

VSM PRODUCT RANGE 2025/2026

Valid as of March 2025

HIGHLIGHTS

ACTIROX XELERION ALU-X ILUMERON

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Successful worldwide

VSM is the brand name of **VSM · Vereinigte** Schmirgel- und Maschinen-Fabriken

AG founded by Siegmund Oppenheim and Siegmund Seeligmann in 1864, and became a public limited company in 1898. Its headquarters are located in Hanover-Hainholz, Germany, where the company was founded. VSM has more than 850 employees worldwide.

OVER 160 YEARS 1864 2025 WE KNOW ABRASIVES

With more than 160 years of experience in thethat focuses on the success of its customers.manufacturing of quality abrasives, VSM is oneSatisfied customers are the only benchmarkof the global leaders in the abrasives market.for our company's performance. InternationalSpecializing in premium grinding solutions forVSM subsidiaries and a global distributionthe metal and wood industries, VSM's marketnetwork ensure that manufacturers can get ouractivities are based on a company strategyfull support in every region of the world.

VSM Abrasives USA

As new products are developed in Hanover, Germany, they are shipped to international subsidiaries in the form of jumbo material. These manufacturing facilities then convert the material into the final product form based on end user specifications.

In 1978, the subsidiary known as VSM Abrasives Corporation was established to meet a growing demand for coated abrasives in the United States. Just outside St. Louis, Missouri, this location offers manufacturing, customer service and technical support to customers across the country.

OVER 45 YEARS 1978 **// 2025** WE KNOW ABRASIVES

VSM employs more than 150 people at our USA location. Together, we work to offer our customers the best possible product portfolio with our wide range of abrasive solutions while making life a little easier for our customers each and every day.



Our customers value our quality and place their trust in our comprehensive understanding of grinding processes, our global advisory expertise in application technology and our reliable and consistent product availability.



Quality made in Germany – the champion ceramic grain

Backing materials finished on site

We also finish the backing materials for our abrasives ourselves, in our own fabric treatment plant. Why go to all this trouble? Because backing material quality is not only essential for abrasive grain adhesion, but also applies the stock removal forces to the respective workpiece. By adjusting the backing material characteristics to perfectly match our abrasives, we can significantly influence both the performance and the service life of the abrasive.



The backing materials for our abrasives are finished in our own facility in Hanover.

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



An abrasive grain developed and made entirely in-house

Did you know that VSM produces its own ceramic grain at its Hanover site? This makes us one of only a handful of ceramic grain manufacturers worldwide.

By producing our own abrasive grain, we can influence the performance characteristics of our abrasives.

We also utilize our wealth of technical know-how to develop, produce, and continuously optimize new grain technologies in-house - such as the geometrically shaped ceramic grain used in ACTIROX abrasives.



Ceramic grain abrasives are required for demanding grinding tasks. We produce Ceramic grain in-house.

The perfect bond for VSM abrasives

Synthetic resin bonds ensure the best-possible adhesion of abrasive grain to the backing material. And the use of active abrasive fillers keeps grinding cool or improves chip clearance. These bonds are also manufactured and actively developed at VSM in Hanover. For high-performance high-quality abrasives - Made in Germany.

Our quality promise

Finished goods and pre-assembled articles are subjected to continuous quality assurance testing in-house to verify their grinding performance or belt joints. These tests are carried out in our purposebuilt, state-of-the-art Grinding Unit as well as our VSM Competence Center. We have also been certified to the ISO 9001:2015 standard for many years, and are a member of FEPA, oSa and VDS.

Our products

Why VSM

Our understanding of abrasive processes is second to none. Not only do we grind every surface to a high-precision finish, we also analyze our customers' specific grinding applications to ensure we always find an optimum long-term solution.

Application-specific know-how is a key differentiator for VSM, and is highly valued by industry, trade and retail customers all over the world.

Quality. Expertise. Customer focus. This is what VSM stands for.

Our day-to-day strategy and decision-making is shaped by our company values.

We make it easy

- > Contract Pricing (24-hour turnaround on quotes)
- > Minimize account turnover
- > Maximize margins
- > Short lead times on made-to-order items
- > Customized packaging solutions
- > Training workshops available

Quality

- > Vertically integrated
- > Made in Germany, finished in the USA
- > Controlled supply chain

Expertise

- > Territory Managers to support you and your customers (average 10 years experience)
- > Application Engineers (5) for testing and preparing cost savings reports

Customer focus

- > When you call, we answer
- > Fast, friendly service



Rolls > Shop rolls

1" x 50 yds 11⁄2" x 50 yds 2" x 50 yds



Sheets & Pads > Sheets

Standard 9" x 11"

- (custom sizing available)
- > Hand pads Standard 6" x 9"

Hook & loop Gripper

Resin fiber

PSA



Industries worldwide





Aerospace





Implants

Fittings

Shipbuilding

Certified and recognized internationally



Promise of quality, with thousands of product and grit combinations



Accessories > Back-up pads Quick change

Discs

- > Resin fiber
- > Quick change
- > PSA
- > Hook & loop





Kitchen



Tank construction



Tools



Metal fabricat



Furniture

VSM grinding technology

Coated abrasives: schematic view

Coated abrasives consist of grains bonded to a flexible substrate. The substrate can have varying degrees of flexibility ranging from extremely flexible (E weight cotton backings) to extremely sturdy (Z weight polyester backings).



These substrates are used as backings for different types of abrasives: rolls, belts, discs and sheets.

A coated abrasive is made up of four to five different components

- 1. Backing material
- 2. Maker coat
- 3. Abrasive grain
- 4. Size coat
- **5.** Optional coat: Additional grinding-active layer (TOP SIZE) Anti-loading layer (ALU-X)

1 Backing material

The abrasive grain is bonded to a substrate which retains the grain and transfers the cutting forces to the workpiece. The substrates used by VSM as backing materials are:

- > Paper backing
- > Cloth backing
- > Vulcanized fiber

Thanks to our own cloth finishing plant in

Hanover, we are able to check the quality of the materials we use for each individual production step which ensures that the same high standards are maintained throughout.

This guarantees that we use backing material with the best properties for our abrasives, which translates into optimum performance.

2 Maker coat

The maker coat holds the abrasive grain in place. In most cases, phenolic resins or urea resins are used as bonding agents. Specific properties such as flexibility or water-resistance are achieved by adding fillers.

3 Grain technology

It is the abrasive grain that performs the actual job. It penetrates the workpiece and lifts the chip. High hardness, toughness and sharp edges are the most important characteristics of an abrasive grain.

