



# 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

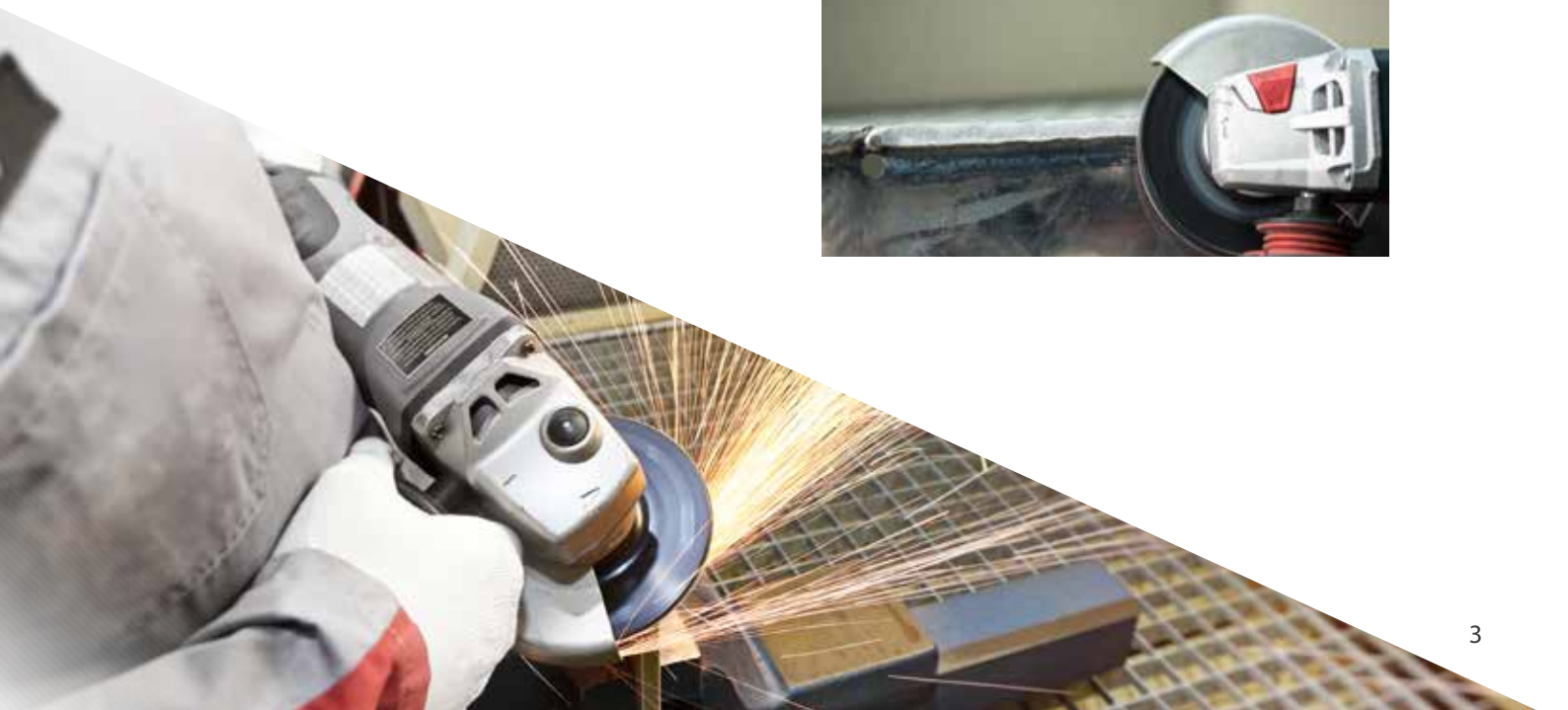
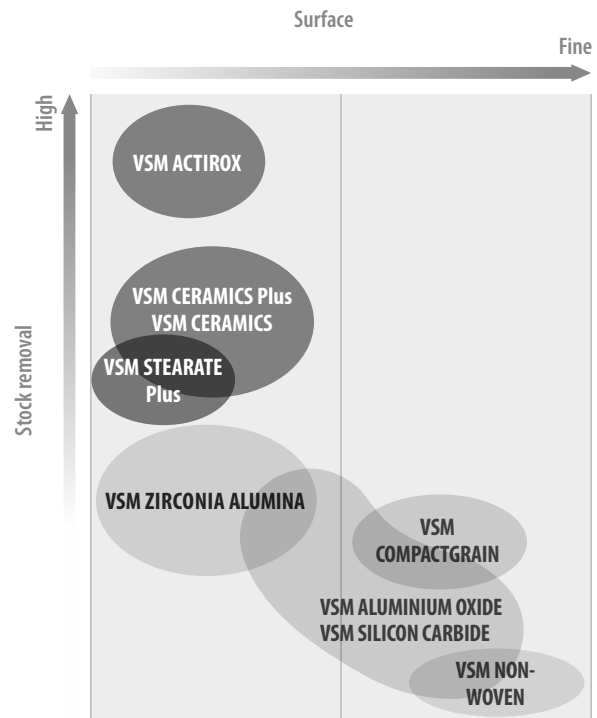


# VSM – Your specialist for fibre discs

## Your advantages at a glance

- > Excellent handling with **no noise or vibration** plus **extra edge flexibility**
- > **Optimum user protection** thanks to continuous quality assurance in line with stringent oSa requirements
- > **Maximum stock removal** and **faster grinding** thanks to geometrically shaped ceramic grain with **VSM ACTIROX**
- > Significant **reductions to chip adhesion** have been achieved with the new **VSM STEARATE Plus** technology, a combination of **VSM CERAMICS** abrasive grain and STEARATE

