

# BRC Gas Equipment

A Westport Fuel Systems Company



# Corporate Video

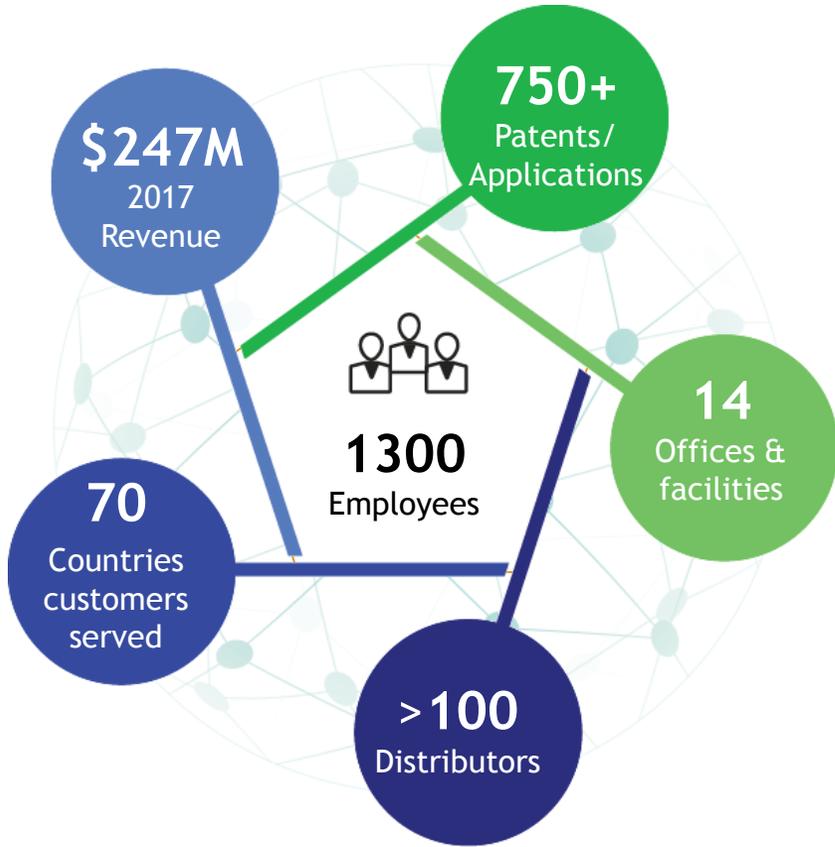


<https://www.youtube.com/watch?v=lv5chL81Q3Y>

- M.T. M Srl, Italian company founded in 1977, part of the industrial group Westport Fuel System, better known on the market with its trade mark BRC Gas Equipment, is a world leader in the design and production of components and systems for the transformation of cars to LPG and CNG.
- At the traditional core business, over the years, new business lines have been aggregated, in order to broaden the range and offer, while remaining within the scope of expertise.



# The World of Westport Fuel Systems



## Broad Applications



## Alternative Fuels



## Locations



## Key Priorities

- > Broaden product offering
- > Deploy market-ready solutions
- > Continue to focus on cash management
- > Increase engagement with key OEMs and industry partners

*Driving innovation to power a cleaner tomorrow*

Note: Approximate number of employees and products as of December 31, 2017; worldwide granted patents and pending applications for Westport Fuel Systems companies as of June 5, 2018.

# Westport Fuel Systems Strategy



Diverse Product and Brand Portfolio - for a variety of applications and markets



## Market-Ready Solutions

- > LPG/CNG kits and components for aftermarket vehicle conversions and DOEM
- > Components & systems for Tier 1 OEM supply in LPG and CNG, including Engine Management Systems & Engine Controllers ready for latest emission regulations
- > Spark ignited products for transit, refuse & speciality vehicles
- > Westport HPDI 2.0™, the LNG solution for heavy-duty trucking

## Leading Technology Position

- > Long history & deep technology innovation and engineering capabilities
- > Strong intellectual property position
- > Existing and applied for patents covering CNG, LNG, and LPG components & systems worldwide
- > Significant investment in research and development for gaseous fuelled transportation applications

***Business model sets company on a sustainable path forward***

# Alternative Fuel Capabilities



## Broad Range of Products that Deliver Emission Reductions

### LPG

Propane / Autogas / BioLPG



- > Components and complete systems
- > Light-, medium and heavy duty applications - vapor and liquid LPG
- > Monofuel, bi-fuel, dual fuel solutions
- > The most commonly used alternative fuel in the world

### CNG

Compressed Natural Gas



- > Components and complete systems
- > Light-, medium- and heavy duty applications
- > Monofuel, bi-fuel, dual fuel solutions

### LNG

Liquefied Natural Gas



- > Complete systems
- > Heavy-duty and high horsepower applications
- > Monofuel and dual fuel solutions

