



VDL Nedcar

Press Shop



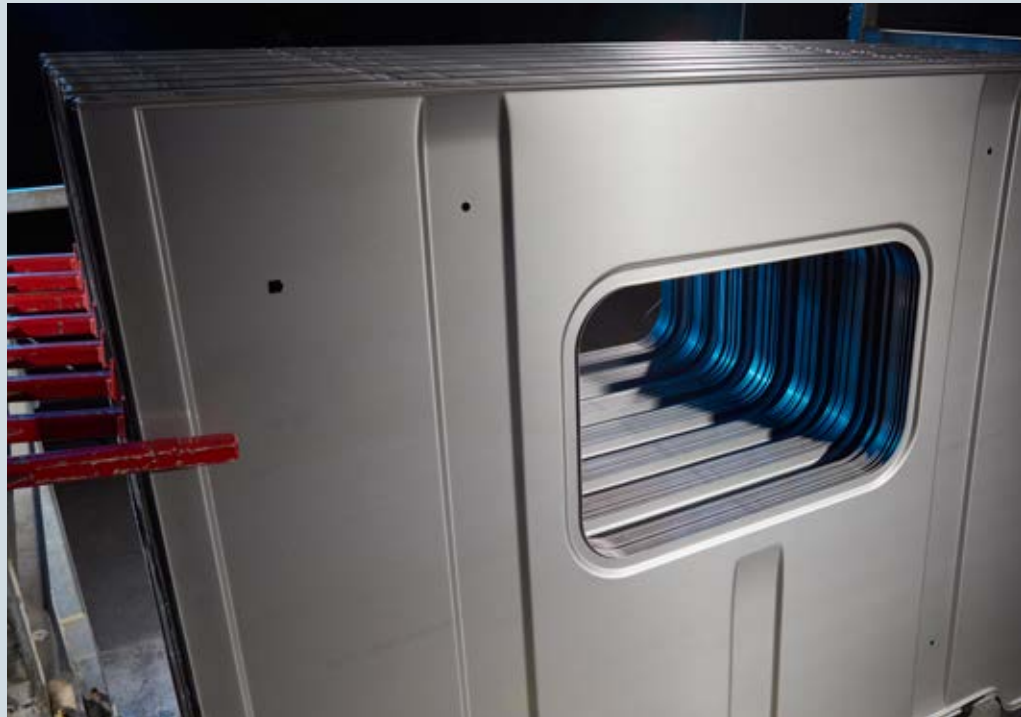
Strength through cooperation





VDL Nedcar

VDL NEDCAR IS AN INDEPENDANT DUTCH VEHICLE CONTRACT MANUFACTURER. IN ITS MODERN FACILITY DIFFERENT CAR TYPES CAN BE PRODUCED SIMULTANEOUSLY ACCORDING TO THE HIGHEST QUALITY STANDARDS. AN IMPORTANT PART OF THE VDL NEDCAR FACILITY IS THE PRESS SHOP. COVERING APPROXIMATELY 26,000 M² THE PRESS SHOP IS, AS A SEPARATE UNIT, A CONTRACT SUPPLIER OFFERING ITS SERVICES TO A VARIETY OF CUSTOMERS. THIS INCLUDES OEM CAR AND TRUCK MANUFACTURERS AS WELL AS NON-AUTOMOTIVE CUSTOMERS.





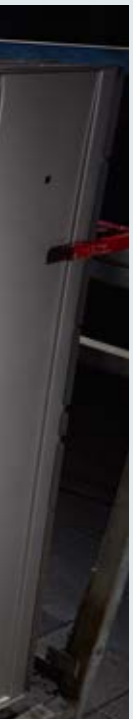
COMPLETE PRODUCTION

Forming, cutting, piercing and flanging of structure parts and exterior skin parts is the core business of the Press Shop which is renowned for its high-quality level in producing class-A outer panels. Allround professionals drive highly sophisticated production techniques, efficient logistics and an entrenched improvement mentality and cost awareness. The on-time delivery of the agreed quantity is our main objective. Communication in connection with forecast, planning, ordering and forwarding procedures nearly always occurs via EDI. New developments are followed-up and supported. You always liaise with your set contact person.



