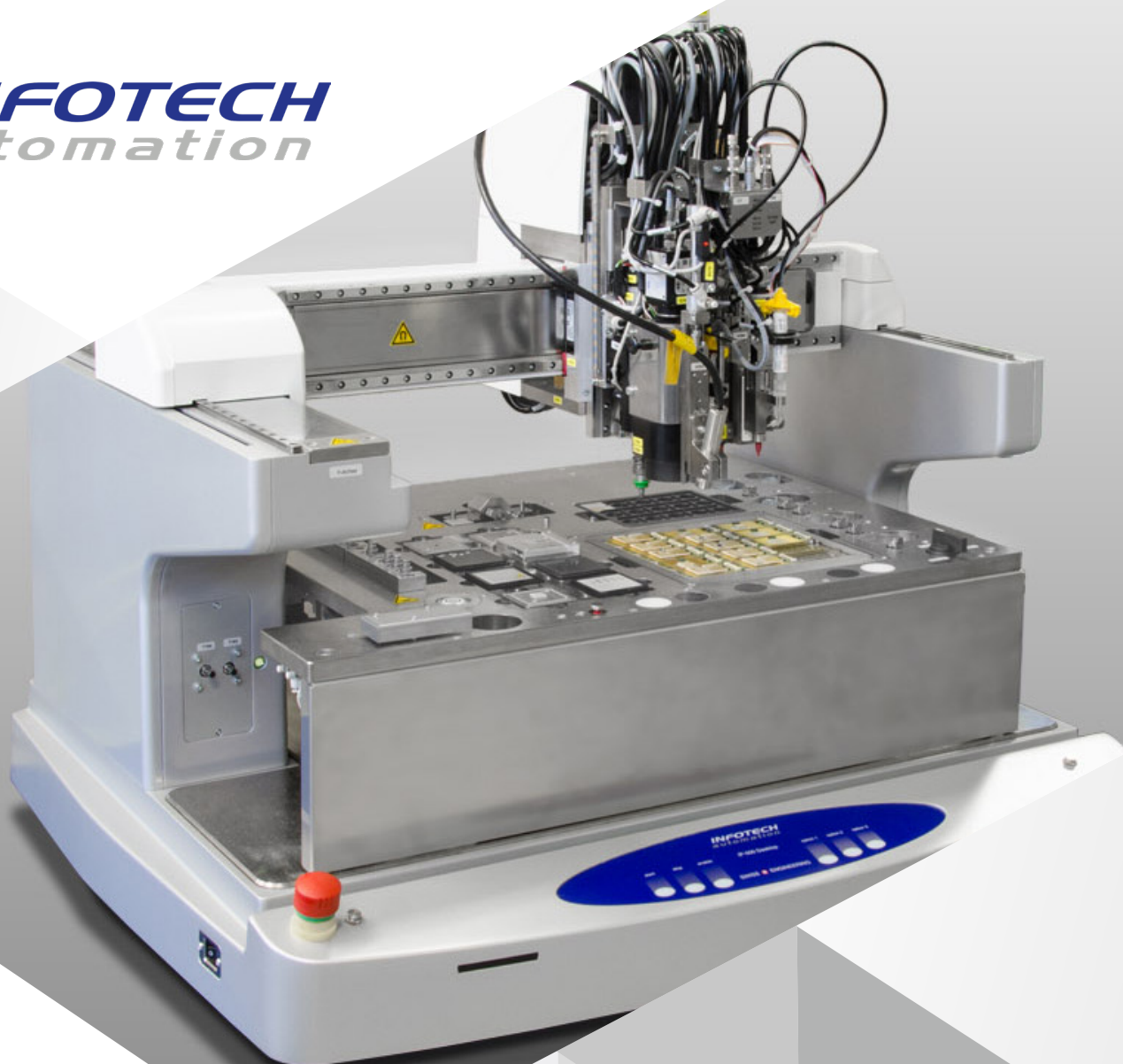


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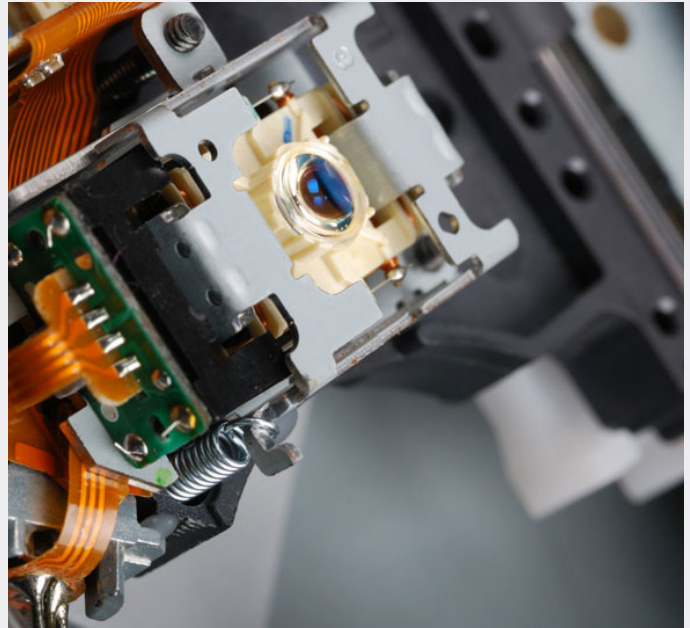
OPTOELECTRONICS

APPLICATION RANGE

In many photonic applications, an optical component (lens, mirror, etc.) is usually aligned to a beam path and mounted with a UV curing adhesive. Thereby, the parts often have to be placed relatively to each other.

By default, our portals cover four degrees of freedom: X, Y, Z (vertical) and theta (rotational). However, they can be expanded with various axes systems to cover the plane-parallelism between substrate and part, tilt angle of the part and other degrees of freedom, too.

Typical applications are the highly accurate assembly of VCSEL diodes on submounts, the handling and assembly of lenses and mirrors, the active and passive alignment or the assembly of an optic or opto-electronic transmitter-receiver system.



Technical Data OPTOELECTRONICS

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

- Using IC-1200 provides a small foot print with 1200 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 pepperpots
- 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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