

METAL PROCESSING

Abrasives for perfect surfaces

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, longterm 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).





Since 160 years

Founded in 1864 in Hanover-Hainholz – 160 years' experience in the production of coated abrasives.



More than 850 employees are working on behalf of our customers worldwide each day.

VSM worldwide – operating in more than **70** countries

VSM is operating in more than 70 countries with international subsidiaries and numerous partners.





Made in Germany – Headquarters in Hanover

VSM stands for competence, quality and customer orientation.



Extremely high level of safety – certified and recognized worldwide



All VSM abrasives have been certified by internationally recognized testing bodies for many years and therefore conform to the highest safety standards.

Internal research and development – high vertical integration

VSM has its own internal grain and cloth production and develops almost all of its preliminary products itself. This enables us to achieve a consistently high quality of abrasives.

Our products

For almost every application

From welding seams to sheet metal working, vehicle bodywork and cast materials: VSM produces more than 200 different product ranges that can be worked into rolls, discs, belts and sheets on a range of different backing materials and in various shapes. Furthermore, we supply high-quality preliminary products to specialist customizers. This means that virtually any requirement can be met by VSM abrasives.

You can always rely on the **high level of advisory expertise** of our applications engineers and VSM consultants and the **extensive product range** for a wide variety of technical challenges.

You can rely on the following:

- > High-performance products made in Germany
- > On-site application-based advice
- > Reliable delivery performance
- > Analyses of problems and preliminary tests in the VSM Competence Center
- > Expertise based on co-operating with more than 60 machine manufacturers worldwide
- > A global distribution network with subsidiaries and partners in more than 70 countries



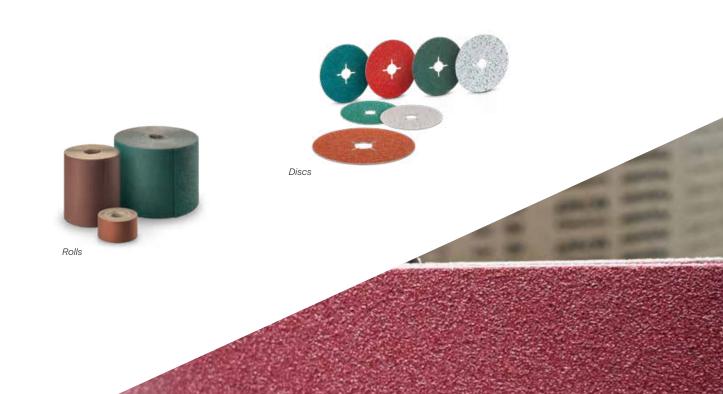
Jumbos



Narrow belts



Wide belts



VSM – your specialist for metalworking

Benefit from efficient VSM abrasives

Whether you want a high stock removal rate or the perfect surface, VSM can offer the appropriate abrasive for every requirement in metalworking. Be it flat surface grinding, cylindrical grinding, off-hand grinding or hand-held machines, our products will always meet the highest standards for service life, stock removal capacity and surface quality.

A **high stock removal** rate requires aggressive grinding with low physical strain for the user. The aim is a high stock removal rate per time unit.

Consistent and reproducible surface results and **specific surface finishes,** surface roughnesses and gloss levels are crucial for a perfect finish.

VSM offers a complete product range

For all grinding tasks – in particular for metal working – we will provide you with the appropriate grinding tools on a cloth, paper or vulcanised fibre backing. From **VSM DIAMOND** to **VSM CERAMICS, VSM COMPACTGRAIN** and **VSM NON-WOVEN,** in a wide range of different shapes and dimensions, our product range has everything.

Efficient grinding – the right grain for every application

VSM produces abrasives for a wide range of applications. From a high stock removal rate to a reproducible surface, our range of abrasives, with more than 25,000 items, will have the appropriate solution for your grinding process.

Due to their exceptional properties, VSM DIAMOND and VSM CBN abrasives produce outstanding results when machining hard and brittle materials and wearresistant HVOF coatings (thermal spray coatings).

