

5375 Western Avenue, Suite A Boulder, CO 80301-2744 Phone: 720.565.9609 info@stratom.com



# ASP-45X™ Toolkit

The ASP-45X **Adaptive Specialty Probe (ASP)™ Toolkit** is a selection of highly efficient tools focused on the needs of the Warfighter and First Responder, providing a capability in remotely negotiating hazards and defeating the dangers associated with an Improvised Explosive Device (IED) or explosive hazard by reducing "time on target" and exposure to the immediate hazard.



The **Sidewinder** is a probing tool for buried or exposed wires. Operator exposes buried wires through probing/scraping and rotates jaws of the platform allowing them to wind up the wire around the tool.



The **Cobra** rake can be used to move debris and other material from around the IED or threat and allows the operator to do remote movements of the threat.



The **Adder** hook can be used for scraping, removing concealing material, and negotiating other obstacles as well as other applications.



The **Viper** is a multi purpose tool used to puncture, cut and pierce suspected IED soft and medium constructed containers. The tool can easily puncture tires, cut wires, and provides the operator with versatile capability.



Users can easily interchange tools via Picatinny Rails and an innovative gripper mounting method.







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# **Toolkit Specs:**

# Environmental

The ASP Toolkit is designed to operate in all climates, weather, temperatures and conditions.

## Adder Hook

Width: 2.28", Height: 3.35", Length: 7.73", Weight: 0.72 lbs Able to hook and lift objects up to the maximum lifting capacity of the robotic arm

#### Cobra Rake

Width: 3.39", Height: 8.10", Length: 4.33", Weight: 0.86 lbs Able to performing raking and searching operations for wire in sandy and loose soil up to the 3.5" and the pulling and downward force capabilities of the robotic platform and gripper / arm

### Sidewinder

Width: 1.86" (closed position), Height: 3.94", Length: 7.76", Weight: 1.49 lbs (set) Able to entrap exposed wire, light cable, rope, etc. and wind the materials up to the rotational limit and torque of the robotic wrist

### Viper Piercing Knife and Cutter

Width: 4.29" (fully closed position), Height: 3.48", Length: 8.78", Weight: 1.61 lbs Piercing: Can penetrate materials up to the limiting force of the robotic platform Cutting: With 30 lbs of grip strength the Viper can cut the following materials while under tension – 8-26 gauge stranded wire, 12-30 gauge solid wire, blasting cap wire, 18 gauge solid bailing wire, Ethernet patch cable, household phone cord, Cat 5e. The long serrated knife edges used in a sawing method can cut 3/8" and smaller nylon rope.

### ASP Toolkit and Case

Width: 16.00", Height: 6.87", Length: 13.00", Max Weight: 12.6 lbs (includes all Gripper Mount Rails in ASP-45X).

- Tools are mounted on the gripper assembly of the iRobot SUGV 310, iRobot
  Packbot 510, QinetiQ (Foster Miller) Talon, and the Remotec FA6 enhancing the
  options of the operator and allowing the use of the tools and the gripper
  simultaneously.
- Additional tools can easily be designed and integrated for future capabilities



Enclosed in hardened case for easy transportation and protection

Patent Pending

# Fact Sheet:

Headquarters: Boulder, Colorado

Certifications & Programs: Service-Disabled Veteran-Owned Small Business (SDVOSB)

Registrations: CCR & ORCA Registered

**DUNS Number: 087030545** 

CAGE Code: 33AC3

Quality Management & Safety Certifications: ISO 9001:2008 Registered

Facility Clearance: Top Secret





Certified and Verified
Service-Disabled
Veteran-Owned
Small Business