) @ 3 sigma
Pick up heads	rotary turret head on X/Y linear motor gantries with 8 pick ups (12 pick ups on Tornado head)
Nozzles	one 40 positions 'smart' nozzle tool bank option 1: additional 40 pos. tool bank option 2: additional special nozzle tool bank option 3: additional 40 pos. and special nozzle tool bank option 4: additional 20 pos. tool bank (tray sequencer in front)
Component analysis	'on-the-fly' digital hi-resolution camera
Feeder range	full range of intelligent feeders for 8 – 88mm tapes, for components in plastic sticks and matrix trays
Feeder capacity	264 x 8mm tape feeder positions + equivalent 10 Jedec matrix trays

### Board Handling

Min. pcb size	60 x 60mm
Max. pcb size options:	700 x 460mm (700 x 405mm if tray sequencer at rear) 700 x 600mm - wide (max.132 pos. 8mm) 1000 x 460mm - long (1000 x 405mm if tray sequencer at rear) 1000 x 600mm - long & wide (max.132 pos. 8mm) 1610 x 460mm - very long (1610 x 405mm if tray sequencer at rear) 1610 x 600mm - very long & wide (max.132 pos. 8mm)
Thickness	0.5mm to 10.0mm
Weight	3Kg max. (10Kg max.in option)
Under board clearance	25mm
Board location	full edge clamping with fiducial correction
Board edge clearance	3mm above/5mm below
Transport criteria	Left to Right (Right to left optional), fixed front rail, height – adjustable 890 – 975mm) SMEMA interface

## Component Range

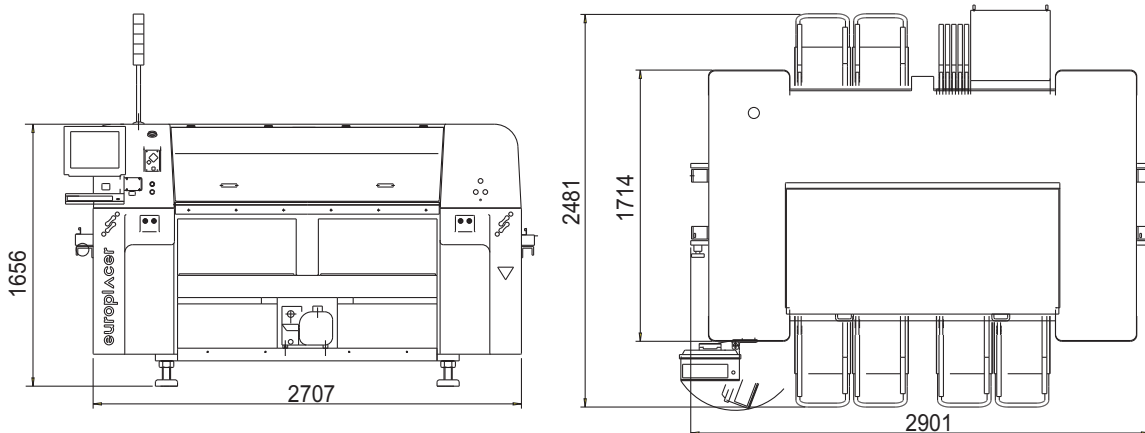
Types	chips, melfs, electrolytic capacitors, SO, PLCC, QFP, TSOP, BGA, $\mu$ BGA, LGA, CSP, connectors and odd-form surface mount devices
Minimum size	0.4mm x 0.2mm (01005)
Maximum size	50x50mm as standard, 70x70mm, 100mm long connectors with fixed camera option
Maximum height	ilineo I full revolution turret: 12mm, 1 comp. mode: 34mm ilineo IT full revolution turret: 12mm, 1 comp. mode: 31mm
Minimum lead pitch	0.3mm (QFP), 0.4mm ( $\mu$ BGA) 0.15mm (QFP), 0.2mm ( $\mu$ BGA) with optional fixed camera
Minimum lead/ball size	0.15mm (QFP), 0.2mm ( $\mu$ BGA) 0.07mm (QFP), 0.1mm ( $\mu$ BGA) with optional fixed camera

## Options

- fixed camera for larger and very fine pitch components
- feeder trolley options for bulk change of individual feeder and 'mass' tape feeder ranges
- internal fixed tray holder zone 1000 x 490mm - 10 Jedec
- internal fixed tray holder zone 550 x 490mm - 7 Jedec (with long board option)
- 30 position automatic loader for matrix trays
- electrical component verification
- glue dispenser, dispenser with archimedean screw
- automatic width adjust
- additional nozzle magazines
- rear operating station

## General

Electric	400/210V three phase 50Hz/60Hz, 5 - kVA	Humidity	20 – 80% RH
Air	7 bars, 30 l/min	Weight	2000 Kg (without feeders)
Noise	<70dB (A)	Colours	Eurolacer white Pantone 645 RAL 7043
Working temperature	range 10° - 30°C ideally 20°C $\pm$ 5°C		



Dimensions in mm

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