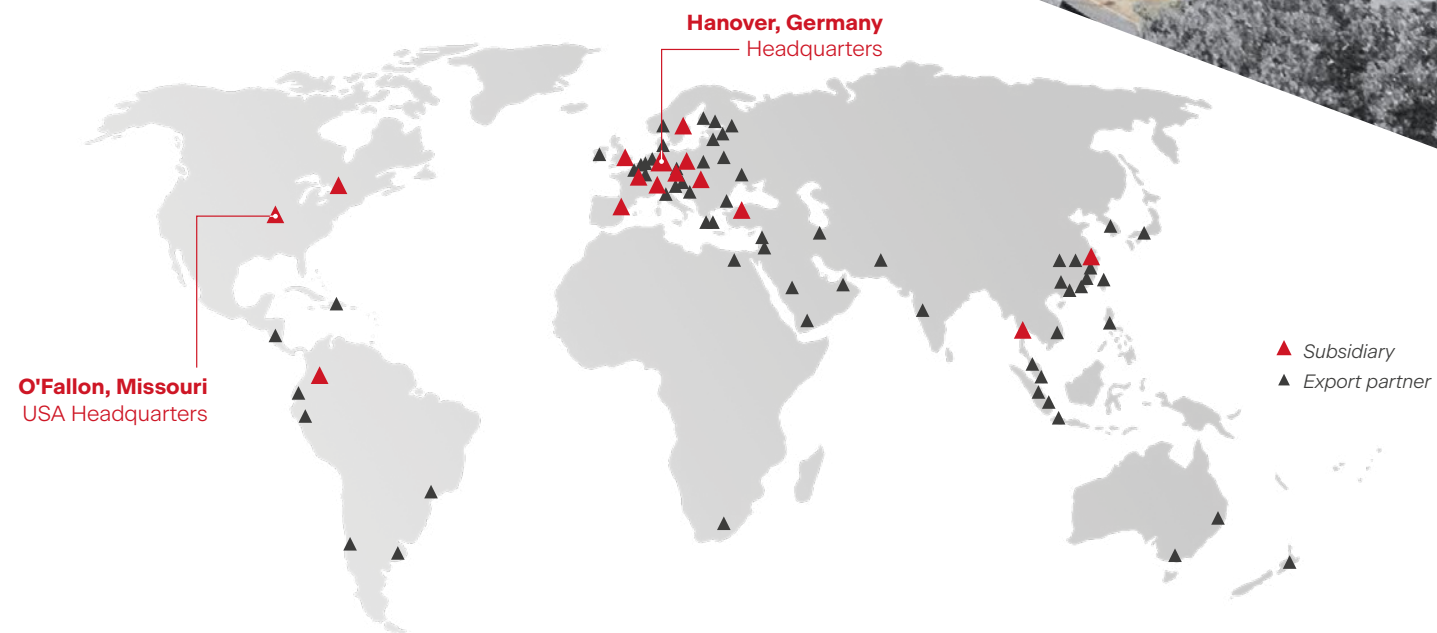


Our Profile

Quality abrasives made in Germany



Germany and worldwide

VSM is the brand name of **VSM - Vereinigte Schmirgel- und Maschinen-Fabriken AG** founded by Siegmund Oppenheim and Siegmund Seeligmann in 1864, and became a public limited company in 1898. Its headquarters are located in Hanover-Hainholz, Germany, where the company was founded. VSM has more than 900 employees worldwide.

With **more than 160 years of experience** in the manufacturing of quality abrasives, VSM is one of the global leaders in the abrasives market. Satisfied customers are the only benchmark for our company's performance. International VSM subsidiaries and a global distribution network ensure that manufacturers can get our full support.

SINCE 1864
OVER 160 YEARS
WE KNOW ABRASIVES

VSM Abrasives USA

As new products are developed in Hanover, Germany, they are shipped to international subsidiaries in the form of jumbo material. These manufacturing facilities then convert the material into the final product form based on end user specifications.

In 1978, the subsidiary known as **VSM Abrasives Corporation** was established to meet a growing demand for coated abrasives in the United States. Just outside St. Louis, Missouri, this location offers manufacturing, customer service and technical support to customers across the country.

Why VSM

Industry-leading expertise in abrasives

Our understanding of abrasive processes is second to none. Not only do we grind every surface to a high-precision finish, we also analyze our customers' specific grinding applications to ensure we always find an optimum long-term solution.

Application-specific know-how is a key differentiator for VSM, and is highly valued by industry, trade and retail customers all over the world.

We make it easy to do business with us by offering contract pricing, competitive rates, and cost savings with a 24-hour turnaround on quotes, helping you minimize account turnover and maximize margins.

