

# CHAD HarnessMate™

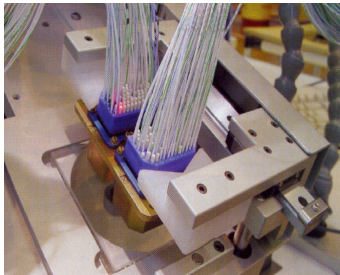
Build Connectors Faster, Minimize Errors

## SYSTEM OVERVIEW

The HarnessMate™ is a patent pending semi-automated connector and harness assembly system. Employing highly functional software and mechanics, the HarnessMate guides connector assembly by pointing a laser dot to the correct location for wire or seal plug insertion.

Developed jointly with the Boeing Corporation, the CHAD HarnessMate has been shown to significantly increase productivity while significantly reducing production errors.

HarnessMate software controls feature an easy to understand graphical interface and a user-programmable database containing any number of connector assemblies.



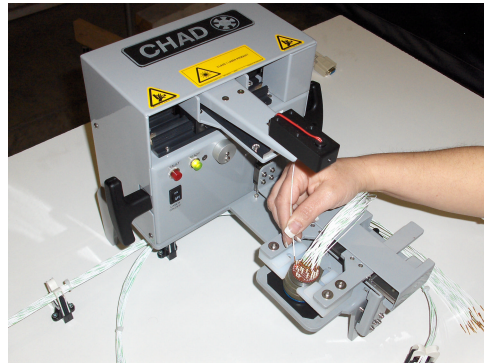
Mechanically, the unit has two key components: The program-mable pointer and the universal connector chuck.

The pointer moves a laser dot over a 4 inch x 4 inch working area. The fast-acting universal chuck accurately positions and grips any round connector from 5/8 inch to 3 inches in diameter.

## OPERATION

The operator selects a connector assembly from the database. The connector is identified and inserted into the Universal chuck. Next, a wire is selected and identified to the software by way of barcode, OCR or direct keyboard input of wire number, color, or other distinction. At that moment, the laser dot moves to the correct hole for insertion of the wire. The

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operator makes the insertion and selects the next wire.

The HarnessMate is highly ergonomic, lightweight and portable, allowing comfortable, fast and accurate assembly at a fixed station, or at points all along a large harness layout table.

## FEATURES

- Low power laser light pointer provides pinpoint accuracy
- Universal connector fixture handles wide variety of connectors
- Self contained - just plug it into the wall and your laptop
- Portable - for use directly on the layout table or bench
- Simple and Intuitive software interface
- Graphical representation of connector assembly
- Accepts bar code or OCR wire label input
- Insertion order by assembler's choice or by computer choice

### KEY BENEFITS

- Yield improvements of 25% or more
- 25% labor savings
- 25% cycle time improvement
- Significant annual rework savings

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