

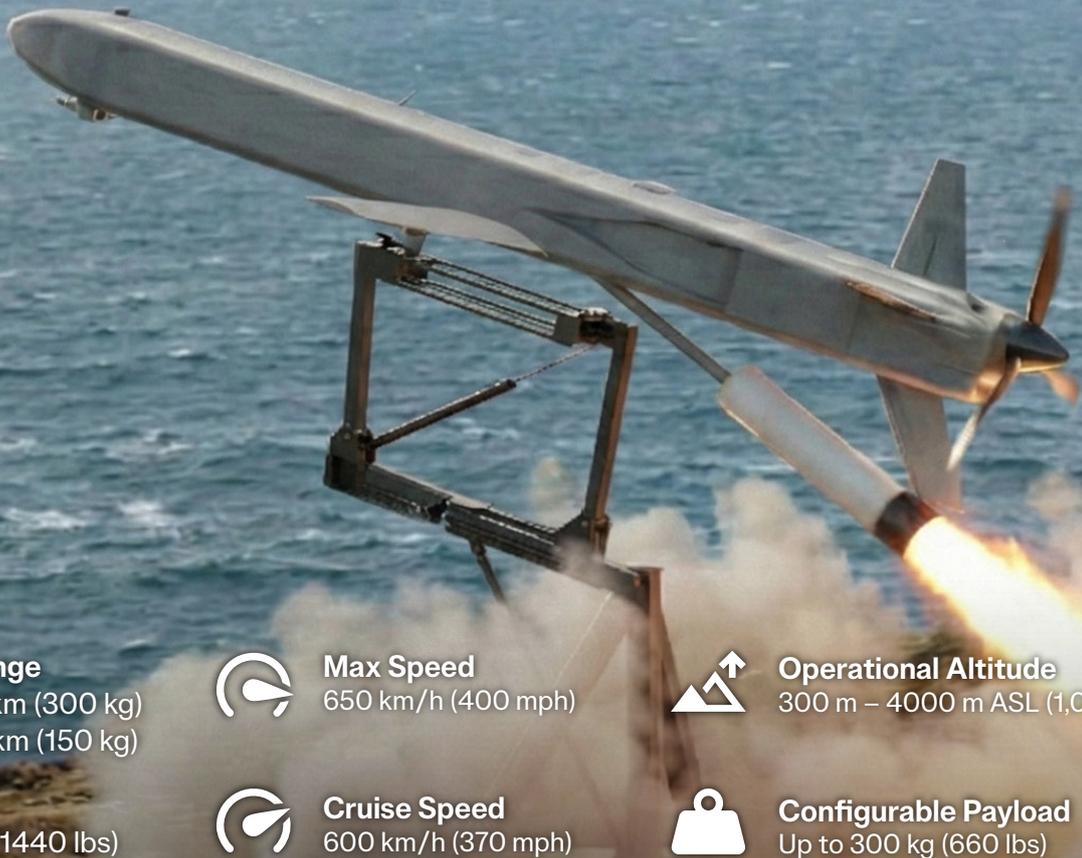


Stratos

Stratos is a next-generation, long range, cost-effective One Way Effector (OWE), offering precision payload delivery.

Powered by Rotron's proprietary propulsion technology, Stratos can deliver configurable payloads of up to 300 kg (660 lbs) while achieving significantly greater fuel efficiency than other propulsion systems, enabling markedly extended operational range ≥ 1200 km. Designed for contested domains, Stratos operates effectively in complex cyber and electromagnetic environments - including deliberate electronic attack and spoofing - and remains resilient in the absence of reliable GNSS.

Deployable from a standard shipping container that can be sea borne or discreetly positioned on land, Stratos delivers strategic deep strike capability.



| | | |
|---|---|---|
|  Max Range ≥ 1200 km (300 kg) ≤ 2700 km (150 kg) |  Max Speed 650 km/h (400 mph) |  Operational Altitude 300 m – 4000 m ASL (1,000 ft - 12,000 ft) |
|  MTOW 655 kg (1440 lbs) |  Cruise Speed 600 km/h (370 mph) |  Configurable Payload Up to 300 kg (660 lbs) |

System Survivability:

- Optimized exhaust geometries minimize IR emissions.
- Controlled acoustic emissions through optimized propeller and exhaust designs.
- Fully controllable radio emissions with the ability to adjust output power and telemetry rates.
- Radar-reflective paint reduces the cross-section, with an option for a high-signature variant.

Accuracy

- Utilizes GNSS with CRPA for positional accuracy of 2.5 m (8.2 ft) or better.
- In GNSS-denied environments, Stratos uses INS + optical flow/map matching for position estimates with 6m (19.6 ft) accuracy.
- Map matching and optical flow continuously corrects the INS while GNSS is denied, delivering a CEP50 of <6 m (19.6 ft).

Navigation and Target Acquisition

- TA system utilizing an NVIDIA compute unit with proprietary TA software.
- Incorporates a fixed EO/IR camera system.
- Targets are identified within the camera FOV by comparing to a database of potential targets.
- Operator ability to pre-set target types.

| Specification | Details |
|----------------------------|---------------------------------|
| Maximum Payload: | 300 kg (660lbs) |
| Payload Dimensions: | 1900 mm x 380 mm (74" x 14") |
| Wingspan: | 3.2 m (10.5 ft) |
| Length: | 5.8 m (19.2 ft) |
| Launch Propulsor: | Solid Rocket |
| Navigation System: | GPS, INS, VA, Terminal Guidance |

ABOUT ROTRON



Rotron are specialists in designing and manufacturing UAS propulsion, and are industry leaders and operators of long range VTOL air systems. Rotron deliver 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, the Rotron team has the ability to rapidly develop complex solutions to meet challenging and urgent operational requirements through the application of dedicated design teams and an extensive, vertically integrated manufacturing capability.