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AHP

AC+DC Diesel Hydraulic Tester



AREL – AHP series hydraulic ground support devices (GPU) are products specially designed for the control and maintenance of hydraulic equipment of aircraft. Thanks to its compact structure, special design and superior maneuverability, it can be operated and maintained easily with a single operator.

AREL -AHP series hydraulic GPUs, which can produce hydraulic power, AC and DC output at the same time as standard, have been produced after more than 30 years of AREL experience with diesel engine options and Arel production special alternators. With a wide range of products, AREL manufactures products to meet the needs of all aircraft and helicopters in the civil and military aviation industry.

AHP series hydraulic ground support devices (GPUs) can be transported by Skorsky helicopters thanks to their compact structure.

ENGINE

- Made in Turkey Yavuz 3104G
- 3 cylinders
- 4 stroke
- water cooled
- Diesel
- 1,500 rpm
- 44 HP – 32 KW max. output power
- 165 g/Hp hour fuel consumption
- 2,930 cm³ cylinder volume

ALTERNATOR

- Arel production
- 4 poles
- 1,500 rpm
- 220V, 50Hz, 45 Amp.
- Synchronicity
- Brushless
- IP23
- H class insulation

PERFORMANCE

- 10 kW, 220V AC
- +/- 5% voltage self-regulating

- 28.5V DC – 200A continuous current
- Max 4.500 PSI
- Continuous 3,000 PSI
- double outlet aircraft fill valve

PANEL

- fuel level gauge
- oil temperature gauge
- working time clock
- DC Digital Ammeter (500A, 60mV, with shunt)
- DC Digital Voltmeter (0-50V)
- AC Digital Voltmeter
- DC - Start-stop button
- Ignition key
- Fuel heating button
- Start button
- Fault warning lamps
- battery charge lamp
- Reset button
- 220V AC outlet socket
- Various warning lights
- Automatic fuses
- Emergency stop button

CAB and TRAILER

Cabin;

- Robust construction made of steel sheet
- compact design
- Electrostatic powder oven paint
- Removable covers for ease of maintenance
- Recessed control panel protected from external influences
- Lighting headlight lamp for night work on the cabin

Trailer;

- Robust structure made of U Profile steel sheet
- Double axle with ball joint system that can rotate +/-30°
- Parking brake, actuated by the drawbar, controlling the rear wheels
- 4,80x4 pneumatic rubber wheels
- 2 x 75A – 24V starter batteries mounted on the chassis
- Chassis mounted 61 lt fuel tank
- Chassis mounted 85 lt hydraulic oil tank

HYDRAULIC PUMP & INSTRUMENT PANEL

Pump;

- 15 kW, 1.500 rpm
- 45cc flow adjustable
- 60 lt/min

Dashboard;

- LCD panel specially designed by our company, which can display all pump output and hydraulic output pressures of the hydraulic tester as PSI and BAR.
- flowmeter

HYDRAULIC BLOCK

- double outlet
- Flow and pressure adjustable separately
- Changeable flow settings of the pump and both outlets
- Adjustable pressure regulating valves of both outlets
- Pump safety fuse valve (under block)
- pump pressure regulating valve
- Pump working pressure regulating valve
- Outlets and return sampling taps

EXIT

- 10mt - 2x20mm² DC output cable and NATO standard DC output connector (MS 25488-27)
- Cable wrap hooks on cabinet
- double output
- 2 pieces of 10mt 1/2 hydraulic pressure hose
- 2 pieces of 10mt 3/4 hydraulic suction hose

PROTECTIONS

- DC high current protection (in case of overcurrent, it cuts the output at the end of the specified limit and time and gives an audible and light alarm)
- Engine protection (oil, fuel, temperature, charge, ignition on)
- hydraulic oil overheat protection
- Hydraulic oil level protection

STANDARDS and DIMENSIONS

- ISO 9001:2015
- CE
- IATA Norms
- MS 704F
- ISO 6858-2017
- SAE ARP 5015B

Width – Length – Load: 126 cm – 165 cm – 115 cm.

Weight: 950 kg

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