High-performance abrasives are made from the following synthetic materials:

- > ACTIROX
 > COMPACTGRAIN
 > CERAMICS PLUS
 > COMPACTGRAIN
 > CERAMICS
 > XELERION
- > ZIRCONIA ALUMINUM > ILUMERON
- > SILICON CARBIDE > DIAMOND/CBN
- > ALUMINUM OXIDE > NON-WOVEN



Backing	Paper weight	Typical applications
A-Paper	approx. 70 g/m²	profile + surface polishing (hand)
B-Paper	approx. 100 g/m²	profile + surface polishing (hand)
C-Paper	approx. 120 g/m²	surface polishing (hand)
D-Paper	approx. 160 g/m²	surface polishing (hand, machine)
E-Paper	approx. 250 g/m²	surface polishing (hand, machine)
F-Paper	approx. 300 g/m²	surface polishing (hand, machine)

VSM paper

VSM cloth

Backing	Flexibility	Typical applications
E-Cloth	extremely flexible	profiled workpieces
F-Cloth	very flexible	profiled workpieces
J-Cloth	flexible	profiled workpieces
T-Cloth	semi-sturdy	dynafile, stroke sanding
X-Cloth	sturdy	flat surfaces, edges, cylindrical/centerless
Y-Cloth	very sturdy	flat surfaces, edges, cylindrical/centerless
Z-Cloth	extremely sturdy	edge and surface grinding (machine)

Hardness and toughness of grain types



The VSM self-sharpening concept

ACTIROX abrasives have geometrically shaped ceramic grains that wear down at a uniform rate, constantly producing new, razor-sharp cutting edges.

CERAMICS PLUS and **CERAMICS** feature a microcrystalline structure that allows for a controlled breakdown of the grain, continuously revealing sharper edges — this is known as the optimized self-sharpening effect.

XELERION dots consist of multiple layers of sharp abrasive grains embedded in a synthetic resin bond. As the grains wear down, fresh sharp edges are exposed, maintaining high stock removal and a consistent finish.

COMPACTGRAIN PLUS and COMPACTGRAIN

abrasives are made of a compact unit of multiple abrasive grains. As the used grains are torn out by cutting forces, fresh grain tips are revealed, ensuring long-term abrasive performance.



The right grain for every application Surface VSM ACTIROX MADE IN GERMANY VSM CERAMICS Plus VSM CERAMICS VSM is one of the only manufacturers of ceramic grain worldwide. Thanks VSM VSM XELERION to having our own ceramic grain COMPACTGRAIN production in Hanover, Germany, we have a decisive influence VSM COMPACTGRAIN on the performance of our VSM VSM NON-WOVEN

Types of coating

Variations in the coating density of the grain will affect the cutting characteristics of the abrasive product. VSM applies three common coatings including closed, open and split coatings. **Closed coating** is where a full application of abrasive grain is placed on the cloth, paper or fiber carrier. Closed coating is best used for common carbon steels for the longest abrasive life. **Open coating** is where the grain coating is reduced in production to create more space between the individual grains. Open coating reduces grain coverage (30%-70%), creating space to prevent loading when grinding non-ferrous metals, wood and composites. Split coating is an open coat structure using a mix of abrasive grain types and grit sizing. This technology enhances premium grains like zirconia and ceramic for cost efficiency and improved grinding performance.

4 Size coat

Size coat is the secondary resin applied to abrasive
product in the maker to firmly anchor the grain to the
backing. Its properties can include extra additives to
help improve grinding characteristics for the abrasive.Depending on the intended application or substrate
to be ground, the strength and flexibility of the resin
system is engineered to be optimal for the backing
carrier or grit size.

5 Additional grinding active layer SIZE

The **TOP SIZE** coat is ideal for dry grinding heatsensitive stainless steels and non-ferrous metals. Its additional layer with grinding additives improves cut performance, reduces contact area temperature, an significantly extends abrasive life.

ALU-X

The **ALU-X** additional layer minimizes chip adhesion and clogging, ensuring a longer service life and sustained high stock removal.

CERAMICS with **ALU-X** is perfect for rough grinding applications, delivering consistent performance. **ALUMINUM OXIDE** abrasive belts with **ALU-X** creat a matte scratch pattern, making them versatile allpurpose solutions.





s tting	Conventional abrasive without additional coat	
nd	High temperature in contact area	
	Workpiece discoloration	
n		
	Abrasive with VSM TOP SIZE	
g	VSM TOP SIZE	
ite	Low temperature in	i

Grain Technology

The continuous development of new grain formulations, plus refinement and processing ensures that VSM remains one of the most experienced manufacturers of ceramic grain worldwide. And all "Made in Germany."

The right grain for every application



VSM ACTIROX

- > Geometrically shaped ceramic abrasive grain
- > Maximum stock removal and a faster-cut action for superalloys and stainless steels
- > Reduced temperature in the contact area extends service life



VSM CERAMICS PLUS (CER PLUS)

- > Optimized self-sharpening effect for machining high-alloy steels under high contact pressure
- > Reduced temperature in contact area
- > Significantly longer service life



NEW

VSM COMPACTGRAIN PLUS (COM PLUS)

- > Extremely long service life
- > Uniform stock removal
- > Reproducible surface finishes and consistent roughness
- > Constant self-sharpening thanks to the granulate structure

VSM XELERION

- > Randomized dot structure containing fine grit abrasives
- High initial aggressiveness and constant stock removal
- > Flawless and uniform surfaces for high gloss in low pressure applications

VSM DIAMOND/CBN (DA/BA)

- > For machining coated and hard, brittle materials such as titanium/tungsten carbide, glass, marble and granite

> Extremely hard

Additional grinding-active layers for specific applications

TOP SIZE

The TOP SIZE coat is a grindingactive additional layer that reduces the temperature in the grinding zone.

4 antistatic



VSM CERAMICS (CER)

- > Top product with self-sharpening effect for machining unalloyed steels and stainless steels
- > Very high stock removal
- > Cool grinding characteristics minimizes discoloration



VSM SILICON CARBIDE (SiC)

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



VSM ZIRCONIA ALUMINA (ZA)

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

VSM ALUMINUM OXIDE (A/O)

> General purpose grain for many different metal applications

> Perfect combination of toughness and hardness

> Ideal for intermediate and finish grinding



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VSM COMPACTGRAIN (COM)

- > Uniform stock removal to the backing material extends service life and produces consistent surfaces
- Improved bonding properties
- > Constant self-sharpening thanks to the granulate structure



VSM ILUMERON

- > Full faced coated long-term abrasive with special applied bonding
- > For fine and consistent surfaces with a high gloss level
- > Developed for machining stainless steels, superalloys and unalloyed steels

VSM NON-WOVEN

- > Perfectly follows the shape of a workpiece
- > For premium scratch patterns which can easily be reproduced
- > Available as A/O and SiC

Abrasives with an **antistatic** coat are primarily used for woodworking. They prevent the build-up of an electrostatic charge so that the grinding dust does not adhere to the workpiece or the machine.



The anti-adhesive layer ALU-X is primarily used for machining non-ferrous metals. It prevents chip adhesion and clogging of the abrasive. It also enhances the service life of the abrasive.

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ACTROX



Thanks to their extremely high stock removal rate, VSM ACTIROX fiber discs can process more workpieces in the same time.

From deburring to grinding cast parts or leveling weld seams, you too can enjoy the benefits offered by ACTIROX.

ACTIROX utilizes geometrically shaped ceramic abrasive grains that break down in a precise, predictable way. As they do, they constantly produce new, razor-sharp cutting edges. This ensures aggressive grinding and maximum stock removal.

Abrasive grain in top shape!

3 reasons why AK890Y should be an essential part of your operation



Maximum stock removal resulting in lower operating expenses.



Low to medium contact pressures minimize noise and vibrations, which helps reduce the strain on operators and machines.



Faster grinding greatly reduces processing times – even when deburring and removing sprues or weld seams.

