



MODULO PF-PCI

**PRESS  
FIT**

PIN AND  
CONNECTOR INSERTION



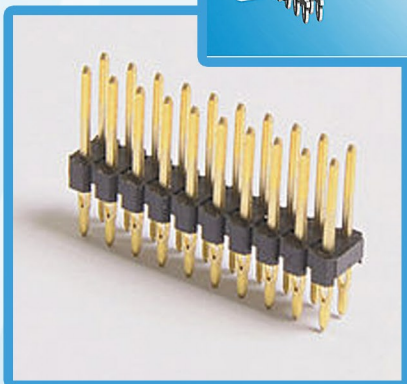
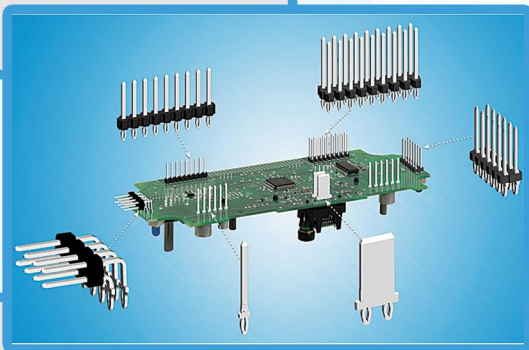
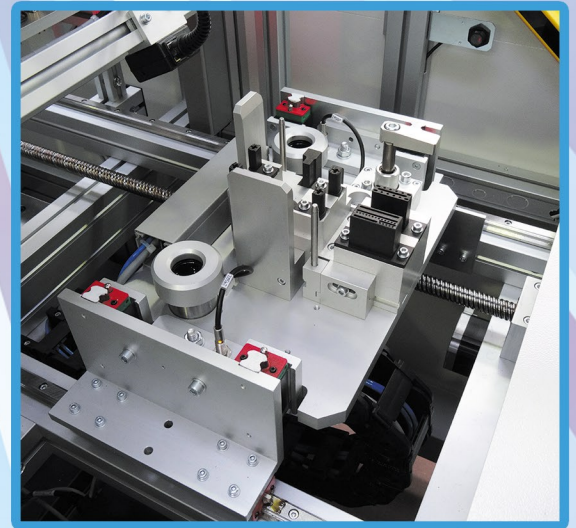
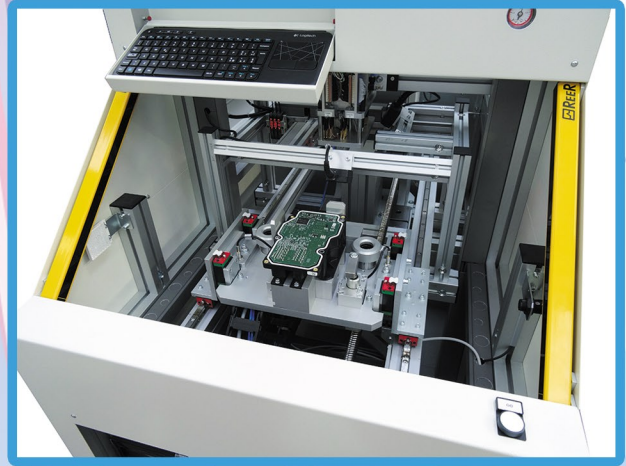
# PRESS FIT

## CONNECTOR INSERTION

Press-fit pin and plated through hole (PTH) summarize together to a press-fit system. The functionality of such a system is dependent of the properties / characteristics of both of the components and their interactions.

The press-fit technology is widely applied in multiple automotive applications. Various customers are using press-fit technology in a great variety of convenient, assistance and safety applications demonstrating the high acceptance of press-fit products and the press-fit termination technology itself.

The principle for a press-fit connection is that a contact terminal is pressed into a printed circuit board (PCB). Seica Automation MODULO platforms combined with performance enhancing accessories provide the flexibility to meet a wide range of customer requirements in the manufacturing of printed circuit boards.





## PROCESS OPTIMISATION



### The advantage of servo presses:

Different connector types have different heights.

A servo press can be programmed, depending

the connector height. With a pneumatic press,

the height has to be adjusted or compensated mechanically which could be complex.