VSM ACTIROX stands for maximum stock removal and increased productivity due to its geometrically shaped ceramic grain.

Our specialist products with a self-sharpening effect, VSM CERAMICS Plus and VSM CERAMICS, achieve an extremely high stock removal rate and an extraordinarily long service life.

Thanks to its randomised structure, the latest fine abrasive, VSM XELERION, enables a faultless and reproducible scratch pattern with sustained high stock removal. The long-term abrasive VSM ILUMERON achieves the highest gloss levels and perfect surface finishes. It also allows grinding and polishing to take place in a single processing step.

VSM COMPACTGRAIN Plus and VSM COMPACTGRAIN

are characterised by their extremely long service life and an even surface. These product series are made of granulate that contains numerous abrasive grains. This technology continuously exposes unused, sharp grain tips.

VSM ZIRCONIA ALUMINA, VSM ALUMINUM OXIDE and VSM SILICON CARBIDE are general all-rounders for a large number of applications. They can be used for processing metals, wood, plastics, glass, ceramics and stone. VSM NON-WOVEN products ensure a flawless surface finish, irrespective of whether they are used for decorative satin finishes, cleaning or light deburring work.





VSM ACTIROX



VSM CERAMICS Plus



VSM XELERION



VSM CERAMICS



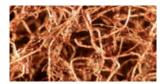
VSM ILUMERON



VSM COMPACTGRAIN



VSM ALUMINIUM OXIDE



VSM NON-WOVEN





VSM COMPACTGRAIN Plus

VSM ZIRCONIA ALUMINA

VSM SILICON CARBIDE



VSM grain technologies in the spotlight

For high stock removal rates



VSM ACTIROX

- > 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 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 CERAMICS

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

For perfect surface finishes



VSM ILUMERON

- > Full faced coated long-term abrasive with special bonding
- For fine and consistent surfaces with high gloss levels
- Developed primarily for processing stainless steels, superalloys and non-alloyed steels



VSM COMPACTGRAIN Plus

- > Long-term abrasive that wears down uniformly to the backing material, achieving a consistent surface finish
- > Optimised reserve grain capacity
- > Improved bonding properties
- Continuous self-sharpening thanks to the granulate structure

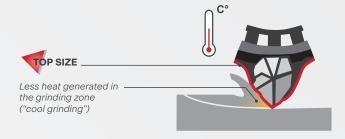


NEW

VSM XELERION

- > Fine abrasive with dot structure
- High initial aggressiveness and constant stock removal
- Homogeneous surfaces up to high gloss
- Optimal distribution of force and heat for a consistent grinding result

VSM grinding-active additional layers





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 ALU-X significantly reduces chip adhesion when processing non-ferrous metals and thus also reduces 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.

Your application

VSM abrasives are suitable for a wide range of metal applications.



Cast and forged parts



Implants and medical instruments



Special parts



Turbine blades



Tank and plant construction



Sheets







Vehicles and bodywork







Fittings





Piston rods and cylinders



Rolls

Product overview

	less steel	oyed steel	1etalle					J.	Ś		P	Jan Contraction of the second	ALS .
VSM Series	air	Unall	NE-N	Backstand	Wide belt grinding	Flat grinding	Centerless	Robotic grinding	Slack of belt	Angle grinding	Disc sanding	Dynafile sanding	Hand sanding
DA930X							\odot	۲					۲
DA930K										۲	\odot		۲
DA920Y				•			•	•					
BA970X							۲						

		Backstand	Wide belt grinding	Flat grinding	Centerless	Robotic grinding	Slack of belt	Angle grinding	Disc sanding	Dynafile sanding	Hand sanding
	AK890Y	0	0	0	0	0	0				
NEW	AF979							•			
	AF890							•			
	AF799							•			
NEW	AF733							•			
	ХК733Х	۲		۲	۲	۲					\odot
	XF733							0			
	XK885Y	•		•	•	٠					
	ХК880Ү	۲		۲	\odot	۲					
	XK785Y	•		٠	•						
	XK888Z			•							
	XK877Z			•							
	ХК870Ү		۲	۲							۲
	XK875X	•		•	•	•					
	ХК870К							۲	۲		
	XK850X	۲		۲	۲	۲				۲	۲
	ХК870Т	۲					۲			۲	
	XK870J	۲				۲	۲				
	XK870F	۲				۲	۲				
	XL870F							۲	۲		۲
	XK760Y		•	•							
	XK760X	۲		۲	۲	۲	۲			۲	
	ХК760К							۲	۲		
	XF885							•			
	XF870							۲			
	XF850							۲			
	XF760							۲			
	XP780		٠	•							

