Specifications of S50	
General specifications	
Total weight (W/O batteries)	30,4 kg
Max. take-off weight	70 kg
Dimensions (arms & propellers unfolded)	2435 x 2541 x 805 [mm]
Dimensions (arms unfolded, propellers folded)	1520 x 1600 x 805 [mm]
Dimensions (arms and propellers folded)	979 x 683 x 805 [mm]
Max. hovering time	Unloaded: 17.5 min, Loaded: 9 min
GPS	GPS, GLONASS, Galileo, BeiDou
Heading	Dual-RTK
Hovering precision	±10 cm (RTK) ±2m (without RTK)
Rotor dimensions	43 x 14
Battery type	Li-Po Smart
Battery capacity	30000 mAh
Battery voltage	51.8V
Battery weight	9.4 kg
Battery charging time	min. 15 minutes
Battery charger	4 ports (2 balance)
Battery charger power	3000 W
Spreading system	
Total weight	5.18kg
Spreader weight	1.6kg
Tank weight	3.58kg
Voltage range	DC 24V-60V
Support particle diameter	0.5-6.0mm (Dry granules)

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Valve angle	0-60°
Maximum speed	1100r/min
Spread wide	12 m
Spreading system power	120W
Working temperature	0-40℃
Tank capacity	50L
Execution of work	
Technology developed for European Agricultural conditions	✓
Intrusion protection	Limited water and dust resistance
Easy transportability	✓
Modular payload attachability	✓
Obstacle detection and collision avoidance	3D, LiDAR based (ABZ sense)
FPV camera	Wide angle, vertically adjustable (0-180°)
Camera resolution	FHD
Effective signal range of RC	~8 km
Altitude measurement	LiDAR
Flight planning	
Software source code	Open
Spot spreading	✓
Area shapefiles import	✓
Line shapefiles import	✓
Software compatibility	Multiple

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RTK base	Optional Emlid RS mobile base station
Data security	
No data transmission to remote servers	
Frequency bands	
Radio Control and Telemetry	2.4GHz
WLAN	2.4GHz
Flight	
Max. pitch angle	25°
Max. operating flight speed	7 m/s
Max. level speed	15 m/s
Max. flight altitude (AMSL)	4500 m
Max. flight altitude (AGL)	120 m
Max. tolerable wind speed	10 m/s

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