When you have a mix of connector types with different heights, a servo press is a must.

### Force insertion modes:

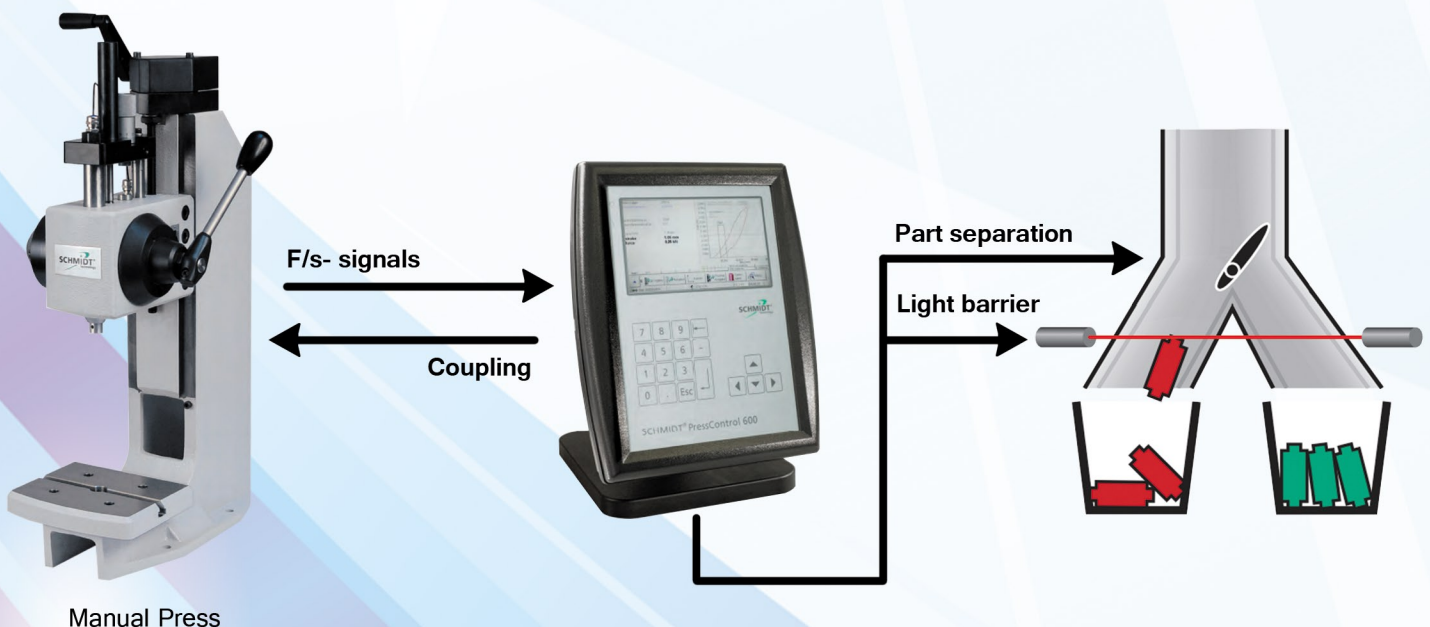
Connectors can be inserted in different controlled 'modes'. The servo presses have a closed loop force and distance measurement system. The state-of-the-art 'Delta force mode' can even detect when the connector housing is against the PCB. This guarantees a perfect insertion.

Seica Automation Modulo Press FIT (Pin – Connectors Insertion) has three different version:

-Manual

-Semi Automatic

-Full Automatic IN LINE VERSION.



Control Unit Valid for Manual Semi and Full Automatic version. All process integrated system elements and data are controlled and managed centrally by the PressControl 600.

The standard system configuration already includes a basic programming, special applications can be programmed as well.

