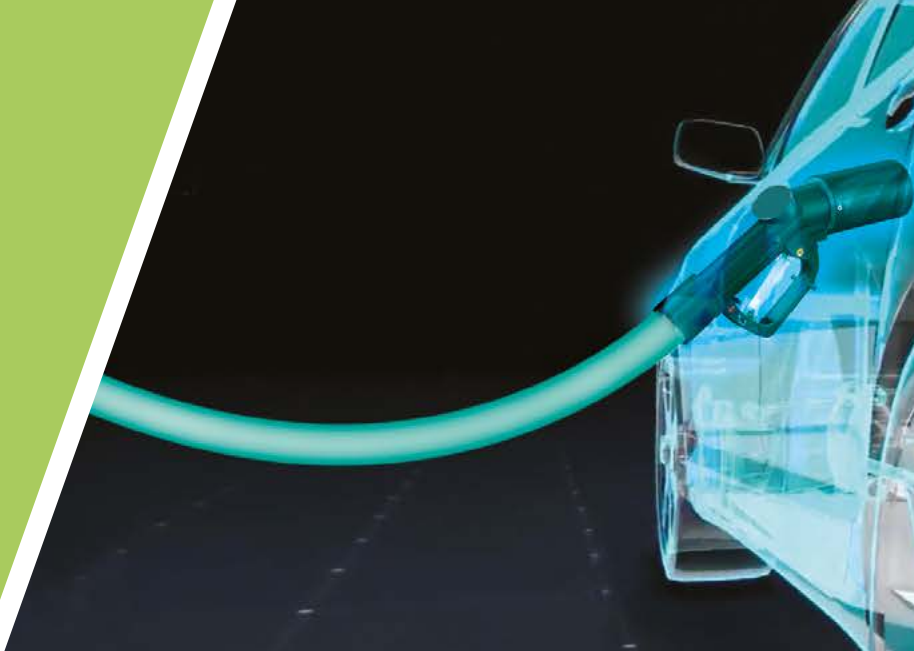




Innovative fuelling
solutions for a more
sustainable World

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Overview

Our mission is to become your preferred supplier by offering world class products and services driven by safety, quality and innovation, from product development to excellence in execution.

Haskel Hydrogen Systems is a global provider of precision flow control systems and Hydrogen fuelling stations. With 10 manufacturing facilities serving customers in 150 countries, Haskel provides the world with safe, reliable and efficient fuelling solutions.

Haskel is at every stage of the Hydrogen supply chain, from production of hydrogen through its compression, storage and dispensing to SAE standards.

Leaders in Hydrogen compression technology, continued innovation and product development sets Haskel apart from other HRS providers.

HYDROGEN SYSTEMS



Turnkey Hydrogen Refuelling Stations

- Turnkey refuelling projects
- Compression
- Storage
- Dispensing
- 1,300 kg/day up to 100 Mpa

Hydrogen Dispensing Capabilities

- H35/H70 Capability
- SAE J2601 compliant
- T40 Capability
- Up to 50 kg fills
- Up to 1,300 kg/day





Building blocks for a successful fuelling experience



Air Drive Compressors

Haskel self-cooling air drive gas boosters for hydrogen delivery up to 100 MPa. Suitable for rapid start up and intermittent use.

Integrated Compression Skids

Fully integrated compression skids capable of delivering up to 1,000 kg/day at pressures up 100 MPa.



Diaphragm Compressors

Diaphragm compression solutions for volume delivery from low suction pressures such as on-site generation or pipeline.



Valves and Fittings

Butech valves and tubing ensure the integrity of component integration, available in a variety of alloys/steels with pressure capability more than 1,300 bar (20,000 psi) and temperatures of -250°C so suitable for liquid hydrogen.



Hydraulic Compressors

Hydraulic driven boosters single or multi stage for high capacity systems and rapid product delivery. H-Drive is specifically developed for hydrogen delivery at SAE automotive pressures.

...Delivering under pressure

Standard Hydrogen Refuelling Station Datasheet

LIGHT DUTY PASSENGER VEHICLES



PRODUCT PROFILE

Model Type 70MPa Refuelling Solutions	Geno L100	Geno L200	Geno L400	Geno L1000
Design output kg/Day	100 kg	200 kg	400 kg	1000 kg
Fuelling's per/day maximum	20	40	75	180
Dispensing positions	1	1	2	4
Back to back fuelling profile	0	1	1	10
Vehicles per station	100	400	800	1600
Protocol SAE	J2601/1	J2601/1	J2601/1	J2601/1

DISPENSER OPTIONS

'E' Dispenser	•	•	•	•
Column Dispenser	•	•	•	•
Integrated Dispenser	•	•	•	•



Hydrogen
'E' Dispenser



Hydrogen
Column Dispenser



Integrated
Dispenser

FEATURES & BENEFITS

- 70 years Hydrogen experience
- Innovative compression solutions
- Energy efficient design
- Flexible Hydrogen supply
- Modular design with expandable capacity
- Contactless credit card payment systems
- Lower cost per kg Hydrogen dispensed

Standard Hydrogen Refuelling Station Datasheet

HEAVY DUTY VEHICLES & BUSES



PRODUCT PROFILE

Model Type	35MPa Refuelling Solutions	Geno B1200
Design output kg/Day		1,200 kg
Peak hourly capacity		200 Kg
Quantity dispensed per vehicle		24 kg
Dispensing positions		2
Back to back fuelling profile		2 vehicles per position
Protocol		As required

DISPENSER OPTIONS

'E' Dispenser	•
Column Dispenser	•
Integrated Dispenser	•



Hydrogen
'E' Dispenser



Hydrogen
Column Dispenser



Integrated
Dispenser

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MATERIAL HANDLING



PRODUCT PROFILE

Model Type	Geno MH
Design output kg/Day	up to 1000 kg
Peak hourly capacity	
Quantity dispensed per vehicle	Material handling offers a range of logistic challenges that require additional user input such as Fleet size shift patterns and vehicle classification, the impact of these variable has significant impact of costs and permitting requirements. Please contact Haskel Hydrogen Systems for additional support.
Peak hour refuelling frequency	
Dispensing positions	
Back-to-back fuelling profile	
Protocol	

DISPENSER OPTIONS

'E' Dispenser	•
Column Dispenser	•
Integrated Dispenser	•



Hydrogen 'E' Dispenser



Hydrogen Column Dispenser



Integrated Dispenser

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DISPENSER OPTIONS



Integrated Dispenser



Hydrogen 'E' Dispenser



Hydrogen Column Dispenser

FEATURE	STANDARD SPECIFICATION
Delivery rate (kg/hr)	35kg/h @70MPa SAE J2601-1 v2016 120kg/h @35MPa SAE J2601-1 v2016
Hydrogen cooling	To -40°C compliant to EU F Gas refrigerant
Operating pressure	Maximum operating: 100MPa
Dispenser options	Multiple dispenser connection options: <ul style="list-style-type: none"> - 70MPa for Cars 1-7kg - 35MPa for Heavy Duty Vehicle 10-50kg - 35MPa for Forklifts <10kg - nozzle in accordance with customer preference - Multi hose options available
Weather resistance	Suitable for outdoor installation
Operating temperature	-20°C to 40°C
HMI	Haskel proprietary system based on communication requirement. Card swipe and payment options available
Safety equipment	Built in accordance with the authority having jurisdiction compliant with current global safety standards
Electrical power supply	200A 3 x 400V N 50Hz TN-S



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