Press-fit Technology from one Source

As “One-Stop-Supplier” ept offers you long time experience in press-fit technology of more than 25 years. ept's comprehensive knowledge and experience offer a great foundation for the development of cost-optimized connector products – from development including the building of prototypes, over manufacturing of equipment and tools, up to serial production.

Our Performances

With 800 employees and a global network of own production facilities ept as a family owned company offers you highest quality standards and reliability for your press-fit project - all from one source.

Press-fit Machines and Tools

As a perfect addition ept offers competent support for the processing of press-fit connectors on PCB. In addition to a wide spectrum of press-fit machines and tools, we offer the development and execution of customized machines and equipment. As a result, the optimal design of connectors, press-fit zone, assembly tools, process and machine leads to a smooth and sound solution for your press-fit project.

We are looking forward to your request. Please visit our homepage www.ept.de.

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Advantages of Press-fit Technology compared to Soldering Technology

- **Reliable electrical and mechanical Connections**
- **Flexibility**
- **Cost Savings**
- **Environmentally friendly**
- **No need to wash PCBs**
- **Prevention of pollutive substances**
- **No soldering fumes and flux residues**
- **Compatibility with various materials**

Press-fit technology has evolved over three decades to what it is today: a widely recognized, solderless connection between electrical contacts, making it a viable alternative to solder technology.

With ept as your partner in the press-fit technology project, you can count on broad knowledge and high expertise, especially in the subarea of press-fit zone and processing equipment. The subareas of application and PCB are covered with more than 25 years of experience and dozens of them: numerous projects in many different industries such as automotive, industrial, telecom, medical, military and others. Our professional project management with committed and experienced employees will lead your press-fit project to a success, as we have proven for the benefit of many customers.

A reliable press-fit connection can be guaranteed only if each of the four pillars to press-fit technology is taken into account closely:

- **Press-fit zone:**
  - Compliant press-fit section: During the press-in process, the press-fit zone can absorb the deformation of the terminal pin. Thus, resulting forces are being kept to a minimum.
  - Terminal pin (male or female contact): Key Components:
  - ***Gas tight, reliable connection***
  - ***Long term durability***
  - ***Highest reliability and longevity***
  - ***Processing equipment:**
  - Proper and reliable press-fit process including effective and efficient quality control features.

Quality Features of ept's Press-fit Section Tcom press®

- **Performance**
  - High reliability and longevity
  - Mechanical spring capacity
  - Better retention to shock and vibration
  - Temperature range from -40°C up to +150°C
  - Long-term durability
  - Gas tight, reliable connection
  - Prevention of thermal stress on the PCB and adjacent components
  - Avoidance of cold solder joints

- **Environment**
  - Cost effective assembling on the PCB, site on the back side
  - Ease of installation and tuning manufacturing process
  - Simplify manufacturing process
  - No need for flux
  - No need for lead in PCBs

- **Design**
  - No restriction of PCB size or thickness
  - Processability of multilayer boards in varying thickness possible
  - Mixed assembly possible together with solder technology

- **Contact Reliability**
  - With ept’s Tcom® technology, you can count on excellent contact reliability in various applications.
  - Consistent insertion force in both, max. hole and min. hole diameter
  - High retention force in both, max. hole and min. hole diameter
  - Constant insertion force in both, max. hole and min. hole diameter
  - Proper and reliable processibility thru suitable production process
  - Highest reliability in stamping thru coined shape
  - Excellent contact reliability in various applications ranging from high current to high speed
  - High resistance and robustness concurrently with excellent deformation characteristics

- **Scalability**
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**Key Components:**
- Terminal pin (male or female contact)
- Press-fit zone
- Press-fit pin
- PCB, also on the back-side
- Connections
- Reliable electrical and mechanical connection.

**For more details about our choices of different press-fit products, we are pleased to support you.**

**Contact Information:**
- E-Mail: sales@ept.de
- Phone: +49 (0) 88 61 25 01 0
- Visit us at our stand D19 in Hall 5.

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- High retention force in both, max. hole and min. hole diameter
- Low hole deformation thru perfect deformation features of the compliant section
- Prevention of fit silvers
- Low punch-force effect after effect
- No pin rotation thru symmetrical design
- Low contact resistance
- Available in each dimension thus easy adaptation for various applications ranging from high current to high speed
- High resistance and robustness concurrently with excellent deformation characteristics

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