



# HERMES 180

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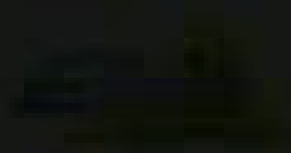
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Silver  
Arrow



Presents

HERMIES 180

Maiden Flight  
15.9.02

# HERMES 180 Design Drivers



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# HERMES 180 Design Drivers

Reconfiguration rather than a new design  
Configured to meet Brigade to Division Requirements

Low Risk,  
High VFM

Robustness / Weather Resistance

Intra-Operability & Interoperability

Rapid Deployment by C-130



No compromise on endurance:  
Less L&R effort,  
multiple missions sorties,  
longer / remote missions achievable

No compromise on High Quality Payloads (weight, volume, power):  
IMINT quality, SAR/GMTI capability,  
survivability by 'standoff' flight

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# HERMES 180



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# HERMES 180

## Icing Resistance

- Icing Sensor
- Pitot Heating
- Active De-Icing by Role-Fit
- Propeller protected by oil

## Platform:

- Ceiling > 15,000 ft
- Endurance > 10 h
- Light Weight, Composite Material Structure
- Installation Space

## Avionics:

- Dual Redundant Avionics
- MIC-FFC Architecture
- Modern, reduced-size & Weight Hw Design based on proven HERMES avionics.



## Parachute:

- Parachute Recovery
- Emergency Recovery
  
- Wheeled or Air-bags Configuration

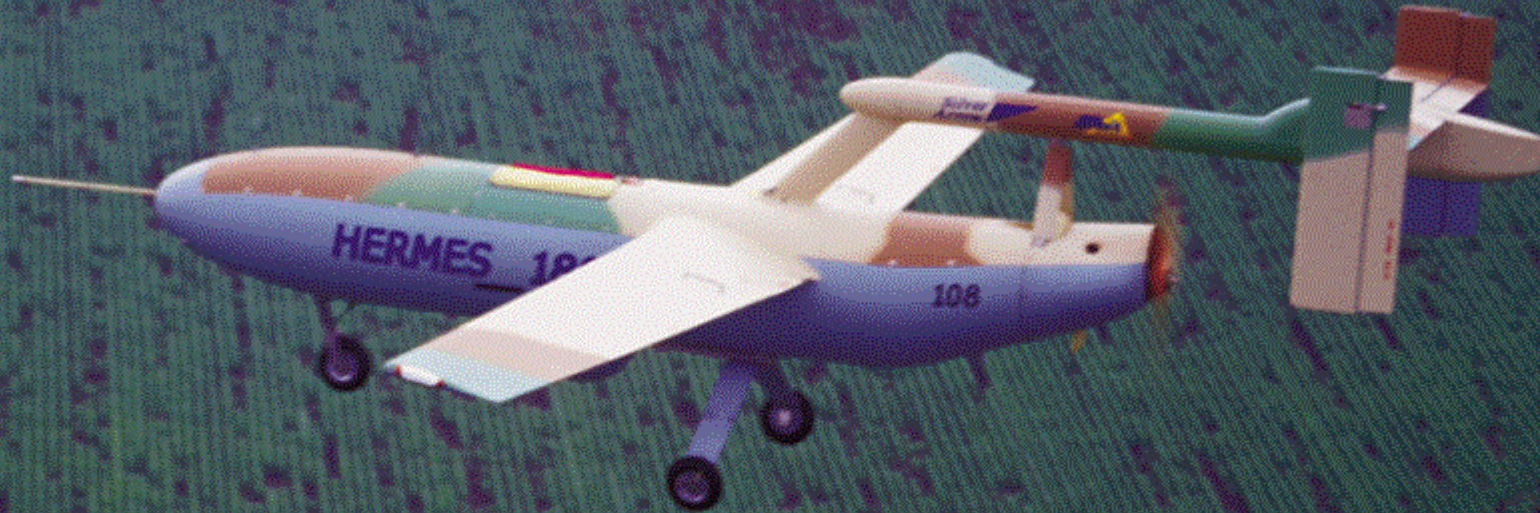
## Engine (UEL 741)

- Proven & Mature
- High Power/weight Ratio
- Low Fuel Consumption
- UK Design & Production

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# Multiple, Field Configurable L&R Methods



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# Multiple, Field Configurable L&R Methods

## Air-Bags Configuration

**Launch by Hydraulic Launcher; Recovery by Parachute and Air-Bags**



### Wheeled Configuration (1)

**Rail Launch & ATOL Landing as main method. Only 100m rough strip is required.**

- Minimize Parachuting
- Shorter Turn-Around time and effort
- Adequate for many peacetime / training / Wartime situations

### Wheeled Configuration (2)

**Wheeled, Automatic Takeoff and Landing.**

- Adequate for situations where longer strip is available
- No launcher required

# Sensor to Shooter Provisions



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# Sensor to Shooter Provisions

High Accuracy target location  
(INS, LRF, processing)

Coordination with Pilots /  
Artillery



Triple sensors  
Payload: CCD, FLIR,  
Laser Designator

C<sup>4</sup>I Integration

Accurate Artillery Adjustment

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