



*Haskel
Applications
in Aviation*



Haskel International, Inc. has over 60 years of hydraulic and pneumatic engineering experience in the design and manufacture of a wide range of air driven gas boosters, air amplifiers, liquid pumps, valves, fittings and test systems.

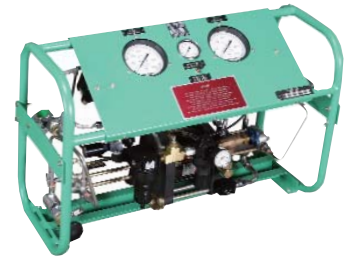
Haskel is part of United Technologies' Hamilton Sundstrand Corporation. Operating under the **ACE** (Achieving Competitive Excellence) business model, Haskel has implemented a vision to become the highest-quality, lowest-cost, most customer-focused provider of engineered, liquid and gas handling equipment in the world.

Our quality assurance and control systems have allowed us to achieve critical qualifications in accordance with international standards such as: **ISO 9001/2008, ATEX, CE, NACE MR 0175/ISO 15156-2003, and MIL STD 1330D.**

This brochure introduces Haskel product applications for the aviation industry, including commercial, general and military. These are just a few of the applications that Haskel has developed for the aviation industry. Please contact Haskel regarding these or any other high pressure application you may have.

Oxygen Booster Systems

Haskel Oxygen booster systems for filling oxygen cylinders. An efficient, safe and economical system for oxygen handling.



Oxygen Cleaning to Mil Spec 1330D

Oxygen cleaned products are certified per Mil Spec 1330D, the standard practice for precision cleaning and testing of shipboard oxygen, nitrogen, helium-oxygen, helium, and hydrogen systems as established by the U.S. Department of Defense for the U.S. Navy.

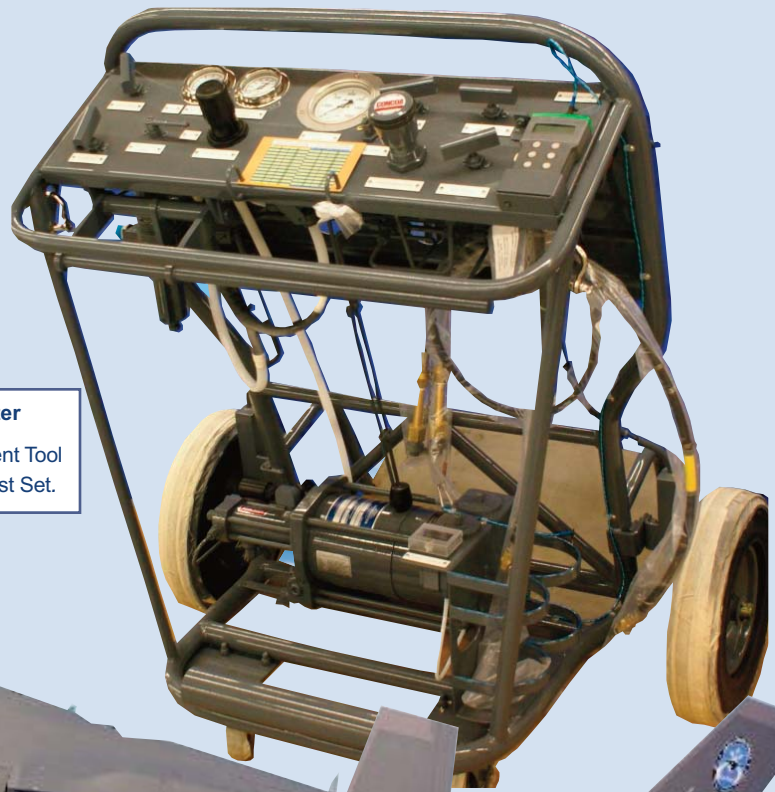


State of the Art Clean Room



Oxygen Charging Rig built for the F-35 Joint Strike Fighter

System includes: BOS(Back Up Oxygen Supply) Bottle Management Tool and On Board Inert Gas Generation System (OBIGGS) Pressure Test Set.



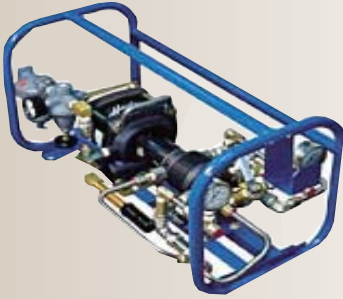
Test Benches

Hydraulic test benches for maintaining aircraft hydraulic circuit integrity. These test systems perform both hydraulic and pneumatic functions and are designed for Skydrol and other widely used aircraft fluids.



Airport Fire and Rescue Services

CFC Recovery Systems for freon and other halocarbons that must be recovered, not vented or leaked into the atmosphere, and for recovery of Halon and carbon dioxide used extensively by airport fire and rescue services when cylinders are refilled or charged.



Aircraft Jacks

Most major aircraft jack manufacturers use Haskel air driven liquid pumps for safe reliable lifting. Pumps of various pressure capabilities are employed dependent on jack tonnage. Jacks currently using hand or electric pumps can be easily retrofitted.



Gas Cylinder Test Rigs

Hydrostatic and cylinder stretch test rigs for inspection and testing of all gas cylinder and pressure vessels, including oxygen, nitrogen, carbon dioxide and halon bottles.



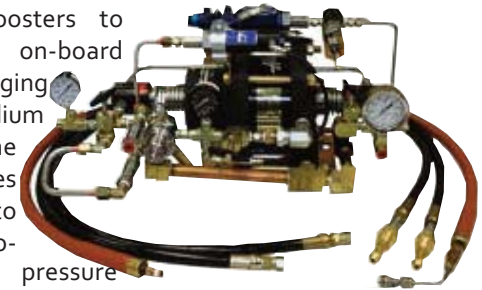
Nitrogen Charging Carts

Mobile nitrogen charging carts for tire inflation, pressure gauge calibration, line flushing, charging landing gear struts and accumulators, and for the operation of pneumatic tools. The carts also enable operators to use all available gas in a bottle and still charge to final pressure.



Escape Chutes/Emergency Float Inflation

Self powered gas boosters to service high pressure on-board nitrogen filling and charging of carbon dioxide or helium cylinders used for the inflation of escape chutes and life rafts, and to service other components needing high pressure nitrogen such as shock struts and charging hydraulic accumulators.



Other Haskel Products and Applications Include:

Liquid Pumps

For use on air frame alignment jigs: raising and lowering of engine cowlings: crimping and riveting; and operating ramps

Air Amplifiers

For use in boosting air pressure for the operation of pneumatic tools, gauge calibration and testing

BuTech Valves Fittings and Tubing

For containment and control of both gases and liquids, across all pressure ranges

High Pressure Valves and system accessories

To assist in the controlled use of pressure and flow.

CELEBRATING OVER 60
YEARS OF HYDRAULIC AND
PNEUMATIC ENGINEERING
EXPERIENCE IN THE DESIGN
AND MANUFACTURING OF
HIGH PRESSURE
GENERATING EQUIPMENT
AND CONTROLS

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