From single components to entire propulsion systems – Our main focus is in engines, modular components and support solutions for any UAV or unmanned system.
RCV Rotary Valve Internal Combustion 4-Stroke Engines from 2.2 to 8.61kW for Small Unmanned Vehicles.

Single, twin or 4-cylinder, off-the-shelf or customized specifically for your unmanned system — configure the RCV engine for your application.

RCV Engines are designed for low emissions, low fuel consumption, and turn-key heavy-fuel operation. With their single-, twin-, and four-cylinder designs, these engines are easy to calibrate and provide consistent performance with RCV Engine’s unique combustion system. With no injectors in the combustion chamber to carbon up, no valve clearances to adjust, and shielded spark plugs, RCV engines have the high reliability and low maintenance that many midsize drone applications require. As the key features demonstrate, the RCV engine fits a variety of applications, including fixed-wing, rotary-wing, hybrid, marine and portable power.

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### DF35
- **Type**: 35cc Single-Cylinder
- **Power (JP8)**: 2.2kW (3.0hp) @ 8500 rpm
- **Weight Complete**: 2.0 Kg (4.4 lb)
- **Fuel / Lubrication**: Gasoline, Heavy-Fuels (Kerosene Based Including: JP5, JP8, Jet A-1) / Oil/Fuel Ratio (25:1)
- **Rotation**: Clockwise or Anti-clockwise (viewing the prop drive)

### DF35LC
- **Type**: Liquid Cooled
- **Power (JP8)**: 2.2kW (3.0hp) @ 8500 rpm
- **Weight Complete**: (3.0 Kg (6.6 lb))

### DF70
- **Type**: 70cc Twin-Cylinder
- **Power (JP8)**: 4.2kW (5.7hp) @ 8500 rpm
- **Weight Complete**: 3.0 Kg (6.6 lb)
- **TBO**: 50 hrs (VTOL), 500 hrs (Fixed-Wing)

### DF70LC
- **Type**: Liquid Cooled
- **Power (JP8)**: 4.2kW (5.7hp) @ 8500 rpm
- **Weight Complete**: 4.8 Kg (10.6 lb)

### DF140LC
- **Type**: 140cc Four-Cylinder
- **Power (JP8)**: 8.61kW (11.5hp) @ 8800 rpm
- **Weight Complete**: 4.8 Kg (10.6 lb)

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- Four-stroke cycle for low emissions and fuel consumptions
- Excellent starting in a temperature range of -20°C to +40°C
- Compact combustion system that offers:
  - Turn-key heavy-fuel operation
  - Stable response to changes in AFR or ignition timing
  - Insensitivity to changes in fuel quality or altitude
  - Resistance to detonation and carbon build up
- Large valve breathing area gives high power with a wide power band
- Offers high reliability, low maintenance and long MTBO with:
  - No injectors in the combustion chamber to carbon up
  - No valve clearances to adjust
  - Shielded spark plug for minimum plug fouling and long life
- Electronic fuel injection system with altitude compensation
- Dedicated spark plug for minimum plug fouling and long life
- Available in air cooled and liquid cooled versions
- Switchable multi-fuel technology that provides the ability to run on any fuel at any time without compromising efficiency or reliability
- CANbus controlled fuel map switching allows multi-fuel capability with no mechanical changes required

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