



AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

AIRCRAFT MODEL

AIRBUS A300, A310, A318, A319,
A320, A321, A330

BOEING B707, B717, B727, B737

EMBRAER 170, 175, 190, 195

TY43-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

The HGPU model TY43-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.

One version is available according to aircraft applications:

HGTU Models	Flow	Pressure	Max pressure	Max hyd. power
TY43-43	40 usgpm	3000 psig	4200 psig	120 000 usgpm * psig
	150 lpm	210 bar	280 bar	31 500 lpm * bar
TY43-53	50 usgpm	3000 psi	4200 psig	150 000 usgpm * psig
	189 lpm	210 bar	280 bar	39 690 lpm * bar

*Indicated measurements may vary by +/-2%

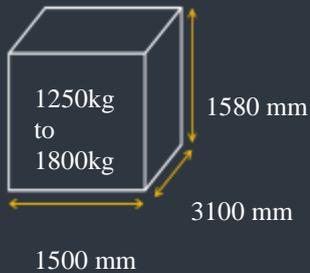


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OVERALL DIMENSIONS



Hydraulic hoses:

- 10 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 55 kW to 75 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..

Standard accuracy

(other upon request)

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

Hydraulic parameters

- ✦ Esther phosphate oil based HGPU such as HYJET, SKYDROL standards type IV and V (Order code "ES")
- ✦ Single power system
- ✦ 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 40 usgpm or 50 usgpm
- ✦ 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 (110 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
- ✦ **EC**: Electrical cable length 20 meters
- ✦ **MR**: Display of the return pressure
- ✦ **PP** : Sampling port
- ✦ **QD** : Aircraft quick-disconnect
- ✦ **MD**: Display of the flow

To order (example):

TY43 - 43 - ES - QD

Option



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