



VSM COMPACTGRAIN Plus VSM COMPACTGRAIN

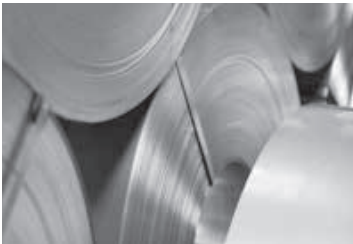
Self-sharpening long-term abrasive for consistent
and reproducible surfaces

The original – VSM CO




MADE IN GERMANY

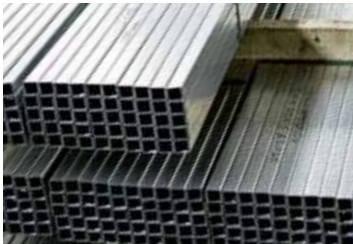
Your workpiece



Coils



Sheets



Square steel



Tubes

IMPACTGRAIN

Long-term abrasive for perfectly finished surfaces

VSM offers the largest range in the marketplace with more than 30 compact grain series, in order to meet almost any customer requirement. You may rely on a consistently high quality of our long-term abrasives: **VSM COMPACTGRAIN** – known to be **the original** – for more than forty years.

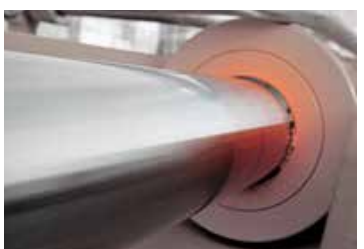
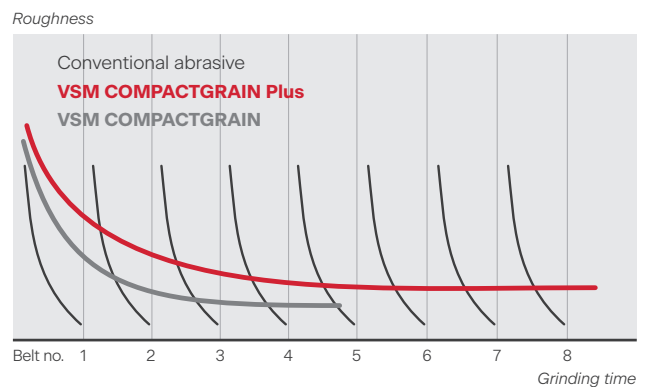
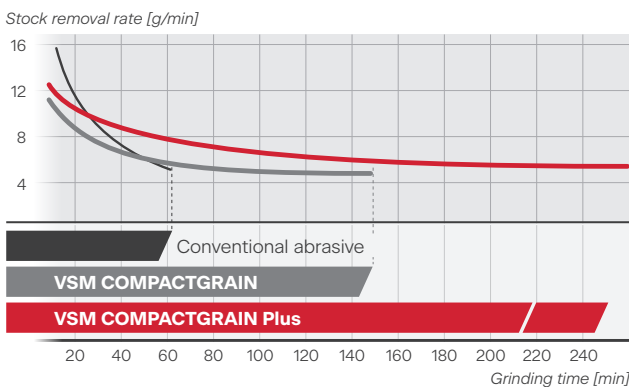


Impressive from start to finish

- > Optimum **self-sharpening effect** and **consistent, reproducible surface values**
- > Extremely long service life for a uniform scratch pattern with **constant roughness and stable gloss values**
- > VSM can be relied on to always deliver premium quality – **Made in Germany**

VSM COMPACTGRAIN Plus

- > A **substantial increase in service life** compared to conventional abrasives translates into fewer tool changes
- > A **more uniform surface** finish and a **more consistent scratch pattern**
- > **Constant stock removal**, thanks to a **more even wear pattern**, guarantees a higher process stability



Piston rods and cylinders Tank and plant construction



Medical instruments



Large catering facilities

Case studies

Grinding of stainless steel coils



Workpiece	Coil 1,200 m in length
Material	Stainless steel
Contact element	Rubberised roll Hardness: 80° Shore A
Cutting speed	25 m/sec
Feed rate	37 m/min
Series	VSM COMPACTGRAIN Plus KK790Y
Grit size	180
Lubricant	Oil
Result	<ul style="list-style-type: none"> > Two-fold increase in service life: Grinding of two coils with one belt (2,400 m) > Reduction of set-up costs/downtimes > Reduction of the costs of belts disposals

Grinding of tubes

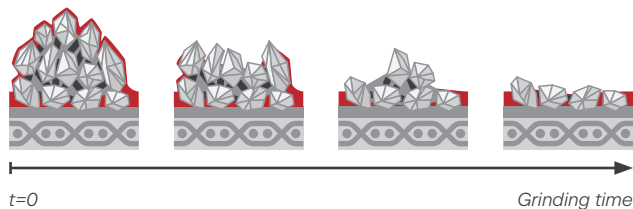


Workpiece	Tube with weld
Material	Stainless steel
Contact element	–
Cutting speed	35 m/sec
Feed rate	6–8 m/min
Series	VSM COMPACTGRAIN CK748X
Grit size	180, 240, 400, 600
Lubricant	Oil
Result	<ul style="list-style-type: none"> > It was possible to produce a customized finish > Increase in service life from 130 minutes (competition) to 400 minutes



