

# **VDL Special Vehicles**



## MAKING A DIFFERENCE FOR THE WORLD OF TOMORROW



#### **FACTS AND FIGURES 2023**



Family business VDL Groep was founded in 1953



75% of our products are exported to

**112** countries around the world



We consist of more than 100 companies

14.973

**Employees in 19 different countries** 





Combined revenue **€6,4 billion** 



Net Result **€147 million** 



63,2% of total assets



VDL Groep is in the top six on the Dutch reputation ranking

Source: RepTrak



#### THE WORLD OF VDL GROEP



Science, Technology & Health



Mobility



Energy & Sustainability



Infratech



Foodtech

#### **R&D EXPENDITURE**

#### 2022

Rank	Company	Location	R&D expenditure (millions of euro)
1	ASML	Veldhoven	1.540
2	Royal Philips	Eindhoven	778
3	Janssen: Pharmaceutical companies of J&J	Leiden	499
4	Koninklijke KPN NV	Rotterdam	302
5	Royal DSM	Geleen/Delft	217
6	NXP Semiconductors	Eindhoven/Nijmegen	201
7	VDL Groep	Eindhoven	159
8	DAF Trucks NV	Eindhoven	125
9	Thales Nederland	Hengelo	118
10	Canon Production Printing Netherlands BV	Venlo	112
11	Rijk Zwaan	De Lier	105
12	Vanderlande Industries	Veghel	75
13	FrienslandCampina	Amersfoort	75
14	Byondis (voorheen Synthon)	Nijmegen	68
15	Prodrive Technologies BV	Son	61





## VDL SPECIAL VEHICLES



#### **VDL SPECIAL VEHICLES**

**FACTS & FIGURES** LOCATED IN BORN (NL) 21.000 M<sup>2</sup> **PRODUCTION SURFACE AREA TURNOVER** €21 MILLION **125** EMPLOYEES 1.250 UNITS/YEAR **VEHICLE CONVERSIONS & ZERO EMISSION HEAVY DUTY VEHICLES** 

#### **VDL Special Vehicles**

**MAIN ACTIVITIES** 



## VEHICLE CONVERSIONS

Manufacturing, conversion and bodywork adaptions of vehicles











Lean production third party vehicles





Manufacturing and integration of drivelines Electric – Hydrogen – Hybrid







#### **VDL Special Vehicles**

**CUSTOMERS (ZERO – EMISSION)** 











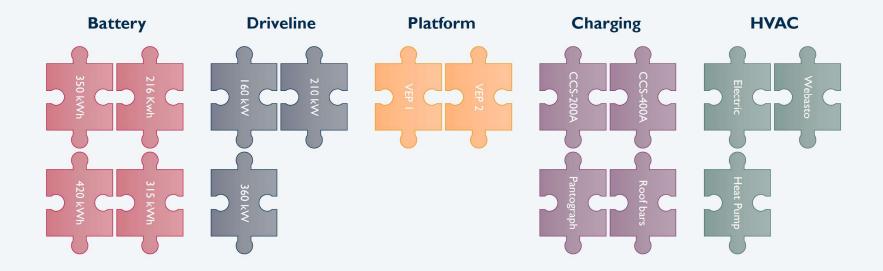








**BUILDING BLOCK PRINCIPLE** 











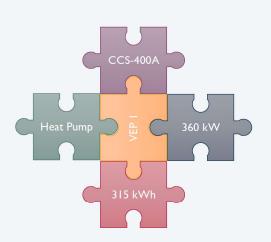






ADDING HYDROGEN IN THE MIX







**HISTORY** 



#### **HISTORY**



#### **H2Haul Project**

**Shipper** 

# Belgian deployment Fuel cell supplier HRS provider Manufacturer





3 VDL tractors + 1 VDL rigid truck – Min. 30,000 km/year per truck.



The trucks will be operated by Colruyt group and based at one of the distribution centres in Belgium.



The trucks will distribute goods between the distribution site and retail sites.



A new hydrogen refuelling station for heavy duty vehicles, at 350 bar, will be built in Ollignies (B).



VDL Prototype Truck 44to
4x 50kW Fuel Cell, 40kg/350bar H2 Tank System,
210kWh Battery



#### Toyota Fuel Cell Project

- Based on DAF CF Electric, 44t GCW
- Toyota Fuel Cells
- → 40kg Hydrogen storage
- **350 Bar**
- Central Electric Drive
- 5 Trucks in total





# THANK YOU VERY MUCH FOR YOUR ATTENTION!

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