Our short lead times on made-to-order items keep your operations running smoothly, while our customized packaging solutions ensure your products stand out.

Quality. Expertise. Customer focus. This is what VSM stands for.

Our day-to-day strategy and decision-making is shaped by our company values.

Quality

- > Vertically integrated
- > Made in Germany, finished in the USA
- > Controlled supply chain

Expertise

- > Territory Managers to support you and your customers (average 10 years experience)
- > Application Engineers (5) for testing and preparing cost savings reports
- > On-site training workshops

Customer focus

- > When you call, we answer
- > Fast, friendly service

Our products

Promise of quality, with thousands of product and grit combinations

Belts

- > **Narrow**
1/8" - 14"
- > **Wide**
15" - 58"



Rolls

- > **Shop rolls**
1" x 50 yds
1 1/2" x 50 yds
2" x 50 yds



Discs

- > **Resin fiber**
- > **Quick change**
- > **PSA**
- > **Hook & loop**



Sheets & Pads

- > **Sheets**
Standard 9" x 11"
(custom sizing available)
- > **Hand pads**
Standard 6" x 9"



Accessories

- > **Back-up pads**
Quick change
Resin fiber
PSA
Hook & loop
Gripper



Industries worldwide



Automotive



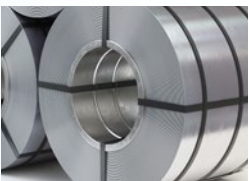
Aerospace



Kitchen



Tank construction



Metal fabrication



Implants



Fittings



Shipbuilding



Tools



Furniture

Quality made in Germany – the champion ceramic grain

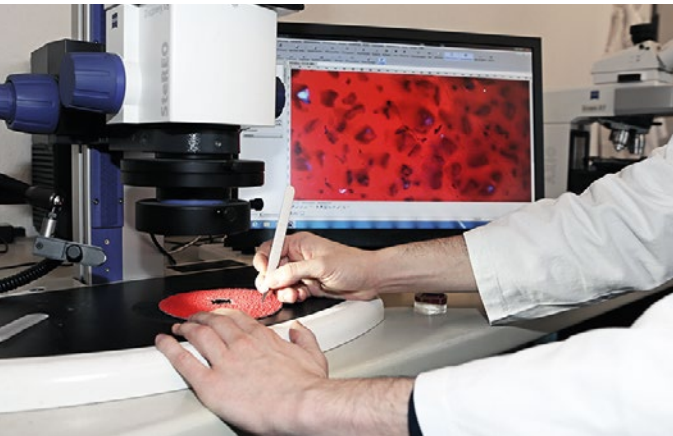
Our quality promise

Finished goods and pre-assembled articles are subjected to continuous quality assurance testing in-house to verify their grinding performance or belt joints. These tests are carried out in our purpose-built, state-of-the-art Grinding Unit as well as our VSM

Competence Center. We have also been certified to the ISO 9001:2015 standard for many years, and are a member of FEPA, oSa and VDS.

Abrasive grain developed in house

At VSM, we develop and manufacture our own ceramic abrasive grain at our Hanover facility making us one of the few producers globally with full in-house control. This allows us to tailor the performance characteristics of our abrasives and continuously enhance grain technologies like our geometrically shaped ACTIROX.



Ceramic grain abrasives are required for demanding grinding tasks. We produce Ceramic grain in-house.



VSM is fully vertically integrated by producing our own raw materials

1



Finishing of backing materials

- > VSM is one of the only abrasives manufacturers worldwide with its own fabric finishing plant.
- > Finishing plant for cotton, polyester and mixed fabrics.

2



Resin production

- > Manufacturing of phenol and urea resins.
- > Resin technology helps the abrasive grain adhere firmly to the backing.

3



Production of abrasive grain

- > VSM is one of the only ceramic grain manufacturers in the world.
- > VSM CERAMICS, CERAMICS Plus and ACTIROX are all made in-house.

4



Coating

- > Optimum orientation of the abrasive grains utilizing special electrostatic coating techniques.
- > Methods used ensure highly aggressive abrasive products

5



Basic goods

- > Basic goods production for further processing. For example, belts, discs and rolls.
- > All material is finished in O'Fallon, Missouri.

Grain Technology

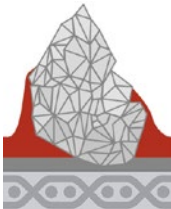
The continuous development of new grain formulations, plus refinement and processing ensures that VSM remains one of the most experienced manufacturers of ceramic grain worldwide. And all “Made in Germany.”

