



## microPEM® TackSert® Pin: Custom-Engineered Solution Delivers 50% Reduction in Parts per Units

Design-engineered solution reduced parts per unit – driving significant cost savings in addition to providing tamper-evident features and improved cosmetic look.

### OVERVIEW

Customer:  
**Global Technology  
Company**

Application:  
**HDD Carrier/SSD  
Rack Assembly**

Solution:  
**TackSert® Pin**



### CHALLENGE

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

- Fasten plastic handle of HDD carrier to 2 metal components of SSD rack
- Wanted solution for easy, fast installation
- Drawbacks using screws in assembly process
- 8 parts required – 4 screws, 4 inserts
- Joint strength limitations
- Screws not tamper-resistant
- Screw fastening weakened by creep



### SOLUTION

**microPEM® TackSert Pin**

- Cost-effective alternative to micro screws
- Strong attachment of thin sheets to plastics in compact assemblies
- Eliminates need to tap or use threaded inserts during install
- Low-profile head minimizes protrusion on top panel
- Unique design for reliable, effective performance
- Tamper-evident features



### RESULTS

**50% Parts Reduction with Significant  
Cost Savings**

- New TackSert® Pins reduced parts per unit from 8 to 4
- Provided easy, fast installation
- Improved cosmetic look of the assembly
- 2+ million rack units using TackSert® solution produced annually
- TackSert® production will continue for next-generation carriers

