



microPEM® TackSert®: Reduces Installation Complexity and Assembly Time for High-Volume Orders

Switching from a thread forming screw to a TackSert® fastening solution allowed customer to increase the power output of their device without increasing product dimensions.

OVERVIEW

Customer:
**Global Automotive
Supplier**

Application:
**Electric Power
Steering Products**

Solution:
TackSert® Fastener



CHALLENGE

**Increased Power Output Demand for
Electric Power Pack System**

- Wasted PCB space from screw head
- Depth of aluminum casting for screw length
- Time-consuming screwing process
- Need reduced assembly time and cost
- Need tamper-proof, safety-critical solution
- Production for 8 global locations



SOLUTION

microPEM® TackSert

- Alternative to micro screws, eliminating cost of threaded hardware
- Simple, clean press-in installation - no heat or ultrasonics
- Top sheet can be any material
- Low profile head fits where screws can't
- Non-removal ensures Tamper evident applications



RESULTS

**TackSert® delivered 80+% reduced
keep-out space on PCB (9mm vs. 1.8mm)**

- 50% reduction install time (1.5s vs. 3s)
- 70% reduced engagement length (3mm vs. 10mm)
- 89% reduced head height (0.27mm vs. 2.52mm)
- Retention force exceeded by 50+% (200N vs. 415N)
- Met cleanliness requirements
- Global support for all customer locations

