



AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

HC1415

Mobile hydraulic ground test unit



AIRCRAFT MODEL

MIKOYAN-GOUREVITCH MiG-29



KASAN Helicopter Mi-17



AERO L-39 Albatros



LOCKHEED C 130 Hercules



Nanghang K-8 Karokorum



ANTONOV An-32 Cline



Chengdu F-7 Airguard

And all other aircraft with hydraulic characteristics complying with this

HGPU

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

- ✦ Maintenance and overhaul tests on aircraft hydraulic system
- ✦ Filtering the aircraft hydraulic system for decontamination
- ✦ Refilling and draining the aircraft hydraulic system

20 Usqpm
75 l/min

Mineral

The HGPU model HC1415 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:

| HGPU Models | Flow | Pressure | Max pressure | Max hyd. power |
|---------------|--------|----------|--------------|---------------------|
| HC1415 | 20 gpm | 3000 psi | 4200 psi | 60 000 usqpm * psig |
| | 75 lpm | 210 bar | 280 bar | 15 750 lpm * bar |

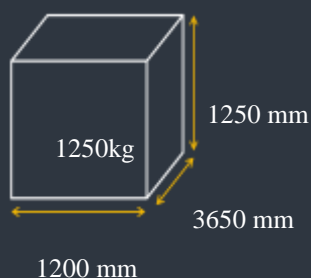


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OVERALL DIMENSIONS



Hydraulic hoses:

- 10 meters (without aircraft quick-disconnect)

- Power supply cable : 20 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 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 for stowing the hydraulic hoses. The complete hydraulic system is mounted on a special tray to collect possible leakages 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 HGTU such as MIL-PRF-5606, MIL-PRF-83282, MIL-PRF-87257 standards (other upon request)
- ✦ Single power system with one supply line
- ✦ Axial piston pump with variable stroke technology
- ✦ Pressure range: adjustable up to 3000 psi / max 4200psi at reduced flow upon pressure manometer
- ✦ Flow range: up to 19 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)

- ✦ **DC** : A second hydraulic supply line with a return line
- ✦ **BR** : A flushing unit for cleaning the hydraulic cart (maintenance purpose)
- ✦ **P05** : A better accuracy for HP pressure with a pressure transducer and a display calibrated in class 0.5
- ✦ **P06** : A better accuracy for LP pressure with a pressure transducer and a display calibrated in class 0.5
- ✦ **QD** : Aircraft quick-disconnect
- ✦ **CP** : Connectors for connecting an external particle counter
- ✦ **PP** : Sampling port
- ✦ **SD** : A specific degassing system with fluid regulation system
- ✦ **P01**: Display of the return pressure
- ✦ **LP**: Low pressure regulator
- ✦ **WD**: Wooden Box



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