

PIN ATTACHER

Exceeding standard pin attacher capabilities



INFOTECH PIN ATTACHER

The Pin Attacher fulfills the pin insert requirements for power electronic modules on DBC and on module-level. Different types of pins that can be fed in loose form are supported. The pins are flipped into the corrected vertical orientation and inserted into the pin housings using force control processes.

The force profile per pin is logged and can be made available as part of the traceability data. Additionally up to six heads can run simultaneously.



MAIN FEATURES

The system is equipped with pin attach process specific components out of Infotech's Component Matrix:

- Up to six fast universal pin assembly heads
- Substrate centering station
- Integrated force measurement
- Bulk goods feeder
- Six-fold flipping station
- Using IC-900 provides a small foot print with 900 mm x 1200 mm
- Includes all automatic calibration options
- Inline capability using trays up to 330 mm in width
- Centering station with force table
- Automatic nozzle changer
- Insert force capabilities up to 200 N per assembly head*
- Bulk goods feeder or tape feeder
- And many more

Throughput*:

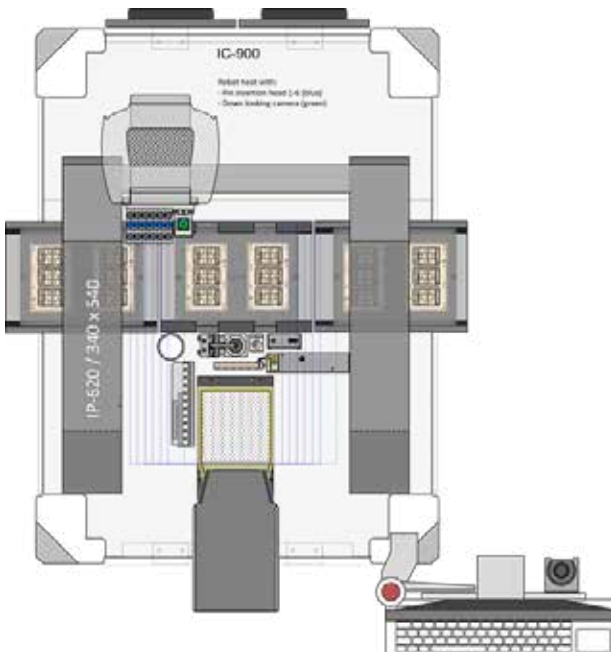
- 2800 with up to 200 N press-in force
- 1400 with 200-300 N press-in force

The force profile for every insertion process is logged and can be transferred to any MES-system as part of the traceability data.

*Depending on the used materials. All values are subject to change

PROCESS STEPS

- Load and center work piece carrier with power modules either on substrate level or on module level
- Substrate alignment using vision system
- Locate correct oriented pins in bulk goods feeder
- Pick up six pins from bulk goods feeder
- Place six pins simultaneously onto flipper
- Flip six pins in simultaneously
- Pick six pins simultaneously from flipper
- Insert pins using force profiling
- Inspection processes of the pin housing before the pin insertion
- Upload traceability data to MES-system



COMPONENT MATRIX

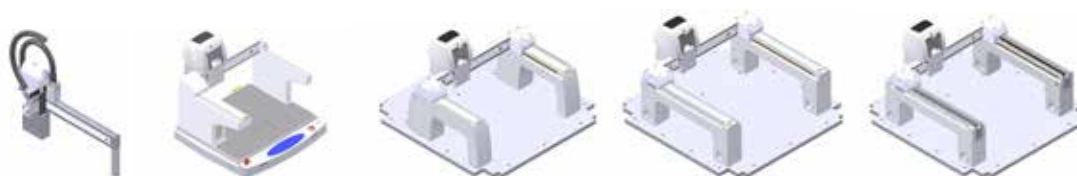
- **More than 1000 modules:** Platforms and cells, head modules, table modules, feeder, test modules
- **A machine configured according to your requirements:**
The Infotech Component Matrix offers a wide range of machine components
- **From the flexible desktop machine to the fully automatic production line**
- Process automation for the applications dispensing, assembling, sorting, handling and testing
- As flexible as specially built application machines, but with a high quality level comparable to standard machines
- **100% of development and 95% of production located in Switzerland**



PRODUCTION CELLS



PLATFORMS



	IP - 100	IP - 500 DESKTOP	IP - 520	IP - 620	IP - 720
TRAVEL RANGE X in mm	93, 148	400	210, 270, 340, 400, 540	210, 270, 340, 400, 540	210, 270, 340, 400, 540

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