



VSM COMPACTGRAIN Plus VSM COMPACTGRAIN

Self-sharpening long-term abrasive for consistent
and reproducible surfaces

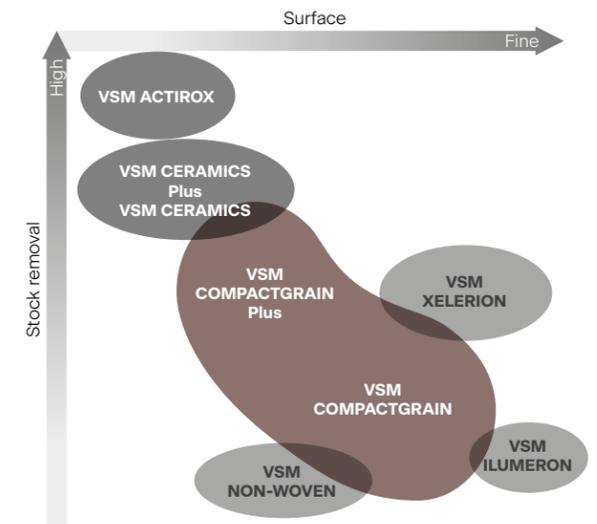
VSM COMPACTGRAIN – for efficient grinding



Your advantages at a glance

- > Optimal **self-sharpening properties** ensure **consistent, repeatable surface results**.
- > Exceptionally long service life delivers a uniform scratch pattern with **steady roughness and reliable gloss levels**.
- > VSM consistently delivers premium quality products, proudly **Made in Germany**.

The right grain for every application



Your workpiece



Coils



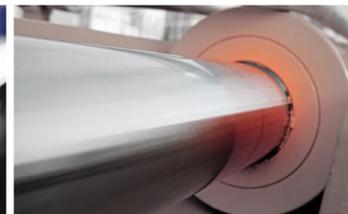
Sheets



Square steel



Tubes



Piston rods and cylinders



Tank and plant construction



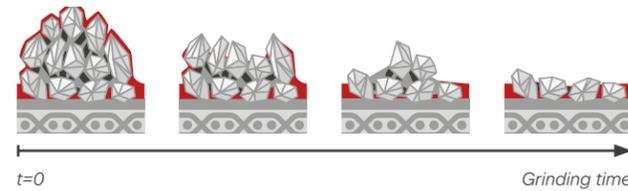
Medical instruments



Large catering facilities

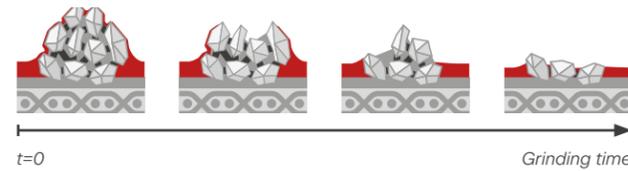
Uniform stock removal producing a consistent surface finish

VSM COMPACTGRAIN Plus



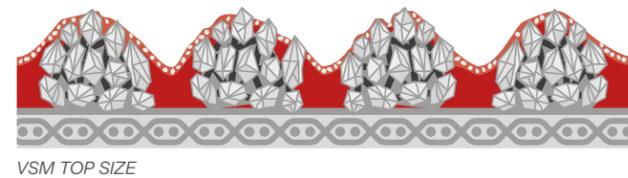
With an optimized grain reserve and enhanced bonding properties, the **VSM COMPACTGRAIN Plus** series ensures a more uniform wear pattern. This allows the abrasive granulate to be fully utilized down to the backing material, resulting in extended service life and a consistently even surface finish.

VSM COMPACTGRAIN



All **VSM COMPACTGRAIN** series take advantage of the self-sharpening effect of VSM's abrasive grains. These long-lasting abrasives are composed entirely of granules packed with multiple abrasive particles. As grinding forces act on the material, worn grains break away from the granulate, continuously revealing fresh, sharp cutting edges.