Last revised: 03/2025

Legend

- CER = CERAMICS
- ZA = ZIRCONIA ALUMINA
- AO = ALUMINIUM OXIDE
- SIC = SILICON CARBIDE

Features

- O for low to medium contact pressure
- for medium contact pressure
- for medium to high contact pressure
- \blacklozenge $% \left(A_{1},A_{2},A_{3},A$

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

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

			St	ock ren	noval							Surface	e	
Backing	Grain technology	Features			357 µm	251 µm	126 µm	91 µm	64 µm	46 µm	30 µm			VSM Series
Cloth	VSM DIAMOND	point-shaped coated												DA930X
Cloth	VSM DIAMOND	velour-backed, point-shaped												DA930K
Cloth	VSM DIAMOND	fully coated												DA920Y
Cloth	VSM CBN	point-shaped coated												BA970X

Backing	Grain technology	Merkmal	16	00	24	30	36	64	20	60	80	100	120	220	240	280	320	360	400	500	600	800	1000	
Cloth	VSM ACTIROX						+	•		<u> </u>	~	-		 					•					AK890Y
Fibre	VSM ACTIROX						+																	AF979
Fibre	VSM ACTIROX	TOP SIZE					+			+	+													AF890
Fibre	VSM ACTIROX						+				+													AF799
Fibre	VSM ACTIROX	ALU-X					+			+	+													AF733
Cloth	VSM CERAMICS	ALU-X O																						XK733X
Fibre	VSM CERAMICS	ALU-X																						XF733
Cloth	VSM CERAMICS Plus	TOP SIZE, 👌																						XK885Y
Cloth	VSM CERAMICS Plus	🕈 TOP SIZE, 👌																						XK880Y
Cloth	VSM CERAMICS Plus	۵																						XK785Y
Cloth	VSM CERAMICS	< TOP SIZE, 👌																						XK888Z
Cloth	VSM CERAMICS	< TOP SIZE, 🛇																						XK877Z
Cloth	VSM CERAMICS	< TOP SIZE, 🛇																						XK870Y
Cloth	VSM CERAMICS	< TOP SIZE, 🛇																						XK875X
Cloth	VSM CERAMICS	TOP SIZE , velour-backed																						XK870K
Cloth	VSM CERAMICS	🔻 TOP SIZE, 🛇																						XK850X
Cloth	VSM CERAMICS	TOP SIZE																						ХК870Т
Cloth	VSM CERAMICS	🔻 TOP SIZE, 🛇																						XK870J
Cloth	VSM CERAMICS	TOP SIZE																						XK870F
Cloth	VSM CERAMICS	TOP SIZE , velour-backed																						XL870F
Cloth	VSM CERAMICS	6																						XK760Y
Cloth	VSM CERAMICS	۵																						XK760X
Cloth	VSM CERAMICS	velour-backed																						XK760K
Fibre	VSM CERAMICS Plus	TOP SIZE																						XF885
Fibre	VSM CERAMICS	TOP SIZE																						XF870
Fibre	VSM CERAMICS	TOP SIZE																						XF850
Fibre	VSM CERAMICS																							XF760
Paper	VSM CERAMICS Plus																							XP780

Other dimensions and grit sizes upon request.

