PLATFORM DATASHEET · CHAKRA · ENGINE

Chakra helicopter UAV, engine-powered series

STATUS · AVAILABLE

Biggen AEROSPACE
biggentech.online

The heavy-lift Chakra. Ten kilograms of payload, up to two hours in the air and 100 km of operating range from an internal-combustion single-rotor helicopter.



Biggen Aerospace white helicopter UAV on a red carpet, side profile, exhibition backdrop out of focus

MISSION ROLES

- ISR and perimeter surveillance
- Logistics and resupply over difficult terrain
- Long sensor runs where electric endurance is not enough
- Demonstration and training flights

PAYLOAD OPTIONS

Cargo and supply loads [AVAILABLE]
Payload tests filmed at 7.5 kg and 10 kg

Stabilised EO gimbal [AVAILABLE]
Three-axis camera gimbal for surveillance and survey

Sensor plate [AVAILABLE]
Open payload plate for client instruments

SPECIFICATION

VERSION 1.0	
Payload	10 kg
Endurance	up to 90 min
Cruise speed	60 km/h
Operating range	80 km
VERSION 2.0	
Payload	10 kg
Endurance	up to 120 min
Cruise speed	60 km/h
Operating range	100 km
AUTONOMY AND CONTROL	
Flight modes	Fully autonomous waypoint navigation; auto take-off and auto landing
Emergency recovery	Auto return-to-home on link loss, low battery or high wind
Propulsion	Internal-combustion engine

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