



AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

AIRCRAFT MODELS

CASA

CN-295
CN-235
NC-212

Helicopters

Eurocopter range
Chinook CH47
S76/S70
Lynx / SeaKing



And

All other aircraft with hydraulic characteristics complied with this HGPU

HC1312

Mobile hydraulic ground test unit



ABC hydraulic ground test units (HGTU) are suitable for:

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

Two circuits
0 to 15 Usqpm
0 to 57 l/min

Mineral

The HGPU model HC1312 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.

HGTU Models	Flow	Pressure	Max pressure	Max hyd. power
HC1312 Electric-driven	2x15 usqpm	3000 psig	5000 psig	90 000 usqpm * psig
	2x57 lpm	210 bar	345 bar	23 940lpm * bar

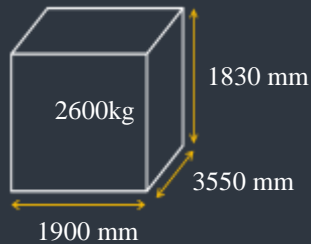


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AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

OVERALL DIMENSIONS



Ground clearance:

- 210mm

Hydraulic hoses :

- 7 meters (without aircraft quick-disconnect)

Power supply cable : (electrical)

- 10 meters (without plug)

OPERATING CONDITIONS

Operating temperature:

- from -30°C to +50°C

Operating altitude:

- Up to 1600m

Outdoor use (Rainproof)

Easily movable by two operator

Forkliftable

Power supply: 3 x 400V, 50Hz,

+Ground (other upon request)

75 kVA

Commands circuit upon 24V

(Safety voltage)

Main Characteristics



The chassis is made of a welded painted structure movable thanks to four wheels with a drawbar 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 blue-grey heavy steel canopy protects the internal system. Pressure and flow pre-settings are operated by means of potentiometers. The HGPU is designed and manufactured to perform tests for checking and operating various hydraulic systems of military aircraft such as landing gear, flaps, servocontrols, and so on... by supplying an adjusted hydraulic power. This cart enables filling and draining of aircrafts hydraulic reservoirs and it is suitable for any aircraft equipped with open-air, pressurized or self-pressurized hydraulic reservoirs.

Standard accuracy

(other upon request)

- ✦ Pressure gauge: Class 0.5/1.6
- ✦ Flowmeter : Class 0.5
- ✦ Sound level : less than 80 dbA
- ✦ Hourmeter
- ✦ Temperature: +-1°C

Options available (other upon request)

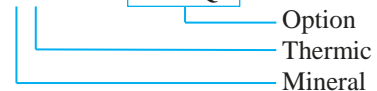
- ✦ **BB** : A selector valve allows the operator to work on aircraft reservoir mode or on HGTV reservoir mode for fluid transfer
- ✦ **SD** : A specific degassing system for dehydration (water) and degassing (air) in the fluid.
- ✦ **BR** : A flushing unit for cleaning the hydraulic cart (maintenance purpose)
- ✦ **QD** : Aircraft quick-disconnect
- ✦ **TY** : Hydraulic hose length 15 meters
- ✦ **EC** : Electrical cable length 12 meters
- ✦ **CP** : Connectors to connect an external particle counter
- ✦ **PP** : Sampling port
- ✦ **ML** : A specific device for slow operations controlled through a remote control and precise check of locking pressure of the aircraft landing system

Hydraulic parameters

- ✦ Mineral oil based HGTV such as MIL-PRF-5606, MIL-PRF-83282, (other upon request)
- ✦ Single power system with two independent supply lines and two return lines
- ✦ Axial piston pump with variable stroke technology
- ✦ Pressure range: adjustable from 500 to 5000 psi upon pressure manometer
- ✦ Flow range: up to 2x15 usgpm upon visual flow indicator
- ✦ Return pressure 0 psi
- ✦ Non-stop fluid decontamination level in class 4 (or better) upon NAS 1638 standards
- ✦ Air/Oil heat exchanger with low noise level
- ✦ 40 usgallon (150 liter) reservoir capacity

To order:

HC1312 - **TY - QD**



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