YOUR ADVANTAGES

- Maximum stock removal per time unit thanks to geometrically shaped ceramic grain
- More workpieces processed per unit of time
- Cooler grinding, preventing discoloration on stainless steels
- Improved chip clearance even when grinding aluminum

Your grinding task



Weld seam

Removal of imperfections Weld seam preparation

Grinding of cast parts









Product data sheet



VSM is one of the only ceramic grain manufacturers in Germany and the rest of the world. By producing our own abrasive grain at our Hanover site, we can significantly influence the performance characteristics of our VSM abrasives.





t=O

Grinding time

The geometrically shaped ceramic abrasive grain wears down in a defined manner, creating a series of new, sharp cutting edges

Upright abrasive grain for aggressive and faster grinding



Lower temperatures in the grinding zone thanks to VSM TOP SIZE.

Cloth and vulcanized fiber backing materials have been developed in-house to handle the toughest jobs





Developed for ...

Developed for ...



RECOMMENDED BACK-UP PADS

APEX PAD 1 60 Flexible • Rubber



Fiber discs for maximum stock removal







Developed for ...









Product data sheet

Developed for ...





APEX PAD 2



APEX PAD 3



Rigid • Rubber

TURBO PAD



Extra rigid • FRP





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.

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.



Randomized structure

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

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.

A **perfectly reproducible finish** is achieved – right up to a flawless scratch pattern for high-gloss surfaces.

ALU-X-TREME performance

From X-PERTS for X-PERTS

ALU-X is the new series of abrasives developed by VSM to meet the specific requirements of grinding non-ferrous metals.

Here, the proven **CERAMICS** grain technology with continuous self-sharpening is complemented by the additional grinding-active layer ALU-X. The result: improved chip removal, fewer tool changes, more workpieces per shift, more stock removal and a grease-free workplace.

Your advantages at a glance

- > Specially developed for grinding aluminum and non-ferrous metals
- > ALU-X significantly reduces chip adhesion and clogging of the abrasive; which reduces the number of tool changes
- > Grease-free and oil-free grinding keeps the workplace clean.

Your grinding task



Grinding aluminum alloy bars (Ø 30 mm, AlSi12Cu) using fiber discs with arit size 24.

- > Increased performance enables faster workpiece grinding and lowers the process costs
- > VSM always delivers premium made-in-**Germany quality**









Cleaning

Removing imperfections

Technical surface quality



The additional layer ALU-X significantly reduces chip adhesion during grinding of non-ferrous metals

Beveling





High stock removal rate and a longer service life



Reduced tool costs per workpiece



Reduced chip adhesion means fewer tool changes



Grease-free and oil-free grinding



ILUMERON

Grinding stainless-steel surfaces

ILUMERON degrades uniformly across its entire surface. This produces much finer surfaces than traditional long-term abrasives.



*) Gloss Units (GU) are the unit of measure for gloss as measured by a gloss meter. A perfectly satin finish has a gloss level equal to 0 gloss units. Highgloss surfaces usually have a value of more than 70 GU.

YOUR ADVANTAGES

- > Workpieces can be ground and polished in a single step
- > Wild scratches are avoided in the grinding process
- > Particularly high gloss values
- > Significantly extended service life
- > A perfectly prepared surface for subsequent coating processes

Your grinding task

Cylindrical grinding









Gives your workpiece the perfect shine

For fine surfaces with a very high gloss level

> Consistent surface quality within extremely tight tolerances, which prevent "wild" scratches

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Grinding and polishing in one single step









Stock Removal

Stock removal is the process of grinding excess material to become close to the desired size before beginning a finishing process. Depending on the substrate being abraded, certain grains and the construction of the abrasive will provide the optimal cutting characteristics for the ideal tool cost.

Choosing the right abrasive

What is the primary challenge when roughing?

- > Descaling to get a clean surface: Ensuring the workpiece is free from scale or contaminants.
- > Material hardness: Abrasive selection depends on whether the material is soft or hard.

Our stock removal grains

ACTIROX	> ZIRCONIA ALUMINA
CERAMICS PLUS	> DIAMOND

> CERAMICS > CBN

Your grinding task

Deburring

Weld seam eveling







While there is a wide range of perceived definitions of stock removal, most industrial uses identify grit sizes 20 through 60 to be the typical sizes designated for maximum removal.

- > Temperature of workpiece to avoid discoloration: Managing heat to prevent discoloration or damage to the surface.
- > **Required material removal:** Choosing the right abrasive and process for the volume of material to be removed.



Removal of imperfection



Weld seam preparatior



Grinding of cast parts



Stock Removal

ACTIROX

					Ø						Sto	ck re	emo	/al								S	urfa
	VSM Series	Max. width	Wide belts	Narrow belts	Resin fiber	Quick change	PSA	H&L	Backing	Features	20+	24+	36+	40+	2 0+	+09	+08	100+	120+	150+	180+	240+	320+
EW	AF733				۲				Fiber	ALU-X													
	AF799				۲				Fiber														
	AF890				۲	۲			Fiber	TOP SIZE													
EW	AF979				•				Fiber														
	AK890Y	58 in	0	0		0	0	0	Y-Polyester	TOP SIZE													

CERAMICS PLUS

		0	0	0		0)		Sto	ck re	emov	al									Surf	ac
VSM Series	Max. width	Wide belts	Narrow belts	Resin fiber	Quick change	PSA	H&L	Backing	Features	20	24	36	40	50	60	80	100	120	P150	P180	P240	P320	P400
XF885				•	•			Fiber	TOP SIZE														
XK285T	58 in		۲			۲		T-Cotton	TOP SIZE														
XK885Y	58 in	٠	•		•	٠		Y-Polyester	< TOP SIZE 👌														
XK880Y	58 in	۲	۲			۲		Y-Polyester	< TOP SIZE 👌														
XP780	57 in	0	0			0	0	F-Paper															

CERAMICS

				-0						Sto	ok re	emov	al									Surt	fac
VSM Series	Max. width	Wide belts	Narrow belts	Resin fiber	Quick change	PSA	H&L	Backing	Features	20	24	36	40	50	60	80	100	120	P150	P180	P240	P320	P400
XF733				۲				Fiber	ALU-X														
XF760				۲				Fiber															
XF870				۲				Fiber	TOP SIZE														
ХК733Х	58 in	۲	۲			۲	۲	X-Polyester	∆ ALU-X														
XK747Z	58 in	٠	•			٠		Z-Polyester	٥														
XK760X	58 in	۲	۲			۲	۲	X-Polyester	٥														
XK760Y	58 in	۲	۲			۲		Y-Polyester	٥														
XK770Z	58 in	٠	•			٠		Z-Polyester	٥														
XK850X	58 in	٠	•			٠		X-Polyester	< TOP SIZE 👌														
XK870F	58 in		0			0		F-Cotton	TOP SIZE														
XK870J	58 in	۲	۲			۲		J-Polyester	< TOP SIZE 👌														
ХК870Т	58 in		0			0		T-Cotton	TOP SIZE														
XK870X	58 in	۲	۲		۲	۲	۲	X-Polyester	< TOP SIZE 👌														
XK875X	58 in	•	•			٠		X-Polyester	< TOP SIZE 👌														
XK877Z	58 in	•	•			•		Z-Polyester	< TOP SIZE 👌														
XK888Z	58 in	•	•			•		Z-Polyester	TOP SIZE														