### H<sub>2</sub>

Hydrogen



- > High and low pressure components
- > Light- to heavy-duty and industrial applications
- > Hydrogen/CNG blends or pure hydrogen

Renewable Fuels  
Substitute for fossil based fuels



# Components & Complete Systems

Westport  
Fuel Systems



Light-Duty

## Aftermarket and D-OEM

- > Electronic control unit
- > Gas injectors
- > Tank and filling valves
- > Filters
- > Pressure regulators



## OEM

- > Valves / filling valves
- > Pressure regulators
- > Electronic control unit
- > Preformed pipes
- > Other system related components



# Components & Complete Systems



Medium-Duty  
Heavy-Duty

## On-Engine

- > Injection rails
- > ECUs

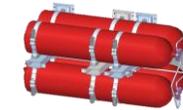


## Off-Engine

- > Valves / filling valves
- > Regulators
- > Preformed pipes



- > Tanks racks
- > HP filters



## Complete Systems

- > On- & Off-engine components
- > Engine Management Systems

# Fully Integrated Westport HPDI 2.0™ Truck Solution



**Westport**  
**HPDI 2.0**



Heavy-Duty

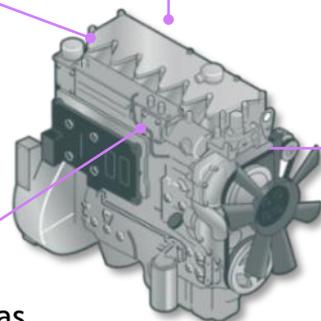
## On Engine

High Pressure Direct Injector



Gas Rail

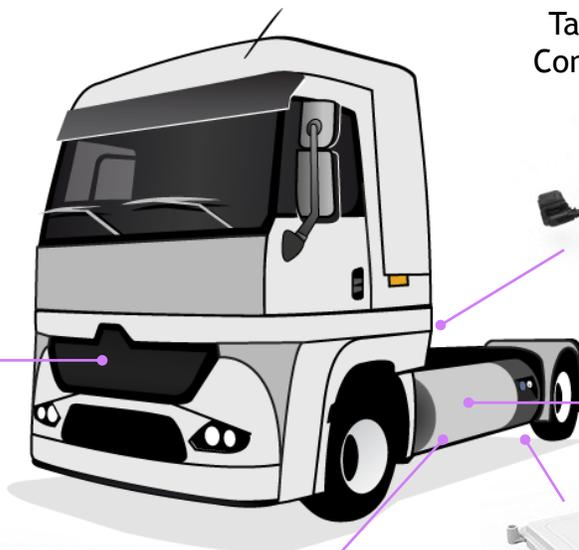
OEM Engine



Gas Conditioning Module (GCM)



## On Chassis



Integrated Gas Module



Tank Selection Control Manifold



HPDI Control Software



## On LNG Tank

Gas Temperature Sensor



LNG Pump Control Manifold



LNG Tank Module



Fuel Level Signal CAnditioner



Cryogenic High Pressure Pump





Light-, Medium-,  
Heavy-Duty, Industrial

## Components and Systems for Various Applications

### Transportation

- > Tank valve
- > Pressure relief device (PRD) with temperature sensor
- > Regulator
- > Pressure control module
- > Pressure relief valve
- > Shut off valve



