

CHAD EPOXY BONDING SYSTEM (EBS)

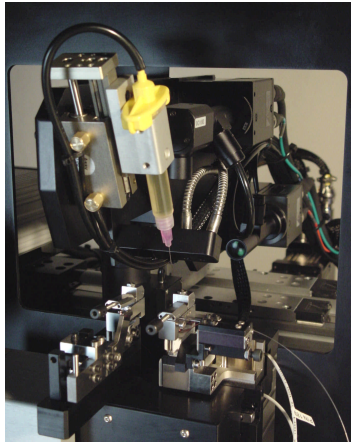
SYSTEM OVERVIEW

CHAD Industries' NanoBonder EBS is a standardized semi-automated assembly station for building fiber optic components.



Unlike any other, this platform contains all the tools an operator needs to assemble both passive and active components using UV-cure adhesive, thermal-cure adhesive, or a combination of the two processes. The NanoBonder system can cover all aspects of the process, from prepping the piece parts to auto-alignment, adhesive dispensing, curing, and in-line testing.

The NanoBonder EBS platform offers scalable solutions with the precision and reliability necessary to profitably take epoxy-bonding processes from the lab floor to the production floor.



The unique industrial design and intelligent algorithms minimize alignment and bonding cycle times while maintaining maximum coupling efficiency throughout the bonding process. The results are high quality components accompanied by high production yields.

KEY COMPONENTS

- A NanoStage for precision component alignment. The exact NanoStage model is chosen to fit the application.
- A 3-axis utility stage for positioning of the vision and dispensing systems.

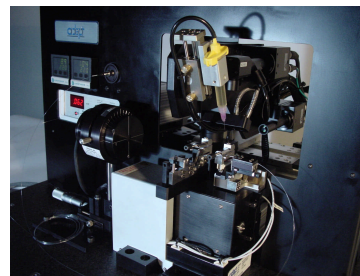
- Two high-magnification cameras, lensing, and lighting.
- An industrial PC and user interface for complete system control.

PROFICIENT DESIGN

The NanoBonder EBS is highly modular, so it is easily configured to handle a variety of applications. The CHAD NanoWare PC software front-end can be configured to integrate many different types of active alignment feedback sensors, including analog

detectors, auto-ranging power meters, beam profilers, beam finders, tunable lasers, and optical spectrum analyzers. A library of standard Active-X alignment routines can also be applied to maximize the efficiency of the assembly process.

The EBS system is typically mounted to a granite base supported by a sturdy freestanding welded steel frame and surrounded by an attractive sheet metal enclosure. The granite base provides excellent mechanical and thermal stability, as well as precision flatness for mounting. Enclosures provide safety and protection from air currents, which can



disrupt thermal stability of the process. The enclosure provides 19" rack mount space for test and measurement instruments.

For more information on this or any of CHAD's assembly solutions, please visit our website at: www.chadindustries.net.

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