ZIRCONIA ALUMINA

			0	Ø						Stock removal												5	Surface
VSM Series	Max. width	Wide belts	Narrow belts	Resin fiber	Quick change	PSA	H&L	Backing	Features	30	24	36	40	50	00	80	100	120	P150	P180	P220	P240	P320 P400
KK715X	58 in	•	•			٠		X-Polyester	٥														
KK716	58 in	•	•			•		Z-Polyester	٥														
KK717	58 in	•	•			•		Z-Polyester	٥														
KK815Y	58 in	•	•			•		Y-Polyester	< TOP SIZE 👌														
ZF713				۲				Fiber															
ZIRC					۲			Cloth	TOP SIZE														
ZK713T	58 in		۲			۲		T-Cotton															
ZK713X	58 in	۲	۲			۲	۲	X-Polyester	٥														
ZK744X	58 in	۲	۲			۲		X-Polyester	🕈 TOP SIZE 👌														

DIAMOND/CBN

							Stock re	emoval					Surface
VSM Series	Narrow belts	Discs	Quick change	Backing	Grain Type	Features	357 µm (P40)	251 µm (P60-80)	126 µm (P120)	91µm (P180)	64 µm (Р240 - 320)	46 µm (P400)	30 µm (P500)
BA970X	•	۲		Aramide	CBN	FIF Ó							
DA920Y	•	•		Aramide	Diamond	FULL 🜢							
DA930X	۲	۲	۲	Aramide	Diamond	FIF Ó							

Key

- O for low to medium contact pressure
- for medium contact pressure
- for medium to high contact pressure
- also suitable for wet grinding

TOP SIZE

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

ALU

+

Prevents chip adhesion to avoid clogging up the abrasive. also results in longer service life.

Achieve higher stock removal than expected with

Cotton and Polyester

- Flexibility of the backing material:
- - F very flexible
 - J flexible
 - T moderate X sturdy

Y very sturdy Z extremely sturdy

Diamond/CBN Coating FIF fine island finishing

FULL full coating

30

the specified grit size without a rougher surface.



E extremely flexible

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



Products · Finishing

Finishing

Finishing, often referred to as polishing, involves The finishing process typically includes multiple steps, refining the surface of a workpiece to achieve the utilizing abrasives of progressively finer grit sizes to desired quality. Depending on the industry and meet the specified standards. Grit sequences can start customer specifications, the finish of the workpiece as coarse as 80 grit and progress to exceptionally fine may be defined by visual finish or numerical measure. finishes, exceeding 2500 grit.

Choosing the right abrasive

What is the primary goal when finishing?

- > Visual finish: Achieving the desired surface appearance, such as mirror, matte, or blended finishes.
- > **Technical finish:** Meeting specific roughness parameters, including Roughness Average (Ra, Rz, Rzmax).

Our finishing abrasives

- > COMPACTGRAIN PLUS > CORK
- > COMPACTGRAIN
- > ILUMERON

> XELERION

Your finishing task

Cylindrical polishing

Planetary polishing





- > Consistent finish between production batches: Ensuring a uniform finish across all parts for improved quality and repeatability.
- > Required material removal: Selecting abrasives that efficiently remove the necessary amount of material.



Dual action orbital sanding



Flat polishing



Finishing

COMPACTGRAIN PLUS



COMPACTGRAIN

		0		.0						Stock removal									Sur	face
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		0		0		J-Cotton	SiC												
CK743J	42 in		۲		۲		J-Cotton	SiC												
CK748X	42 in	•	•		•		X-Polyester	SiC	٥											
СК772Т	42 in	0	0		0		T-Polyester	SiC	٥											
CK918X	42 in	۲	۲		۲		X-Polyester	SiC	٥											
KF736				۲			Fiber	A/O												
KK712F	42 in		0		0		F-Cotton	A/O												
KK712J	42 in		۲		۲		J-Cotton	A/O												
KK712X	42 in	۲	۲		۲	۲	X-Polyester	A/O	٥											
KK718X	42 in	•	•		•		X-Polyester	A/O	٥											
KK731X	42 in	0	0		0	0	X-Cotton	A/O												
KK770J	42 in	0	0		0		J-Polyester	A/O	٥											
KK772J	42 in	0	0		0		J-Polyester	A/O	٥											
KK772X	42 in	۲	۲		۲		X-Polyester	A/O	٥											
КК834Х	42 in	۲	۲		۲		X-Polyester	A/O	< TOP SIZE 👌											
KP712	57 in	۲	۲		۲		F-Paper	A/O												
LK719X	57 in	•	•		•		X-Polyester	A/O	٥											
XK786X	57 in	۲	۲		۲		X-Polyester	CER	٥	А	Α	А								
ХК789Х	57 in	٠	٠		٠		X-Polyester	CER	٥	А	А									

XELERION

			-	0			
	VSM Series	Max. width	Wide belts	Narrow belts	PSA	H&L	Backing
NEW	KK670F	23 in	0	0			F-Cotton
NEW	KK670J	23 in	0	0	0	0	J-Cotton

CORK



ILUMERON



Key

TOP SIZE

- O for low to medium contact pressure
- for medium contact pressure

Grinding-active additional layer reduces

the temperature in the grinding zone.

- for medium to high contact pressure
- also suitable for wet grinding A ANSI graded
- J flexible
 - T moderate

F very flexible

- X sturdy
- Y very sturdy
- Z extremely sturdy

34





		Stock	ren	nova	al					Su	rface
type	Features	P80	P120	P180	P240	P320	P400	P600	P800	P1000	P1200
0	0										

Cotton and Polyester

Flexibility of the backing material: E extremely flexible

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



General Purpose

General purpose abrasives are designed for versatility,
making them suitable for a wide range of applications.These abrasives typically perform at a lower level than
specialized products in high-production settings but
provide a cost-effective option for short-term sanding
tasks. Their grit range covers the full spectrum but is
most commonly 80 grit or finer.

Choosing the right abrasive

The key factors influencing the choice of general purpose grain include:

- > Flexibility: A general purpose abrasive should provide adaptability, allowing it to be used across various applications and materials.
- > Waterproof: The abrasive's resistance to water is essential, ensuring consistent performance even in wet conditions.

Our general purpose grains
> ALUMINUM OXIDE
> SILICON CARBIDE

Your grinding task



Hand sanding



R

- > Convenience: A good general purpose abrasive should be easy to use, minimizing setup time and effort during application.
- > Cost point: Cost-effectiveness plays a crucial role in choosing the right abrasive, balancing quality with budget considerations.



