



AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

MTH1309

Mobile hydraulic ground test unit



AIRCRAFT MODEL

F-18 Hornet

GRUMMAN A6A

LOCKHEED S3A viking

SIKORSKY CH-53 Super Stallion

SUKHOI SU-30

And

All other aircraft with hydraulic characteristics complied with this HGPU

ABC hydraulic ground test unit (HGTV) 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 circuit
0 to 30 Usgpm
0 à 110 l/min

Mineral

The HGTV model MTH1309 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.



HGTV Models	Flow	Pressure	Max pressure	Max hyd. power
MEH1309 Electric-driven	2x30 usgpm 2x110 lpm	3000 psig 210 bar	5000 psig 345 bar	2x 90000 usgpm*psig 23 100 lpm * bar
MTH1309 Thermal-driven	2x30 usgpm 2x110 lpm	3000 psig 210 bar	5000 psig 345 bar	2x 90000 usgpm*psig 23 100 lpm * bar

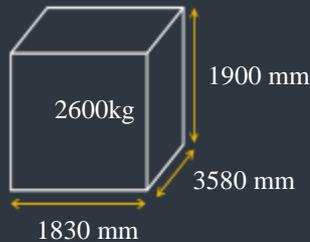


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AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

OVERHALL DIMENSIONS



Ground clearance:

- 210mm

Hydraulic hoses :

- 10 meters (without aircraft quick-disconnect)

Power supply cable : (electrical)

- 10 meters (without plug)

OPERATION CONDITIONS

Operation temperature:

- from -30°C to +50°C

Operating altitude:

- Up to 1600m

Outdoor use (Rainproof)

Easily movable by two operator

Possibility of lifting by a fork lift

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 four wheels with a drawbar for towing and braking. The cart could be tracted up to 25 km/h (15 mph) on surface road. The complete hydraulic system is mounted on a special tray for environmental purposes to receive possible leaks. 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 openair, 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 HGTO reservoir mode for fluid transfer
- ✦ **SD** : A specific degassing system for deshydration (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 for connecting an external particles 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 HGTO such as MIL-PRF-5606, MIL-PRF-83282, (other upon request)
- ✦ Single power system with two independent supply line and two return line
- ✦ Axial piston pump with variable stroke technology
- ✦ Pressure range: adjustable 500 to 5000 psi upon pressure manometer
- ✦ Flow range: up to 2x35 usgpm upon visual flow indicator
- ✦ Return pressure up to 110 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:

MTH1309 - TY - QD



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