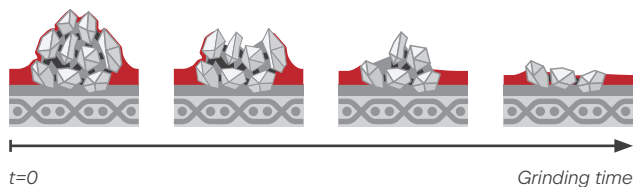
Uniform stock removal producing consistent surface values

VSM COMPACTGRAIN Plus



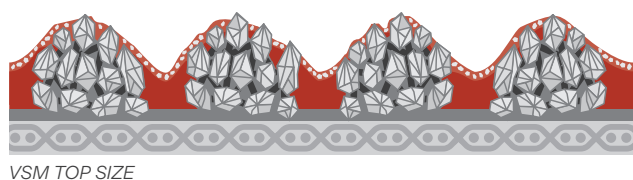
Thanks to an optimized grain reserve in conjunction with improved bonding properties, **VSM COMPACTGRAIN Plus** series feature a more uniform wear pattern. This means that all of the granulate is used down to the substrate. This added benefit translates into an prolonged service life and a uniform surface finish.

VSM COMPACTGRAIN



All established **VSM COMPACTGRAIN** series benefit from the self-sharpening effect of the VSM abrasive grain. The long-term abrasive are completely made of granules with scores of abrasive grains. Once used, grains are broken out of the granulate by the grinding forces exposing new and sharp grain tips.

Grinding active additional layer



TOP SIZE **VSM TOP SIZE** is recommended for dry machining of stainless and heat-resistant steels and non-ferrous metals. The additional layer with grinding additives improves the cutting performance while the temperature in the grinding area is reduced. The service life of the abrasive is enhanced considerably.

Products



VSM Series	Rolls (max. width mm)	Wide belts	Narrow belts	Discs	Backing	Grain technology	Features	40	60	80	120	180	240	320	400	600	800	1000	1200
KK791Y	1.090	⊙	⊙		Cloth	VSM COMPACTGRAIN Plus (AO)	♢												
KK790Y	1.090	●	●		Cloth	VSM COMPACTGRAIN Plus (AO)	♢												
XK789X	1.480	●	●		Cloth	VSM COMPACTGRAIN (CER)	♢												
XK786X	1.480	●	●		Cloth	VSM COMPACTGRAIN (CER)	♢												
LK719X	1.480	●	●		Cloth	VSM COMPACTGRAIN (AO)	♢												
KK718X	1.090	●	●		Cloth	VSM COMPACTGRAIN (AO)	♢												
KK834X	1.090	⊙	⊙		Cloth	VSM COMPACTGRAIN (AO)	♣ TOP SIZE, ♢												
KK712Y	1.480	⊙	⊙		Cloth	VSM COMPACTGRAIN (AO)	♢												
KK712X	1.480/1.090	⊙	⊙		Cloth	VSM COMPACTGRAIN (AO)	♢												
KK712J	1.090		⊙		Cloth	VSM COMPACTGRAIN (AO)													
KK731X	1.090	○	○		Cloth	VSM COMPACTGRAIN (AO)													
KK731K	1.090			○	Cloth	VSM COMPACTGRAIN (AO)													
KK772X	1.090	⊙	⊙		Cloth	VSM COMPACTGRAIN (AO)	♢												
KK772K	1.090			○	Cloth	VSM COMPACTGRAIN (AO)													
KK772J	1.090	○	○		Cloth	VSM COMPACTGRAIN (AO)	♢												
KK712F	1.050		○		Cloth	VSM COMPACTGRAIN (AO)													
KK770J	1.090		○		Cloth	VSM COMPACTGRAIN (AO)	♢												
CK748X	1.090	⊙	⊙		Cloth	VSM COMPACTGRAIN (SIC)	♢												
CK918X	1.090	⊙	⊙		Cloth	VSM COMPACTGRAIN (SIC)	♢												
CK772T	1.090	○	○		Cloth	VSM COMPACTGRAIN (SIC)	♢												
CK742J	1.090		⊙		Cloth	VSM COMPACTGRAIN (SIC)													
KF712	1.470			⊙	Fibre	VSM COMPACTGRAIN (AO)													
KF736	1.470			⊙	Fibre	VSM COMPACTGRAIN (AO)													
KP712	1.450	⊙	⊙		Paper	VSM COMPACTGRAIN (AO)													
CP772	1.450	○	○		Paper	VSM COMPACTGRAIN (SIC)													

Last revised: 06/2025

Other dimensions and grit sizes upon request.

Features

- for low to medium contact pressure
- ⊙ for medium contact pressure
- for medium to high contact pressure
- ♢ also suitable for wet applications

Flexibility of the backing material (last letter of the series name):

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

Legend

- CER = CERAMICS
- AO = ALUMINIUM OXIDE
- SIC = SILICON CARBIDE

♣ TOP SIZE

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



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 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).



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