



# VDL Wientjes Emmen



Strength through cooperation

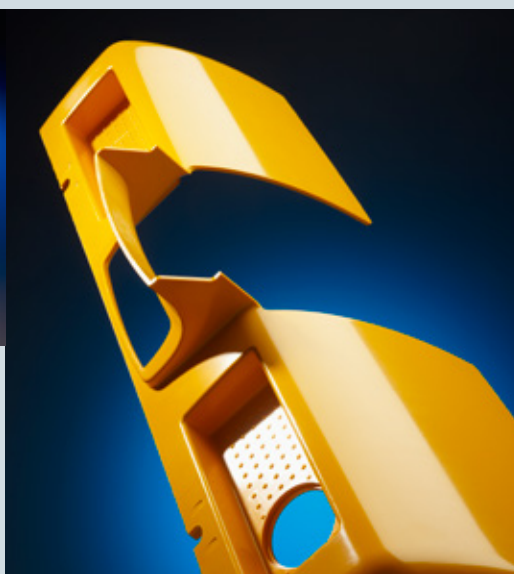




# VDL Wientjes Emmen

VDL WIENTJES EMMEN IS AWARE OF THE INFINITE POSSIBILITIES OFFERED BY PLASTIC. FROM OUR SPECIALIST POSITION WE WILL BE DELIGHTED TO INFORM YOU OF THE VARIOUS PROCESSING TECHNIQUES MASTERED BY US, AND THE LATEST DEVELOPMENTS IN RAW MATERIALS, AS WELL AS HOW THE DIFFERENT PRODUCTION TECHNIQUES CAN BE COMBINED. WE WILL ALSO BE PLEASED TO EXPLAIN TO YOU THE STRENGTH OF OUR POSITION AS A SUPPLIER OF PLASTIC PRODUCTS, FROM SIMPLE TO EXTREMELY COMPLEX PRODUCTS.

For thermoset or thermoplastic products, in small or large series, specialists at VDL Wientjes Emmen are the people to call on. This is confirmed on a daily basis by our broad customer base. Our clients know exactly what they can expect from us, from the very first contact, through to after care for their products. We respond comprehensively to your wishes, and deliver high quality finished products, in the shortest possible time. VDL Wientjes Emmen is characterised by its flat organisation structure, staffed at every level by enthusiastic, customer-friendly and solution-oriented individuals whose task is to deliver your plastic products.







#### **YOUR IDEA, OUR R&D**

VDL Wientjes Emmen has an extensive engineering department and R&D facilities. Even in the design phase, you can call upon this department with its wealth of knowledge and experience. Mould Flow analysis, FEM (strength) calculations and advice, as well as prototyping; anything is possible. In collaboration with our project engineers, this approach enables you to develop a better product that is produced more efficiently, resulting in the lowest life cycle cost; an absolute precondition for the commercial success of your plastic product.

#### **YOUR PRODUCTS, OUR PRODUCTION**

VDL Wientjes Emmen manufactures both thermoset and thermoplastic products. We operate an extensive and modern fleet of machinery, with a wide variety of presses and injection moulding machines. The best products after all demand the best equipment. With that in mind, we invest constantly in our production equipment, and have acquired broad experience with the main processing techniques, and are always among the first to investigate and implement the latest developments. Our processing techniques include:

##### **Sheet Moulding Compound (SMC)**

SMC is a glass fibre-reinforced polyester semi-finished composite plastic. Thanks to development in our own laboratory, the in-house production of SMC and the extensive knowledge of material processing (hot pressing) into finished products, we are the ideal partner when it comes to the use of SMC for your products, that are expected to meet the most stringent requirements. VDL Wientjes Emmen also produces SMC for third parties.

##### **Hot pressing**

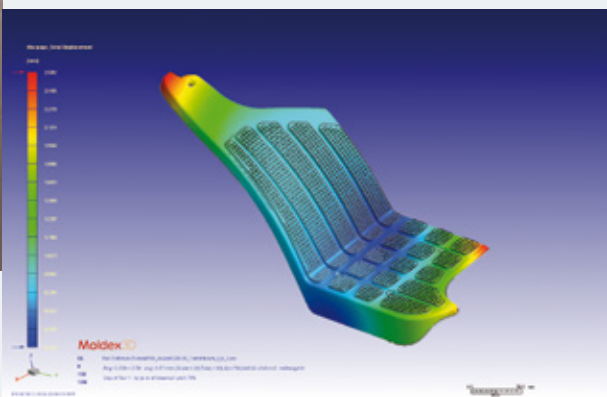
SMC is processed according to the hot pressing method on our state-of-the-art machinery, with clamping forces of 150 up to 4,000 tonnes. This technique offers various advantages, including a high degree of freedom in terms of shape, excellent mechanical characteristics, functional integration and excellent dimensional stability (no deformation), combined with high chemical resistance and flame extinguishing. For the most part, post-production is robotised.





