

Keep your fleet up and running with our SmartFuel® mobile hydrogen fueler



How you benefit

Based on our extensive experience as the world's leading producer and supplier of hydrogen and our long-standing support of and contributions to the evolution of fuel cell technology, we've designed our SmartFuel mobile hydrogen fueler to give you unmatched benefits:

- Highly reliable vehicle fueling
- Automated dispensing
- No facility maintenance
- Remote monitoring to provide 24/7 availability
- Totally self-contained units
 - No site installation
 - No utility hook-up
 - No compression
 - Easy relocation
- Consecutive fast-fills limited only by storage volume
- Zero emissions
- Quiet operation
- Safe, compact design
- DOT and SAE code-compliant

Because the SmartFuel hydrogen fueler is storage of hydrogen generated at an external source, there's no fixed capacity to limit the number of vehicles you can fill. As your hydrogen fleet grows, swaps are available more frequently until you're ready to add fuelers or a more permanent fueling facility.



At Air Products, we are committed to helping you realize the benefits of hydrogen vehicles.

An excellent example is our flexible SmartFuel mobile hydrogen fueler for fast-fill vehicle fueling with zero emissions and no utility hook-up requirements. We can provide service to you where you want it and when you need it for small fleet fueling. It's especially advantageous for meeting your fueling challenges for early testing and demonstration of fuel cell vehicles by providing a highly reliable, cost-effective, automated capability at the convenience of your location.

Our SmartFuel mobile hydrogen fueler provides everything you need—hydrogen supply as well as self-contained dispensing equipment.

How our service works

Once a unit has been placed at your fueling location, Air Products will remotely monitor (wireless telemetry) its fuel level and refill it in place or exchange it for a full unit when the hydrogen storage quantity is reduced to a certain level. We also provide maintenance for fuelers and ancillary equipment.

All dispensing equipment is self-contained, and the fill procedure is fully automated. We provide everything you need to fill your vehicles since no utility hook-ups are required. In addition, we can train your people to safely use the fueler.

We coordinate the short duration exchange to coincide with the fuel usage of your vehicles.

Table 1: Dispenser features

Item	Details
Vehicle interface	SAE J2600-compliant, drive-away/breakaway protection
Wireless telemetry	Standard
Fill method	PLC automated cascade
User interface	Controlled personnel access
Fuel measurement	Optional capabilities

Table 2: Fueler features

Design Parameters	Specification
Total H ₂ capacity	60 kg to 150 kg
Usable H ₂ capacity	30 kg to 110 kg
Dispensing pressures	350 barg/Optional: 250 barg
Trailer length	4.9 m to 8 m (16 feet to 26 feet)
Trailer width	2.5 m (8 feet)

Table 3: Site requirements

Item	Details
Foundation required	Bare level surface, concrete preferred
Utilities	None required

About Air Products

Air Products is the world's only combined gases and chemicals company, with annual revenues of nearly \$10 billion and operations in 40 countries. The company distinguishes itself through its 18,000 employees around the world who build lasting relationships with their customers and communities based on understanding, integrity and passion.

For over 70 years, Air Products has been helping customers reduce costs, increase productivity and improve product quality through innovative industrial gas supply and applications technology. With more than 50 years of hydrogen experience, Air Products is on the forefront of hydrogen

energy technology development. The company has an extensive patent portfolio with over 50 patents in hydrogen dispensing technology.

Air Products has placed over 120 hydrogen fueling stations worldwide. Cars, trucks, vans, buses, scooters, forklifts, locomotives, planes, cell towers, material handling equipment and even submarines have been fueled with trend-setting technologies that involve Air Products' know-how, equipment and hydrogen. Use of the company's technology is increasing and is currently over 400,000 hydrogen fills per year.

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