SDO 50 V2

INSPECTION

SWISSDRONES

Regular inspections of critical infrastructure, such as high voltage power lines, gas and oil pipelines, and other far-stretched assets are imperative for their uninterrupted operation and safety. Downtime of infrastructure is costly and manned inspection operations can often be dangerous to personnel. In the recent years, UAVs have proven to be invaluable in these operations.

The SDO 50 V2 unmanned helicopter platform offers a cost-effective solution for beyond visual line of sight (BVLOS) inspections and monitoring using top-of-the-range sensors and software to address customer-specific needs for aerial data gathering and processing. Typical payloads include high-definition optical, UV & IR cameras, hyperspectral and multispectral cameras, LiDAR, ground-penetrating radar as well as sensors for sulfur sniffing, gas leak & radiation detection.

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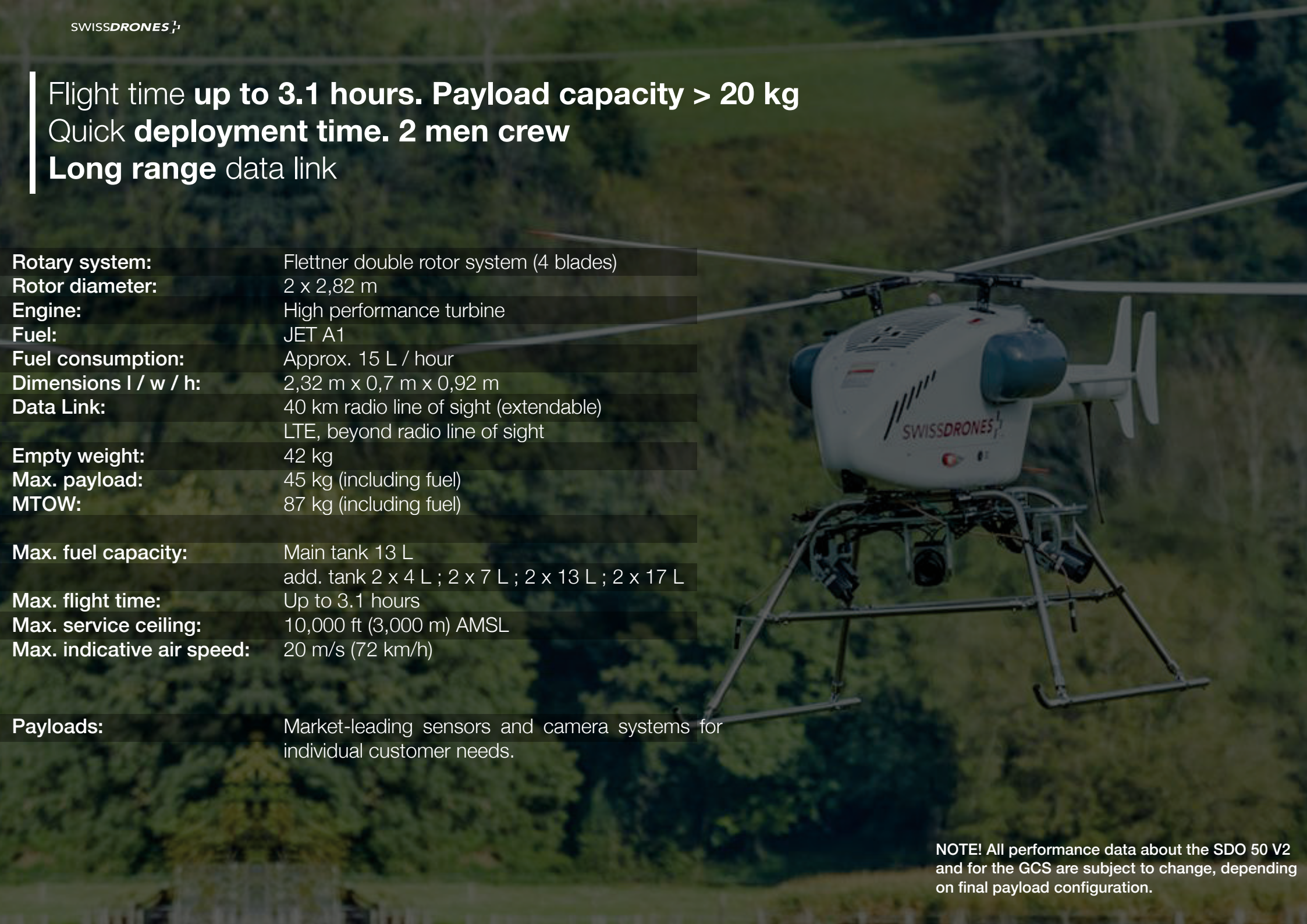
Flight time **up to 3.1 hours. Payload capacity > 20 kg**
Quick **deployment time. 2 men crew**
Long range data link

Rotary system:	Flettner double rotor system (4 blades)
Rotor diameter:	2 x 2,82 m
Engine:	High performance turbine
Fuel:	JET A1
Fuel consumption:	Approx. 15 L / hour
Dimensions l / w / h:	2,32 m x 0,7 m x 0,92 m
Data Link:	40 km radio line of sight (extendable)
	LTE, beyond radio line of sight
Empty weight:	42 kg
Max. payload:	45 kg (including fuel)
MTOW:	87 kg (including fuel)
Max. fuel capacity:	Main tank 13 L
	add. tank 2 x 4 L ; 2 x 7 L ; 2 x 13 L ; 2 x 17 L
Max. flight time:	Up to 3.1 hours
Max. service ceiling:	10,000 ft (3,000 m) AMSL
Max. indicative air speed:	20 m/s (72 km/h)
Payloads:	Market-leading sensors and camera systems for individual customer needs.



NOTE! All performance data about the SDO 50 V2 and for the GCS are subject to change, depending on final payload configuration.