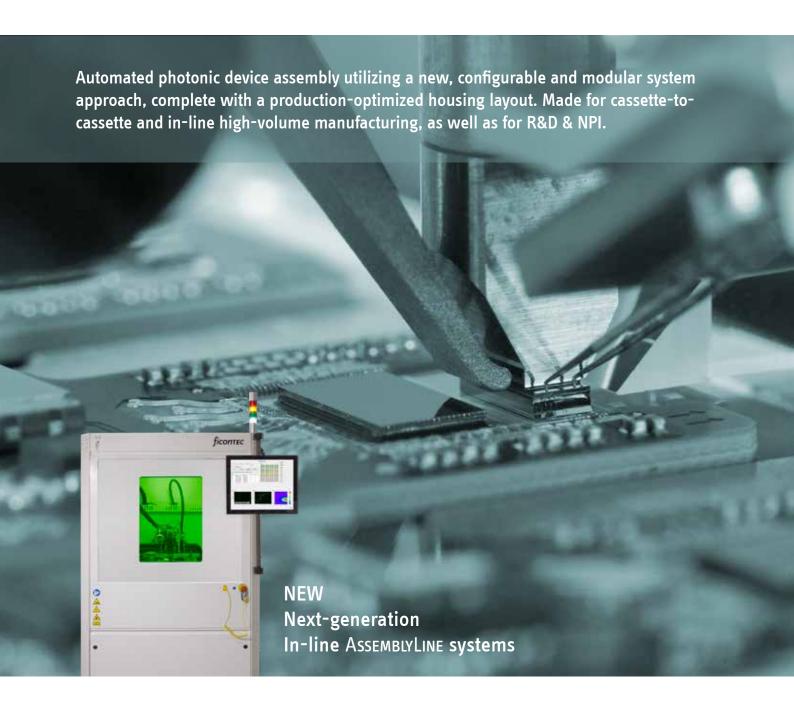
ASSEMBLY LINE A800 / A1200 / A1600









Automated photonic device production

AssemblyLine systems are high-precision stand-alone and in-line assembly machine solutions designed for fully-automated production (align-&-attach) of photonic devices. They uniquely combine fast-active optical alignment capability and flexible attachment configurations with a tried and tested software control interface, all in an end models providing automatic tool changing, optical test functionality and wafer processing capability.

Now, ficonTEC's new, next-generation in-line assembly systems feature a redesigned, production(-line)-optimized platform (800, 1200, 1600). They are available in



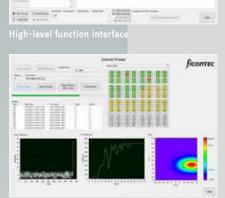


Lens align-&-attach

Software Control

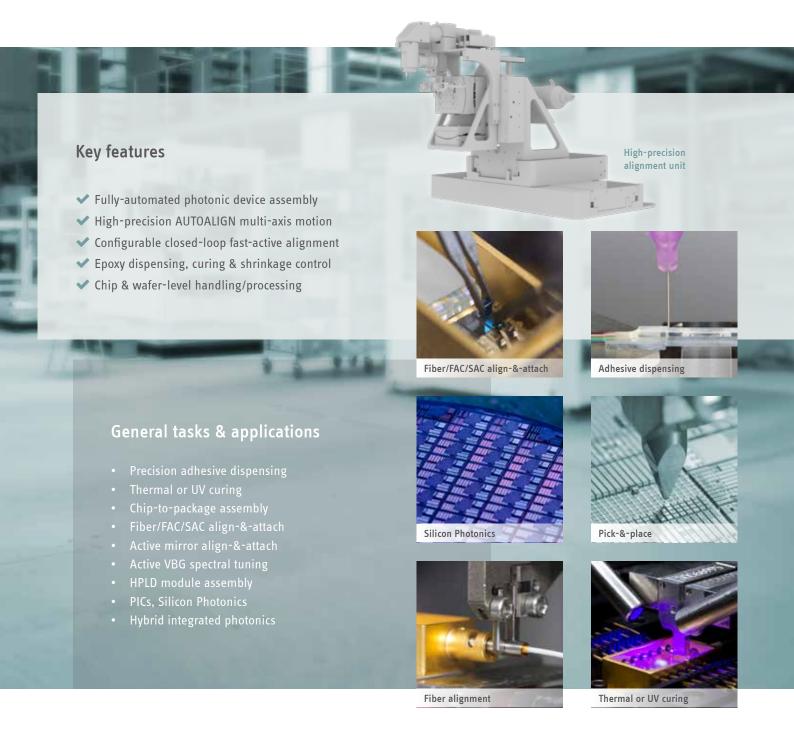
PROCESS CONTROL MASTER (PCM) is our user-friendly and processoriented software control interface that is shipped with all turnkey systems and multiple machine configurations. PCM features an intuitive UI that includes all machine vision, high-resolution positioning and system management routines required to reliably and repeatably drive passive/active alignment and attachment/ bonding process hardware.

PCM is already fully enabled for automated electro-optical test and characterization tasks and employs Al-based Deep Learning capability for chip facet defect recognition and classification. PCM also monitors and logs single or multiple production line performance and can even sync parallel lines remotely.



ASSEMBLY LINE A800 / A1200 / A1600







Flexible, modular & (re-)configurable

- State-of-the-art feed IN/OUT options
- FAB & HVM-ready scalable and parallelizable
- · Single systems slot into existing production lines
- Daisy-chain multiple systems for production segments
- · Operate, monitor and sync parallel lines remotely
- Add and/or swap modules to re-configure & re-purpose





What we do

ficonTEC is a recognized market leader for automated assembly and testing systems for high-end opto-electronic components and photonic devices, including PICs. Considerable process capability and dedicated assembly technologies have been accumulated in serving requirements for telecom and datacom, high-power diode laser assembly, micro-optical systems, sensing from bio-med to automotive to IoT, and more.

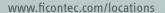
A unique and modular approach to production equipment design means that each system delivered is the automated and optimized embodiment of a customer-defined process.

Contact us

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For ficonTEC subsidiaries and distributors around the globe:





Core system specifications	A800	A1200	A1600
Motion system	gantry system with minimum 6-axis high-precision alignment*	gantry system with minimum 6-axis high-precision alignment* or cantilever system w/o multi-axis system	cantilever system with minimum 6-axis high-precision alignment*
Handling options	single conveyor	single or dual conveyor	
Wafer capable	no	up to 6"	up to 12"
Machine vision	standard/dual positioning and observation camera options		
Feed options	suitable for Jedec or Auer boats, or for customer trays		
Software features	ergonomic, flexible and powerful process software - extended operator-less control - remote control server option		
Physical features	rugged steel-base production cell - access door lifts vertically without affecting footprint		
Minimum connections	400 VAC (or country specific), air/vacuum, 100 Mbit/s network		
Cleanroom compliance	ISO 6**		
Dimensions (w x b x h, mm)	800 x 1200 x 1600/2000	1200 x 1200 x 1600/2000	1600 x 1200 x 1600/2000
Weight (typ., kg)	1300	1800	2500
* alternative multi-axis configurations optional ** others available on request			

* alternative multi-axis configurations optional ** others available on request

ASSEMBLYLINE systems are suitable for in-line applications in high-volume manufacturing (HVM), including multiple production lines operating in parallel and in sync, optionally via remote control. Custom systems and special purpose cells and robotic systems can be flexibly designed and incorporated to suit customer requirements.