

# The Aerobot®

*By Moller International*

# What is an Aerobot®?

- An unmanned aerial vehicle capable of vertical take off and landing.
- Models produced have used both electric and fuel-powered fans.
- Models can be either remotely piloted or flown using available COTS packages for remote/autonomous control.
- Models with various performance characteristics for range, payload and speed

# MI Experience

*Naval Research Lab – Developed multi-duct Aerobot®*

*Harry Diamond Labs – Developed single-duct, fuel-powered Aerobot®*

*US Air Force – Developed Rotapowered, single-duct Aerobot for airfield threat detection and damage assessment.*

*US Navy R&D – Developed and demonstrated a single-duct Aerobot® for sensor deployment*

*CALTRANS – Bridge inspection Aerobot built*

# Our largest Aerobot The 200 XR

*Payload up to 750 lbs*

*8 ducted fans*

*Fuel powered*

*On-board stability and control system*

*Redundant flight control system*

*Speeds up to 100 mph*

*A20M-350 model test flown*



# Our most popular design

*Payloads between 10 to 25 lbs*

*Single duct - 2 fans counter-rotating*

*On board stability system*

*Redundant flight control system*

*Gasoline or methanol powered*

*A15-15 model test flown*



# US Air Force Aerobots

*Delivered to Wright-Patterson AFB*

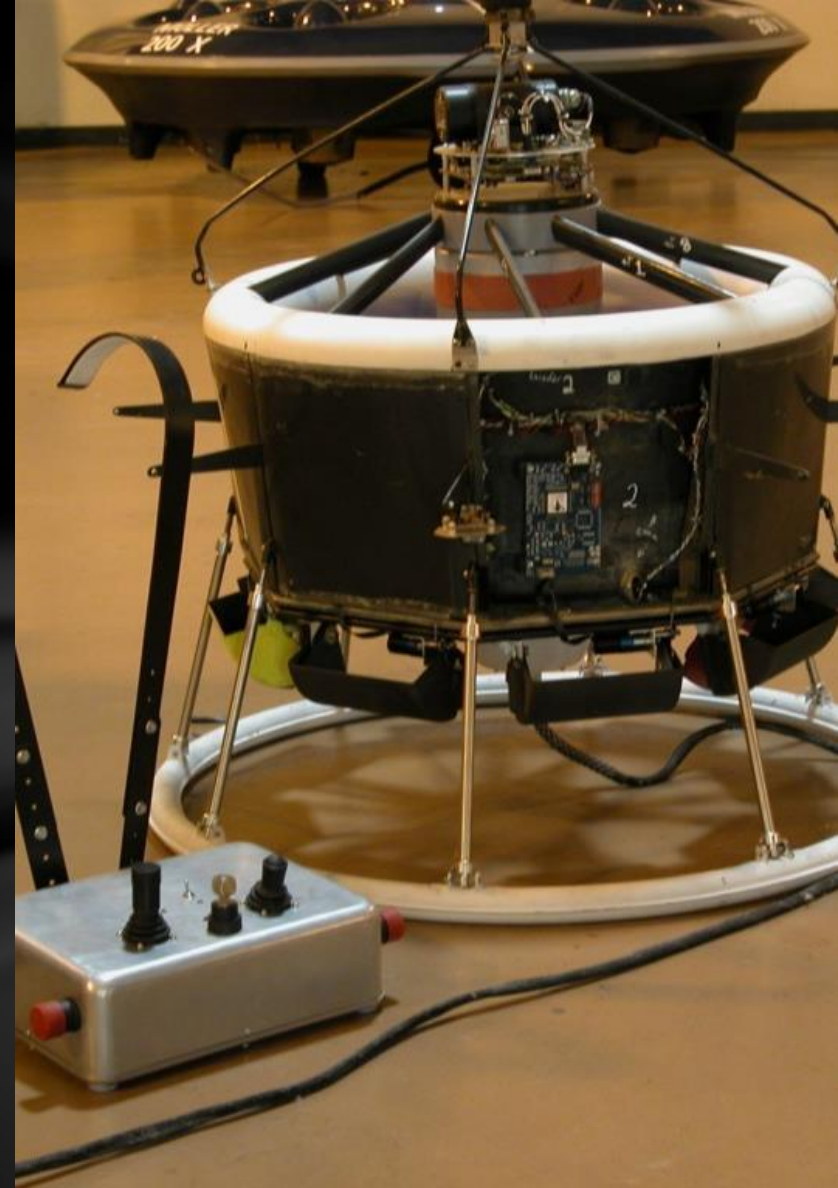
<i>Designation</i>	<i>A24-50</i>
<i>Fan Diameter</i>	<i>24 inches</i>
<i>Power</i>	<i>60 hp</i>
<i>Duct-Engine Wt.</i>	<i>125 lbs</i>
<i>Max Thrust</i>	<i>225 lbs</i>
<i>Net Payload</i>	<i>50 lbs</i>
<i>Max Hover Time</i>	<i>1.0 hrs</i>
<i>Max Projected Speed</i>	<i>60 mph</i>
<i>Max Projected Range</i>	<i>60 miles</i>



# CALTRANS Aerobot

*Delivered to California Department of Transportation (CALTRANS)*

<i>Designation</i>	<i>A15-5</i>
<i>Fan Diameter</i>	<i>15 inches</i>
<i>Power</i>	<i>5 hp</i>
<i>Duct-Engine Wt.</i>	<i>20 lbs</i>
<i>Max Thrust</i>	<i>40 lbs</i>
<i>Net Payload</i>	<i>10 lbs</i>
<i>Max Hover Time</i>	<i>Indefinite</i>
<i>Max Projected Speed</i>	<i>N/A</i>
<i>Max Projected Range</i>	<i>125 ft</i>



# Navy Aerobot

<i>Designation</i>	<i>A11-2</i>
<i>Fan Diameter</i>	<i>4 – 11 inch ducts</i>
<i>Power</i>	<i>2 hp</i>
<i>Duct-Engine Wt.</i>	<i>15 lbs</i>
<i>Max Thrust</i>	<i>25 lbs</i>
<i>Net Payload</i>	<i>5 lbs</i>
<i>Max Hover Time</i>	<i>Indefinite</i>
<i>Max Projected Speed</i>	<i>N/A</i>
<i>Max Projected Range</i>	<i>75 ft</i>

AM-11-2 models delivered to  
Naval Research Lab (NRL)





# Transitioning Aerobots®

- *Higher speed and greater range than our VTOL Aerobots®*
- *"Transitioning" Aerobots are VTOL and able to transform to high-speed forward flight.*
- *Can be either gas or electrically powered*
- *Range of up to 600 miles*
- *Payload up to 750 lbs*
- *Speed up to 350 mph*
- *ATM- 24-250 Wind tunnel tested*



# More Info?

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*AT24-50  
Speeds to 350 mph  
Payload to 200 lbs  
Wind tunnel tested*

