

Segments

Applications

Products



XELERION

**The finest surfaces –
right on point**





XELERION

Fine polishing, on a whole new level

VSM XELERION sets new standards for fine polishing applications. XELERION achieves a flawless, reproducible finish, ensures sustained high stock removal and reduces the number of required process steps. Polishing processes are more efficient and operator fatigue is significantly reduced.

Fine polishing – right on point

Consistent surface finish, a reproducible scratch pattern and a sustained high stock removal rate – this is what **the new XELERION series KK670F and KK670J** are all about.



Creates flawless, consistent surfaces up to high gloss



High initial aggressiveness and constant stock removal



Cotton backing conforms to every contour



Optimal distribution of force and heat reduces discoloration and deformation



User-friendly due to reduced noise, odor and dust



Your application

Medical instruments



Implants



Plant and tank construction



Kitchen industry



Fittings



Furniture



Automotive



Shipbuilding

oint

XELERION

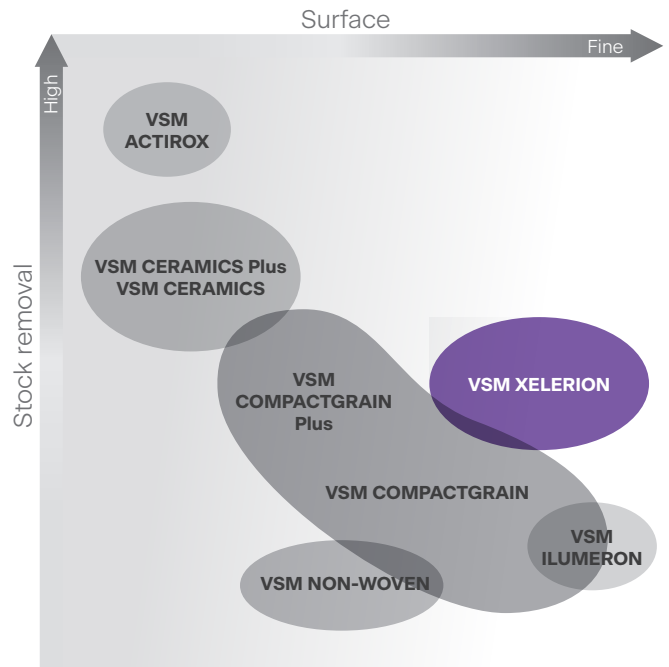
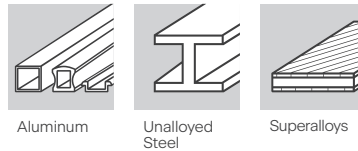


XELERION excels in applications with low contact pressure, such as backstand grinding or grinding using hand-held tools.

Developed for:



Also suitable for...



Product overview



VSM range	Rolls (max. width inches)	Belts	Discs	Backing	Grain technology	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000	2500	
KK670F	23"	○		Cloth	VSM XELERION (AO)					P	P	P	P	P					P				P
KK670J	23"	○	○	Cloth	VSM XELERION (AO)					P	P	P	P	P					P				P

Last updated: 10/2024. Other dimensions and grit sizes on request.

Features

○ for low to medium contact pressure

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

F very flexible

J flexible

P = categorization according to FEPA standard.

AO = aluminum oxide



*Newly developed grain structure:
The XELERION dots consist of several
layers of sharp abrasive grains. They
ensure sustained high stock removal.*



XELERION

For maximum productivity

The improved stock removal performance simplifies the polishing process considerably. Even with fine grit sizes, stock removal is high, which means **XELERION** can easily polish out rough surfaces. Furthermore, common grit size steps can be skipped to achieve the desired surface finish with just a few grinding passes.

High performance also means fewer process steps and tool changes. Productivity is massively increased.

Case studies

Medical instrument



Material	Martensitic stainless steel
Series	KK670F
Grit size order	P240, P600, P1200, P2500
Cutting speed	5100 SFPM
Roughing	XK870F, #120
Result	<ul style="list-style-type: none"> > No thermal damage to the workpiece > Low polishing effort required > Service life doubled

Pharmaceutical container



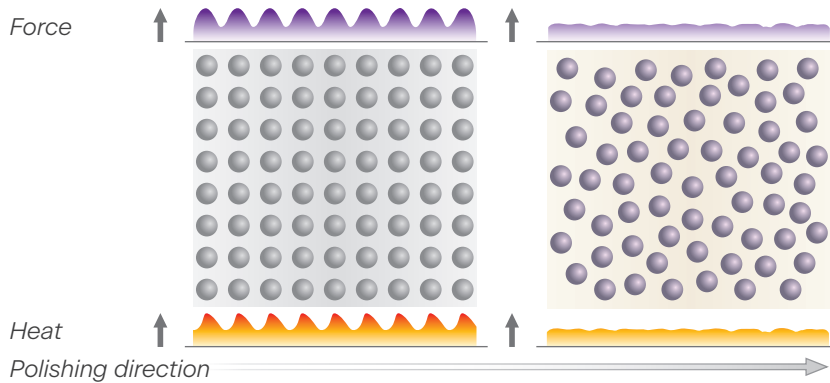
Material	Austenitic stainless steel
Series	KK670J
Grit size order	P600, P1200
Cutting speed	5900 SFPM
Roughing	XK870X, #80
Result	<ul style="list-style-type: none"> > Grit size steps can be skipped > Fewer processing steps > High productivity

Further examples of use



Innovations that point the way

Randomized structure



Unlike similar competitor products, the **XELERION dots** are not arranged strictly symmetrically on the backing, but in a randomized manner.

