

SILENT ARROW®

IMMEDIATE AIR RESPONSE



SILENT ARROW® GD-2000 WB
WIDE BODY
GLIDER / DISPOSABLE / AUTONOMOUS

SILENT ARROW® GD-2000 WB is the next generation of Silent Arrow®, the world's most efficient standoff delivery platform. This precision guided cargo delivery system is 60% larger than standard and carries over 1,400 pounds of cargo, fuel or relief supplies in a patented, single-use airframe.



YATES ELECTROSPACE CORPORATION / WORLD LEADERS IN UNMANNED CARGO DELIVERY SOLUTIONS

YATESELECTROSPACE.COM



GD-2000 WB

GLIDER / DISPOSABLE / 2,000 LBS.

SILENT ARROW® GD-2000 WB (WIDE BODY) is a tandem-wing, disposable, guided delivery vehicle developed to conduct military resupply and civilian disaster relief missions at less than half the cost of JPADS with more than 2.5X the standoff capability. The patented design allows the 48-foot (14.6 m), spring-loaded wingspan to be stowed inside the 13-foot (3.96 m) fuselage for compact transportation to the theater of operations.

Silent Arrow® is deployed from the C-17, C-130, CH-53, V-22, various side-door aircraft as well as via helicopter sling load with wings closed and static-line deployed, or wings already open and locked in position.

PARAMETER	GD-2000 WB (WIDE BODY)
Aircraft Category	Tandem-wing glider, static line wing deployment, full-span elevons on all four wings
Autopilot	Modified COTS Pixhawk Cube, GPS, Magnetometer, Baro, IMU, LiDAR, Pitot, Optional RF, Optional FPV
Programming Interface	ATAK (Android Tactical Assault Kit) (2020), Mission Planner
Gross Weight	2,000 lbs (907 kg)
Cargo Weight	1,400 lbs (635 kg)
Fuselage Length (As Shipped)	13 ft (3.96 m) (4 spring-loaded wings fit into fuselage for transport)
Wingspan	48 ft (14.63 m) wingspan (4 x 12 ft wings)
Glide Ratio	7.63 : 1
Range (25,000 Drop)	36 sm (58 km) standoff
Cargo Volume	140 cu/ft (3.96 cu/m) (not including additional area inside tailcone)
Standard Cargo	Food, water, medicine, batteries, fuel, heavy equipment, tools, firefighting equipment and other life-saving cargo and supplies
All Fuel Cargo	CG is easily maintained up to 200 gallons (757 liters) of jet fuel (1400 lbs) (635 kg)
Landing Accuracy	100 meters, Full Stall Landing, Zero Vertical Impact
Gliding Speed (Best Glide)	77.6 kts @ 2000 lbs
Flight Test	Current testing with USSOCOM C-130 in restricted airspace, additional testing with foreign militaries using UH-1H sling load in FAA airspace under two approved Silent Arrow COAs
Variants	GD-2000, GR-2000, ER-2000, GD-800

SIMPLE CONOPS

3.5 ft x 3.5 ft x 13 ft Form Factor



3.5 ft x 3.5 ft x 13 ft box arrives in theater containing the 4 spring-loaded wings inside, attached to the underside of the lid



Release lid latches and pull out lifting rods. Two operators lift lid away from cargo fuselage



Set lid down with wings facing up. Load cargo fuselage with up to 1,400 lbs (635 kg) of supplies



Place lid back on cargo fuselage, with wings up and install nosecone and tail assemblies. Collect 4 wing static lines and connect to C-130/C-17, other cargo airplane, or helicopter



Deploy from cargo aircraft like JPADS CDS bundle – push out backwards, static line pulls pins from wings and they spring open – designed to successfully spring open at up to -130+ knots oncoming air

Silent Arrow® is proudly manufactured in the U.S.A. and in the U.K. under AS9100. Silent Arrow® holds a U.S. Air Force Special Operations Command (AFSOC) airworthiness approval as well as a FAA approval to operate in defined areas of the U.S. National Airspace.

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