



Design specifications, October 2019

Calculated approximations not yet tested in flight

1 General

Aircraft type	Unmanned multicopter
Aspired Certification	EASA CS UAS
Power type	Electric/batteries

2 Performance

Max. take-off mass (MTOM)	800 kg
Max. payload	200 kg
Equipment	Box, sling, sprayer, spreader, customised gear
Range	40 km
Cruise speed (Vc)	80 km/h
Max speed (Vne)	110 km/h

3 Structures

Materials used	Composite, aluminium, 3D printed nylon
Number of rotors	18

4 Powertrain

a) Power supply & battery

Power supply	Battery packs
Battery type	Lithium-ion
Battery system	Exchangeable rechargeable battery packs
Battery swapping time	< 5 min

b) Motors

Engine type	Brushless DC electric motor (BLDC)
Number of motors	18