### Integrated Operator Panel

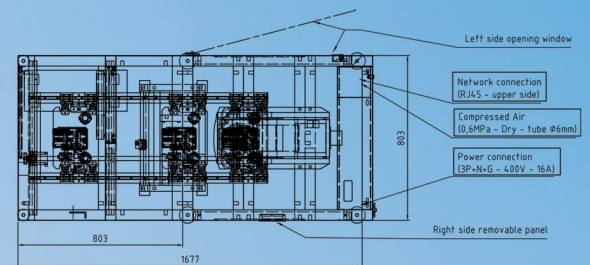
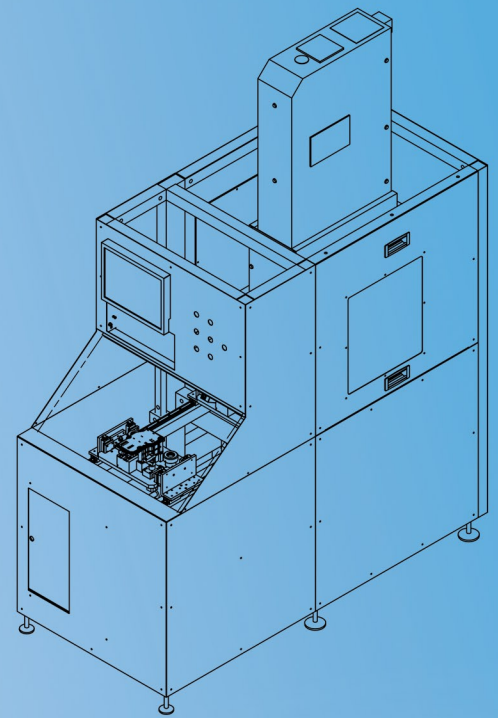
The integrated operator panel of PressControl 600 with complete operating interface is made for parametrizing and operating the control as well as for visualization, administration, and documentation of process data (dataset management).



# QUALITY THROUGH PROCESS CONTROL

## Features

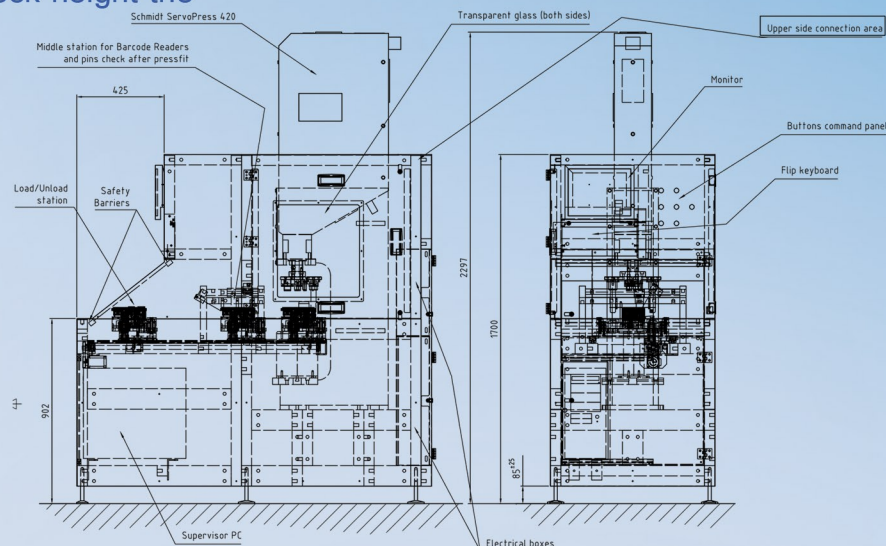
- Superior process control behavior compared to conventional NC axes
  - quick
  - repeatable
  - up to 1200 pins
  - up to 7,5 tons
  - can be optimized for your application
- Intelligent compensation
  - due to calculation of individual tolerances of the parts
  - of system elasticities (dynamic bending compensation)
- Free positioning with changing process forces
  - without fixed tool stop
  - resolution in 1/100 mm range
- Real time evaluation
  - true close-loop control
  - direct reaction to process and quality data
  - no delay caused by low process data transfer
  - immediate availability of SPC data
- Precise and robust mechanical construction
- System is immediately ready for operation
  - standard travel profiles only require the entry of position and speed
  - system automatically parameterizes itself



Seica Automation integration include (on demand) several test for connectors.

- Optical Inspection: A digital Camera looks at every pin.
- Laser System: A guided laser source measure the exit point of connectors pin.
- Electrical Test: By a Bed of nails fixture check height the pins electrically.

SEICA AUTOMATION PRESS FIT include:  
Window Base PC Control  
User Frindly Interface  
Robust Frame  
CE Certification  
Easy access report System



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