

The Spirit UAV

Model 400-3000

Maximum Speed @ Sea Level : 170 mph, 147.7 kts
Maximum Speed @ 15,000 ft : 215 mph, 187 kts
Optimum Loiter Speed : 80 mph, 69 kts
Maximum Endurance: 24.3 hours
Service Ceiling : 25,000 ft
Max Climb @ Sea Level : 4,700 fpm
Powerplant : Two Lycoming IO360
(200 HP each)

Fuselage Height : 8 ft
Fuselage Length : 25 ft
Overall Height (Boom Up) : 20 ft
Overall Length (Boom Down) : 35 ft
Wingspan : 30 ft

System Weights

Empty Weight : 1,928 lbs
Flight Control Electronics : 20 lbs
Gross Weight : 3,035 lbs

Rotor Diameter : 26 ft

Disc Swept Area : 530.9 ft²

Rotor Blade : Carbon fiber, variable pitch

Rotor RPM : Up to 400 (6.875 gear ratio)

Fuel Type : Avgas (heavy fuel planned)

Fuel Consumption : 29 gph @ 100% power
7 gph @ 35% power

Fuel Payload (gals/lbs.)	Endurance (hours)	Mission Payload (lbs.)
170/1,037	24.3	70.0
55/235	7.9	771.5
35/213	5.0	893.5

- VTOL plus high-speed cruise
- Exclusive patent-pending Tilt-Boom™ technology
- Multimission capability
- Mechanically simple — breakthrough technology
- Inherently stable throughout entire flight envelope
- Freewings neutralize gusts for stable sensor platform
- Benefits from 15 years of earlier freewing development

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Portable Version of MCS