



HELIFUELER®

ROTARY WING FUEL CART

Refuel • Defuel • Mobilize

TAKE CONTROL OF FUEL SYSTEM MAINTENANCE!

The Solution: HeliFueler® Rotary Wing Fuel Service Cart from Spokane Stainless Technologies

What Are The HeliFueler's® Benefits?

- "Right-sized" 400 and 600 gallon sizes allow maintenance teams to defuel and sump without delay
- Equipped with fittings to defuel:
 - UH-60 Blackhawk (RD-045)
 - AH-60 Apache (Whittaker F116)
 - CH-47 Chinook (Sump Elbow)
 - Overwing wands, rigid and flex (for MD-6, UH-72, UH-1, etc.)
- Onboard SPR capability
- Operates via rechargeable batteries, the tow vehicle or via plug-in power supply
- ~20 GPM (75LPM) fuel flow rate - "gas station" experience - minimal training required
- Very easy to operate and maintain
- Dual stage fuel filtration system
 - Coalescer (particulates, water removal)
 - Monitor (second stage fuel dryer)
- On-board spill kit and fire extinguisher
- Open pump platform prevents fuel vapor buildup
- Cool operating LED lighting
- Many parts common with existing Sealvac® and HandiFueler® - aids maintainability and parts availability
- Available Direct, or through DLA, GSA, Foreign Military Sales, or Depot Contracts

EXPEDIENT DEFUELING AND SUMPING - MINUS THE TIME CONSUMING BUCKETS

Rapidly defuel and sump ALL major US Army Helicopters - And reuse the fuel!

The HeliFueler® is engineered to provide a safe and efficient solution to the challenges of maintaining helicopter fuel systems. With the HeliFueler, maintenance teams can take control of the defueling process, draining and sumping aircraft without time-consuming gravity draining, or waiting for a truck to do what you could have finished hours ago.

The fastest helicopter defueler/sumper available: The HeliFueler is *purpose engineered* to defuel and sump all major US Army helicopters, without using slow and messy buckets. The system's hose couples direct to the fuel tank sump drain, drawing fuel out at up to 15 gallons per minute. Compare this to less than 2 gallons per minute typical using gravity drain methods. For fuel tanks that employ an "over the wing" top-fill system, the HeliFueler is equipped with rigid and flex defueling wands. Removed fuel is filtered before going back into the tank, always ready for reuse.

Dual stage fuel filtration: Dual stage fuel filtration allows reuse of fuel in aircraft, vehicles, or in AGSE, as local policies permit. The HeliFueler fuel filter system consists of a **Coalescer** particulate/water separator first stage, and a **Monitor** fuel dryer second stage. Fuel can be dispensed with the on-board fuel nozzle. The system is also equipped with pre and post filtration fuel sample ports.

Multi-mode operation, standard: The HeliFueler fuel pump operates from three sources:

- The tow vehicle
- The on-board low maintenance, Optima batteries
- The charger/power supply

Fully stand-alone operation allows creation of a remote refueling point, if needed.

Loaded with thoughtful features:

- All LED lighting
- Fuel meter
- Retractable hose reel
- Full length stainless hose guides
- Double-wall stainless steel tank
- Reel mounted bonding clamps
- Bottom drain / sample port
- Lockable manway & fill port
- PPE equipment stowage
- Handy fuel log stowage
- Heavy-duty tie downs
- Heavy-duty tow bar
- Non-slip side step
- Fork pockets

"The time necessary to defuel has been cut dramatically using the HeliFueler. We have found it to be exceptionally useful. For defueling and sumping, the HeliFueler is our first choice, by far."

1106th TASMG, California ANG, Fresno, CA



600 gallon HeliFueler shown



HeliFueler® Rotary Wing Fuel Cart Specifications*

MODEL	400 Gallon	600 Gallon
LENGTH	156" / 396 cm	156" / 396 cm
TRACK WIDTH	77" / 196 cm	77" / 196 cm
HEIGHT	62" / 157 cm	62" / 157 cm
WEIGHT, EMPTY	2280 lbs / 1034 kgs	2780 lbs / 1261 kgs
WEIGHT, FULL	6480 lbs / 2939 kgs	6980 lbs / 3116 kgs
GROUND CLEARANCE	6" / 15.25 cm at Tow bar 8" / 20.25 cm at Axle	6" / 15.25 cm at Tow bar 8" / 20.25 cm at Axle
CAPACITY	400 gal / 1514 ltr	600 gal / 2271 ltr
TURNING RADIUS	31' / 9.5 m	31' / 9.5 m
GROUND REEL CABLE LENGTH	50' / 15.25 m	50' / 15.25 m
FUEL HOSE LENGTH (DUPLEX)	35' / 10.6 m	35' / 10.6 m
DEFUELING WANDS LENGTH (RIGID AND FLEX)	38" / 1 m	38" / 1 m
REFUELING RATE	15 GPM / 57 LPM	
DEFUELING RATE	15 GPM / 57 LPM	
BATTERIES	12 V, Optima Blue Top deep cycle, x2	
BATTERY CHARGER	Samlex programmed charger, Optima approved, 115 VAC, 50/60 Hz (220 VAC convertible)	
OPERATING TEMPERATURE	-25°F to 110°F / -34°C to 43°C	-25°F to 110°F / -34°C to 43°C
STORAGE TEMPERATURE	-40°F to 150°F / -40°C to 66°C	-40°F to 150°F / -40°C to 66°C
MOBILITY AIDS	Fork Pockets, Airliftable by common airlifters, Heavy-duty tie down loops	

*Due to continuous product improvement efforts, specifications are subject to change without notice

Built-in safety features:

- Carbon impregnated, static dissipating refueling hose prevent static build-up
- Top fill with z shaped internal tube; prevents static buildup from free-fall of fuel during servicing
- Double-walled, stainless steel collection tank self-contains possible leaks
- Auto-recirculate valve prevents overheating of pump when nozzle is not in use
- Open design of pump platform prevents dangerous buildup of fuel vapors
- Lockable top manway and fuel fill port prevents fuel contamination
- Sealed LED lighting; allows safe operation around fuel vapors
- Emergency "E-Stop" button allows complete and immediate shutdown in an emergency
- 10 pound "Purple K" fire extinguisher mounted for fast and easy access
- Oversized universal spill kit; respond to accidental spills from Helifueler, and the ability to respond to spills from other sources as a "first responder"
- Sealed, leakproof Optima batteries provide long run time and safety in a fuel environment
- Metal electrical box, grounded and sealed against vapors and weather
- Aggressive non-skid material applied to side steps to prevent slipping
- Electronic tank overflow prevention switch avoids fuel spills during defuel operation



HeliFueler® deployed to service a CH-47 Chinook at Fresno, CA



Operator's position - Note the simple control panel, meter, grounding reel and hose guides



Back view shows dual stage filters, fire extinguisher, spill kit, and defuel/fuel select valve



Side view of unit - note the mobility friendly fork-lift pockets and heavy-duty tie down points

The HeliFueler is a completely self-contained unit capable of meeting our defuel requirements. The HeliFueler has become an integral piece of equipment of the 1106th TASMG.

1106th TASMG, Fresno, CA



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1-(509) 921-8861 jlittle@spokanestainless.com www.spokanestainless.com