OPTIMAL TOOL DESIGN

Our strength is that for each specific customer or order we determine the most efficient production method for your product, and subsequently design a functional tool for that specific process. The Press Shop's own engineering department is capable to manage new processes and unavoidable product and process changes. Our engineers have extensive experience in engineering processes and tools which enable efficient production over the lifecycle. Involving the engineering department in the early stages of the product development process guarantees the manufacturability of the products, thereby ensuring the required quality standards and best practice cost.



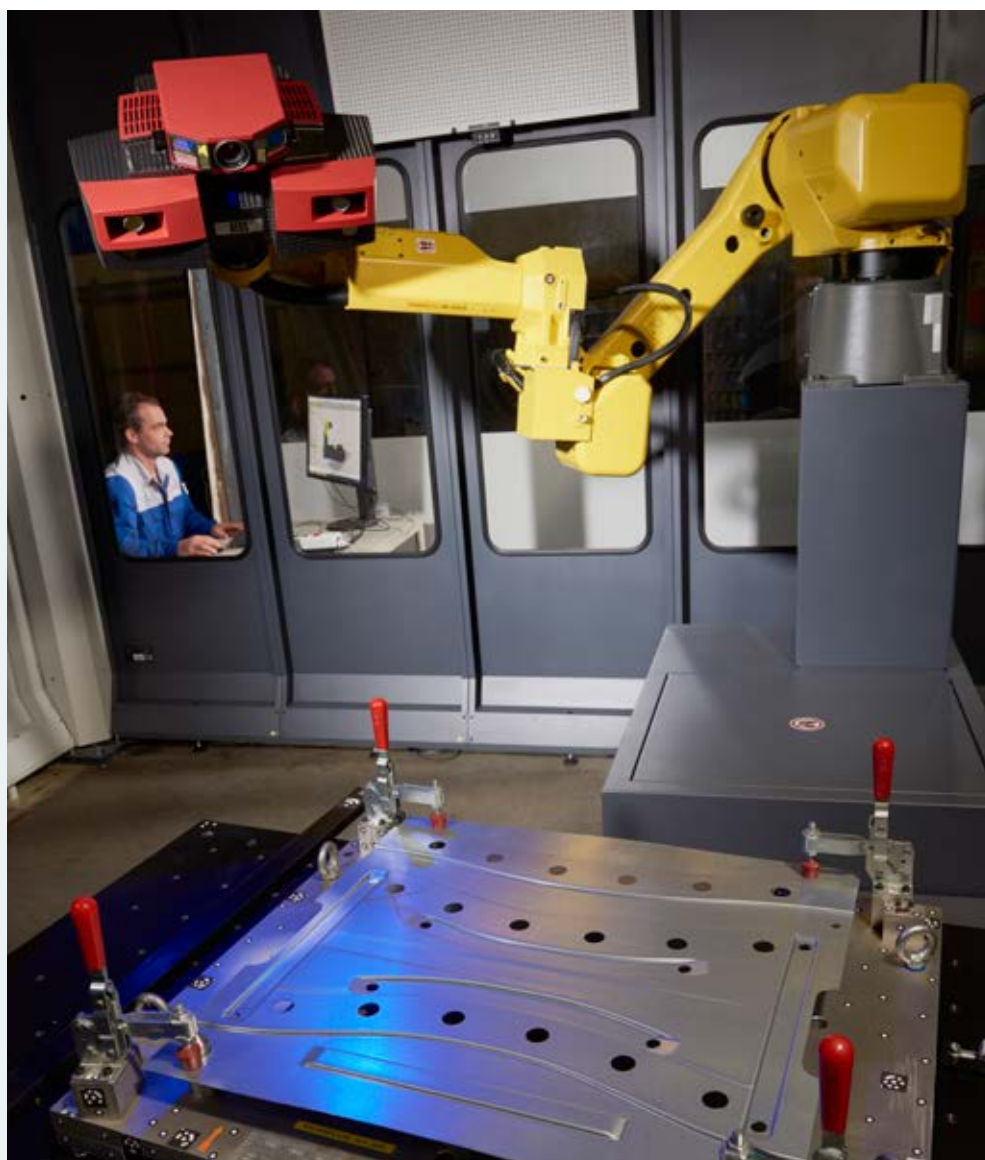


TOOL MAINTENANCE & MODIFICATIONS

The VDL Nedcar Press Shop has its own Tooling shop (having four decades of experience) with highly qualified toolmakers and all necessary (CNC) machining technology, allowing also the largest dies to be maintained and modified in-house. At the Tooling Shop we can also develop and produce the automation equipment and tools to implement processes on the tandem and CCFT press lines.

PRECISE MEASURING

High-quality products demand high-quality extended measuring facilities. VDL Nedcar's Press Shop operates modern 3D CNC and photo scan equipment. Measurement reports can be supplied on request.



QUALITY ASSURANCE & CUSTOMER SATISFACTION

Like VDL Nedcar, the Press Shop positions itself with the profile of a high-quality producer. This is visible through compliance to ISO 9001, ISO 14001 and ISO/TS 16949 standards as well as class A quality levels for outer panels. And of course by high customer satisfaction.



PROFILE

- **Automotive & non-automotive pressed part supplier**
 - Part of VDL Nedcar (VCM)
 - Delivery to VCM and OEM customers
 - Delivery to non-automotive customers
- **Mass/heavy stamping**
 - Mechanical presses up to 1,800 tons
 - Approx. 1,7 M hits/year in 3 shift operation
 - Max. bolstersize 2,350 mm * 4,500 mm
 - 6 tandem lines and 2 CCFT-transfer lines