Backstand grinding



Flat grinding



General Purpose

ALUMINUM OXIDE

		-	0	0						Stoc	k rem	oval														Surf
VSM Series	Max. width	Wide belts	Narrow belts	Resin fiber	PSA	H&L	Sheets	Backing	Features	P16	P20	P24 P30	P36	P40	P50	P60 P80	P100	P120	P150	P180	P220 P240	P280	P320	P360	P500	P600
KF708				۲				Fiber																		
KK112F			0		0	0	0	F-Cotton																		
KK114F	37 in				0		0	F-Cotton																		
KK504F	41 in		0		0		0	F-Cotton																		
KK504X	57 in	۲	۲		۲			X-Cotton																		
KK511F	41 in		0		0		0	F-Cotton																		
KK511J	57 in		0		0		0	J-Cotton																		
KK524J	57 in		0		0		0	J-Cotton	ANTISTATIC																	
KK524X	57 in	۲	۲		۲			X-Cotton	ANTISTATIC																	
KK524Y	57 in	۲	۲		۲			Y-Polyester	ANTISTATIC &																	
KK532F	41 in		0		0	0	0	F-Cotton	ALU-X																	
KK551T	57 in		۲		۲			T-Cotton																		
KK551X	57 in	۲	۲		۲			X-Cotton																		
KK711E	41 in		0		0			E-Cotton																		
KK711T	57 in		۲		۲			T-Cotton																		
KK711X	57 in	۲	۲		۲	۲	۲	X-Poly/Cotton	(P24-P80)																	
KK711Y	57 in	۲	۲		۲			Y-Poly/Cotton	٥																	
КК732Х	57 in	۲	۲		۲			X-Polyester	ALU-X 👌																	
KK752X	57 in	۲	۲		۲		۲	X-Polycotton																		
KK812X	57 in	۲	۲		۲			X-Polyester	< TOP SIZE 👌																	
KK841F	41 in		0		0			F-Cotton	TOP SIZE																	
KP222	57 in	۲	۲		۲	۲	۲	F/E-Paper	ANTISTATIC																	
KP532E	57 in	۲	۲		۲			E-Paper	ALU-X																	
KP709	57 in	۲	۲		۲			F-Paper																		
KP911			0		0	0	0	B/C-Paper																		

Key

- O for low to medium contact pressure
- for medium contact pressure • for medium to high contact pressure
- also suitable for wet grinding

TOP SIZE

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

ALU

Prevents chip adhesion to avoid clogging up the abrasive. Also results in longer service life.

ANTISTATIC

Prevents the build-up of an electrostatic charge.

SILICON CARBIDE

1		5	0	•	0				Stock	(rem	nova	I																S	urface
VSM Series	Max. width	Wide belts	Narrow belts	PSA	H&L	Sheets	Backing	Features	P16	P20	P24	P30	P36	P50	P60	P80	P100	P150	P180	P220	P280	P320	P360	P400	P500	P600	P1000	P1200	P1500
CK721J	57 in		0	0			J-Cotton																						
CK721X	57 in	۲	۲	۲			X-Poly/Cotton	٥																					
CK722Y	57 in	۲	۲	۲			Y-Polyester	ANTISTATIC &																					
CP501	57 in	۲	۲	۲	۲	0	E-Paper																						
CP918A	65 in			0	0	0	A-Paper	٥																					
CP918C	65 in		0	0	0	0	C-Paper	٥																					



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



Surface Conditioning

Surface conditioning products are a more forgiving
type of abrasive, designed to provide a gentler
approach to sanding and finishing. Through the way
the abrasive grain is presented to the workpiece,
surface conditioning products are a general purpose
type product for handwork and mechanical sanding.Surface conditioning products are typically graded
using general terms such as Coarse (Brown), Medium
(Maroon), Fine (Green), Very Fine (Black), and Ultra Fine
(Gray), with each color corresponding to a specific grit
size for easy identification.

Choosing the right abrasive

How to choose the best grit:

> Grit correlation: Surface conditioning abrasives have corresponding grit sizes, but they produce a finer scratch compared to conventional abrasives of the same grit size due to their construction.

Our surface conditioning grains

> NON-WOVEN

> PROSTRIP

Your grinding task

Die grinding

Rotary grinding







Backstand grinding



Flat grinding



Surface Conditioning

NON-WOVEN

							5	Stock re	moval			Surface
VSM Series	Max width	Wide belts	Narrow belts	Discs	Quick change	Backing material	Features	Coarse	Medium	Fine	Very fine	Ultra fine
KV706X	63 in	۲				Scrim	♦ Low Stretch					
KV707D	39 in			۲	۲	Scrim	٥					
KV707DHD	39 in			٠		Scrim	٥					
КV707Т	39 in		0			Scrim	X-Flex					
KV707X	39 in	۲	۲			Scrim	♦ Low Stretch					
KV707Y	39 in	۲	۲			Scrim	♦ Low Stretch					
KV710X	39 in	۲	۲			Scrim	♦ Low Stretch					

PROSTRIP

				Stock removal	
VSM Series	Diameter	Discs	Quick change	Heavy	Med.ium
PROSTRIP RED	2 in	21000	0	_	_
	3 in		0		
	4 ½ x % in	0			
	5 x % in	0			
	7 x % in	0			
PROSTRIP BLACK	2 in		0		
	3 in		0		
	4 ½ x ⅔ in	0			
	5 x % in	0			
	7 x % in	0			
PROSTRIP BROWN	2 in		0		
	3 in		0		
	4 ½ x % in	0			
	5 x % in	0			
	7 x % in	0			

Key

- O for low to medium contact pressure
- for medium contact pressure
- for medium to high contact pressure
- also suitable for wet grinding







Finished Goods

In stock and ready to ship

VSM understands the importance of quick delivery to keep your operations running smoothly. That's why we've made sure to stock the most essential abrasive products, ensuring faster turnaround times for all of our customers.

Our finished goods

Quick Change Discs

Convenient and efficient abrasive solutions

The quick-change mechanism of these discs allows Resin fiber discs are suitable for tasks like grinding, deburring, blending and finishing. The resin bond for rapid disc swaps without tools, minimizing operator provides a strong and durable structure, ensuring the downtime. These discs offer enhanced control, making abrasive grains stay adhered during use while their fiber them ideal for detailed work or finishing in small areas, backing adds another layer of toughness. such as edges, corners and intricate parts.

Back-up Pads

Reliable support for optimal abrasive performance

Back-up pads provide a secure and stable base for various abrasive discs, ensuring consistent pressure and smooth operation. Designed for durability and flexibility, they help extend disc life.





- > Faster turnaround times: Immediate availability of high-demand abrasives means less waiting and more working.
- > **Reliable quality:** Every item is carefully selected to provide superior performance and consistency.
- > Variety and flexibility: With a wide range of products in stock, we ensure we have the right abrasives for your specific needs.

Resin Fiber Discs

High-performance for a variety of applications

MRO

Solutions for maintenance, repair and operations

MRO abrasive products are designed to tackle a wide range of industrial maintenance and repair tasks, from grinding and deburring to surface preparation and finishing. These products ensure ease, efficiency and reliability in demanding environments.

Stocked Quick Change Discs

Quick and easy attachment

Quick change discs are ideal for small work areas and are commonly used with die grinders. They feature an easy twist-on/twist-off fastening system (as pictured) which simplifies disc and grit replacement. Common applications include stock removal, deburring and blending.

The right grain for every application

Ş	Stock removal	Finish	
Γ	ACTIROX	NON-WOVEN	
	CERAMICS PLUS	ALUMINUM OXIDE	
	CERAMICS	ACTIROX	-
	ZIRCONIA ALUMINA	CERAMICS PLUS	
	ALUMINUM OXIDE	CERAMICS	
		L	i

Back-up pads



APEX features

- > Extended abrasive life and reduced heat thanks to rubber ridges
- Increased vibration damping
- > Best for contoured workpieces
- > Fixed shaft molded into pad

VSM Series	Diameter	Туре	Shank dia.	Features
APEX	1½ in	S	1/4	Rigid, rubber
	2 in	S	1⁄4	Rigid, rubber
	3 in	S	1⁄4	Rigid, rubber
	1½ in	R	1/4	Rigid, rubber
	2 in	R	1/4	Rigid, rubber
	3 in	R	1⁄4	Rigid, rubber







This illustration represents the coated abrasive disc hub.



