



New Product Bulletin #30

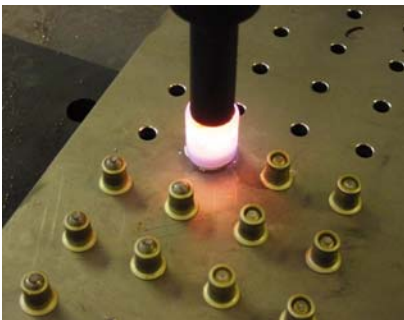
Introducing the PPEM Structural Fastener Removal System



Introducing a "Game-Changer" in the process of airframe structural fastener removal...

The PPEM E-Drill!

- Reduces fastener removal time by up to 80%!
- 5/32" through 5/16" diameter capacity.
- Removes titanium fasteners in 8 seconds, removes aluminum fasteners in three seconds!
- Virtually eliminate airframe damage resulting from current mechanical removal processes.
- Removes most fastener types; hi-loks®, lockbolts, jo-bolt/visu-lok/ composi-loks, eddie-bolts®, blind bolts, solid rivets!
- Removes from either head side or collar/bulb side.
- Cuts any conductive metal - aluminum, titanium, stainless, inconel, etc.



SPECIFICATIONS

Head Flange Removal

Fastener Pin diameter
5/32" to 5/16"

Flange removal time*

Aluminum	3 sec.
Titanium	8 sec.
Inconel	12 sec.

*Approx. based on 1/4" pin diameter

Material

Aluminum, Stainless, Titanium, Inconel, etc.
(any conductive material regardless of hardness)

Physical

Utility Cabinet
Dimensions: 19W" x 38H" x 16D"
Weight: 148 lbs.
Umbilical cable: 30 ft. long

Hand Tool

Dimensions: 7.5L" x 5H"
Weight: 1.5 lbs.

Power

208v, single-phase, 15 amp

All specifications subject to change without notice.

The E-Drill is aircraft safe. Risk of damage to underlying panels is dramatically reduced by E-Drill's depth of cut control which is accurate to .005". Enabled by the patented hand-held EDM (Electro Discharge Machining) technology, the new E-Drill removes fastener locking components allowing for their removal. The cutting process is forceless, eliminating cutting tool drift and drill slip damage.





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Benefits of the PPEM Structural Fastener Removal System

*Below is the Cost Analysis for the Removal of 1,000 Titanium Fasteners**
** = labor; cutting tools, material review board actions*

	Mechanical Drilling	Perfect Point E-Drill
Removal time	100 Hours at 10 fasteners / hour	12 Hours at 80 fasteners / hour
Labor Cost (\$150/ hr, fully burdened)	\$15,000.00	\$1,800.00
Consumables: Drill bits or E-Drill electrodes	\$5,000.00	\$1,000.00
Material Review Board (MRB tags)	MRB Tags / 1000 fasteners: 20 Severe @ \$2,500 ea. = \$50,000 40 Moderate @ \$1,000 ea. = \$40,000 60 Minor @ \$200 ea. = \$12,000 Total MRB: \$102,000.00	MRB Tags / 1000 fasteners: 0 Severe @ 2,500 ea. = \$ 0 10 Moderate @ 1,000 ea. = \$10,000 20 Minor @ 200 ea. = \$ 4,000 Total MRB: \$14,000.00
Total Cost / 1000 Fasteners Removed	\$122,000.00	\$16,800.00

\$105,200.00 savings for EACH 1,000 fasteners removed !



Call for information to set up an on-site demo of the e-drill today!

- Fastener removal in seconds vs. minutes!
- Non-mechanical system—virtually eliminates air-frame damage.
- Low temperature - no damage to composite surfaces.
- Eliminates potential eye injuries from chips in overhead fastener removal applications.
- Reduces repetitive motion injuries.
- Reduced operator training - days vs. months.
- Reduces operator skill or strength necessary.
- Supervisory control of use and work settings.
- Onboard diagnostics—remotely diagnose failures.
- Improved quality control processes.
- Closed-loop system captures contaminants.
- Reduces FOD.
- ***Reduces AOG time and improves capital asset utilization!***

