



AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

AIRCRAFT MODEL

AGUSTA
A109 / Mark II

BAE
146RJ / ATP
Jetstream
RJ-70 / RJ-85

BELL
204 / 205 / 206 / 212 / 222 /
230 / 412 / 427 / 430 / UH-1 / 214

BOEING VERTOL
CH-47 Chinook
Apache AH-64
VERTOL 234 / LT

DASSAULT
Super Etendard
Atlantic 1160
Mercurie 100
Mercurie 900

EMBRAER
EMB-110 / EMB- 120

EUROCOPTER
NH90 TTH/NFH

FOKKER
F100 / F28

GRUMMAN
E2C

LOCKHEED
C 130 Hercules / P3-Orion

MACDONELL DOUGLAS
DC-8

NEPTUNE
P2H

SAAB
GRIPPEN JAS39

SIKORSKY
Super Stallion CH-53

TRANSPORT ALLIANZ
Transall C160

VOUGHT
A7 Corsair

HC1014 - E 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 24 Usqpm
45 à 90 l/min

Mineral
Or
Ester Phosphate

The HGPU model Ouréa-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:

HGPU Models	Flow	Pressure	Max pressure	Max hyd. power
HC1014-12	10 usqpm	3000 psig	4350 psig	30 000 usqpm * psig
	40 lpm	210 bar	300 bar	8 400lpm * bar
HC1014-16	16 usqpm	4000 psi	4350 psig	64 000 usqpm * psig
	60 lpm	280 bar	300 bar	16 800lpm * bar
HC1014-24	24 usqpm	4000 psi	4350 psig	95 000 usqpm * psig
	90 lpm	280 bar	300 bar	25 200lpm * bar

*Indicated measurements may vary by +/-2%

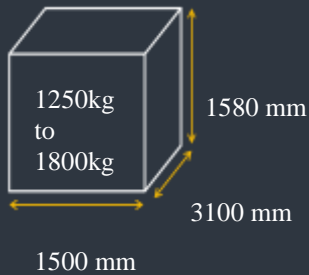


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AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

OVERALL DIMENSIONS



Hydraulic hoses:

- 9 meters (without aircraft quick-disconnect)

- Power supply cable : 12 meters (without plug)

OPERATING CONDITIONS

Operating temperature: from +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)

Power 18,5 kW to 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 potentiometers.

Standard accuracy

(other upon request)

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

Hydraulic parameters

- ✦ Mineral oil based HGPU such as MIL-PRF-5606, MIL-PRF-83282, MIL-PRF-87257 standards (Order code "M")
- ✦ Esther phosphate oil based HGPU such as HYJET, SKYDROL standards type IV and V (Order code "ES")
- ✦ 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 3000 psi / max 4350psi at reduced flow upon pressure manometer
- ✦ Flow range: up to 12/24 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
- ✦ 26 usgallon (100 liter) reservoir capacity
- ✦ A selector valve to allows the operator to work on aircraft reservoir mode or on HGTU reservoir mode for fluid transfer

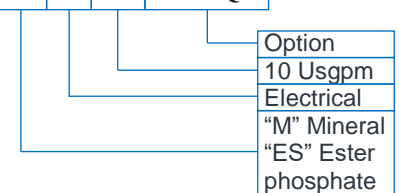
Options available

(other upon request)

- ✦ **BR** : A flushing unit to clean the hydraulic cart (maintenance purpose)
- ✦ **CP** : Connectors to connect an external particle counter
- ✦ **DC** : A second hydraulic supply line with a return line
- ✦ **EC**: Electrical cable length 20 meters
- ✦ **EE**: Electrical reel to store hydraulic hoses
- ✦ **EH**: 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
- ✦ **PP** : Sampling port
- ✦ **QD** : Aircraft quick-disconnect
- ✦ **RD**: Controls for flow adjustment
- ✦ **SD** : A specific degassing system with fluid regulation system
- ✦ **TY**: Hydraulic hose length 12 meters

To order:

HC1014 - M - E - 10 - TY - QD



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