### Injection moulding

VDL Wientjes Emmen operates a very well-equipped injection moulding factory, which houses machines with a clamping force varying from 50 to 2,000 tonnes, each with linear robots with an additional rotary shaft. We also operate a 500 tonne injection moulding machine with a 6-shaft rotary robot. We offer the capacity to use two-component (2K) or even three-component (3K) injection moulding. Other possible processing methods include gas injection, hybrid injection moulding and In-Mould Labelling (IML). If you need high-quality visual, technically-complex, consumer or fibre-reinforced products, VDL Wientjes Emmen can supply the expertise you need.







#### **YOUR PRODUCTS, OUR LOGISTICS**

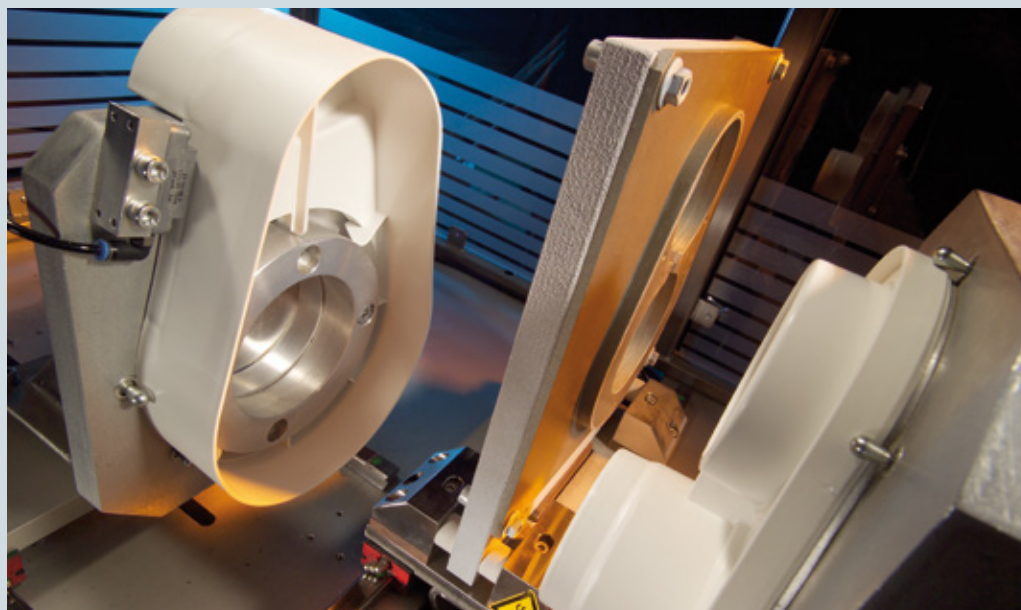
Our logistic department guarantees that your products are delivered at the moment you need them. They translate your orders into production plans and delivery schedules. Open communication with your buyers guarantees just-in-time deliveries, flexibility on delivery dates, the maximum achievable delivery reliability and degree of delivery. To meet these requirements, we have access to a 6,000 m<sup>2</sup> warehouse with around 4,000 pallet spaces.

#### **OUR QUALITY ASSURANCE**

At VDL Wientjes Emmen, quality is priority number one. We make no concessions to quality, although this does impose high demands on both material and processing. VDL Wientjes Emmen is ISO 9001, ISO 14001 and UL certified. We also have the necessary knowledge and experience to plan and implement projects in accordance with ISO TS 16949.

#### **VDL WIENTJES EMMEN IN BRIEF:**

- Supplier of thermoset and thermoplastic products
- In-house design and engineering department (R&D)
- FEM strength calculations and advice
- Mould Flow analysis
- SMC development in own laboratory and in-house production
- Hot pressing
- Injection moulding (also 2K and 3K)
- Gas injection
- Hybrid injection moulding
- In-Mould Labelling (IML)
- Welding and gluing
- Robotised post processing
- Assembly
- Warehousing



# VDL Groep

VDL Wientjes Emmen is part of VDL Groep, an international industrial family-owned company with 87 operating companies, spread over 19 countries and with around 10,400 employees. It is a conglomerate of flexible, independent companies, each with its own specialty. The strength of VDL Groep lies in the mutual cooperation between the companies.

VDL Wientjes Emmen is a subcontracting company. In the subcontracting division, VDL specialises in metalworking, mechatronic systems and system supply, plastics processing and surface treatment.

The other divisions are car assembly, buses & coaches and finished products. The car assembly division includes the production of passenger cars for third parties. The bus & coach division includes chassis & chassis modules, coaches, public transport buses, mini & midi buses, special projects and second-hand buses. The finished products division comprises suspension systems for the automotive industry, heating, cooling and air-technical systems, production automation systems, systems for the oil, gas and petrochemical industry, systems for the agricultural sector, sunbeds, roof boxes, container handling equipment, waste collection systems, cigar-making and packaging machines, components for bulk handling and dust extraction installations and systems for explosion and fire protection.



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