

Innovative mixed-signal electro-optical test systems for non-singulated photonic integrated circuits (PICs) and other optoelectronic devices. Featuring fully automated DC, RF and optical measurements both on-wafer and for single photonic devices on appropriate carrier formats.





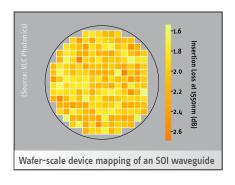






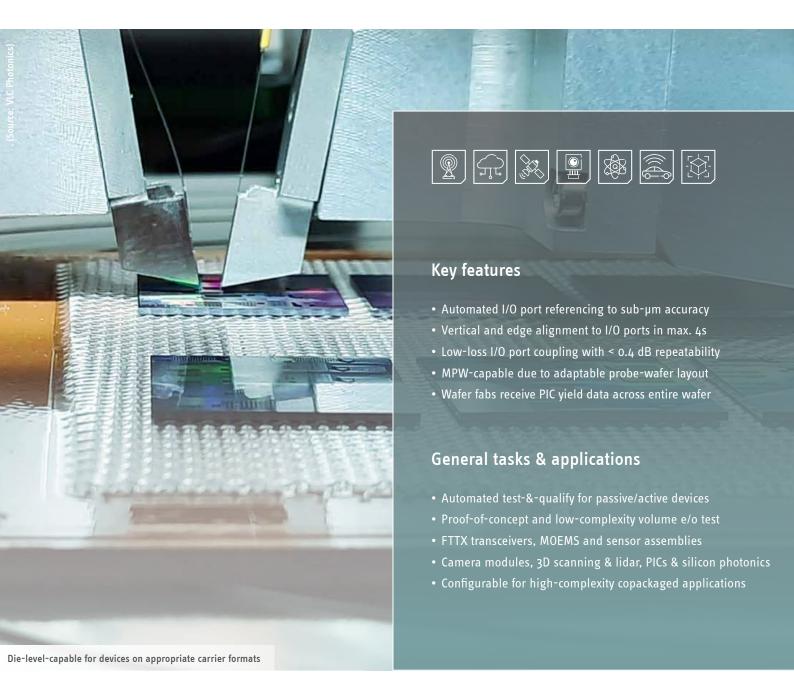
Software control

PCM is ficonTEC's unified process-oriented control interface that ships with all turn-key stand-alone systems and multiple machine configurations. PCM features an intuitive UI and an up-to-date feature set that includes all machine vision, high-resolution positioning, system management software and test routines required to reliably and repeatably drive passive/active alignment and bonding process hardware.









Modular & (re-)configurable

- State-of-the-art 4" to 12" wafer handling options
- · Optional modules expand operational functionality
- Flexibly scalable to suit needs 'From Lab to Fab'
- Add and/or swap modules to re-configure & re-purpose







MANUFACTURING MADE LIGHT

Solutions for integrated photonics. Built to scale.

ficonTEC is the global market leader for automated assembly and test solutions for modern optoelectronics and integrated photonic devices. In serving development and manufacturing needs for telecom/datacom interconnects, sensors & lidar, camera modules, high-power diode lasers and many other integrated applications for over 20 years, ficonTEC's suite of process capabilities is unmatched.

Additionally, a unique and modular approach to production equipment design means that each solution is the automated and optimized embodiment of a customer-defined process.

Contact us

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For ficonTEC subsidiaries in the US and Far East as well as for distributors around the globe:

www.ficontec.com/locations



Core system specifications	WT800	WT1200	WT1600	WT2000
Motion system	single optical probing with 6-axis high-precision alignment* electrical probing with 3-axis alignment	multiple optical probing with 6-axis high-precision alignment* electrical probing with 3-axis alignment		
Wafer table	up to 4" wafers (+/- 100° rotation only)	up to 12" wafers (+/- 100° rotation + xy translation)		
Temperature control	temperature-controlled chuck, +15 to +80 (+/- 0.1) °C			
Handling options (wafer)	manual loading		manual loading or wafer feed system	
Handling options (die)	manual loading		automated loading	
Machine vision	system referencing and observation camera options device and I/O port referencing			
Software features	flexible and powerful process programming extended operator-less control Windows 10 PC			
Minimum connections	120 VAC (or country specific) air/vacuum 100 Mbit/s network			
Cleanroom compliance	ISO 6**			
Physical features	rugged steel base production cell			
Dimensions (w x b x h, mm)	800 x 1200 x 1600/2000	1200 X 1200 X 2000	1600 x 1200 x 2000	1800 x 1200 x 2000
Weight (typ., kg)	1300	1800	2300	2500
* alternative multi-axis configurations optional ** others available on request				

- All ficonTEC systems are compatible with PXI-based electro-optical instrumentation modules and leveraging of NI's LabVIEW™
 Non-LabVIEW and alternative instrumentation environments are also compatible
- In addition to all driving align-&-attach processes, PCM software also includes Al-based Deep Learning defect recognition capability
- Special purpose cells, robotic systems as well as some Testune functionality can be flexibly incorporated to suit customer needs