 - 2 decoil lines (square/trapezium/formblank)
 - Coil width up to 2,000 mm, max. 2.3 mm
 - Structure and Class-A outer panels
 - Integrated pierce-nuts application
 - Emergency insourcing capacity
 - 3D tactile measuring and GOM photo scan
 - Climate controlled parts storage/stock
- **Planning and ordering based on EDI**
- **Excellent logistic connections**
- **Logistic advantage for VCM customers**
- **Quality assurance**
 - ISO TS16949 / ISO14001 / ISO9001 certified
 - Integrated Management System
 - Production Part Approval Process (PPAP)
 - Process and FMEA control
 - Statistical Process Control
 - Continuous Improvement
 - Six Sigma (black belt)
- **Engineering**
 - Process- and method design
 - Die-construction with Catia V5
 - Simulation and feasibility evaluation
 - Simultaneous engineering with the customer
 - Engineering change control
 - Turn key project management until SOP
 - Longterm relationship with highly qualified and experienced die-makers worldwide
- **In-house tool shop**
 - Maintenance and modification of dies (incl. adaptation of dies for insourcing)
 - Draw/trim/pierce/flange dies (max 2,500 mm * 5,000 mm)
 - High skilled and experienced toolmakers
 - 60 tons crane capacity
 - CNC-machining centers
 - EDM-machining
 - Pre-heated welding
 - Max. table size 2,500 mm * 5,000 mm
 - Construction of line automation
 - Construction and maintenance of racks and containers

VDL Groep

VDL Nedcar is part of VDL Groep, an international industrial family-owned company with 87 operating companies, spread over 19 countries and with approximately 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 Nedcar operates in the car assembly division. The car assembly division includes the production of passenger cars for third parties.

The other divisions are subcontracting, buses & coaches and finished products. In subcontracting, VDL specialises in metalworking, mechatronic systems and system supply, plastics processing and surface treatment. 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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