

TALON DT-300

GROUP 3 UAS, FULLY ELECTRIC, MULTI-ROLE UAV SYSTEM
INDUSTRY LEADER IN: • PAYLOAD • RANGE • COSTS • DEPLOYABILITY

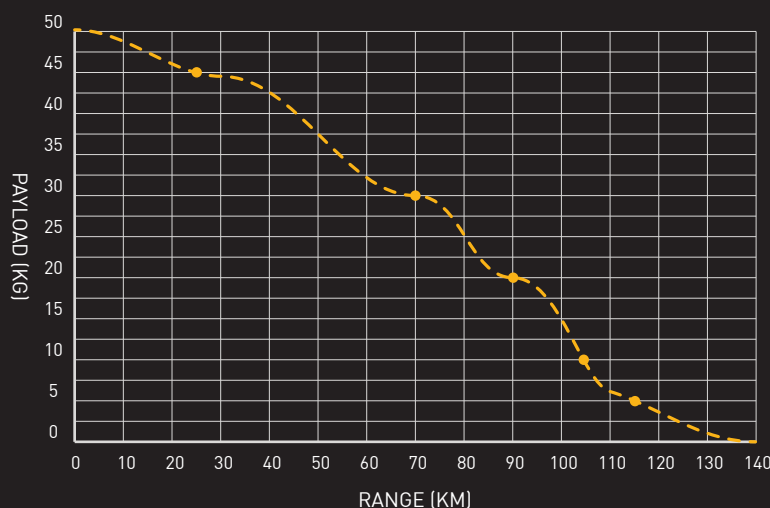


AIR LAUNCH DRONES FROM DT-300 MOTHERSHIP

The **TALON DT-300** is a fully electric, highly versatile VTOL payload delivery system designed for rapid deployment and repeated use. Equipped with an advanced automated twin rotor, it sets a new standard in the industry — reducing costs while enhancing operational efficiency.

The **DT-300 Mothership** enables air-launched drones to be deployed up to **40KM (25MI)** from base using a wideband rebroadcast system. Each drone can then travel an additional **15KM (9.3MI)** to reach its target. The system supports the deployment of up to **8 drones**, each capable of carrying a **1.5KG (3.3LBS) payload**. These drones acquire targets optically before autonomously navigating to their destination.

PERFORMANCE DATA



PAYLOAD V RANGE METRICS

PAYLOAD		MAX RANGE (ONE WAY)	*DROP RADIUS (OUT & RETURN)
0KG	(0LBS)	140KM (87MI)	70KM (43.5MI)
5KG	(11LBS)	115KM (71MI)	58KM (36MI)
10KG	(22LBS)	105KM (65MI)	55KM (34.2MI)
20KG	(44LBS)	90KM (56MI)	50KM (31MI)
30KG	(66LBS)	70KM (43.5MI)	45KM (28MI)
45KG	(100LBS)	25KM (15.5MI)	15KM (9.3MI)

*FLY OUT WITH PAYLOAD – DROP PAYLOAD – RETURN WITH ZERO PAYLOAD

ZERO PAYLOAD INCLUDES RAPTOR EO/IR CAMERA AND DTC LONG-RANGE DIGITAL DATA LINK (UP TO 60KM / 37MI LOS)



LEARN MORE

 **MADE IN
BRITAIN**





ROTOR SIZE
2 X 3.5M (11.5FT)



MTOW 90KG (200LBS)
(WITH 45KG / 100LBS PAYLOAD)



CRUISE SPEED
80KM/H (50MPH)



BOXED DIMENSIONS
L:155CM W:73CM H:54CM
L:61" W:29" H:21.2"



MAX DROP RADIUS 45KM (28MI)
(WITH 30KG / 66LBS PAYLOAD)



MAX RANGE: 140KM (87MI)
30KG / 66LBS PAYLOAD: 70KM / 43.5MI



ENDURANCE
2HRS (10KG / 22LBS PAYLOAD)



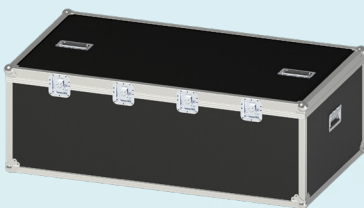
MAX ALTITUDE
5,000M (16,400FT)

**MADE IN
BRITAIN**

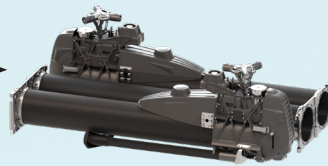


BAE - APKWS MISSILE LAUNCH, UP TO 7KM / 4.3MI.

