

Manufacturer of medical products finds prescription for reducing high assembly costs.

Application:
Medical Cabinet Assembly

Challenge

The customer wanted to upgrade their procedures for construction of medical cabinets. The current method used an off-the-shelf self-plugging style blind rivet. Over 50% of the installed rivets required rework to grind down a protruding mandrel after setting. This rework required 10 seconds of additional labor per rivet.

Customer Requirements

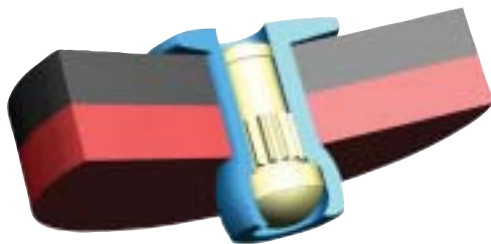
- Increase throughput
- Reduce labor costs
- Minimize noise and vibration harshness

Solutions

Emhart engineers recommended two POP® brand self-plugging rivets with custom flush-breaking mandrels. The combination of the custom domed head and countersink rivets eliminated the inefficient rework requirement completely.

Features & Benefits

- Rattle resistant
- Vibration resistant
- Automation efficient
- Decreased in-place installation cost
- Eliminated grinding procedure



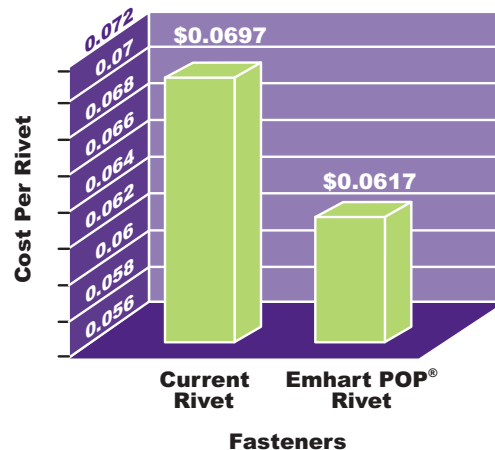
Cost Benefit Analysis

PROJECT DATA

Fasteners per Unit	280
Annual Unit Build	7,000
Total Annual Fasteners	1,960,000

	Present Method	Proposed Method
	<i>All items per piece</i>	
Installation Time (secs)6.0	.6.0
Secondary Grinding per rivet . . .	\$0.018	\$0
Installed Cost	\$0.0697	\$0.0617

Installed Cost



INSTALLED COST ANALYSIS

Savings per Unit	\$2.24
Annual Cost Savings	\$15,680.00