



AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

AIRCRAFT MODEL

Developed for

DASSAULT AIRCRAFT
Such as

Mirage 2000

And

Rafale



And all other aircraft with hydraulic characteristics complying with this HGPU

HC1009 - series

Mobile hydraulic ground power unit



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

**12 to 21 Usqpm
45 à 80 l/min**

Mineral

The HGPU model HC1009-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.

Three versions are available according to aircraft applications:

Models	Flow	Pressure	Max pressure	Max hyd. power
HC1009 Electric-Driven	21 usqpm	5000 psig	6400 psig	105000 usqpm * psig
	80 lpm	350 bar	440 bar	28000 lpm * bar
HC1009 Thermal-Driven	21 usqpm	5000 psig	6400 psig	105000 usqpm * psig
	80 lpm	350 bar	440 bar	28000 lpm * bar

*Indicated measurements may vary by +/-2%

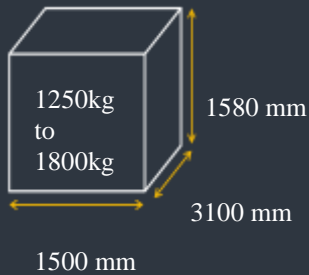


Appareillages et Bancs hydrauliques
Châtelleraudais
33 rue Joseph Cugnot
86100 Châtelleraut
France
t +33 (0)549 200 369
f +33 (0)549 854 509
e contact@abc-essais.com
www.abc-essais.com



AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

OVERALL DIMENSIONS



Hydraulic hoses:

- 9 meters (without aircraft quick-disconnect)
- Power supply cable : 12 meters (without plug)

OPERATING CONDITIONS

Operating temperature:
from -5°C to +50°C

Indoor use
(maintenance hangar)

Easily movable by one operator

Forkliftable

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

Power 45 kW

Commands circuit upon 24V
(Safety voltage)

Main Characteristics



The chassis is made of a welded painted structure movable thanks to four wheels with a tow bar for towing and braking. The cart can be towed up to 25 km/h (15 mph) on surface road. The complete hydraulic system is mounted on a special tray to collect possible leaks and thus help preserve the environment. A rainproof polyester material canopy protects the internal system. A control panel integrates all the commands and lights for the monitoring of the hydraulic cart. Pressure and flow pre-settings are operated thanks to touch screen.

Standard accuracy

(other upon request)

- ✦ Pressure gauge: Class 1
- ✦ Flowmeter: Class 0.5
- ✦ Sound level: less than 75 dbA
- ✦ Hourmeter
- ✦ Temperature: Class 1

Hydraulic parameters

- ✦ Mineral oil based HGPU such as MIL-PRF-5606, MIL-PRF-83282, MIL-PRF-87257 standards (Order code "M")
- ✦ Single power system with one supply line (red) and one return line (yellow)
- ✦ Axial piston pump with variable stroke technology
- ✦ Pressure range: adjustable up to 5000 psi / max 6400psi at reduced flow upon pressure manometer
- ✦ Flow range: up to 21 usgpm upon visual flow indicator
- ✦ Non-stop fluid decontamination level in class 4 (or better) upon NAS 1638 standards using filter with clogging indicator
- ✦ Air/Oil heat exchanger with low noise level
- ✦ 40 usgallon (150 liter) reservoir capacity
- ✦ A selector valve to allows the operator to work on aircraft reservoir mode or on HGPU reservoir mode for fluid transfer

Options available

(other upon request)

- ✦ **BR** : A flushing unit to clean the hydraulic cart (maintenance purpose)
- ✦ **CP** : Connectors to connect an external particle counter
- ✦ **INCLUDE** : A second hydraulic supply line with a return line
- ✦ **EC**: Electrical cable length 20 meters
- ✦ **INCLUDE**: Manual reel to store hydraulic hoses
- ✦ **ML**: A specific device for slow operations controlled through a remote control and precise check of locking pressure of the aircraft landing system.
- ✦ **MR**: Display of the return pressure
- ✦ **INCLUDE** : Sampling port
- ✦ **QD** : Aircraft quick-disconnect
- ✦ **RD**: Controls for flow adjustment
- ✦ **INCLUDE** : A specific degassing system with fluid regulation system
- ✦ **TY**: Hydraulic hose length 12 meters



Appareillages et
Bancs hydrauliques
Châtelleraudais
33 rue Joseph Cugnot
86100 Châtelleraudais
France
t +33 (0)549 200 369
+33 (0)549 854 509
contact@abc-essais.com
www.abc-essais.com