


# TURNKEY

Complete SMT production lines from one source



 swiss made

# Requirements

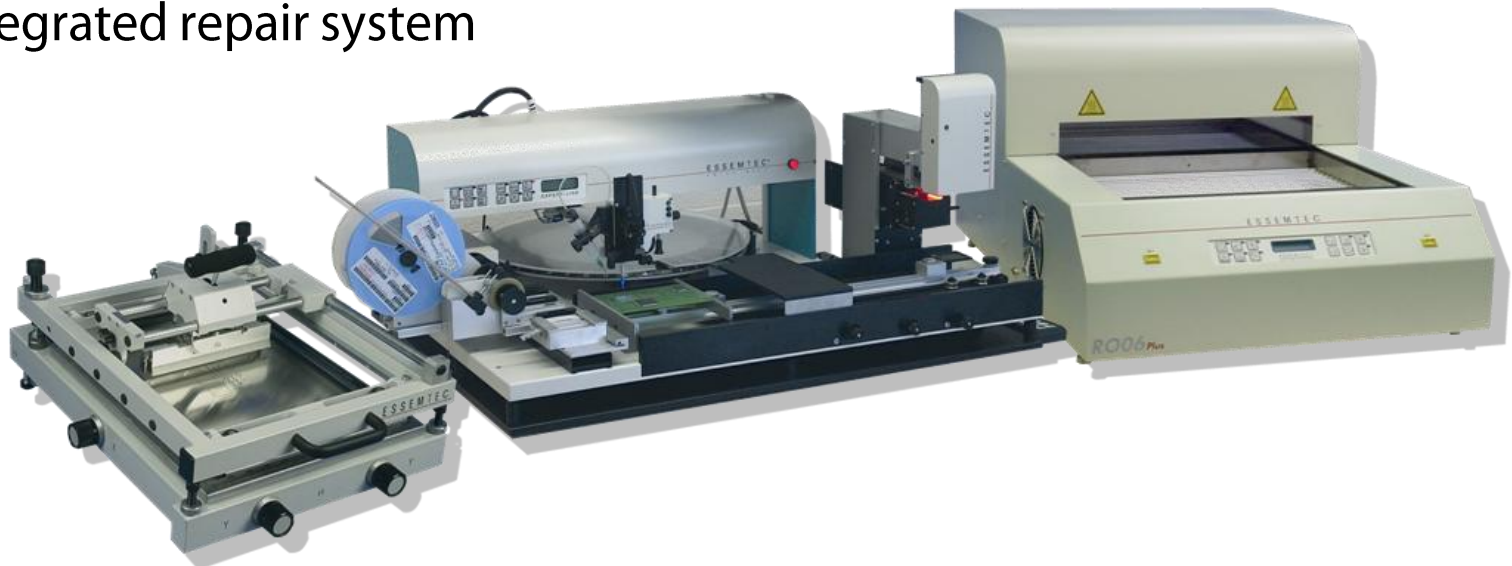
- What do you need for a complete SMT production line?
  - One source for all process steps:
    - Printing
    - Dispensing
    - Pick&place
    - Soldering
    - Handling
  - Integrated production management software
  - Process know how
  - Modular equipment for all SMT requirements, open for future upgrades
  - Flexible equipment with very short changeover time
  - Easy to use operator interface for short programming and setup
  - Growth prospective for future expansions
  - Reliable equipment with high ROI (return on investment)

# Prototyping and single board manufacturing

## MINIFLEX

Manual production line for the production of small batches and prototypes, production capacity up to 500 components per hour.

- always ready, no programming necessary
- precise solder paste application with screen or stencil printing
- solder paste or glue dispensing for prototyping
- precise placement of fine pitch components and BGA
- best soldering quality with controlled convection oven
- integrated repair system



## Semiautomatic production of small batches

### MIDIFLEX

Semiautomatic production of small batches and complex prototypes, production capacity up to 1000 components per hour.

- high reproducibility due to semi automation
- consistent paste printing with guided squeegee
- computer guided component placement
- high throughput and assembly security
- fast and easy programming
- best soldering quality with automatic convection reflow oven



## Automatic assembly

### **FLEX**

Efficient assembly of small and midsize batches, production capacity up to 2500 components per hour.

- reproducible process quality independent of operator
- automatic control of printing parameters
- precise automatic solder paste or glue dispensing
- fast component placement with high accuracy
- programming by teach-in or CAD data conversion
- perfect soldering results with conveyor reflow oven



## Flexible automatic production

### **HYFLEX**

Highly flexible production line for the assembly of prototypes and series, production capacity up to 5000 components per hour.

- change over during production
- fast setup, short time-to-market
- ideal for production with high product mix
- programmable, reproducible stencil printing
- perfect placement of all SMD types
- programmable reflow oven with high capacity





## Inline cell production

### **SUPERFLEX**

- Fully automatic production, capacity 4'000-10'000 components per hour
- All SMD components
- fast setup and changeover
- fully automatic stencil printing
- high speed automatic glue dispensing
- modular placement cells, flexible and redundant
- full convection reflow process for perfect soldering results



## High Speed / High Mix

### MEGAFLEX

- Fully automatic production
- Up to 22.000 cph per module
- All SMD components
- fast setup and changeover
- fully automatic stencil printing
- high speed automatic glue dispensing
- modular placement cells, flexible and redundant
- full convection reflow process for perfect soldering results





## Complete SMT production line from one source

Select one partner for all SMD production line equipment

- Profit from a worldwide service and support network
- Benefit from our large process know how in SMT assembly
- Win a partner for your complete SMT production

Contact us!

[www.essemtec.com](http://www.essemtec.com)

Pick+Place



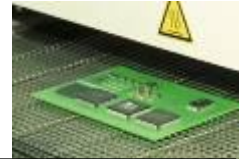
Printer



Dispenser



Reflow Oven



Handling Systems



Planning Systems

