

**FIBRE DISCS**

**High-performance  
fibre discs**

# Our fibre discs



## Your grinding operation

Deburring



Bevelling



Levelling of welding seams



Cleaning



Removal of imperfections



Smoothing and polishing



Grinding of cast parts

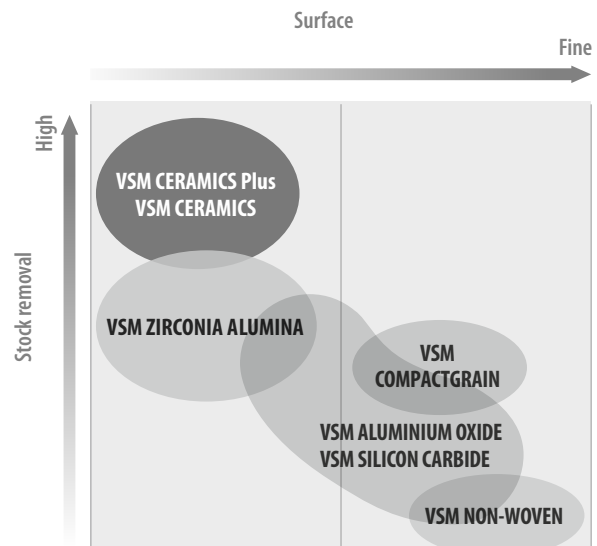


# VSM – Your specialist for fibre discs

## Your advantages at a glance

- > High stock removal per unit of time with very long service life
- > Excellent handling due to absolute running smoothness and extra edge flexibility
- > Maximum user protection thanks to consistent quality assurance under the stringent requirements of the oSa is paramount for VSM
- > Fibre discs with **VSM TOP SIZE** increase the cutting performance and reduce the temperature in the grinding area. This avoids the risk of structural changes

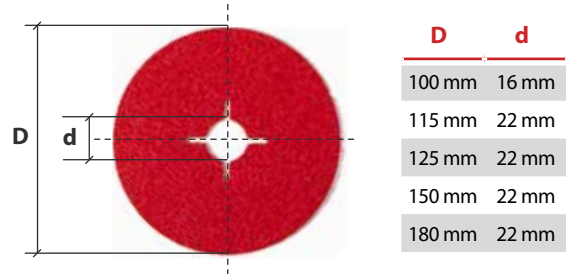
**VSM fibre discs are quality abrasives made in Germany.**



# The perfect fibre disc for every application

## Dimensions and shapes of fibre discs

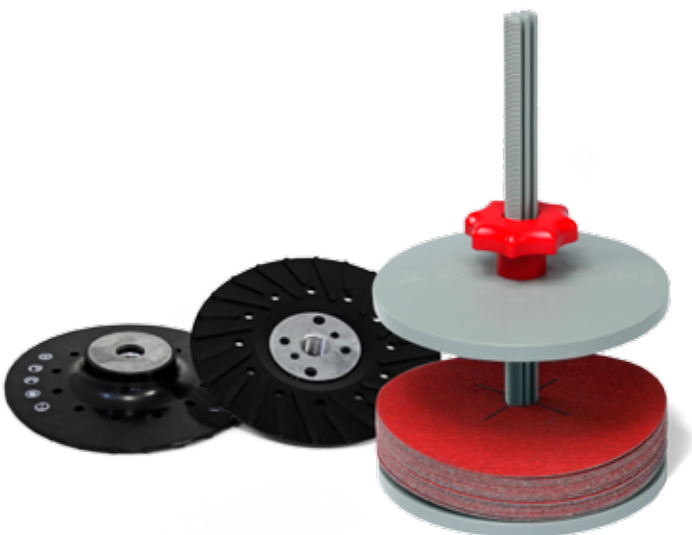
VSM fibre discs are suitable for a large range of applications. This is why they are available in a variety of different dimensions and shapes. In addition to slotted discs with a cross-shaped centre slot other shapes such as discs with a circular opening in the middle are included in our offering.



Fibre disc shapes	flat with centre hole	cambered with spherical cap, standard	cambered with recessed centre
 <i>non-slotted</i>	S0	S01	S05 (only ø 180 mm)
 <i>cross-shaped centre slot</i>	S1	S11	S15 (only ø 180 mm)
 <i>Special shapes (such as rosettes, polygon shapes) are available upon request.</i>			

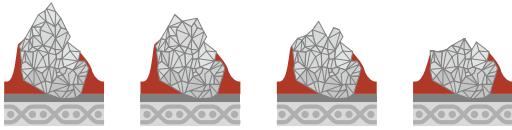
## Accessories

- > **VSM fibre disc holders** are ideal for properly storing fibre discs. The unique holder firmly keeps the discs in place and prevents any deformation.
- > VSM provides an extensive range of **backing pads** which are tailored to accommodate the VSM fibre discs. The **VSM turbo pad** ensures better heat transfer thanks to its cooling fins during operations which require high stock removal. This makes the pad the ideal product for the **VSM CERAMICS Plus** series XF885.