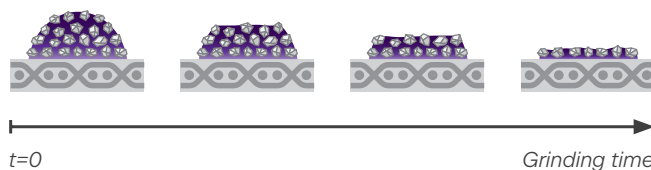
This new, innovative manufacturing process makes a decisive difference on several levels.

The short, irregular grinding interruptions **optimize the distribution of force and heat**, resulting in cooler grinding. This helps to prevent discoloration and deformation of the material.

This results in a **fine, even surface** without any “random scratches.” A perfectly reproducible finish is achieved – right up to a **flawless scratch pattern for high-gloss surfaces**.

In combination with a flexible backing, the new dot design results in **outstanding adaptability to the workpiece geometry**. This means that even tight radii and complex contours, such as those of tools or medical instruments, can be processed with pin-point accuracy and precision.

XELERION dots



- > **Newly developed grain structure:** The XELERION dots consist of **several layers of sharp abrasive grains** set in a synthetic resin bond
- > **New sharp grains** are **continually presented** throughout the polishing process
- > This ensures **sustained high stock removal**

Made in Germany, manufactured in the U.S.

XELERION was developed, tested and is now produced in Hanover, Germany. In O'Fallon, Missouri the base materials are further processed into finished goods.

With our in-house expertise, we are able to significantly influence the performance of the abrasives and meet the stringent demands of the metal processing industry.



By experts for experts



Would you like to find out more about metalworking with XELERION or request samples without obligation?

Call us at:
800 737 0176

Or send us an email:
us.info@vsmabrasives.com

For expert knowledge and comprehensive tips, check out our **webinars** and **seminars**:

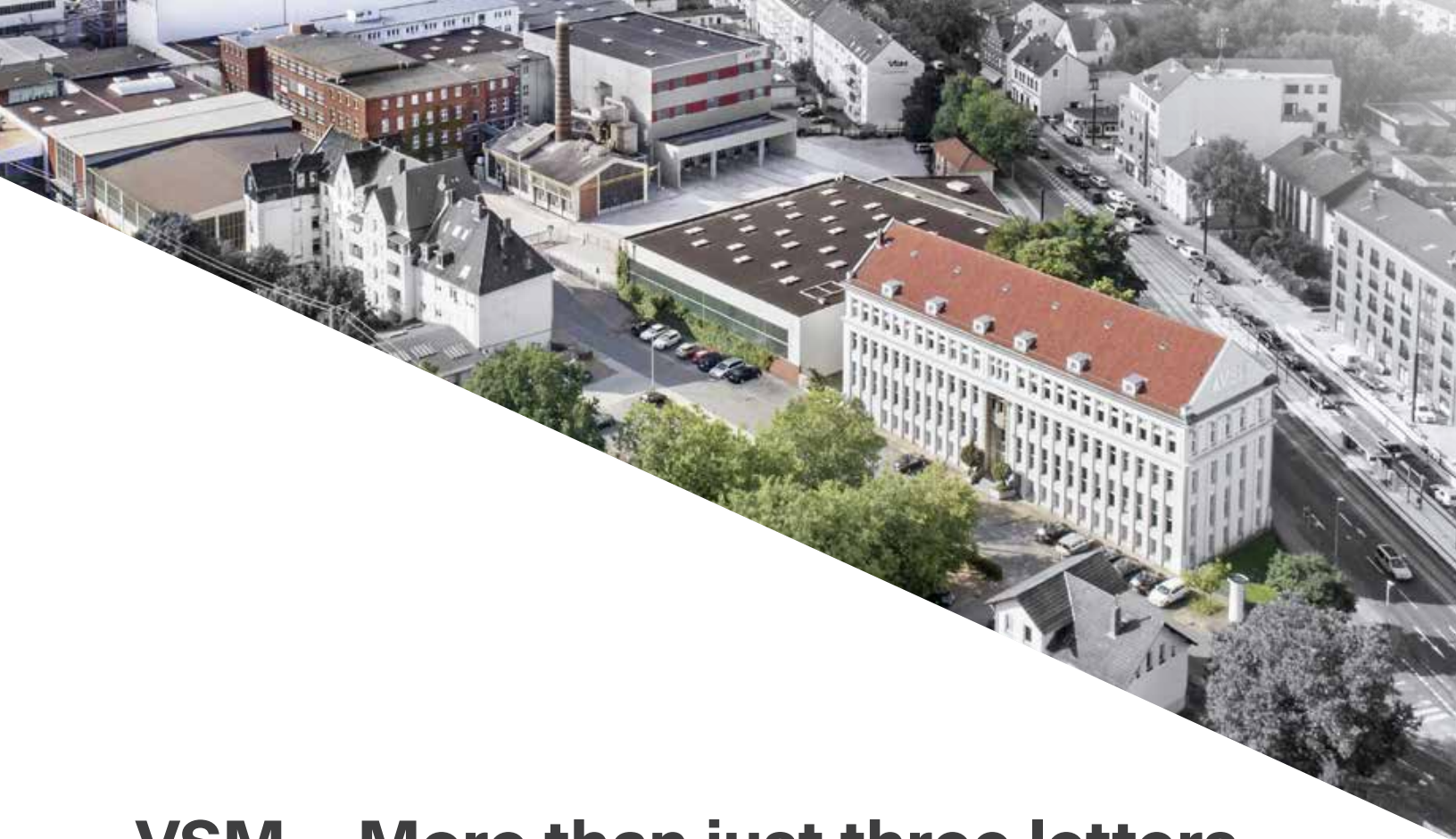


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us.vsm-xelerion.com



VSM – More than just three letters

VSM stands for competence, quality and customer orientation.

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).



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