EPSILON

Quad 100/30

Heavy-Lift UAS Platform

A Comprehensive Solution Provider

100 kg MTOW
40 kg payload

6 × 40 mm
firepower

EO / Thermal
/ LRF

30+ min
at 20 kg*



The Quad 100/30 is a 100 kg MTOW heavy-lift quadcopter built to carry the Centauri MB6-40 six-barrel 40 mm grenade launcher as a stable aerial firing platform. Electric propulsion and a modular payload architecture give commanders a rapidly deployable, precision aerial fire-support and ISR asset.

AT A GLANCE

MTOW	**100 kg**
Payload	**Up to 40 kg**
Endurance	**30+ min at 20 kg***
Configuration	**Quadcopter, VTOL**
Op. radius	**Up to 15 km***
Weapon	**MB6-40 (6 × 40 mm)**
ISR	**EO / Thermal / LRF**
Data link	**Up to 30 km***

KEY CAPABILITIES

Heavy lift
Up to 40 kg for weapon and mission packages.

Airborne firepower
MB6-40 with single, burst or salvo selection.

Integrated ISR
Gimballed EO, thermal imaging and laser ranging.

Rapid deployment
VTOL — no runway or launcher required.

Open integration
Modular payload and avionics for customer systems.

PRECISION. PAYLOAD. FIREPOWER.
ONE PLATFORM, MANY MISSIONS.

PRECISION STRIKE · **AREA SUPPRESSION** · **ISR** · **OVERWATCH** · **RAPID RESPONSE** · **ESCORT**

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*Mission-dependent. Actual performance varies with payload, environment and configuration.

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Quad 100/30

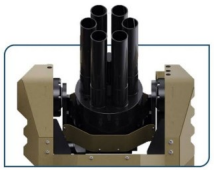
Platform Specifications & Integration

AIRFRAME & PERFORMANCE	
MTOW	**100 kg**
Empty airframe	**~25 kg**
Energy system	**[~35 kg — confirm]**
Payload capacity	**Up to 40 kg**
Endurance	**30+ min at 20 kg***
Max speed	**~18–20 m/s***
Configuration	**Quadcopter, VTOL**
Propulsion	**4 × high-thrust electric**
Propellers	**40" carbon fibre**

MISSION SYSTEMS	
Flight control	**Open-architecture autopilot**
Weapon	**Centauri MB6-40**
EO/IR	**Gimballed EO + thermal**
Thermal	**640 × 512**
Laser rangefinder	**5–1,200 m**
Data link	**Digital, up to 30 km***
Operational radius	**Up to 15 km***
Ground control	**Rugged handheld GCS**
Integration	**Customer payloads**

WEAPON: MB6-40 — CENTAURI





MB6-40 launcher (left); CRX-40 station (right). Quad 100/30 integrates the launcher only.

Barrels / calibre	**6 × 40 mm**
LV ammunition	**40 × 46 mm (<400 m)**
MV ammunition	**40 × 51 mm (<900 m)**
Firing modes	**Single / burst / salvo**
Weapon mass	**12 kg (dry)**
Power	**28–32 VDC**
Safety	**Electronic safety control**
OEM qualification	**MIL-STD-810G / 461G†**

PLATFORM ARCHITECTURE

AIRFRAME → **PROPULSION** → **AVIONICS** → **WEAPON** → **ISR** → **PAYLOAD**

MODULAR PAYLOAD CONFIGURATIONS

Fire support
MB6-40 6 × 40 mm launcher

ISR
EO / thermal / laser ranging

Logistics
Cargo and resupply delivery

Mission systems
Customer-specific integration

WHY QUAD 100/30?

100 kg MTOW — heavy lift, compact VTOL.

Airborne firepower — 6 × 40 mm, selectable modes.

Rapid response — launch from any clearing.

40 kg payload — weapon plus mission kit.

Modular — one aircraft, many roles.

Supported — training, documentation, local support.

*Estimated / mission-dependent. Centauri test results for the CRX-40 station; Quad 100/30 integrated-system qualification to follow. Weapon data and imagery courtesy of Centauri. Specifications are indicative and subject to configuration, payload, environment and final validation. Supplied to authorised government and defence end users only. Export subject to NCACC authorisation under South Africa's National Conventional Arms Control Act, 2002.

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