For more information on our high-pressure products, visit Haskel.com or contact your local Haskel representative.

**Ingersoll Rand.**

Haskel is part of Ingersoll Rand. Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands— including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are committed to a world of sustainable progress and enduring results.

**THK ENGINEERING PTE LTD.**

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Haskel products overview

Pressure on Demand
**Air/Hydraulic Driven Gas Booster and Air Driven Air Amplifier**

**Why Use Haskel Air Driven Pumps?**

Our pumps offer many advantages over electrically driven pumps:

- Safe air operation — no heat, flame or spark risk
- Up to 7,000 bar (100,000 psi) capability
- Infinitely variable cycling speed
- Stall feature at pre-determined pressure to hold that pressure without consuming power
- Easily automated — many modification and control options
- Suitable for most liquids and liquefies gases
- Alternative gas drive options — sour gas, natural gas, boil off gases, nitrogen
- No need for air line lubrication — saves costs and prevents contamination
- Robust, reliable, compact and easy to maintain proven design
- Unbalanced cycling spool provides immediate response to pressure changes
- Also available in standard or custom built power pack configurations
- Excellent worldwide service for spares and repairs

**Applications**

- Gas transfer/charging
- Low pressure gas reclamation from storage bottles
- Gas pressure and leak testing
- Nitrogen injection for plastic molding
- Scuba/oxygen bottle filling
- Charging of accumulators

**Air/Gas Driven Liquid Pumps**

- Over 100 different models ranging from 1/3 hp to 10 hp for selection
- Over 50 different modifications that can be applied to the pump for various applications and service
- Flow range up to 3,200 cu in/min (52 l/min) and maximum output pressure to 100,000 psi (7,000 bar)
- Wide variety of material construction options
- Sour gas drive modification and special customized liquid ends construction to NACE MR0175/ISO 15156-2003
- Available with CE and ATEX marks

**Applications**

- Hydraulic operation such as clamping devices, punch and pin presses, valve actuation, etc.
- Hydrostatic pressure testing
- Hydraulic pressure, lifting and jacking systems
- Lubrication and bolt tensioning systems
- Pressure testing
- Work holding/power clamping
- Jacking/lifting
- Valve actuator control
- Hydraulic cylinder actuation
- Press safety over load devices
- Roller tensioning
- Metering
- Precision lubrication and spraying
- Liquid gas transfer

**Standard and Custom Liquid and Gas Systems**

Haskel can custom-build portable-to-large PLC and PC controlled systems and equipment for a wide range of industries and applications. Manufacturing divisions have clean room facilities for oxygen and similar requirements to class 1000-level clean.

- Portable pressure test packs
- Pressure, proof, leak, burst and fatigue testing of hydraulic, gas, refrigerant and automotive hose and rigid pipe pressure and functional testing of valves
- Volumetric stress testing of gas containers
- Helium leak detection of refrigerant and air conditioning equipment
- Oxygen transfer and pressurization of accumulators
- CFC refrigerant and halon fire extinguishing substance recovery and charging
- SF-6 recovery and reclaim from circuit breakers
- Chemical injection, metering and dosing pumps and packaged systems
- Hydraulic or pneumatic hose test bench

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**High Pressure Valves and System Accessories**

Haskel International offers a wide range of high pressure valves and system accessories designed to assist in the controlled use of pressure and flow-generating equipment manufactured by Haskel and others. Continuous investment in new machinery and technology keeps Haskel at the forefront of the field. Our selection of components includes:

- Air pilot switches
- Air operated directional control and release valves
- Air piloted valves
- Regulating relief valves
- Stainless steel check valves
- Hydraulic accumulators and gas receivers
- Filters
- Plum chambers
- High pressure valves, fittings and tubing
- Port adapters

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Haskel provides a wide range of high-pressure pneumatic and hydraulic equipment for the oil and gas, defense, aerospace, automotive, fluid power, air power, power generation and process industries.

Haskel has a strong commitment to maintaining world-class quality, upholding the health and safety of employees and customers, protecting the environment and providing excellent service and support.

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Haskel can oxygen clean products to meet U.S. government MIL Std. 1300D, which is the highest cleaning standard used by the U.S. Navy as approved by the Department of Defense.

- Available in CE and ATEX marks
Air/Hydraulic Driven Gas Booster and Air Driven Air Amplifier

Our pumps offer many advantages over electrically driven pumps:

- Safe air operation — no heat, flame or spark risk
- Up to 7,000 bar (100,000 psi) capability
- Infinitely variable cycling speed
- Stall feature at pre-determined pressure to hold that pressure without consuming power
- Problem-free stop/start applications
- Easily automated — many modification and control options
- Suitable for most liquids and liquefied gases
- Alternative gas drive options — sour gas, natural gas, boil off gases, nitrogen
- No need for air line lubrication — saves costs and prevents contamination
- Robust, reliable, compact and easy to maintain proven design
- Unbalanced cycling spool provides immediate response to pressure changes
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- Press safety overload devices
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- Precision lubrication and spraying
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Standard and Custom Liquid and Gas Systems

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- CFC refrigerant and halon fire extinguishing substance recovery and charging
- SF-6 recovery and reclaim from circuit breakers
- Chemical injection, metering and dosing pumps and packaged systems
- Hydraulic or pneumatic hose test bench

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Air or gas driven models to deliver output pressures up to 39,000 psi
- Hydraulic driven models up to 15,000 psi
- Models for handling argon, nitrogen, oxygen, hydrogen, helium, carbon dioxide, liquefied gas, and many other specialty gases
- Haskel can oxygen clean products to meet U.S. government MIL Std. 1330D, which is the highest cleaning standard used by the U.S. Navy as approved by the Department of Defense
- Available in CE and ATEX marks

Applications

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