

Omni Jaw 5™

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Conference

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Inventor's Interests and Experience

- Before joining Y-12 in 1999, was principal discipline engineer for Bechtel National
- Currently focused on designing, fabricating and testing new security solutions for Y-12, law enforcement, Dept of Energy (DOE), Dept of Defense and Homeland Security
- 2007 R&D 100 Award winner, RDSS
- 2010 Tech Council's Pathfinder Research Entrepreneur of the Year

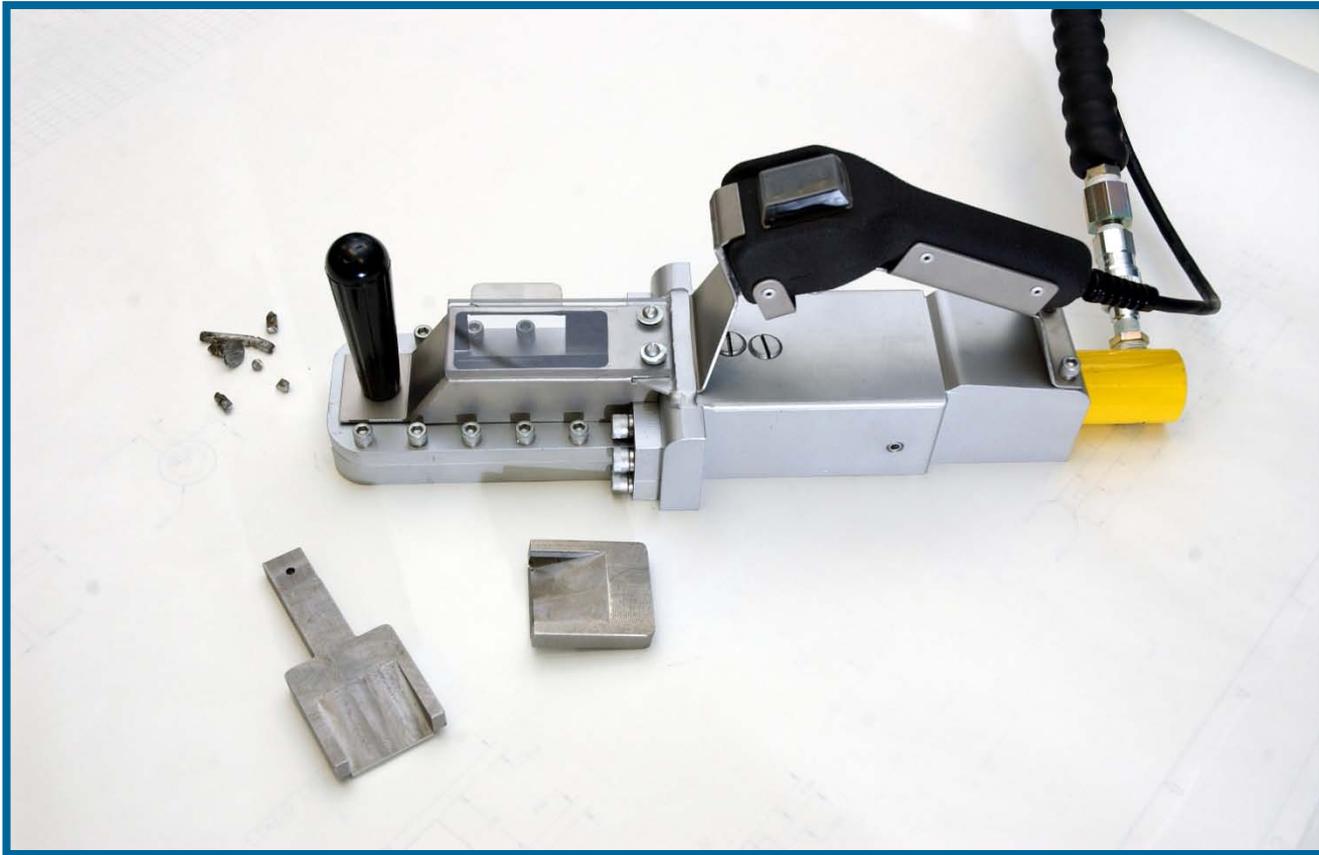
Omni Jaw 5 Description

Originally designed for DOE as a portable cutter for cyanide-dipped bolts holding in place asbestos building panels. Technology cuts and traps the bolt head to eliminate environmental and safety hazards.

Technology is a high-powered hydraulic tool that generates up to 5 tons of force on the cutting jaw. An electric trigger placed ergonomically on the handle actuates it. The longer the trigger is pressed, the greater the force generated. This design allows the tool to use the minimum amount of power required to cut. After the trigger is released, the system automatically resets and the cutting jaw returns to the open position.

Description, cont.

- Patent-protected
 - US 7,673,392, issued March 9, 2010



Description, cont.

- Novelty
 - Strong - generates up to 5 tons of force
 - Ergonomic - electric trigger improves ease of use
 - Safe - traps trimmings to eliminate environmental and safety hazards
 - Portable - weighs 18 lb, including section of hydraulic hose and fittings
 - Fast - cuts bolts in seconds
 - Versatile - with an interchangeable jaw, it can be used as a bolt cutter, punch or shear
 - Precise - leaves surface undamaged

Customer Experience

- Without Omni Jaw 5, customers experience high
 - Environmental management and cleanup costs
 - Insurance and legal costs incurred from on-the-job injuries in the usage of people-powered bolt cutters, shears and punches
- Omni Jaw 5 not only saves time, it reduces company expenses, protects the environment and improves worker safety.

U.S. Market Size

2007 NAICS Code	Industry	No. of Establishments	Sales, Revenue, Business Done (\$1,000)
5629	Remediation Services	9,090	20,460,739
23	Construction	725,101	1,781,778,684
8113	Commercial machinery repair and maintenance	22,749	25,961,742
33271	Machine Shops	21,212	36,453,997
3366	Ship and boat building	1,791	29,207,356

Source: U.S. Census Bureau, 2007 Economic Census

Commercialization Strategy

- Focused on licensing IP
 - Dept of Energy's Start-Up America initiative
 - \$1,000 up-front option fee
 - Y-12 Xpress Terms License
- Technology Readiness
 - TRL 8 – Technology has been proven to work in its final form and under expected conditions
 - No additional applied research needed
 - Regulatory approval not needed
 - No known barriers to industry adoption

Questions/Comments

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