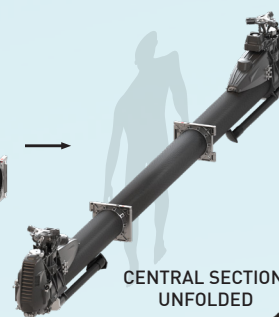
FLIGHT READY IN 5 MINUTES



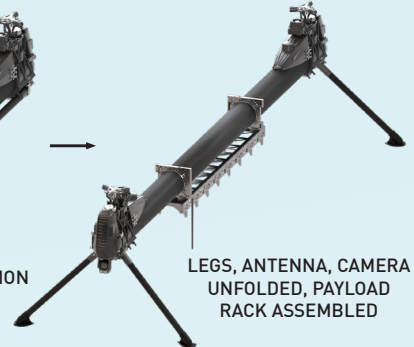
EASILY STORED &
TRANSPORTED (SUV)



FOLDED DT-300
REMOVED FROM BOX



CENTRAL SECTION
UNFOLDED



LEGS, ANTENNA, CAMERA
UNFOLDED, PAYLOAD
RACK ASSEMBLED

- **SURVIVABLE:** EQUIPPED WITH HARDENED GPS, FREQUENCY-HOPPING DATA LINKS, AND AUTONOMOUS FLIGHT CAPABILITIES ENSURE RELIABLE OPERATIONS IN JAMMED AND GPS DENIED ENVIRONMENTS. VERY LOW NOISE AND RADAR SIGNATURE. ENGAGES TARGETS FROM LONG RANGE.
- **ADAPTABLE:** CONFIGURABLE TO ACCOMMODATE PAYLOADS UP TO 45KG (100 LBS), OFFERING MISSION FLEXIBILITY.
- **DEPLOYABILITY:** FEATURES FOLDABLE ROTOR BLADES AND FUSELAGE FOR A COMPACT FORM FACTOR TRANSPORTABLE BY SUV. READY FOR FLIGHT IN 5 MINS.
- **SUSTAINABLE:** REUSABLE SYSTEM, NOT A ONE WAY EFFECTOR.
- **SIMPLE:** FULLY ELECTRIC OPERATION WITH AN INTUITIVE, INDUSTRY-STANDARD USER INTERFACE. OPERATORS CAN BE TRAINED IN JUST 1 HOUR.
- **RELIABLE:** DESIGNED FOR 1000 HOURS TBO (TIME BETWEEN OVERHAUL) TO ENSURE LONG-TERM DURABILITY.
- **HIGH AVAILABILITY:** FEATURES RAPID BATTERY CHANGING AND CHARGING CAPABILITIES TO MINIMIZE DOWNTIME.
- **STABLE:** ADVANCED CYCLIC AND COLLECTIVE ROTOR CONTROL, PAIRED WITH A HIGH THRUST-TO-WEIGHT RATIO, ENSURES STABILITY IN CROSSWINDS, TURBULENCE, AND MAINTENANCE OF TARGET LOCK.
- **EFFICIENT:** TWIN ROTOR DESIGN MAXIMIZES FORWARD TRANSITIONAL LIFT WITH NO ENERGY WASTED ON A TAIL ROTOR.
- **EXTREME WEATHER CAPABLE:** PROVIDES SUPERIOR CONTROL IN HIGH WINDS WITH IP67 WATERPROOFING FOR RESILIENCE IN HARSH CONDITIONS.
- **SOVEREIGN CAPABILITY:** DESIGNED AND MANUFACTURED IN THE UK, FREE FROM RELIANCE ON FAR EASTERN COMPONENTS.
- **COST EFFECTIVE:** REDUCES RELIANCE ON MANNED HELICOPTERS FOR SELECT MISSIONS, PRESERVING VALUABLE FLIGHT HOURS FOR CRITICAL OPERATIONAL TRAINING AND TASKS.

ABOUT ROTRON AEROSPACE

Rotron Aerospace are specialists in designing and manufacturing UAS propulsion systems and VTOL aero-systems. As industry leaders and operators of long-range VTOL air systems, Rotron Aerospace enables safe and cost effective aerial intelligence solutions for surveillance, inspection, search and rescue missions, cargo delivery and aerial deployment of FPV drone systems beyond visual line of site. With 15 years of certified military UAV experience, our UK-based team employs proprietary rotor head technology for coaxial aircraft, rapidly developing complex products and meeting urgent requirements through extensive in-house manufacturing.

9 CHALDICOTT BARN, TOKES LANE, SEMLEY, DORSET SP7 9AW
REGISTERED IN ENGLAND, NO. 07120913
+44 (0)1747 440 510 | SALES@ROTRONAERO.COM | ROTRONAERO.COM

