




GD-SERIES

GLIDER / DISPOSABLE / AUTONOMOUS

SILENT ARROW® GD-2000 is the world's most dependable standoff resupply platform, capable of quickly and cheaply delivering over 1,500 lbs. of cargo through contested spaces with GPS accuracy.



SILENT  ARROW®

YATES ELECTROSPACE CORPORATION / WORLD LEADERS IN UNMANNED CARGO DELIVERY SOLUTIONS

SILENT-ARROW.COM

SILENT ARROW®

GD-2000

GLIDER / DISPOSABLE / 2,000 LBS.

SILENT ARROW® is a tandem-wing, precision delivery vehicle developed for the U.S. Department of Defense to conduct resupply missions when overland delivery is infeasible or undesirable. The GD-2000 can provide up to a 40-mile standoff distance for the delivery aircraft at half the cost of JPADS, while carrying over 1,500 lbs.

Silent Arrow® can be deployed from the C-5, C-17, C-130, V-22, and other cargo aircraft platforms and additionally can be carried via slingload from the CH-53 and other rotorcraft platforms. Up to 80 Silent Arrows can fit into a 40-foot container for transport to the theater of operations, and up to 20 can fit onto a C-130 for multiple drop missions.

PARAMETER	GD-2000
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) (2022), Mission Planner
Gross Weight	2,000 lbs (907 kg) (tested to 2.5G at max gross)
Cargo Weight	1,500 lbs (680 kg)
Fuselage Length (As Shipped) (Ready to Fly W/Tailcone) (Ready to Fly W/O Tailcone)	8 ft (2.43 m) (4 spring-loaded wings fit into fuselage for transport), 13 ft (4.0m) w/nosecone and tailcone
Wingspan	28 ft (8.5 m) wingspan (4 x 7 ft wings)
Glide Ratio	8.0 : 1 (additional available with powered version)
Range (25,000 Drop)	40 sm (35 nm) standoff, 12-15 minute flight
Cargo Volume	32 cu/ft (0.91 cu/m) (not including additional area inside tailcone)
Cargo	Standard dry cargo or up to 115 gallons of liquid cargo including various fuels
Signature	Variable signature management is available
Landing Accuracy	Better than 100 meters, full stall landing, 0 vertical impact
Landing Speed (Stall)	56 kts @ 1000lbs, 83 kts @ 2000lbs
Partnerships	AFWERX, AFRL (SBIR II), USSOCOM, AFSOC, 160th SOAR, Joint Staff Warfighting Laboratory, Middle Eastern Air Force
Variants	GD-2000 Wide Body, PGB (Precision Guided Bundle)
Export Classification	EAR99 (no license required)

SIMPLE CONOPS

2 ft x 2 ft x 8 ft Form Factor



2 ft x 2 ft x 8 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 1,500 lbs (680kg) of supplies



Place lid back on cargo fuselage, with wings up and install nosecone and tail assemblies. Collect 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 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 up to 15,000 feet in the U.S. National Airspace.

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