

E-DRILL[®] FASTENER SEPARATION TECHNOLOGY

Remove hard metal fasteners 20x faster. Reduce damage rates to less than 1%.

Boeing Distribution Services Inc. and Perfect Point have partnered to offer a handheld electro-discharge machining (EDM) tooling system that removes the hardest fasteners quickly and easily. It significantly reduces fastener hole and airframe damage, while providing faster cycle times (average 8-12 sec) with virtually no debris, leading to a very quick return on investment.

Here's how it works: The precision-sized electrode cuts a circular groove in the fastener head leaving a very thin fracture point on the inside of the fastener to allow for easy punch out. A closed-loop water system flushes the area, removes cut debris and prevents heat transfer to the surrounding material, allowing fasteners to be cut on any material - including composites. The system is adaptable to flush head, protruding head and collar side applications.



Contact Boeing Distribution Services for help with all of your tool requirements, or go to BoeingDistribution.com

Saves \$2-\$5 per fastener removed:

- **Added savings** — Reductions in Aircraft On Ground (AOG) time, labor time, material cost and damage/scrap rates
- **Eliminates common maintenance factors** — Less Foreign Object Debris (FOD), personal injuries, exposure to hazardous materials and waste, and training time
- **Better ergonomics** — The E-Drill uses a forceless process, while mechanical drilling exposes operators to all seven ergonomic risk factors
- **Removes all fastener materials and types, including** — Hi-Lok[®], Jo-Bolt[®], CherryLOCK[®], CherryMAX[®], HuckBolt[®], Composi-Lok[®], Stripped/broken screws and more!

BDSI-A

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Accessories

Boeing Distribution Services Inc. offers a complete line of E-Drill accessories that will handle most fastener types from both head and collar side. Adapters are currently available for flush and protruding head applications from 3/32" to 7/16". Collar side adaptors are available from 5/32" to 1/4". The library of fastener types, sizes and materials is constantly expanding and Perfect Point's engineering staff can create custom solutions for many specific fastener removal needs. Precision optical locators and guided punches augment the E-Drill's labor savings and damage avoidance benefits.

Specifications

Fastener Removal:

Fastener Pin Diameter

3/32" to 7/16" (head side)
5/32" to 1/4" (collar side)

Flange Removal Time*

Aluminum 3 sec.
Titanium 10 sec.
Inconel 12 sec.

*Approx. based on 1/4" pin diameter

Material

Aluminum, Stainless,
Titanium, Inconel, etc.

All specifications subject to change
without notice

Physical:

Mobile Service Unit

Dimensions: 19"W x 38"H x 16"D
Weight: 148 lbs
Umbilical Cable: 10' long

Hand Tool

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

Power

220-240v. Single phase
20 amp