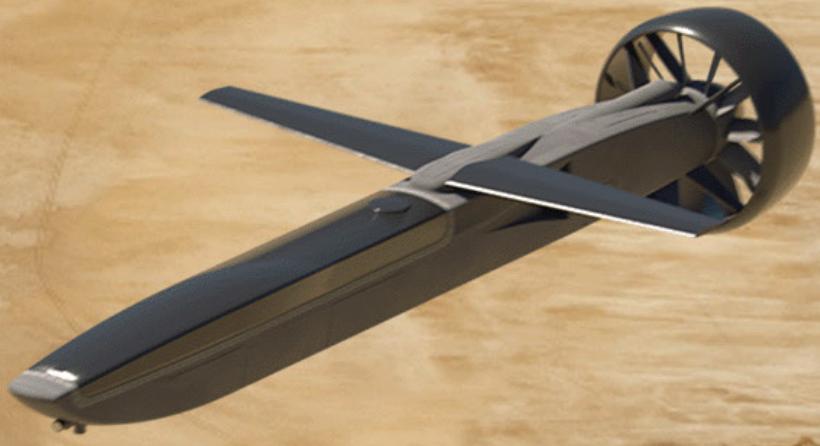


# FDS PROPULSION SYSTEMS

## ROTRON ADVANCED FAN DRIVE PROPULSION SYSTEM

3-AXIS THRUST VECTORING SYSTEM | LONG RANGE | HIGH EFFICIENCY | COMPACT | LOW COST | VOLUME MANUFACTURE  
SOVEREIGN STRENGTH - 100% UK MADE

Introducing the next generation of uncrewed aircraft and propulsion system technology. Rotron's breakthrough Fan Drive System (FDS) redefines the limits of long-range strategic air systems, delivering a step-change in fuel efficiency and performance.



- Engineered specifically to achieve high combat mass, utilising non-complex supply chains for high-volume, cost-efficient manufacture to outcompete conventional turbojet and turbofan architectures.
- The FDS achieves up to four times the operational range while matching the speed and agility of gas turbines across the 50 - 450kg payload class - at a fraction of the cost.



PARAMETERS	R150-FDS	R250-FDS	R350-FDS
<b>Payload Weight</b>	UP TO 50 KG	UP TO 100 KG	UP TO 300 KG
<b>Nacelle / Fan Diameter</b>	590 mm / 23 in	720mm / 28 in	830 mm / 33 in
<b>Length</b>	780 mm / 28 in	940mm / 37 in	1028 mm / 41 in
<b>Weight</b>	44 kg / 90 lb	65kg / 143lbs	87 kg / 191 lb
<b>Thrust</b>	1,560 N / 350 lbf	2,280 N / 590 lbf	3,440 N / 773 lbf
<b>Shaft Power Output</b>	55 kW / 74 HP	120 kW / 160 HP	164 kW / 220 HP
<b>Fuel Consumption</b>	21 litres per hour (28 L/hr at max power)	45 litres per hour (60 L/hr at max power)	62 litres per hour (82 L/hr at max power)
<b>Speed Range</b>	350 – 750kmh	350 – 750kmh	350 – 800kmh