

**Avtron Aerospace's H101 portable hydraulic cart is ideal for servicing the aircraft hydraulic system reservoir, performing functional checks at low volume applications.**

The H101 is a light weight, low flow, single system, electric powered hydraulic cart. This model is ideal for light duty support, when maneuverability and transportability is your top priority. The H101 is a lower cost alternative to the full-size portable hydraulic carts available as part of the Avtron H100 series product line.



## Applications

- General functional check of aircraft hydraulic systems
- Pass-through 400 Hz electrical power to aircraft

## General Features

- Commercial off-the-shelf (COTS) design
- Height 48 in., length 60 in. & width 48 in.
- Light weight (650 lbs. dry) for easy portability

## Operating Conditions

- Ambient temperature range - 40° F to 125° F (- 40° C to 58° C)
- Altitude, sea level to 6000 ft. (1829 m)
- Relative humidity 95 to 100% at 125° F (58° C)
- Maximum fluid temperature 165° F + 5° F (77° C + 2° C)
- Position up to 8½ degrees from horizontal
- Tow speed 10 mph over improved surfaces
- Cramping angle 40 degrees
- Road clearance 8 in.

## Filtration

- High-pressure system, 3 micron (absolute) disposable element and differential pressure switch (72 psid + 5 psid visual)
- Return system, 10 micron disposable element and differential pressure switch (25 psid + 5 psid visual)
- Reservoir fill port, removable strainer

# H101 Portable Hydraulic Cart

## Cart Design and Performance Specifications

- Steerable tow bar with pintle hook, short turn radius, brake locking (rear wheels) in up position
- Rear tow pin, lockable
- Pneumatic tires, 16.5 x 6.5 – 8 or larger for easy, smooth mobility on rough surfaces and easy service with compressed air
- Pressure and return hoses with hinged storage J-hooks, securing run-around block for hose ends and QD dust caps on lanyards
- Operator controls and meters on sloped face with engraved designator tags and full storage cover
- Hinged control cover folds for operation
- Metal, weather resistant enclosure with removable panels
- All side panels easily removable for convenient service and maintenance
- Stainless steel grounding cable with grip clamp on spring loaded retraction reel



## System Design and Performance Specifications

Single system, 5 GPM @ 3000 psi, open and closed-loop operation

Electrical power cable for 200 VAC, 3 ph, 400 Hz input with power flow-through connector to aircraft

Drive motor, 10 HP, 2000 RPM

High-pressure pump, variable displacement, remote controlled pressure compensator (adjustable), axial-piston type, 5 GPM @ 3000 psi

High-pressure relief valve set to 3300 psi (adjustable)

Return relief valve used to maintain aircraft reservoir level

Output pressure gauge 0 to 3000 psi

Return pressure gauge 0 to 300 psi

Gauges, liquid-filled, anti-blowout for operator safety

Fluid heat exchanger, oil-to-air type, maintain temperature below 140° F (60° C) with 5 GPM @ 250 psig and ambient temperature of 100° F (38° C)

10 gal. reservoir with external fill port spout and fill cap with removable strainer

Reservoir sight gauge, low level shut-off and over temperature shut-off

Test medium, Mil-H-5606, Mil-H-83282

Pressure port, ½ in. tube size, AN-type fittings with mating aircraft QD

Return port, ¾ in. tube size, AN-type fittings with mating aircraft QD

Pressure hose



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*Specifications and features are subject to change without notice.*