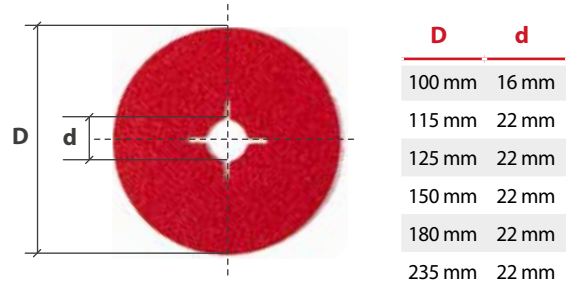
**VSM fibre discs are quality abrasives made in Germany.**

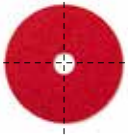
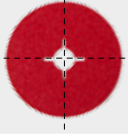

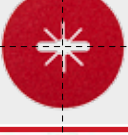
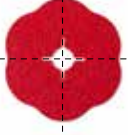


# The perfect fibre disc for every application

## 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 (only $\varnothing$ 180 mm and 235 mm)	S05 (only $\varnothing$ 180 mm)
 <i>Cross-shaped centre slot</i>	S1	S11 (only $\varnothing$ 180 mm and 235 mm)	S15 (only $\varnothing$ 180 mm)
 <i>Eight-way slot</i>	S8		
 <i>X-Lock</i>	SX ( $\varnothing$ 115 mm and 125 mm only)		
 <i>Special shapes (such as rosettes, polygon shapes) are available upon request.</i>			



## Accessories

- > **VSM fibre disc holders** are ideal for properly storing. 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.

# VSM grain technologies in the spotlight

## VSM ACTIROX

NEW



- > **Geometrically formed** ceramic grain
- > Maximum stock removal and a faster cut for superalloys and stainless steels
- > Cool grinding extends the service life thanks to VSM TOP SIZE

## VSM CERAMICS · (CER)



- > Top product with **self-sharpening effect** for processing non-alloyed steels and stainless steels
- > Cool grinding allows longer contact times

## VSM COMPACTGRAIN · (COM)



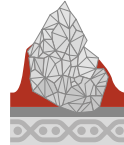
- > **Long-term abrasive** achieves reproducible surface finishes and consistent roughness
- > Continuous self-sharpening thanks to the granulate structure

## VSM ALUMINIUM OXIDE · (AO)



- > Universal grain for many different metal applications
- > Ideal for intermediate grinding and finishing

## VSM CERAMICS Plus · (CER Plus)



- > **Optimised self-sharpening effect** when processing high-alloyed steels ensures very high stock removal rates
- > Reduced temperature in the contact area
- > Significantly extended service life

## VSM ZIRCONIA ALUMINA · (ZA)



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

## VSM SILICON CARBIDE · (SIC)



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

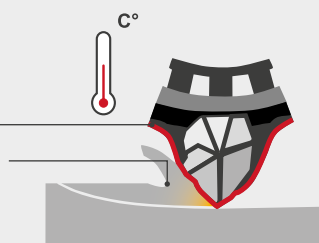
## VSM NON-WOVEN



- > Perfectly follows the shape of a workpiece
- > For premium scratch patterns which can easily be reproduced
- > Available as AO and SIC

## VSM grinding-active additional layers

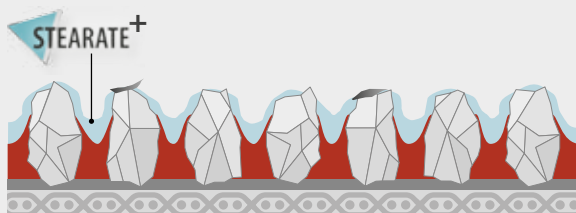
VSM TOP SIZE  
Less heat generated in the grinding zone ("cool grinding")



**VSM TOP SIZE** is recommended for dry machining heat-resistant stainless steels and non-ferrous metals. The grinding-active additional layer improves the cutting performance whilst reducing the temperature in the contact zone. This significantly extends the service life of the abrasive.

**VSM STEARATE Plus** and **VSM STEARATE** significantly reduce chip adhesion when processing non-ferrous metals and thus also reduce clogging of the abrasive. The service life is assured and extended so dramatically that excellent stock removal is achieved even after longer periods of use.

NEW



VSM STEARATE Plus

# Product overview



Stock removal ← → Surface

Grain type	Feature	16	20	24	30	36	40	50	60	80	100	120	150	180	220	VSM series
<b>NEW</b> VSM ACTIROX	▼ TOP SIZE					■										AF890
<b>NEW</b> VSM ACTIROX						■										AF799
VSM CERAMICS Plus	▼ TOP SIZE		■	■		■	■	■	■	■	■	■				XF885
VSM CERAMICS	▼ TOP SIZE			■		■	■	■	■	■	■	■				XF870
VSM CERAMICS	▼ TOP SIZE					■	■	■	■	■						XF850
VSM CERAMICS				■		■	■	■	■	■		■				XF760
<b>NEW</b> VSM STEARATE Plus	◀ STEARATE <sup>+</sup>			■		■		■	■							XF733
VSM COMPACTGRAIN (AO)												■		■		KF736
VSM ZIRCONIA ALUMINA	▼ TOP SIZE					■	■		■	■						ZF844
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 (AO)											■			■		KV707

Last revised: 02/2019

## Legend:

AO = ALUMINIUM OXIDE

▼ TOP SIZE

Grinding-active additional layer reduces the temperature in the grinding zone

◀ STEARATE<sup>+</sup>

The combination of VSM CERAMICS and STEARATE significantly reduces chip adhesion

## Recommended backing pads

TURBO PAD 1



Hard, with cooling ribs

TURBO PAD 2



Hard, with cooling ribs, cambered

TURBO PAD 3



Extra hard, with cooling ribs, cambered, for maximum stock removal

Universal backing pad



Medium-hard



# 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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