The right grain for every application



VSM ACTIROX

- > Geometrically shaped ceramic abrasive grain
- > Maximum stock removal and a faster-cut for superalloys and stainless steels
- > Reduced temperature in the contact area extends service life



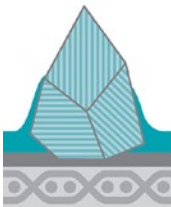
VSM CERAMICS PLUS (CER PLUS)

- > Optimized self-sharpening effect for grinding high-alloy steels under high contact pressure
- > Reduced temperature in contact area
- > Significantly longer service life



VSM CERAMICS (CER)

- > Top product with self-sharpening effect for grinding unalloyed steels and stainless steels
- > Very high stock removal
- > Cool grinding characteristics minimizes discoloration



VSM ZIRCONIA ALUMINA (ZA)

- > Abrasive with constant self-sharpening
- > Prolonged and high grinding performance
- > Very high stock removal for medium and high pressure applications



VSM SILICON CARBIDE (SiC)

- > Very hard
- > Ideal for working titanium, glass, minerals, ceramic, china and stones



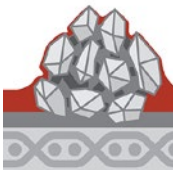
VSM ALUMINUM OXIDE (A/O)

- > General purpose grain for many different metal applications
- > Perfect combination of toughness and hardness
- > Ideal for intermediate and finish grinding



VSM COMPACTGRAIN PLUS (COM PLUS)

- > Extremely long service life
- > Uniform stock removal
- > Reproducible surface finishes and consistent roughness
- > Constant self-sharpening thanks to the granulate structure



VSM COMPACTGRAIN (COM)

- > Uniform stock removal to the backing material extends service life and produces consistent surfaces
- > Improved bonding properties
- > Constant self-sharpening thanks to the granulate structure



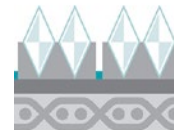
VSM XELERION

- > Randomized dot structure containing fine grit abrasives
- > High initial aggressiveness and constant stock removal
- > Flawless and uniform surfaces for high gloss in low pressure applications



VSM ILUMERON

- > Full faced coated long-term abrasive with special applied bonding
- > For fine and consistent surfaces with a high gloss level
- > Developed for stainless steels, superalloys and unalloyed steels



VSM DIAMOND/CBN (DA/BA)

- > Extremely hard
- > For grinding coated and hard, brittle materials such as titanium/tungsten carbide, glass, marble and granite



VSM NON-WOVEN

- > Perfectly follows the shape of a workpiece
- > For premium scratch patterns which can easily be reproduced
- > Available as A/O and SiC

Additional grinding-active layers for specific applications



The **TOP SIZE** coat is a grinding-active additional layer that reduces the temperature in the grinding zone.



Abrasives with an **antistatic** coat are primarily used for woodworking. They prevent the build-up of an electrostatic charge so that the grinding dust does not adhere to the workpiece or the machine.



The anti-adhesive layer **ALU-X** is primarily designed for non-ferrous metals. It prevents chip adhesion and clogging of the abrasive. It also enhances the service life of the abrasive.

1864

1930

1955



1978



2005



2015



2017

A roll of brown, textured sandpaper, likely used for sanding wood or metal. The roll is partially unrolled, showing the fine, granular surface. The inner core of the roll is visible, showing a light-colored, possibly cardboard or paper, backing. The sandpaper has a slightly uneven, fibrous appearance.

2018



2023



2024



VSM – More than just three letters

Quality. Expertise. Customer focus.
This is what VSM stands for.

Very few others understand grinding processes like we do. Not only do we grind every surface to precision, we also analyze the specific grinding applications of our customers so that we can always find the best, long-term solution. Process-related expertise is one of the distinguishing features of VSM.

whether your company is large or small. Thanks to our close collaboration with machine manufacturers, cutting fluid experts, and research institutes, we ensure that our customers can benefit from technological trends.

**We make our expertise
available for you**

The VSM Technical Center (TC) in Hanover provides an opportunity for product training, seminars and extensive application tests. Customer applications can be adjusted and results reviewed. This service from VSM reduces downtimes and productivity losses for our customers.

We know abrasives

VSM develops and produces all the main components such as backing fabrics, resin bonds and abrasive grains at its Hanover site. By doing so, we fulfill our high, self-imposed requirements in industrial, the commercial and trade sectors. The continuous development of further grain compositions, their refinement and processing ensures that VSM remains one of the most experienced manufacturers of ceramic grain worldwide.

Certified and recognized worldwide

VSM has been certified to ISO standard 9001:2008 as its basis for quality assurance for many years. In addition, it is a member of FEPA, oSa and the German Abrasives Association (VDS).

Application-based expertise

We see all grinding processes of our customers as the challenge. A global network of VSM specialists provides expert advice wherever it is needed irrespective of



Closer to you

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