▼ TOP SIZE ALU-X velour-backed

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

Grinding-active additional layer, significantly reduces chip adhesion

ked Products with a velour backing

Product overview

	VSM Series	less steel	Unalloyed steel NE-Metalle					B			P	1	Alla S
	VSM Series	Stain.	NE-N	Backstand	Wide belt grinding	Flat grinding	Centerless	Robotic grinding	Slack of belt	Angle grinding	Disc sanding	Dynafile sanding	Hand sanding
	RK700X				۲	۲	۲	۲	۲				۲
	ХК789Х						•						
NEW	KK670F			0				0	0				
NEW	KK670J			0				0		0		0	
	XK786X					•							
	KK790Y				•	•	•						•
	КК791Ү					۲	۲						
	LK719X					•	•						
	KK718X					•	•						
	КК834Х					۲	۲	۲					
	KK712X					۲	۲	۲					
	KK712J			۲				۲					
	KK731X					0	0	0	0				
	KK731K									0	0		
	KK772X					۲	۲	۲					
	КК772К										0		
	KK772J			0		0	0	0	0				
	KK712F			0				0	0				
	КК770Ј			0				0	0				
	CK748X				۲	۲	۲						
	CK918X					۲	۲						
	СК772Т			0		0	0	0	0				
	CK742J							۲	۲				
	KF736									۲			
	KP712				۲	۲							
	CK917C					0	0						

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- SIC = SILICON CARBIDE

Features

- O for low to medium contact pressure
- for medium contact pressure
- for medium to high contact pressure
- \blacklozenge $% \left(A_{1}^{2}\right) =0$ also suitable for wet applications

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

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

		Stock removal								Surface																
			30	G	40	50	60	80	100	120	150	180	220	240	280		400	500	600	800	1000	1200	1500	2000	2500	
Backing	Grain technology	Features	Ő	36	4	ũ	9	00	¥	12	Ψ	₩	ĊĬ	Ň Ó	Ň Ö	i c) 4	ດັ	9	00	¥	14	₩	Ñ	Ñ	VSM Series
Cloth	VSM ILUMERON	<u>ه</u>	_						_		_		-		_		_	_								RK700X
Cloth	VSM COMPACTGRAIN (CER)	٥							_			_	_													XK789X
Cloth	VSM XELERION (AO)		_						_			_														KK670F
Cloth	VSM XELERION (AO)								_				_			_		_								KK670J
Cloth	VSM COMPACTGRAIN (CER)	٥																								XK786X
Cloth	VSM COMPACTGRAIN Plus (AO)	٥																								КК790Ү
Cloth	VSM COMPACTGRAIN Plus (AO)	0																								KK791Y
Cloth	VSM COMPACTGRAIN (AO)	٥	_																							LK719X
Cloth	VSM COMPACTGRAIN (AO)	٥																								KK718X
Cloth	VSM COMPACTGRAIN (AO)	TOP SIZE, 🛇																-								KK834X
Cloth	VSM COMPACTGRAIN (AO)	٥																								KK712X
Cloth	VSM COMPACTGRAIN (AO)																	_								KK712J
Cloth	VSM COMPACTGRAIN (AO)															_										KK731X
Cloth	VSM COMPACTGRAIN (AO)	velour-backed											-													KK731K
Cloth	VSM COMPACTGRAIN (AO)	٥																								KK772X
Cloth	VSM COMPACTGRAIN (AO)	velour-backed																								KK772K
Cloth	VSM COMPACTGRAIN (AO)	٥																								KK772J
Cloth	VSM COMPACTGRAIN (AO)																									KK712F
Cloth	VSM COMPACTGRAIN (AO)	٥																								KK770J
Cloth	VSM COMPACTGRAIN (SIC)	٥																								CK748X
Cloth	VSM COMPACTGRAIN (SIC)	۵																								СК918Х
Cloth	VSM COMPACTGRAIN (SIC)	۵																								СК772Т
Cloth	VSM COMPACTGRAIN (SIC)																									CK742J
Fibre	VSM COMPACTGRAIN (AO)																									KF736
Paper	VSM COMPACTGRAIN (AO)																									KP712
Cloth	VSM KORK SILICON CARBIDE	٥																								СК917С

Other dimensions and grit sizes upon request.

