

INFOTECH
automation



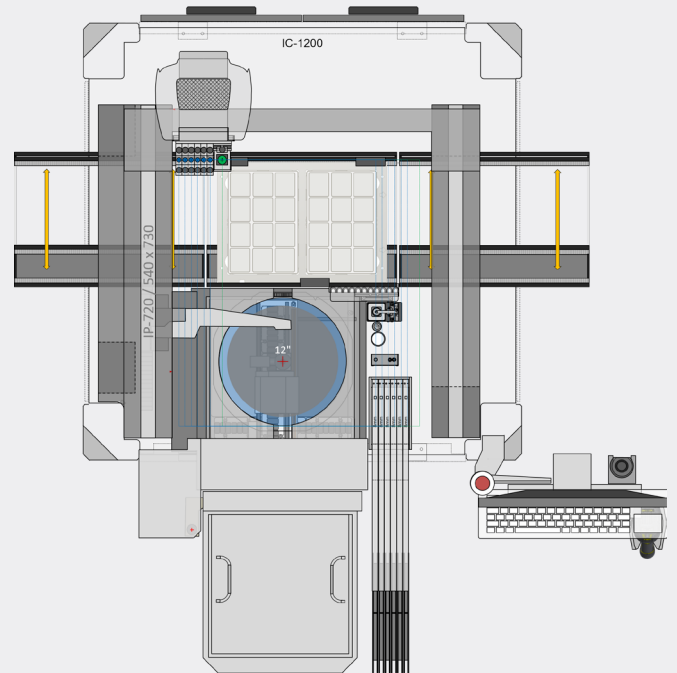
HYBRID BONDER

All-in-one solution for your hybrid modules

HYBRID BONDER

The Infotech HYBRID BONDER fulfills inline automatic die bonding and SMT assembly processes combined with flip-chip bonding, 2½-D assembly, dispensing or dipping/fluxing, thermal or UV curing and many more. The embedded vision systems is indispensable for high precision assembly results as well as for fully automatic calibration and verification procedures.

Out of Infotech's Component Matrix the system is equipped with all needed components, i.e. assembly heads, wafer changer, wafer stretcher, die ejector, tape feeder, fluxer, part flipper, optional substrate pre-heater with integrated force measurement, optional dispensers, 3D-tilt and rotation station, and many more. Components can be identified by the vision system. All process data can be collected and reported together with the final placed results as part of the traceability data to any MES-system.



Process steps HYBRID BONDER

Die bond and die attach bonding

- Load and center work piece carrier, PCB, lead frame or substrate
- Substrate alignment using vision system
- Locate part on wafer or tape based on the information received by the MES-System
- Select die on wafer based on wafer map information and/or ink dot recognition
- Eject die from wafer
- Apply epoxy, flux or conductive adhesives, if required
- Inspect applied dispense result
- Pick and place new component from waffle pack, bulk goods or any other installed feeder
- Optional flip component
- Upload traceability data to MES-System

System features

- The IC-1200 Cell provides a small footprint with 1200 mm x 1200 mm
- Includes all automatic calibration options
- Inline capability using trays up to 330 mm in width
- Centering station with force table and optional pre-heater station
- Automatic changer for pick&place nozzles and pep-pots
- Automatic wafer stretching and alignment, if required
- Availability of peripherals from the Infotech Component Matrix such as preform feeders, wetting station, stack tray feeders, flippers, dispensers, fluxer and many more

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