



ATLAS (HYL-300) Spec Sheet US Customary Units

Aircraft	
Total Weight (without battery, without payload application equipment)	132 lb
Maximum Recommended Takeoff Weight	518 lb
Maximum Thrust	1100 lbf
Maximum Operating Speed	40 mph
Flight Time	Full Payload: approx. 8 min Mixed: approx. 12-15 min @ 80 lb /min payload application rate No Payload: approx. 20 min <i>Flight times are affected by numerous conditions such as weather conditions, altitude relative to MSL, temperature, battery age/health, and other factors.</i>
Maximum Flight Altitude	14500 ft MSL <i>Reduce payload by 12% for each increase of 3000 ft in density altitude</i>
Wheelbase	8.2 ft
Material	Carbon Fiber, Aluminum, Plastic
Dimensions	11 x 11 x 2.9 ft (arms unfolded, no propellers) 4.0 x 5.2 x 3.4 ft (arms folded, no propellers)
Spray System	
Maximum Payload (Weight)	250 lbs (near sea level)
Maximum Payload (Volume)	30 gal
Rotary Atomizer Payload Dispensing Equipment Weight (incl. tank, pumps, plumbing, nozzles, mounting, landing gear, etc.)	50 lb
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Nozzle Types	Hydraulic Configuration: 16 x TeeJet style hydraulic nozzle tips mounted on boom; configurable number of nozzles and positioning Atomizer Configuration: 8 x Rotary Atomizers mounted on boom
Pump System	4 x 3.9 GPM (15.6 GPM Total) Diaphragm Pumps, 65 PSI
Flow Rate (no nozzle)	15.6 GPM
Flow Rate (with 16 x XR11004 nozzle tips)	8.45 GPM
Flow Rate (with 16 x rotary atomizers)	11.6 GPM
Effective Swath Width	Up to 40 ft
Productivity Rate	Up to 150 ac/hr at 2 gal/ac
Spreader System	
Maximum Payload (Weight)	250 lb (near sea level)



Maximum Payload (Volume)	50 gal
Total Granular Spreader Payload Dispensing Equipment (incl. tank, spreader device, mounting, landing gear, etc.)	44 lb
Optimal Particle Size	0.02 – 0.4 in.
Effective Swath	Up to 25 ft
Maximum Flow Rate	Up to 80 lb /min (dependent on material type)
Device Dimensions	17 x 6.3 x 5.3 in.
Productivity Rate	Up to 60 ac/hr at 50 lb/ac
Particle Type	Hard materials such as silica can cause structural damage to the UAS itself and its components (such as the propellers). Use of hard materials will alter warranty terms; use at your discretion. See Operations Manual for more details.
Propulsion	
Motor KV	45 rpm/V
Foldable Propeller	56 x 20in.
Configuration	Quadcopter
Operating Voltage	18S (66.6 V)
Battery	
Battery System	2 x 18S 30 Ah (66.6 V) Intelligent LiPo Battery
Battery Weight	2 x 31 lb (62 lb total)
Charger	
Type	Dual Channel
Input Voltage	100 – 240 V
Output Power	9000W
Compatibility	LiPo/LiHV: 12S - 18S
Dimensions	16 x 9 x 12 in
Weight	31 lb
Charging Current	Up to 120A single channel; Up to 60A per channel with two-channels running simultaneously
Weather	
Ingress Protection Rating	IP55
Maximum True Airspeed of UAS	45 mph <i>True airspeed is the UAS's speed relative to the surrounding air mass, incorporating the effects of altitude, temperature, pressure, and other atmospheric conditions on air density</i>
Maximum Ground Speed of UAS	40 mph <i>Speed relative to ground taking a blend of GPS speed and IMU data. Monitored and controlled by AgroSol GCS</i>
Communication & Control (Hylío GroundLink)	
Standard Control Device	Hylío GroundLink Controller
Ground Station Control Software	Hylío AgroSol GCS; GroundLink Operating System: Windows 11



Available Flight Modes	Swarm up to 3 units, fully autonomous, position hold manual, fully manual
Operating Frequencies	2400 to 2480 MHz
Wireless Transmission Range	Max Unobstructed: 18.5 mi Typical Rural Operation Setting: 3 mi With 4G SIM: Unlimited (wherever cellular coverage is available)
Display	13.3" Sunlit Readable 1000 nits, 10-Point Touch Display
Environment	IP67
Battery	6-8 hours, Rechargeable Li-ion Battery <i>Battery life dependent on factors such as screen brightness and level of activity</i>
Camera System	
Camera Platform	E-Con RouteCAM CU25
Camera Sensor	AR0234CS from onsemi®
Camera Video Output	1920x1080 60FPS
Camera Field of View	158°(D), 134°(H), 73°(V)
Camera Shutter	Global Shutter
Camera Mount	3-axis, remote-controllable Hylío HYL GS-3 brushless motor gimbal
Ingress Protection	IP67
Regulatory	
Regulatory Compliance	FY2019 NDAA Sec. 889 Compliant; FY2020 NDAA Section 848 Compliant; FCC Part 15 Compliant