

INFOTECH
automation



PIN ATTACHER

Exceeding standard pin attaching capabilities

PIN ATTACHER

The Pin Attacher fulfills the pin insert requirements for power electronic modules on DBC and on module level. Different type of pins are supported which can be fed in loose form. 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. Up to six heads are working in parallel.

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

- Six fast universal pin assembly heads
- Substrate centering station
- Integrated force measurement
- Bulk goods feeder
- Six-fold flipping station
- And more

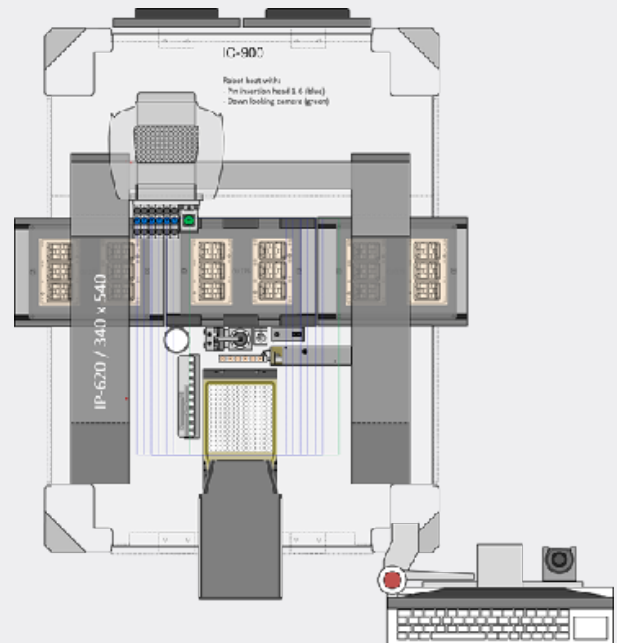
Throughput*:

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 get transferred as part of the traceability data to any MES-system.

Inspection processes of the pin housing before the pin insertion



Process steps PIN ATTACHER

PIN attach process

- 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 in parallel onto flipper
- Flip six pins in parallel
- Pick six pins in parallel from flipper
- Insert pins using force profiling
- Upload traceability data to MES-system

System features pin attacher

- Using IC-900 provides a small foot print with 900 x 1200 mm
- Includes all automatic calibration options
- Inline capability using trays up to 330 mm in width
- Centering station with force table
- Up to six fast pin attachment heads
- Automatic nozzle changer
- Insert force capabilities up to 200 N per assembly head*
- Bulk goods feeder or tape feeder
- Pin flipper for up to six pins

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

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