VDM Metals at a glance
With one of the broadest product portfolios of corrosion resistant, high-temperature, high-strength or low-weight nickel, titanium and zirconium alloys as well as high alloyed special stainless steels, VDM Metals ranks among the world’s leading suppliers of materials for highly demanding applications and processes.
Our products and production capabilities

Sheet and plate
Sheets and plates in thicknesses of 0.12 to 3.93 in (3 to 100 mm) with a maximum length of 472 in (12,000 mm) are hot rolled on a four-high mill, before finishing steps such as annealing, shot blasting, pickling, grinding and cutting take place. Furthermore, VDM Metals operates a Sendzimir reversing mill that can process hot-rolled sheet to individual cold-rolled sheets in widths of up to 98.42 in (2,500 mm).

Strip
Strip is cold rolled on four-high and Sendzimir mills. Foil can be rolled down to a thickness of 0.001 in (0.025 mm) on a special 20-high mill. Annealing, leveling and cutting equipment is available for finishing operations to meet customer specifications.

Forgings
VDM Metals’ 45 MN forging press uses two manipulators and receives its feedstock from certified heating and reheating furnaces. Following precisely specified procedures, bars, billets and other semi-finished products are produced.
Rods, bars, billets and shapes
For the production of forged bars in nickel and titanium with a diameter of more than 4.72 in (120 mm) and semifinished products, state-of-the-art turning lathes and peeling machines are available. The production of rolled and forged bars with a diameter of less than 4.72 in (120 mm) is performed with modern peeling and grinding machines. A 60-tonne drawing bench is available for the manufacture of cold-drawn precision bars.

Our U.S. bar products are rolled on a Birdsboro rolling mill capable of accepting ingot and/or billet up to 16 inches in diameter. It has the capability to produce 1.5, 2, 3, 4, and 5 inch standard round cornered squares (RCS), a variety of special sections and narrow plates up to 17 inches wide. Alternatively, the hot rolling of round bar, flat bar, and other custom-designed profiles is performed on both our 10 inch and 14 inch rolling mills. In addition to rolling, VDM Metals USA bar finishing plants are equipped with a cold drawing bench, centerless grinding units, straightening equipment, heat treatment furnaces, pickling, shot blasting, and cutting units in order to meet customer needs.

Wire and welding consumables
A broad portfolio of wires completes VDM Metals’ offering: VDM Metals produces wire in fine and ultra-fine gauges down to a diameter of 0.004 in (0.1 mm), heavy gauge and section wire as well as welding wire.

Main industries we serve
- Aerospace
- Automotive
- Chemical Process Industry
- Electronics and Electrical Engineering
- Medical Engineering
- Oil and Gas
- Power Production
VDM Metals ranks among the world’s leading suppliers of semi-finished metal products in all current forms. Where classic stainless steels reach their limits, alloys from VDM Metals are the only alternative in many cases. Our portfolio covers sheet and plate, strip, wire, rods, bars and shapes, pre-material for tube production, welding consumables, and forgings made of nickel, titanium and zirconium alloys as well as special stainless steels.

We offer customized solutions
In various key technologies, it is customized alloy solutions from VDM Metals that permit the industrial-scale realization and reliable control of important processes and techniques. The products are used in energy and environmental technology, electronics and electrical engineering, in the automotive, aerospace, chemical and petrochemical industries, power plant technology, and in offshore, marine and medical engineering.

We are where you need us to be
The quality of our products and services bases on our integrated production chain in Germany and the United States and a sales network that spans the globe servicing the most demanding industries backed by a strong Research and Development and Application Engineering force. Service Centers in Germany (Werdohl), China (Guangzhou) and Australia (Melbourne), plus a global sales network enable VDM Metals to respond swifly and flexibly to wide-ranging requirements and expectations in complex market environments.

Our experience is the key to your success
VDM Metals can look back on a corporate history of over 80 years. Our technical know-how has grown in the course of decades. Today, VDM Metals operates five production sites in Germany and VDM Metals USA, which is part of the VDM Group, operates two plants in the United States. In all, VDM Metals employs some 2,000 skilled and passionate people worldwide.
Our alloys

The VDM Metals Group produces many other high performance alloys not shown. Please visit us on www.vdm-metals.com for further information.