Surface cleaning

PROSTRIP	
NON-WOVEN	
ALUMINUM OXIDE	A



Standard features

- > Reduced heat and extended abrasive life thanks to cooling fins
- > Cambering for increased stock removal and reduced vibration
- > Increased stock removal

VSM Series	Diameter	Туре	Shank dia.	Features
Standard	1 ½ in	S	1⁄4	Extra Rigid, FRP
	2 in	S	1⁄4	Extra Rigid, FRP
	3 in	S	1⁄4	Extra Rigid, FRP
	1 ½ in	R	1⁄4	Extra Rigid, FRP
	2 in	R	1⁄4	Extra Rigid, FRP
	3 in	R	1⁄4	Extra Rigid, FRP

Stocked Quick Change Discs

ACTIROX



CERAMICS PLUS

					Stoc	ck re	mov	al				5	Surfa	ce
VSM Series	Diameter	Туре	Backing	Features	20	24	36	40	50	60	80	100	120	
XF885	1 ½ in	R	Fiber	TOP SIZE										0
	2 in	R	Fiber	TOP SIZE										
	3 in	R	Fiber	TOP SIZE										
XF885	1 ½ in	S	Fiber	TOP SIZE METAL			м	м	м	м	м		м	
	2 in	S	Fiber	TOP SIZE METAL			м	м	м	м	м		м	METAL
	3 in	S	Fiber	TOP SIZE METAL			м	м	м	м	м		м	Type S
XK885Y	1½ in	R	Cloth	TOP SIZE										
	2 in	R	Cloth	TOP SIZE										
	3 in	R	Cloth	TOP SIZE										
XK885Y	1 ½ in	S	Cloth	TOP SIZE METAL			м		м	м	м		м	10.00
	2 in	S	Cloth	TOP SIZE METAL			м		м	м	м		м	
	3 in	S	Cloth	TOP SIZE METAL			м		м	м	м		м	

Cto als ranges as

CERAMICS

					Stock removal						Surfa				
VSM Series	Diameter	Туре	Backing	Features	24	36	6	50	60	80	100	120			
XK870X	1 ½ in	R	Cloth	TOP SIZE											
	2 in	R	Cloth	TOP SIZE											
	3 in	R	Cloth	TOP SIZE											
XK870X	1 ½ in	S	Cloth	TOP SIZE											
	2 in	S	Cloth	TOP SIZE											
	3 in	S	Cloth	TOP SIZE											



ZIRCONIA ALUMINA

					Sto	ck re	emo	val		
VSM Series	Diameter	Туре	Backing	Features	24	36	40	20	60	
ZIRC	2 in	R	Cloth	TOP SIZE						
	3 in	R	Cloth	TOP SIZE						
ZIRC	2 in	S	Cloth	TOP SIZE						
	3 in	S	Cloth	TOP SIZE						

ALUMINUM OXIDE

Stock removal
4

VSM Series	Diameter	Туре	Backing	Features	24	36	40	50	09	8
KK711Y	1½ in	R	Cloth							
	2 in	R	Cloth							
	3 in	R	Cloth							
KK711Y	1½ in	S	Cloth							
	2 in	S	Cloth							
	3 in	S	Cloth							

NON-WOVEN

					Stock	removal
VSM Series	Diameter	Туре	Backing	Features	Coarse	Medium
KV707D	2 in	R	Scrim	(+) Performance		
	3 in	R	Scrim	(+) Performance		
	2 in	R	Scrim	Better Cut		
	3 in	R	Scrim	Better Cut		
	2 in	R	Scrim	Better Finish		
	3 in	R	Scrim	Better Finish		
KV707D	2 in	S	Scrim	Better Finish		
	3 in	S	Scrim	Better Finish		

PROSTRIP



Key

TOP SIZE Grinding-active additional laver reduces the temperature in the grinding zone.

Achieve higher stock removal than expected with the specified grit size without a rougher surface.







Shaded cells indicate stocked items. Other dimensions and grit sizes available upon request.



Stocked Resin Fiber Discs

Stock removal with durability

Resin fiber discs are heavy-duty coated abrasive discs designed for aggressive grinding, blending and finishing applications.

The right grain for every application

Stock removal	Finish
ACTIROX	ALUMINUM OXIDE
CERAMICS PLUS	ACTIROX
CERAMICS	CERAMICS PLUS
ZIRCONIA ALUMINA	CERAMICS
ALUMINUM OXIDE	

Back-up pads



APEX features

- > Cooling fins reduce heat
- > Less pressure required for operators
- > Aggressive stock removal

VSM Series	Diameter	Thread	Features
APEX 1	4 ½ in	5⁄≋ - 11	Flexible, rubber
	5 in	5⁄8 - 11	Flexible, rubber
	7 in	5∕≋ - 11	Flexible, rubber
	9 in	5⁄8 - 11	Flexible, rubber
APEX 2	4 ½ in	5⁄≋ - 11	Medium, rubber
	5 in	5⁄8 - 11	Medium, rubber
	7 in	5⁄8 - 11	Medium, rubber
	9 in	5∕s - 11	Medium, rubber
APEX 3	4 ½ in	5∕≋ - 11	Rigid, rubber
	5 in	5⁄8 - 11	Rigid, rubber
	7 in	5∕s - 11	Rigid, rubber
	9 in	5⁄8 - 11	Rigid, rubber



	They consist of a strong, vulcanized fiber backing coated
nd	with abrasive grains and bonded with a resin system,
	providing durability and heat resistance.





TURBO features

- > Cooling fins reduce heat
- > Less pressure required for operators
- > Aggressive stock removal

VSM Series	Diameter	Arbor hole	Features
TURBO	4 ½ in	7⁄8	Extra rigid, FRP
	5 in	7⁄8	Extra rigid, FRP
	7 in	7∕8	Extra rigid, FRP

Stocked Resin Fiber Discs

ACTIROX

				Sto	ok re	emo	val	Su	rfac
VSM Series	Diameter	Arbor hole	Features	24+	36+	50+	+09	+08	120+
AF733	4 ½ in	7⁄8	ALU						
	5 in	7⁄8	ALU						
	7 in	7⁄8	ALU						
AF799	4 ½ in	7∕8							
	5 in	7∕8							
	7 in	7⁄8							
	9 ¼ in	7⁄8							
AF890	4 ½ in	7∕8	TOP SIZE						
	5 in	7⁄8	TOP SIZE						
	7 in	7⁄8	TOP SIZE						
	9 ¼ in	7⁄8	TOP SIZE						
AF979	4 ½ in	7∕8							
	5 in	7∕8							
	7 in	7∕8							



ZIRCONIA ALUMINA

				Stoc	ck re	mov	al			Su
VSM Series	Diameter	Arbor hole	Features	24	36	40	20	09	80	100
ZF713	4 ½ in	7⁄8								
	5 in	7/8								
	7 in	7/8								
	9 ¼ in	7∕8								

ALUMINUM OXIDE

				Stoc	k re	mov	al			Sur
VSM Series	Diameter	Arbor hole	Features	24	36	40	50	60	80	100
KF708	4 ½ in	7/8								
	5 in	7/8								
	7 in	7⁄8								
	9 ¼ in	7⁄8								

