

Cobham Mission Equipment, operating at a global level, remains at the forefront of engineering and production for the aerospace and defense industry. Centers of excellence for design, test and manufacturing are located in the UK and USA and provide an unparalleled reputation for innovation, quality and reliability.



Customers around the world put their trust in Cobham



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9 Cobham offers a comprehensive range of fixed, retractable and semi-retractable refueling probes for fast jets and rotorcraft

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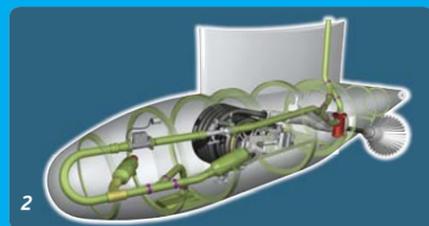
Cobham Mission Equipment



Davenport Facility

The most important thing we build is trust





2 **Wing-Mounted Pods:** Cobham's 48" Wing-Mounted pod is standard equipment on all C-130J Tanker models



3 **Air-to-Air Refueling Pods:** Wing tip and Buddy Store aerial refueling pods are self powered by a Ram Air Turbine



4 **Universal Pylon:** Cobham's C-130 Universal Pylon enables weapons or special purpose pod integration



5 **Air-to-Air Refueling Hose Drum Units:** Extendable and retractable, the hose drum units provides probe and drogue refueling



6 **Aircraft Special Purpose Pods:** Built specialized for the mission, special purpose pods can be installed permanently or temporarily



7 **External Aircraft Fuel Tanks:** Cobham designs and manufactures fuselage, centerline and wing tanks

Recognized universally as the most the most technically advanced Aerial Refuelling supplier in the world, Cobham Mission Equipment (Cobham) provides an unparalleled reputation for innovation, quality and reliability.

Cobham Mission Equipment, located in Davenport, IA, is the market leader for Air-to-Air Refueling, providing innovative fourth generation nose to tail solutions to defence customers worldwide; 99% of NATO forces operate with Cobham designed probe and drogue systems. The unique refueling capabilities available embrace the man-machine interface for crew operations on the flight deck; from the integration of avionics equipment in tanker aircraft cockpits, through to the refueling probes in the receiver aircraft.

With locations in the USA and the UK, Cobham provides Air-to-Air Refueling Systems for buddy-buddy refueling and for tactical and strategic tanking for fixed and rotary wing aircraft in response to customers unique operational requirements. Aerial refueling expertise has now extended into the development of autonomous Air-to-Air Refuelling solutions.

The Davenport facility is 240,000 square feet and sits on 8.6 acres. The company employs more than 420 employees with 45% of the work force represented by the International Association of Machinists.

Air-to-Air Refueling Equipment

Cobham has the experience to meet your in-flight refueling mission needs with system capabilities to refuel both helicopters and fixed-wing aircraft.

Cobham has delivered more than 2,000 aerial refueling systems to the armed forces of 17 countries. Of these, over 700 aerial refueling systems have been produced by Cobham for C-130 tanker variants including the latest KC-130J, HC-130J, and MC-130J. Cobham also offers wing-tip pods for conversion of Boeing 707 aircraft to the tanker role.

In addition to the unrivaled performance and

reliability of Cobham aerial refueling systems, these customers are supported by the dedicated personnel in Cobham Field Service and Customer Support organizations.

Wing-Mounted Refueling Pods and Buddy Stores

Wing-mounted aerial refueling pods are designed as a ready interface for aircraft tanker conversion. The pods feature a hose-and-

drogue refueling system and an integral fuel boost pump which provides a fuel transfer capability up to 450 GPM (1703 L/min) at 45 to 55 PSI (310 to 379 kPa). Cobham aerial refueling pods operate with aircraft power or are self-powered by a Ram Air Turbine.

Fuselage Refueling and Hose Drum Units

Adaptable to many different platforms, fuselage refueling and hose drum units provide Tanker Aircraft to Receiver Aircraft probe and drogue refueling. Mounted in the aircraft, the unit becomes a subsystem installed on a tanker aircraft.

Drogues

Cobham's latest drogue designs have unique patented low Foreign Object Damage construction which eliminates parts that would cause receiver engine damage in case of breakage. There are currently 3 different types of drogues available; fixed geometry, low speed variable drag, and high speed variable drag. An all speed variable drag drogue is currently under development. The high speed drogues are all compat-

ible with NATO STANAG 3447 compliant probes, with the low speed VDD being compatible with all Helicopter and Tilt Rotor probes.

Aircraft Special Purpose Pods and Pylons

Special Purpose Pods and Pylons are used as permanent and/or temporary installation on applicable aircraft for special missions. All pods and pylons are built to military specifications containing the mounting structure to secure the mission payload components. With primary and secondary structure, the pods and pylons exhibit a service life relative to repeated air loads, vibratory forces and thermal loads. Accessibility to internal components plays a major role in location and design of removable access panels to ensure maintainability of both pods and pylons.

Since the start of building specialized aircraft captive carry pods in the 1960s, Cobham has built over 1000 pods with functions covering Reconnaissance, Jamming, Data Link, Instrumentation, Electro Optical, and a host of other functions.

External Aircraft Fuel Tanks

Cobham has designed, qualified, and manufactured more than 50,000 combined 300- and 370-gallon fuselage and wing tanks for the F-16 aircraft, more than 4,000 600-gallon tanks for the F-15 aircraft, more than 3,000 275-gallon centerline/wing tanks for the F-5 aircraft, and more than 400 330-gallon centerline/wing tanks for the F/A-18 aircraft.

Cobham has produced external fuel tanks for USAF fighter aircraft dating back to the P-38. Currently, Cobham is completing the contract to Lockheed Martin for the F/A-22 with a total of more than 675 600-gallon external fuel tanks.

In addition to external fuel tanks for fighter aircraft, Cobham also produces the 1360-gallon tank for the C-130 transport, as well as, a complete line of double-walled, internal fuel tanks for commercial aircraft.

8 *Cobham's Davenport facility includes state of art technology coupled with a lean manufacturing process*



1 *Cobham Mission Equipment is universally recognized as the most technically advanced Aerial Refuelling supplier in the world*



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