

IL2000

Chip Inspection System

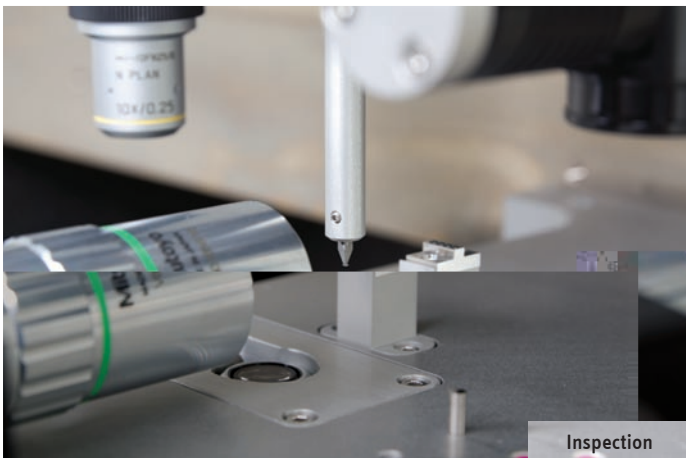


ficonteC
micro assembly machines

IL2000 Chip Inspection System

For side wall inspection of semiconductor chips as well as for the inspection of coated facets the ficonTEC IL2000 is the dedicated machine.

The fully automatic machine acquires high resolution pictures of the surfaces of interest and performs optical inspections based on the user's criteria. A top and bottom side inspection module can be added to this system as well as different material feeding philosophies.



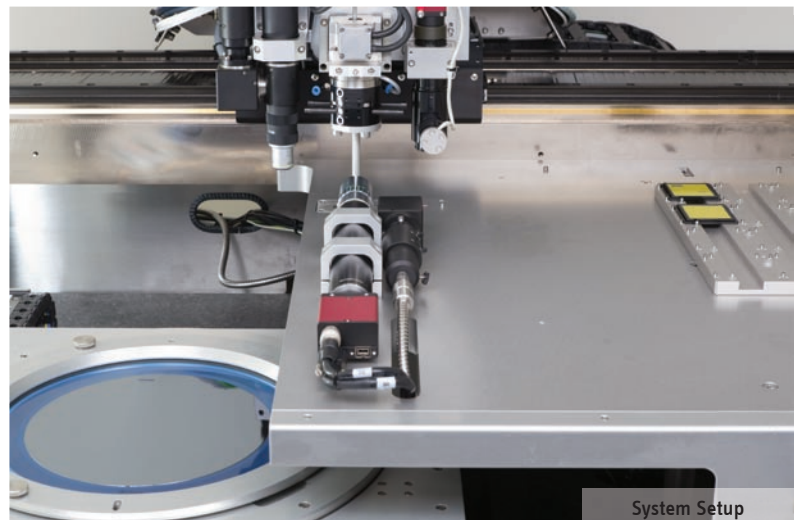
Inspection Engine

The inspection engine builds the heart of the IL2000 machine.

- High magnification imaging system
- Color camera for individual color channel examination
- Köhler illumination
- Flashlamp white light exposure
- 20x microscope optics (50x optional)
- Dedicated vision processing server

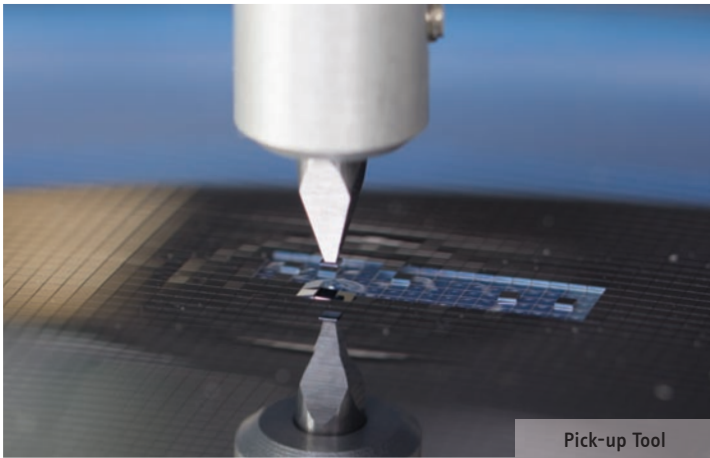
Key Features

- Crack recognition
- Break-out detection
- Prognosis of crack propagation
- Particle recognition
- Dust and fiber identification
- Detailed component/batch/lot tracking
- Individual error catalogue handling



Applications

- Side wall inspection of semiconductor chips
- Facet inspection of laser diodes
- Coating quality control
- Surface inspection
- Die Sorting



Pick-up Tool

Module Approach

For higher throughput and/or lower cost of ownership the IL2000 can be extended by modules.

- Automatic tray handling
- Waferlevel product presentation
- Reel tape feeding
- Testing capabilities (e.g. LIV)
- Top/bottom side inspection
- In-situ labeling



Machine, IL2000

Industrial Grade Usage

- Maintenance-free linear motor motion system
- Granite machine bed
- Turbulence-free sliding doors
- Steel base frame
- Interlocked safety enclosure
- Pneumatic and electric switchboard cabinets
- Control system with industrial PC
- Dual TFT display, keyboard, trackball

Easy Operation Interface

As a unique feature all ficonTEC machines run the same machine software.

- Easy operation
- Excellent portability
- Component tracking throughout the entire machine processes

What we do

ficonTEC designs and produces automated production equipment for the assembling or testing of components.

We are the market leader in the field of equipment for the assembly or test of micro-optics or opto-electronics such as laser diode manufacture, medical technology, security and military engineering, as well as telecommunications.



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ISO 9001 Certification

ficonTEC Service GmbH is licensed to ISO 9001:2008 certification, by DNV GL/Hamburg, Germany.