About SURVICE Engineering

SURVICE Engineering Company has over 40 years of experience in supporting the U.S. Department of Defense (DoD) and industry with specialty engineering services and design expertise. SURVICE currently has operations located across the continental United States. One such example is the Applied Technology Operation (ATO). ATO is located just outside Aberdeen Proving Ground, MD, and focuses on leading-edge research and development across engineering disciplines.

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SURVICE's Drone Research Facility

ATO's 15,000-ft^2 Drone Research Center provides development and testing of the latest in unmanned multirotor platforms and integration of custom payloads and autonomous technologies. It supports advanced prototyping capabilities, including custom electronics, high-performance computing, and the latest in virtual reality and augmented reality visualization. While specifically targeting tactical applications supporting the DoD, many of the developed and integrated technologies range from military to commercial applications. We recently added a second 10,000-ft^2 production hangar to accommodate the Tactical Resupply Unmanned Aircraft System Program of Record awarded to SURVICE by U.S. Navy PMA-263.

The facility is Federal Aviation Administration (FAA) certificate of authorization (COA)-certified for Group 3 VTOL flights (120 acres at an altitude of 400 ft). Because it is colocated at the Harford County Airport, SURVICE has access to dedicated flight space for operating our drones, enabling us to conduct flight testing in a secure and safe space.

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eVTOL

ELECTRIC VERTICAL TAKE-OFF & LANDING

Grazer-A

The Grazer-A is a U.S. Army platform specifically designed and built as a developmental unmanned aircraft system (UAS) for academic use. Designed with built-in computer vision hardware on an agile airframe, the Grazer-A provides an open platform for research and development.

Eagle

The Eagle is a SURVICE-built, National Defense Authorization Act-compliant vehicle capable of carrying 7.5 lb. It utilizes the same standardized mounting system and the same technologies as the larger TRVs and is an ideal platform to test new technologies before scaling to larger platforms. With full payload, the gross vehicle weight is under 20 lb, making it a Group 1 UAS, able to be flown in a variety of airspaces under FAA Part 107.

Tactical Resupply Vehicle

The tactical resupply vehicle (TRV) family of drones, developed in collaboration with UK-based Malloy Aeronautics, represents field-proven capability at tactically significant payloads and ranges.

Medium/Heavy Lift:
Objective capabilities: 50–440-lb load capacity

Multirole:
Multirole autonomous unmanned missions focus on assured logistics resupply in a tactical environment

The Last Mile:
Augmentation of existing assets for "last mile" logistics for assured resupply

PAYLOAD (lb)	PLATFORM RANGE (km)		
	EAGLE	TRV-150*	P4-C**
0	18	45	45
7.5	6	45	45
25	--	35	42
50	--	30	40
100	--	18	35
150	--	8	30
400	--	--	20

Numbers are engineering estimates
** Demonstrated/validated (to date)*
*** Theoretical range at sea level on International Organization for Standardization day*

MALLOY AERONAUTICS

The TRV family of tactical drones is being collaboratively developed by the UK-based Malloy Aeronautics and the Maryland-based SURVICE Engineering Company under contract with the U.S. Department of Defense.

TRV-150

80"W x 104"L x 29"H

The TRV-150 is a variant of the Malloy Aeronautics TRV family of tactical drones specifically designed to support assured logistics resupply.
The vehicle's performance was designed around the ability to deliver supplies. It has evolved from this intended purpose and is now the truck of the unmanned aerial vehicle world, carrying anything that will fit under the skids.

National Stock Number (NSN) - 1550-01-713-8527 Unmanned Aircraft, TRUAS

P4-C

The P4-C vehicle aims to deliver a rapid-response solution to a wide range of applications. It has the potential to provide a cost-effective, sustainable alternative to traditional delivery systems with a class-leading, 400-lb payload capacity creating opportunity for new and disruptive mission types.