



AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

AIRCRAFT MODEL

LOCKHEED P₃-Orion

DASSAULT Falcon 20

DASSAULT Falcon 900

And any other aircraft with hydraulic characteristics up to 21 usgpm @3200Psi

HC0936M / HCT0936M

Mobile hydraulic ground power unit



(non-contractual picture)

ABC hydraulic ground power units (HGPU) are suitable for:

- ✦ AMM/ATA29 maintenance and overhaul tests on the aircraft hydraulic system
- ✦ Filtering the aircraft hydraulic system for decontamination
- ✦ Refilling and draining the aircraft hydraulic system

The HGPU model HC0936M-series replaces the aircraft hydraulic power unit and it enables to perform on ground maintenance operations. It is designed for hangar applications with focus on simplicity to operate and maintain.

Four versions are available according to aircraft applications:

HGTU Models	Flow	Pressure	Max pressure	Max hyd. power
HC0936M Electric-driven	20 usgpm	3200 psig	5000 psig	64 000 usgpm * psig
	75 lpm	220 bar	345 bar	16 500 lpm * bar
HC0936M Thermal-driven	20 usgpm	3200 psig	5000 psig	64 000 usgpm * psig
	75 lpm	220 bar	345 bar	16 500 lpm * bar

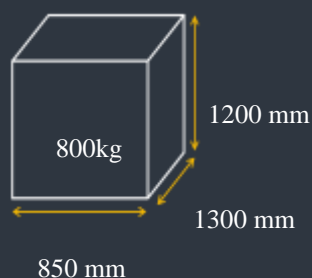


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AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

OVERALL DIMENSIONS



Hydraulic hoses:

- 9 meters (without aircraft quick-disconnect)

- Power supply cable : 10 meters (without plug)

OPERATING CONDITIONS

Operating temperature:
from +10°C to +45°C

Indoor use (maintenance hangar)

Easily movable by one operator

Forkliftable

Power supply: 3 x 400V, 50Hz,
+Ground (other upon request)

Commands circuit upon 24V
(Safety voltage)

Main Characteristics



The chassis is made of a welded painted structure movable thanks to two locking swivel casters and two rigid ones. The side panels are made of polyester material. One lateral panel is a stainless steel basket to stow hydraulic hoses. The complete hydraulic system is mounted on a special tray to collect possible leaks and thus help preserve the environment.

Standard accuracy (other upon request)

- ✦ Pressure gauge: Class 1,6
- ✦ Flowmeter: Class 5 of the reading value
- ✦ Sound level: less than 75 dbA
- ✦ Hourmeter
- ✦ Temperature: Class 2

Hydraulic parameters

- ✦ Mineral oil based HGPU such as MIL-PRF-5606, MIL-PRF-83282, MIL-PRF-87257 standards (other upon request)
- ✦ Axial piston pump with variable stroke technology
- ✦ Pressure range: adjustable up to 600-3000 psi / max 5000psi at reduced flow upon pressure manometer
- ✦ Flow range: up to 20 usgpm upon visual flow indicator
- ✦ Non-stop fluid decontamination level in class 5 (or better) upon NAS 1638 standards using filter with clogging indicator
- ✦ Air/Oil heat exchanger with low noise level
- ✦ 26 usgallon (100 liter) reservoir capacity

Options available (other upon request)

- ✦ **BB** : A selector valve allows the operator to work on aircraft reservoir mode or on HGPU reservoir mode for fluid transfer
- ✦ **DC** : A second hydraulic supply line with a return line
- ✦ **SD** : A specific degassing system for dehydration (water) and degassing (air) in the fluid.
- ✦ **ML** : A specific device for slow operations controlled through a remote control and precise check of locking pressure of the aircraft landing system.
- ✦ **BR** : A flushing unit to clean the hydraulic cart (maintenance purpose)
- ✦ **QD** : Aircraft quick-disconnect



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