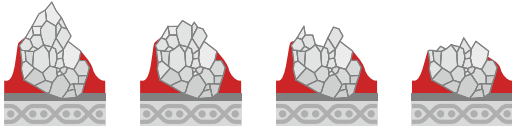


# The perfect grain for perfect machining

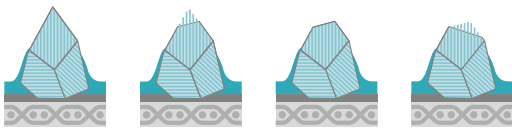
NEW



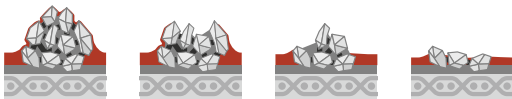
VSM CERAMICS Plus



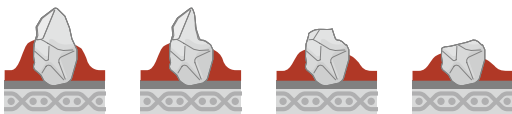
VSM CERAMICS



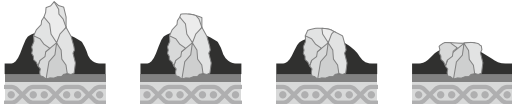
VSM ZIRCONIA ALUMINA



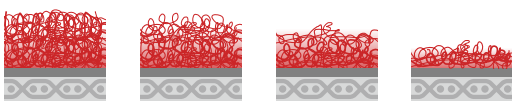
VSM COMPACTGRAIN



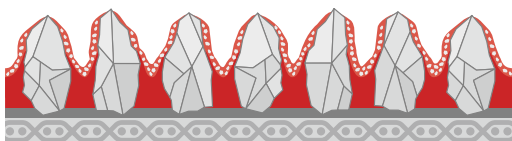
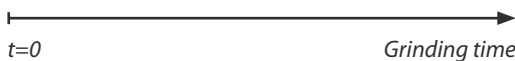
VSM ALUMINIUM OXIDE



VSM SILICON CARBIDE



VSM NON-WOVEN



VSM TOP SIZE

## VSM CERAMICS Plus und VSM CERAMICS

- > Speciality products with continuous self-sharpening
- > Extremely high stock removal
- > Enhanced service life
- > Optimised for machining hard materials

## VSM ZIRCONIA ALUMINA

- > Speciality product with continuous self-sharpening
- > Extremely high stock removal for medium contact pressures
- > Excellent for carbon steels

## VSM COMPACTGRAIN

- > Continuous self-sharpening due to the structure of the granulate
- > Uniform stock removal
- > Perfect surface finishes and consistent roughness

## VSM ALUMINIUM OXIDE

- > Extremely hard when sufficient toughness is ensured
- > Universal grain for machining metals

## VSM SILICON CARBIDE

- > Extremely hard
- > The ideal abrasive for processing glass, minerals, ceramics, titanium, brass, bronze and steel

## VSM NON-WOVEN

- > Adapts easily due to its flexible structure
- > Consistent scratch pattern

## VSM additional grinding-active layer

- > **VSM TOP SIZE** – for dry grinding of stainless and heat-resistant steels. Reduces the operating temperature and avoids changes of the structure of the workpiece.

# Product overview



Grain type	Feature	16	20	24	30	36	40	50	60	80	100	120	150	180	220	VSM series
VSM CERAMICS Plus	TOP SIZE		■	■		■	■	■	■	■	■	■				XF885
VSM CERAMICS	TOP SIZE			■		■	■	■	■	■	■	■				XF870
VSM CERAMICS	TOP SIZE					■	■	■	■	■						XF850
VSM CERAMICS				■		■	■	■	■	■		■				XF760
VSM COMPACTGRAIN ALUMINIUM OXIDE														■		KF712
VSM COMPACTGRAIN ALUMINIUM OXIDE												■		■		KF736
VSM ZIRCONIA ALUMINA	TOP SIZE					■	■		■	■						ZF844
VSM ZIRCONIA ALUMINA						■										ZF745
VSM ZIRCONIA ALUMINA				■		■	■	■	■	■		■				ZF714
VSM ZIRCONIA ALUMINA				■		■	■	■	■	■		■				ZF713
VSM ALUMINIUM OXIDE	TOP SIZE					■		■	■	■	■	■	■	■	■	KF808
VSM ALUMINIUM OXIDE		■		■	■	■	■	■	■	■	■	■				KF708
VSM SILICON CARBIDE				■		■			■	■		■				SF08
VSM NON-WOVEN ALUMINIUM OXIDE										■		■				KV707

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# VSM – More than just three letters

## **VSM stands for competence, quality and customer orientation.**

Very few others understand grinding processes like we do. Not only do we grind every surface to precision, we also analyse 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.

## **We know abrasives**

Because we understand them. VSM develops and produces all the main preliminary products such as backing fabrics, resinoid bonds and abrasive grains at its Hanover site. By doing so, we fulfil our high, self-imposed requirements in industry, the commercial and trade sector. 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.

## **Application-based expertise**

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

## **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.

## **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).



# A worldwide leader in abrasives.



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