

E-DRILL



Perfect Point EDM

At Perfect Point, we're driven by a singular mission: to redefine the future of aerospace maintenance. With a commitment to innovation, we create advanced tools and technologies that revolutionize how maintenance is performed in the aviation industry. Our flagship product, the E-Drill, enables faster, safer, and more efficient fastener removal.

E-Drill Fastener Removal Technology

The E-Drill is a revolutionary handheld device that leverages patented electro-discharge machining (EDM) technology to redefine the way fasteners are removed in aerospace maintenance. Its precision, speed, and safety features make it a game-changer in the industry.

Despite the incredible technological progress made in aviation over the last century, the field of airframe and engine fastener removal has seen surprisingly little innovation. For decades, technicians have continued to remove fasteners using the same age-old methods, relying on twist-drills and cutters. This traditional approach, however, is becoming increasingly obsolete as the aerospace industry advances. The migration to high-strength materials like Titanium and other alloys and complex fastener types such as blind bolt style fasteners have made the removal process more difficult and riskier than ever, resulting in high damage rates and extended maintenance timelines.

In response to the growing need for innovation in the fastener removal process, Perfect Point EDM has introduced the E-Drill System. This revolutionary system, powered by advanced electro-discharge machining (EDM) technology, offers a groundbreaking solution to the challenges of fastener removal. It is designed to swiftly and precisely remove even the toughest fasteners. This process dramatically reduces fastener removal times, reduces the risk of damage to the airframe, improves efficiency, and enhances safety for technicians.

The benefits of the E-Drill are multifaceted:

Improve Productivity: The E-Drill can achieve up to a 20x reduction in fastener removal times, dramatically increasing aircraft turnaround times and reducing downtime.

Reduce Damage: The computer-controlled process paired with enhanced location tooling, ensure minimal risk of airframe damage during the fastener removal process.

Eliminate FOD: The closed-loop water filtration system of the E-Drill continually flushes out and filters debris from the cut process. This eliminates drill shavings and other cut debris found when using a twist-drill.

Enhance Safety: By providing a much more ergonomic process and eliminating the need for forceful removal methods, E-Drill reduces the risk of injuries to technicians.

Cost Savings: Reduced consumables costs, minimized maintenance time, lower repair costs, and increased first-pass quality contribute to significant cost savings.



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