CERAMICS PLUS

				Stoc	k rer	nova	al				Su	rface
VSM Series	Diameter	Arbor hole	Features	20	24	36	40	50	60	80	100	120
XF885	4 ½ in	7⁄8	TOP SIZE									
	5 in	7⁄8	TOP SIZE									
	7 in	7⁄8	TOP SIZE									
	9 ¼ in	7⁄8	TOP SIZE									

CERAMICS

				Stock removal			Surface				
VSM Series	Diameter	Arbor hole	Features	54	36	40	50	60	80	100	120
XF760	4 ½ in	7⁄8									
	5 in	7⁄8									
	7 in	7⁄8									
XF870	4 ½ in	7⁄8	TOP SIZE								
	5 in	7⁄8	TOP SIZE								
	7 in	7⁄8	TOP SIZE								
	9 ¼ in	7⁄8	TOP SIZE								



PROSTRIP

				Stock re	emoval	Su
VSM Series	Diameter	Arbor hole	Features	Неачу	Med.ium	-
PROSTRIP RED	4 ½ in	7⁄8				
	5 in	7⁄8				
	7 in	7∕8				
PROSTRIP BLACK	4 ½ in	7⁄8				
	5 in	7⁄8				
	7 in	7⁄8				
PROSTRIP BROWN	4 ½ in	7⁄8				
	5 in	7⁄8				
	7 in	7⁄8				

Key

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

ALU: Prevents chip adhesion to avoid clogging up the abrasive. Also results in longer service life.











+

Achieve higher stock removal than expected with the specified grit size without a rougher surface.

Shaded cells indicate stocked items. Other dimensions and grit sizes available upon request.



Fiber lock option available.

Stocked Back-up Pads

RESIN FIBER PADS



APEX features

- > Cooling fins reduce heat
- > Less pressure required for operators
- > Aggressive stock removal
- > Does not include retaining nut

VSM Series	Item no.	Diameter	Thread	Features
APEX 1	151302	4 ½ in	5⁄8 - 11	Flexible, rubber
	151303	5 in	5⁄8 - 11	Flexible, rubber
	151304	7 in	5⁄8 - 11	Flexible, rubber
	151305	9 in	⁵⁄≋ - 11	Flexible, rubber
APEX 2	151306	4 ½ in	⁵⁄≋ - 11	Medium, rubber
	151307	5 in	5⁄8 - 11	Medium, rubber
	151308	7 in	5⁄8 - 11	Medium, rubber
	151309	9 in	5⁄8 - 11	Medium, rubber
APEX 3	151310	4 ½ in	⁵⁄≋ - 11	Rigid, rubber
	151311	5 in	5⁄8 - 11	Rigid, rubber
	151312	7 in	5⁄8 - 11	Rigid, rubber
	151313	9 in	5⁄8 - 11	Rigid, rubber



TURBO features

> Cooling fins reduce heat > Less pressure required for operators

> Aggressive stock removal

> Includes retaining nut

VSM Series	Item no.	Diameter	Arbor hole	Features
TURBO	150481	4 ½ in	7⁄8	Extra Rigid, FRP
	150482	5 in	7⁄8	Extra Rigid, FRP
	150483	7 in	7⁄8	Extra Rigid, FRP

VSM Series	ltem no.	Thread
RETAINING NUT	129404	5⁄8 - 11





PSA P	AD2			
		Featu	res	
	6	Elavible		
	G		e DA pad	
		> Durab	le PVE face	
VSM Series	Item no.	Diameter	Thread	Features
PSA	129398 147631	5 in 5 in	Male 5/16 - 24 Male 5/16 - 24	Low profile, vinyl High profile, vinyl
_	129400	6 in	Male 5/16 - 24	Low profile, vinyl
	123400	0111	IVIAIC /16 - 24	Low prome, why
HOOK	< & LC	DOP P	PADS	
		Feat	ures	
		> Secu	ire J-hooks	
		> Rigid	l backing plate	
VSM Series	Item no.	Diameter	Thread	Features
НООК	147727	4 in	Male 5/16 - 24	Low profile, D/A
				Lawrence file D (A
& LOOP	129399	5 in	Male 5/16 - 24	Low profile, D/A
& LOOP	129399 129401	5 in 6 in	Male 5/16 - 24 Male 5/16 - 24	Low profile, D/A
& LOOP				
& LOOP	129401	6 in	Male 5/16 - 24	Low profile, D/A
& LOOP	129401	6 in	Male 5/16 - 24	Low profile, D/A
	129401 148467	6 in 5 in	Male 5/16 - 24	Low profile, D/A
GRIPF	129401 148467	6 in 5 in	Male 5/16 - 24	Low profile, D/A
	129401 148467	6 in 5 in	Male 5/16 - 24	Low profile, D/A
	129401 148467	6 in 5 in	Male %₅ - 24 Female % -11	Low profile, D/A
	129401 148467	6 in 5 in	Male %₅ - 24 Female % -11	Low profile, D/A
	129401 148467	6 in 5 in ADS Featu	Male 5% - 24 Female 5% -11	Low profile, D/A J-hook, right angle
	129401 148467	6 in 5 in ADS Featu > Right	Male %= - 24 Female % -11	Low profile, D/A J-hook, right angle
	129401 148467	6 in 5 in ADS Featu > Right > Extra	Male %6 - 24 Female % -11	Low profile, D/A J-hook, right angle
	129401 148467	6 in 5 in ADS Featu > Right > Extra	Male %= - 24 Female % -11	Low profile, D/A J-hook, right angle
	129401 148467	6 in 5 in ADS Featu > Right > Extra	Male %6 - 24 Female % -11	Low profile, D/A J-hook, right angle
GRIPF	129401 148467 PER PA	6 in 5 in ADS Featu > Right > Extra cond	Male ‰ - 24 Female ‰ -11	Low profile, D/A J-hook, right angle
	129401 148467	6 in 5 in ADS Featu > Right > Extra	Male %6 - 24 Female % -11	Low profile, D/A J-hook, right angle
GRIPF	129401 148467 PER PA	6 in 5 in ADS Featu > Right > Extra cond Diameter	Male %= - 24 Female % -11	Low profile, D/A J-hook, right angle
GRIPF	129401 148467 DER PA DER PA Notes that the second s	6 in 5 in ADS Featu > Right > Extra cond Diameter 4½ in	Male %= - 24 Female % -11	Low profile, D/A J-hook, right angle
GRIPF	129401 148467 DER PA USA 14840 148409 148400	6 in 5 in ADS Featu > Right > Extra cond Diameter 4½ in 5 in	Male %= - 24 Female % -11	Low profile, D/A J-hook, right angle compatible ks for surface backing Features T-hook T-hook