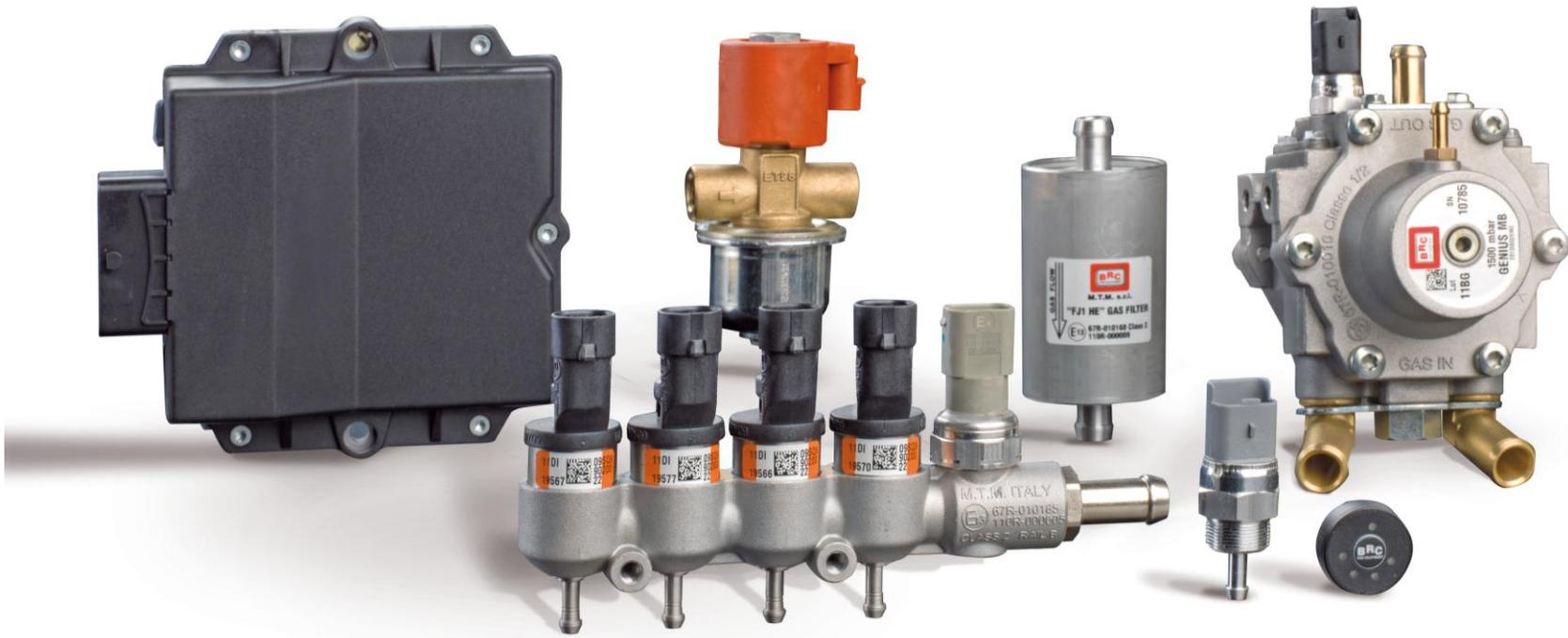
### Industrial

- > Integrated tank valve regulator (H-ITVR)
- > Tank valve
- > PRD
- > Regulator
- > Manual tank valve



*Complete hydrogen fuel system solutions from high pressure tank valves to low pressure electronic fuel pressure control at fuel cell*

# Products



# Core Business



AFTERMARKET

- Presence in over 70 countries of the world with over one hundred authorized distributors
- 630 Italian workshops belonging to the BRC Gas Service Network

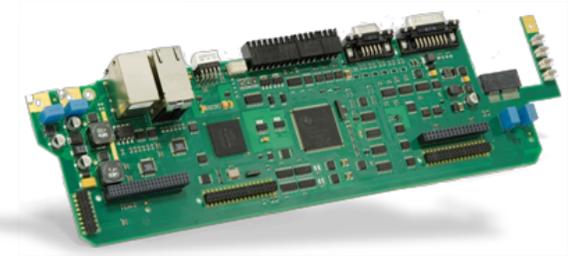
OEM



DOEM

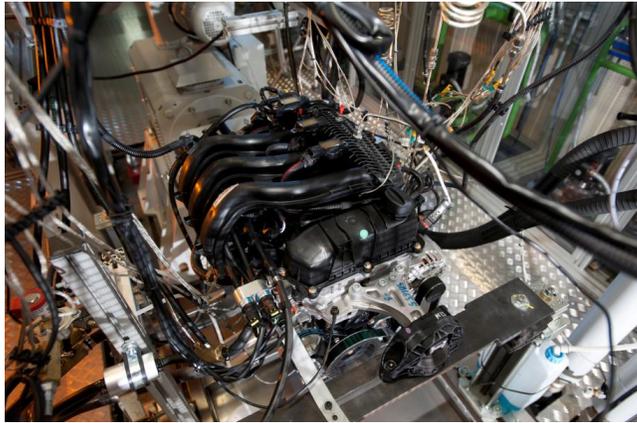


# Diversified Business > Electronic Division



Design, manufacture and marketing of electronic cards and components

# Diversified Business > R&D



Third party development, validation services, engine test, emission analysis on engine test benches and 2WD/4WD test benches with climatic cells

## Diversified Business > BRC Car Service



Distribution and marketing of brake pads, lubricants, filters, batteries and components for ordinary car maintenance

## Diversified Business > BRC Racing Team



Development and management of racing cars and realization of prototypes in small series

# Factories



## M.T.M. Srl

a Westport Fuel Systems company

- 1 Sede Legale / Headquarters:**  
Via La Morra, 1  
12062 Cherasco (CN) Italy  
Tel. +39 0172 48681 - Fax +39 0172 593113
  
- 2 R&D Center**  
Via Moglia, 18
  
- 3 BRC Electronic Division**  
Via Moglia, 35
  
- 4 Linee Produzione Auto,  
Cars Production Lines,  
BRC Racing Team**  
Via Fondovalle, 1
  
- 5 Uffici Vendite, Magazzino Spedizioni,  
Ricevimento Merci, BRC Car Service,  
Confezionamento Serbatoi  
Sales Office, Shipping Warehouse,  
Goods Receipt, BRC Car Service, Tank Packaging**  
Via Fondovalle, 6

Total covered Area: 60,000 sq. m.  
Total Employees: 650