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Comprehensive customer support

Customer relationships with VDM Metals mean access to a variety of first class services – services that really make the difference.

Application engineering
From selecting the right materials to any request on specifications, properties and fabrication characteristics – VDM Metals’s Application Engineering team will be more than happy to provide you with prompt answers and support, relying on their technical and metallurgical background and experience in all fabrication matters of VDM’s materials.

Material and corrosion tests
Because we want to remain top of the class with every product, we leave nothing to chance in the field of quality management. During their production, our materials pass numerous tests in terms of quality and accuracy, aiming to meet not only the application’s principal requirements but also the more specific needs and specifications of our customers. As a matter of course, VDM Metals is certified by the American Society of Mechanical Engineers and Lloyd’s Register Quality Assurance (ISO 9001:2008, AS 9100 Revision C).

Welding Competence Center
With our state-of-the-art Welding Competence Center we are not only capable to test different materials and welding consumables or new and unconventional materials combinations, but also to train your staff in theory and practice. Make use of our know-how – we are happy to welcome you and your team in our Welding Competence Center.

Research and development (R&D)
New and more efficient processes and techniques frequently involve changes in material requirements. VDM Metals develops, in cooperation with its customers, materials that perfectly satisfy these requirements. However, our aim is not just to develop new materials but also to sound out hidden performance potentials in market-proven alloys which we can then qualify for new applications. Our R&D experts accompany the projects, sometimes right up to commissioning and start-up. The solutions that evolve find their way into new products, as well as techniques and processes.
Values are added values – for us and our customers

More than **300** national patents
for 62 inventions

We are innovative.

85 years of materials expertise

We are experienced.

VDM Metals looks back on a long and eventful history. In 1930, a number of medium-sized family enterprises, including Carl Berg of Werdohl-Eveking founded in 1853, Basse & Selve based in Altena and founded in 1869, and C. Heckmann AG of Duisburg to form Vereinigte Deutsche Metallwerke AG. Since the end of the seventies and the onset of business globalization, VDM has successfully merged into a global player and a leading specialized supplier on the world market.

The take-over of Precision Rolled Products (PRP) in the U.S. with production sites in Florham Park, New Jersey, and Reno, Nevada, enabled VDM to access the most important aerospace market – the United States of America. Today VDM Metals USA specializes in melting and processing long products in high-alloy materials for non-rotating parts used in aerospace applications. It also serves the market segments plant construction and oilfield equipment. The company’s specialist know-how lies in vacuum and remelting technology and the wide range of shaping and machining processes for the starting material. It holds approvals from the leading engine manufacturers.

The next logical steps were the further development of the VIM and ESR technology as well as a 45MN forge at the Unna location. As of 1 October 2009, VDM Metals took over the activities of ThyssenKrupp Titanium, and titanium became an additional part of the product portfolio. Today, VDM Metals is headquartered in Werdohl and is an internationally leading producer and distributor of Nickel Alloys, Titanium and Zirconium.
7 production locations and 3 Service Centers on 4 continents, 16 sales offices and 29 agents around the world

We are customer-oriented.

We produce our materials in Germany and the USA. In Germany we are melting Nickel alloys in Unna. Our laboratories, the forging press, and a part of the bar finishing are located in Unna as well. Smaller diameter bars are finished in Altena. We produce sheets and plates in our facilities in Altena and Siegen. Strip, wire and our welding consumables are produced in our Headquarters in Werdohl. We are melting our Titanium alloys in our Essen plant. All our mills are located within a radius of about 50 miles (80 km) of our Headquarters.

US production melts at Florham Park (NJ), and finishes the bars and shapes in the Reno (NV) plant. Our Service Centers are serving customers around the world from Werdohl (Germany), Guangzhou (PR China), and Melbourne (Australia). We have sales offices in all relevant markets around the globe. Get in contact with us.

Almost 40,000 tons of material delivered in 2013 – more than 130 different nickel alloys, 20 titanium grades and 4 zirconium and cobalt alloys – a broad product portfolio

We are reliable.