PSA F	AD2			
		Featu	res	
	6		e DA pad	
	(e)	> Durabl	le PVE face	
VSM Series	Item no.	Diameter	Thread	Features
PSA	129398 147631	5 in 5 in	Male 5/16 - 24 Male 5/16 - 24	Low profile, vinyl High profile, vinyl
-	129400	6 in	Male 5/16 - 24	Low profile, vinyl
HOOP	X & LC	DOP P	PADS	
		Feat	ures	
	a	Secu	re J-hooks	
	0 0			
	-	> Rigid	backing plate	
VSM Series	Item no.	Diameter	Thread	Features
ноок	147727	4 in	Male 5/16 - 24	Low profile, D/A
	147727 129399	4 in 5 in	Male 5/16 - 24 Male 5/16 - 24	Low profile, D/A Low profile, D/A
ноок	147727 129399 129401	4 in 5 in 6 in	Male 5/16 - 24 Male 5/16 - 24 Male 5/16 - 24	Low profile, D/A Low profile, D/A Low profile, D/A
ноок	147727 129399	4 in 5 in	Male 5/16 - 24 Male 5/16 - 24	Low profile, D/A Low profile, D/A
ноок	147727 129399 129401	4 in 5 in 6 in	Male 5/16 - 24 Male 5/16 - 24 Male 5/16 - 24	Low profile, D/A Low profile, D/A Low profile, D/A
ноок	147727 129399 129401	4 in 5 in 6 in	Male 5/16 - 24 Male 5/16 - 24 Male 5/16 - 24	Low profile, D/A Low profile, D/A Low profile, D/A
HOOK & LOOP	147727 129399 129401 148467	4 in 5 in 6 in 5 in	Male 5/16 - 24 Male 5/16 - 24 Male 5/16 - 24	Low profile, D/A Low profile, D/A Low profile, D/A
ноок	147727 129399 129401 148467	4 in 5 in 6 in 5 in	Male 5/16 - 24 Male 5/16 - 24 Male 5/16 - 24	Low profile, D/A Low profile, D/A Low profile, D/A
HOOK & LOOP	147727 129399 129401 148467	4 in 5 in 6 in 5 in	Male 5/16 - 24 Male 5/16 - 24 Male 5/16 - 24	Low profile, D/A Low profile, D/A Low profile, D/A
HOOK & LOOP	147727 129399 129401 148467	4 in 5 in 6 in 5 in	Male % ₆ - 24 Male % ₆ - 24 Male % ₆ - 24 Female % -11	Low profile, D/A Low profile, D/A Low profile, D/A
HOOK & LOOP	147727 129399 129401 148467	4 in 5 in 6 in 5 in ADS Featu	Male %s - 24 Male %s - 24 Male %s - 24 Female % -11	Low profile, D/A Low profile, D/A Low profile, D/A J-hook, right angle
HOOK & LOOP	147727 129399 129401 148467	4 in 5 in 6 in 5 in ADS Featu	Male % ₆ - 24 Male % ₆ - 24 Male % ₆ - 24 Female % -11	Low profile, D/A Low profile, D/A Low profile, D/A J-hook, right angle
HOOK & LOOP	147727 129399 129401 148467	4 in 5 in 6 in 5 in ADS Featu > Right	Male %s - 24 Male %s - 24 Male %s - 24 Female % -11	Low profile, D/A Low profile, D/A Low profile, D/A J-hook, right angle
HOOK & LOOP	147727 129399 129401 148467	4 in 5 in 6 in 5 in ADS Featu > Right > Extra	Male %6 - 24 Male %6 - 24 Female % - 11	Low profile, D/A Low profile, D/A Low profile, D/A J-hook, right angle
HOOK & LOOP	147727 129399 129401 148467	4 in 5 in 6 in 5 in ADS Featu > Right > Extra	Male %6 - 24 Male %6 - 24 Female % -11	Low profile, D/A Low profile, D/A Low profile, D/A J-hook, right angle
HOOK & LOOP	147727 129399 129401 148467 PER P	4 in 5 in 6 in 5 in ADS Featu > Right > Extra condi	Male %s - 24 Male %s - 24 Female %s - 11	Low profile, D/A Low profile, D/A Low profile, D/A J-hook, right angle
HOOK & LOOP	147727 129399 129401 148467 PER PA	4 in 5 in 6 in 5 in ADS Featu > Right > Extra condi	Male %s - 24 Male %s - 24 Male %s - 24 Female %s -11	Low profile, D/A Low profile, D/A Low profile, D/A J-hook, right angle
HOOK & LOOP	147727 129399 129401 148467 PER PA	4 in 5 in 5 in ADS Featu > Right > Extra condi Diameter 4½ in	Male % - 24 Male % - 24 Male % - 24 Female % -11 Male % - 11	Low profile, D/A Low profile, D/A Low profile, D/A J-hook, right angle
HOOK & LOOP	147727 129399 129401 148467 PER PA VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	4 in 5 in 6 in 5 in ADS Featu > Right > Extra condi Diameter 4½ in 5 in	Male %6 - 24 Male %6 - 24 Female % - 11 Female % - 11 Male % - 11 Female % - 11 Female % - 11 Female % - 11 Female % - 11	Low profile, D/A Low profile, D/A J-hook, right angle
HOOK & LOOP	147727 129399 129401 148467 PER PA	4 in 5 in 5 in ADS Featu > Right > Extra condi Diameter 4½ in	Male % - 24 Male % - 24 Male % - 24 Female % -11 Male % - 11	Low profile, D/A Low profile, D/A Low profile, D/A J-hook, right angle
HOOK & LOOP	147727 129399 129401 148467 PER PA VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	4 in 5 in 6 in 5 in ADS Featu > Right > Extra condi Diameter 4½ in 5 in	Male %6 - 24 Male %6 - 24 Female % - 11 Female % - 11 Male % - 11 Female % - 11 Female % - 11 Female % - 11 Female % - 11	Low profile, D/A Low profile, D/A J-hook, right angle

QUICK CHANGE PADS



APEX features

> Extended abrasive life and reduced heat thanks to rubber ridges

> Designed for reduced vibration

> More forgiving due to rubber composition

	VSM Series	Item no.	Diameter	Туре	Shank dia.	Features
	APEX	151320	1 ½ in	S	1/4	Rigid, rubber
		151321	2 in	S	1⁄4	Rigid, rubber
		151322	3 in	S	1⁄4	Rigid, rubber
		151315	1 ½ in	R	1⁄4	Rigid, rubber
		151316	2 in	R	1⁄4	Rigid, rubber
Į		151317	3 in	R	1⁄4	Rigid, rubber



Standard features

- > Cooling fins reduce heat
- > Designed for reduced vibration
- > Cambered for increased stock removal

VSM Series	Item no.	Diameter	Туре	Shank dia.	Features
Standard	71715	1½ in	S	1/4	Extra Rigid, FRP
	70812	2 in	S	1⁄4	Extra Rigid, FRP
	70815	3 in	S	1⁄4	Extra Rigid, FRP
	80639	1½ in	R	1/4	Extra Rigid, FRP
	70814	2 in	R	1/4	Extra Rigid, FRP
	70817	3 in	R	1⁄4	Extra Rigid, FRP



Stocked MRO

SHOP ROLLS



HAND PADS



FILM DISCS



MPG



Key

Shaded cells indicate stocked items. Other dimensions and grit sizes available upon request.

Notes

emoval Surface	
LIOR 90K	
~	
Stock removal Surface	
Very fine Super fine	
Brown Green	
Maroon All All All All All All All All All Al	
Black Gray	
White Image: Constraint of the second seco	
moval Surface	
Surface	
180 320	



Notes



VSM – More than just three letters

Quality. Expertise. Customer focus. This is what VSM stands for.

Very 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, the 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 the 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 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).



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