PRESS-FIT Technology
AXON’ MECHATRONICS, your technological partner specializes in the design of products and components using Pressfit technology. This innovative technology is particularly suited to the design of connectors and printed circuit boards, integrating solderless interconnect terminals.

>> TECHNOLOGY
AXON’ MECHATRONICS has chosen to widen its range of products on the basis of E.O.N compliant pins (Eye Of The Needle), because it offers the best compromise between insertion push-in and push-out force. It has been selected by many users concerned about the quality of electrical connections.

>> ADVANTAGES
- Avoids additional soldering processes to save cost and increase productivity.
- Avoids thermal stress of a second reflow phase.
- Allows the use of standard economic plastic resins in the case of overmoulded or assembled connectors.
- Enables excellent mechanical retention and excellent electrical contact after insertion.
- Suitable for use with 1.6 mm thick printed circuit boards.
- AXON’ MECHATRONICS designs and manufactures both components & insertion processes in order to provide a turnkey solution onto the printed circuit boards (PCB).
- AXON’ MECHATRONICS produces on the same platform stamped pressfit terminals and inserted or overmoulded connectors following the requirements of ISO 9000 and ISO/TS 16949 standards.
- Compliant with ROHS environmental standards, compatible with different types of PCB plating.
- Reduces the deformation and damage of the Plated Through Hole (PTH).

>> DIMENSIONS, RAW MATERIAL & PLATING
- Fits to 1.6 mm PCB thickness.
- Raw material: Bronze CuSn6P.
- Thickness of the pressfit zone: 0.6 mm, 0.8 & 1mm.
- Plating: Pure ROHS Sn.

>> R&D
AXON’ MECHATRONICS Engineering, Innovation and Development department works closely with the R & D teams of its clients from study phase to qualification of products and processes. Our expertise in stamping, interconnect products, moulding, insert & overmoulding and assembly processes allows us to support your project development including rapid prototype manufacturing.

>> APPLICATIONS
Pressfit technology can be utilised to a wide range of automotive, electrical and electronic applications including safety critical, control modules, sensors and switches.

>> COMPONENTS & INSERTION PROCESSES
In some applications, the insertion of unit pins replaces moulded or overmoulded connectors to reduce cost, weight and volume of the system. In this case, the connector housing is moved into the finished product cover.
AXON’ MECHATRONICS offers a wide range of semi-automatic and automatic insertion machines for inserting pressfit connections into the PCB. These stand-alone or inline machines can be integrated into electronic PCB manufacturing processes. To ensure optimum quality, AXON’ MECHATRONICS’s insertion systems integrate options to ensure good pressfit insertion such as vision and force monitoring sensors.

>> INSERTION MACHINES

>> TECHNOLOGY

>> ADVANTAGES

>> DIMENSIONS, RAW MATERIAL & PLATING

>> R&D

>> APPLICATIONS

>> COMPONENTS & INSERTION PROCESSES