

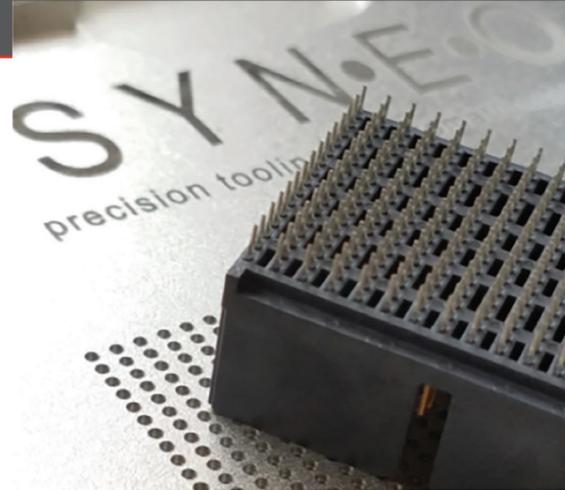
SYNEO – THE RIGHT CHOICE NOW AND FOR THE FUTURE

SYNEO's Pressfit solutions target advanced manual and automatic pressing needs for high-force and high-precision printed circuit board (PCB) applications. SYNEO's Pressfit machines bring enhanced levels of control and force measurement that improve efficiency and yields in the manufacturing and assembly of printed circuit boards. SYNEO's Pressfit machine portfolio is configured for Industry 4.0 connectivity and brings an advanced software suite to the end user, allowing any user to manage applications of the past, present and future.

TIRED OF CRUSHING CONNECTORS? LET SYNEO HELP.

THE SYNEO DIFFERENCE vs. THE COMPETITION

- 400% more press-force resolution.
- True press position measurement using a Z-axis linear encoder.
- Improved rigidity in the Press-Head structure.
- Zero Gap Press Head. Other designs have a dead-zone (gap between press head and structure support) which must be compensated for in the press profile through software. This can provide problems with very small connector applications.



MANUAL PRESSES

SYNEO offers a tiered range of servo electric presses designed to insert compliant pin connectors into printed circuit boards. Each SYNEO press is programmed and operated via a dedicated PC, that can be directly programmed or can also utilize a remote programming workstation that supports multi-machine configurations.

SYNEO's high-resolution press position feedback (0.001 mm true Z-Axis resolution) closely monitors pressing force (even below 1lb) in real time, allowing an operator to be immediately aware of a problem such as a bent pin, an oversized PCB hole, or an incorrectly positioned connector during the press cycle. Instantaneous feedback for board problems improves resolution in quality assurance, improving yield metrics while reducing operating costs.

All press programs, connectors, board layouts, press profiles, and tool part numbers can be stored, so future applications can be easily adapted from existing programs and transferred between machines in multi-machine arrangements. All these functions improve the versatility of the work cell and help prevent future careless errors by allowing users to utilize previously validated information.

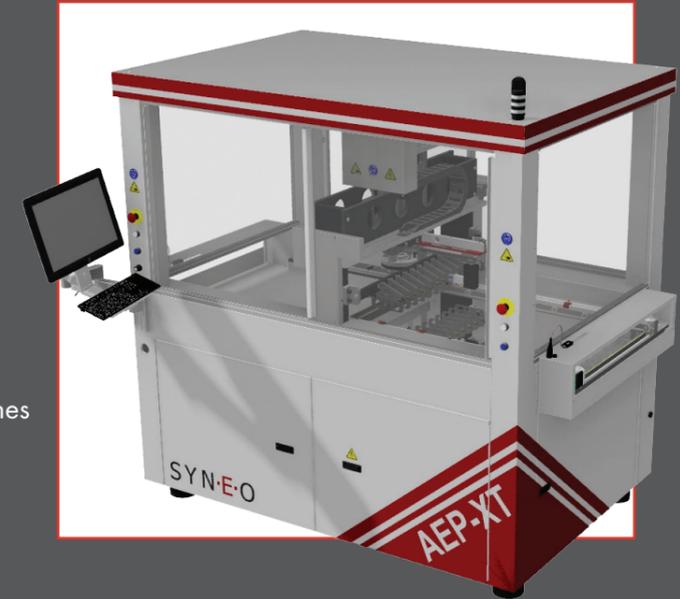


Machine Model	MEP-5TB	MEP-8TM	MEP-8TL
Press Force	5 tons	8 tons	8 tons
Two Stage Force (2SF)	OPTIONAL	YES	YES
True Distance Measurement (TDM)	OPTIONAL	YES	YES
Board Size	580mm x 800mm	680mm x 910mm	830mm X 1060mm
Press Anvil Size	279mm X 38mm	279mm X 38mm	279mm X 38mm
Dimensions	870 x 830 x 1120 mm	965 x 915 x 1780 mm	1095 x 1095 x 1855 mm

AUTOMATIC PRESSES

Introducing the NEW AEP-XT

- 48% smaller footprint than previous AEP's
- Automatic Board Width Adjustment
- Automatic Vision Alignment System
- (TDM) True Distance Measurement to prevent folding pins
- Accommodates a backplane carrying high speed connector
- Uses Dedicated Bottom Fixtures OR Individual Bottom Tool
- Extremely Flexible with Changeover times of less than 1 minute
- True SMEMA Interface – no expensive buffer needed
- CAD Import system to quickly transfer press position information
- Common Software with 1 Click Recipe Transfer Between Machines
- Automatic Profile generation – NO MORE PROFILES TO WRITE
- Industry 4.0 Ready



The next generation has arrived. SYNEO is proud to announce the newest offering for Automatic Presses – the AEP-XT. The AEP-XT was redesigned from the ground up to take on today's most challenging compliant pin connectors. SYNEO has developed several groundbreaking improvements to increase press accuracy of both force and position parameters, which take it to a level far superior to the competition. Stop bending pins now!

Automation Ready. Designed to accommodate the growing needs of an operator free connector assembly line - this unit is 100% compatible with pick and place equipment. Designed around a true SMEMA Interface, the AEP-XT does not require any expensive or complex buffers between production equipment to function. Install your upstream and downstream automation equipment and start pressing connectors.

Ask a SYNEO Representative about AEP-XT in-line integration solutions with one of SYNEO's Pick & Place partners!

Industry Leading Software. SYNEO has worked hard to eliminate programming time and recipe migration by incorporating tools such as the 1 Click Recipe Transfer, CAD Importation Software Module, and Automatic Profile Generation. Automatic Profile Generation allows the user to enter very basic connector information - and the software will automatically generate the required profile to accurately press the connector.

Smaller Footprint. Designed to be the "right size" to save you space on your production floor - the AEP-XT was designed with a nearly 50% smaller footprint compared to previous generation AEP's.



Machine Model	AEP-XT	AEP-8T
Press Force	3 tons	8 tons
True Distance Measurement (TDM)	Yes - 0.001mm Resolution	Yes - 0.001mm Resolution
Board Size	914mm x 610mm x 12mm	1200mm x 900mm x 12mm
Connector Size	150mm x 50mm	150/250/400mm x 25.4mm
Dimensions	2.3m x 1.2m x 2.3m	3.1m x 1.7m x 2m