



HYDROGEN CARBON CLEANER

HCC

Hydrogen Carbon Cleaner

The Hydrogen Carbon Cleaner (HCC) is a simple, safe, and effective system that enhances diesel, gasoline, and natural gas internal combustion engines with the power of clean hydrogen.



Applications We Service

The HCC cleans multiple engine types



Trucks



Buses



Generators



Port Equipment



Construction



Agriculture



Military



Ground Support Equipment

Service in Action

Why do Engines Need Cleaning?

All internal combustion engines produce carbon deposits as a result of their operation. This holds true for engine types across countless sectors such as transportation, shipping, agriculture, mining, construction, power generation, and more. We recommend using the HCC as part of your fleet's regular maintenance schedule.



What are Carbon Deposits?

Carbon deposits in an internal combustion engine develop on internal surfaces such as the engine crankcase, pistons, piston rings, intake valves, and fuel injectors, both internally and externally. These deposits adversely affect engine parts and performance which lead to more frequent maintenance and higher costs.



The HCC effectively removes deposits from combustion engines, enhancing efficiency, reducing maintenance costs, and minimizing environmental impact. Our service is simple, safe, effective, and does not require engine dismantling or the use of plastic products.

Four-Step Cleaning Process

- 1 The HCC connects to the engine's air intake
- 2 Hydrogen-enriched gas enters the engine's cylinders
- 3 The hydrogen-enriched gas reacts with carbon deposits
- 4 All is then omitted through the exhaust as a gas



Before



After 30 Minutes



After 1 Hour

Key Features

The HCC can enhance engine performance and optimize the life of diesel particulate filters (DPFs), EGR valves, and other engine components, with a 30-60 minute hydrogen carbon cleaning.

- Optimal engine performance
- Reduce maintenance costs
- Potential fuel savings



Our Company

Who We Are

HNO International is a green hydrogen product development company. Our mission is to provide cost-effective, modular, scalable systems that produce, store, and dispense green hydrogen on a regional, local scale.

Highlights:

- 15+ years in hydrogen R&D exp.
- 19 US patents
- Strong partnerships in industry



Donald Owens

Founder and Chairman

Don, our visionary and leader for 15+ years, combines engineering, patent law, and entrepreneurship, driving our hydrogen technology success.



Paul Mueller

President and CEO

Paul leverages 30+ years in Aviation, Aerospace, and Defense. P&L leader since 2007, he transforms our green hydrogen business with strategic organization.



Greg Heller

CTO

Greg brings strategic insight in our technical development, collaborating with engineers to innovate and optimize our hydrogen systems.



Contact Us



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