



# **HAES 400 AERIAL TARGET**

#### Mission

The HAES 400 is an autonomous aerial target used to provide a threat-representative target drone to support the Ground-to-Air Weapon System evaluation and test programs.

#### **Features**

The HAES 400, manufactured by HAES Group (a joint venture of the companies **Ha**cker Model Production and **E**volving **S**ystems Consulting), is constructed of carbon fiber and epoxy-based materials.

The HAES 400 is capable of speeds from 80 km/h (49 mph) to 400 km/h (244 mph) true airspeed at sea level. The drone can achieve flight



altitudes from 30 m (100 ft) above ground level to 3,000 m (10,000 ft) mean sea level. Maneuvers include G-turns up to 12 Gs, and other aerial acrobatic turns.

The drone is launched from a rail system. The drone can be recovered by a parachute recovery system. Recovered targets are repaired, tested and reused. The HAES 400 can carry a full range of current target payloads which include infrared and radar enhancements and a chaff/flare dispenser set.

## **Background**

A realistically moving aerial target provides efficient shooting practice and combat firing for anti-aircraft missile systems SHORAD/VSHORAD, thus improving the quality and efficiency of the gunner/operator training.

Two prototype targets have been built to date, in 2009 and February 2010.

### General Characteristics of HAES 400 V1.2

**Primary function:** Aerial target

Prime Contractor: HAES Group (Hacker Model Production and Evolving Systems Consulting)

Power plant: Combustion engine w/ propeller

Wingspan: 1.9 meters (6.3 ft) Length: 1.35 meters (4.5 ft) Height: 0.56 meters (1.8 ft) Weight: 19 kg empty, 21.5 kg max. Speed: 400 km/h (244 mph) Ceiling: 3,000 meters (10,000 ft)

**Range:** 30 km (18 mi)

Cost: TBD

Initial operating capability: TBD

Inventory: Demonstrators, 2; Active force, 0

### **Point of Contact**

Hacker Model Production a.s., Zahradní 465, 270 54 Řevničov, Czech Republic Tel./Fax +420-313-562-258 or e-mail info@hacker-model.com evolving systems consulting s.r.o., Nám. Dr. Holého 1052/11, 180 00 Praha 8, Czech Republic Tel. +420-604-347-014 or e-mail info@evolvsys.cz

March 2010