Grinding active additional layer



TOP SIZE **VSM TOP SIZE** is ideal for dry machining of stainless steel, heat-resistant alloys, and non-ferrous metals. Its additional grinding-active layer boosts cutting efficiency while significantly reducing heat in the grinding zone. This results in a noticeably longer abrasive service life.

Producing our own raw materials in-house is a special feature of VSM's abrasive production



Our Products

COMPACTGRAIN PLUS



VSM Series	Max. width	Wide belts	Narrow belts	PSA	H&L	Backing	Grain type	Features	P60	P80	P120	P180	P240	P320	P400	P600	P800	P1000	P1200	
KK790Y	42 in	●	●	●		Y-Polyester	A/O	♠												
KK791Y	42 in	⊙	⊙	⊙		Y-Polyester	A/O	♠												

COMPACTGRAIN



VSM Series	Max. width	Wide belts	Narrow belts	Resin fiber	PSA	H&L	Backing	Grain type	Features	P60	P80	P120	P180	P240	P320	P400	P600	P800	P1000	P1200		
CK742J	42 in		○		○		J-Cotton	SiC														
CK743J	42 in		⊙		⊙		J-Cotton	SiC														
CK748X	42 in	●	●		●		X-Polyester	SiC	♠													
CK772T	42 in	○	○		○		T-Polyester	SiC	♠													
CK918X	42 in	⊙	⊙		⊙		X-Polyester	SiC	♠													
KF736				⊙			Fiber	A/O														
KK712F	42 in		○		○		F-Cotton	A/O														
KK712J	42 in		⊙		⊙		J-Cotton	A/O														
KK712X	42 in	⊙	⊙		⊙	⊙	X-Polyester	A/O	♠													
KK718X	42 in	●	●		●		X-Polyester	A/O	♠													
KK731X	42 in	○	○		○	○	X-Cotton	A/O														
KK770J	42 in	○	○		○		J-Polyester	A/O	♠													
KK772J	42 in	○	○		○		J-Polyester	A/O	♠													
KK772X	42 in	⊙	⊙		⊙		X-Polyester	A/O	♠													
KK834X	42 in	⊙	⊙		⊙		X-Polyester	A/O	♠ TOP SIZE													
KP712	57 in	⊙	⊙		⊙		F-Paper	A/O														
LK719X	57 in	●	●		●		X-Polyester	A/O	♠													
XK786X	57 in	⊙	⊙		⊙		X-Polyester	CER	♠	A	A	A										
XK789X	57 in	●	●		●		X-Polyester	CER	♠	A	A											

Key

- for low to medium contact pressure
- ⊙ for medium contact pressure
- for medium to high contact pressure
- ♠ also suitable for wet grinding
- A ANSI graded

TOP SIZE

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

Cotton and Polyester

Flexibility of the backing material:

- E extremely flexible
- F very flexible
- J flexible
- T moderate
- X sturdy
- Y very sturdy
- Z extremely sturdy

Paper

Flexibility of the backing material:

- A approx. 70 g/m²
- B approx. 100 g/m²
- C approx. 120 g/m²
- D approx. 160 g/m²
- E approx. 250 g/m²
- F approx. 300 g/m²



Case studies

Polishing of tubes



Workpiece	Tube with weld
Material	Stainless steel
Contact element	–
Cutting speed	6800 SFPM
Feed rate	20 ft/min
Series	VSM COMPACTGRAIN CK748X
Grit	180, 240, 400, 600
Lubricant	Oil
Result	> Increase in service life from 130 minutes (competition) to 400 minutes

Weld blending



Workpiece	Welded tubes
Material	Carbon and stainless steel
Contact element	Wheel
Cutting speed	7000 SFPM
Feed rate	Manual
Series	VSM COMPACTGRAIN KK731X
Grit	180
Lubricant	–
Result	> Extend belt life by 30% > Lower production cost than leading competitors

VSM – More than just three letters

VSM stands for competence, quality and customer service.

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.

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, 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.

Application-based expertise

We see all 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.

We make our expertise available for you

The VSM Competence Center (CC) 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).



Closer to you



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