ALU-X

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

Grinding-active additional layer, significantly reduces chip adhesion

velour-backed Products with a velour backing

Product overview

VSM Series	Unalloyed steel NE-Metalle					B			P	- Contraction of the contraction	Alles .
VSM Series	Unall NE-N	Backstand	Wide belt grinding	Flat grinding	Centerless	Robotic grinding	Slack of belt	Angle grinding	Disc sanding	Dynafile sanding	Hand sanding
КК815Ү		•		•	•						
КК716		•		•							
KK715X		•		•	•						
ZK744X		۲		۲	۲						
ZK713X				۲	۲	۲					
ZK713T				۲		۲	۲		۲	۲	
ZK713K								0	0		
ZF714								۲			
ZF713								0			
КК812Х		۲		۲	۲	۲					
КК732Х		۲									
КК711Ү		۲		۲	۲						
КК711Х						۲	۲			۲	
КК711К								0	0		
КК711Т						0	0				
KK511J						0	0				
KK841F						0	0				
KK532F					0	0	0				
KK511F						۲	۲				
KK711E						0	0				
KK114F											0
KF808								•			
KF708											۲
КР709				•							
CK721X				•	•	•					
СК721Ј						0	0				
SF08								0			
CP501			0	0							
KV710X		0	0	0	0	0		0			
КV707Х			0	0	0	0				0	
КV707Т			0	0	0					0	
КV707К								0	0		
KV701X			0	0							
KV701K								0	0		
KV701								0	0		0
KV301								0	0		0
CV701X			0	0	0	0					
CV701											0
CV301											0
KV707	(2025							0			

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

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

Stock removal

Surface

Backing	Grain technology	Features	16	20	24	30	36	40	20	8	80	001	150	180	220	240	280	320	360		800	1000	VSM Seri
Cloth	VSM ZIRCONIA ALUMINA	< TOP SIZE, 🔕																					KK815Y
Cloth	VSM ZIRCONIA ALUMINA	٥																					KK716
Cloth	VSM ZIRCONIA ALUMINA	٥																					KK715X
Cloth	VSM ZIRCONIA ALUMINA	< TOP SIZE, 👌																					ZK744)
Cloth	VSM ZIRCONIA ALUMINA	٥																					ZK713X
Cloth	VSM ZIRCONIA ALUMINA																						ZK713T
Cloth	VSM ZIRCONIA ALUMINA	velour-backed																					ZK713K
Fibre	VSM ZIRCONIA ALUMINA																						ZF714
Fibre	VSM ZIRCONIA ALUMINA																						ZF713
Cloth	VSM ALUMINIUM OXIDE																						KK812X
Cloth	VSM ALUMINIUM OXIDE	ALU-X																					KK732>
Cloth	VSM ALUMINIUM OXIDE	0																					KK711Y
Cloth	VSM ALUMINIUM OXIDE	۵																					KK711X
Cloth	VSM ALUMINIUM OXIDE	velour-backed																					KK711K
Cloth	VSM ALUMINIUM OXIDE																						КК711Т
Cloth	VSM ALUMINIUM OXIDE																						KK511J
Cloth	VSM ALUMINIUM OXIDE	TOP SIZE																					KK841F
Cloth	VSM ALUMINIUM OXIDE	ALU-X																					KK532F
Cloth	VSM ALUMINIUM OXIDE																						KK511F
Cloth	VSM ALUMINIUM OXIDE																						KK711E
Cloth	VSM ALUMINIUM OXIDE																						KK114F
Fibre	VSM ALUMINIUM OXIDE	TOP SIZE																					KF808
Fibre	VSM ALUMINIUM OXIDE																						KF708
Paper	VSM ALUMINIUM OXIDE																						KP709
Cloth	VSM SILICON CARBIDE	0																					CK721X
Cloth	VSM SILICON CARBIDE																						CK721J
Fibre	VSM SILICON CARBIDE																						SF08
Paper	VSM SILICON CARBIDE																						CP501
Cloth	VSM NON-WOVEN (AO/SIC)	0																					KV710X
Cloth	VSM NON-WOVEN (AO/SIC)	٥																					KV707>
Cloth	VSM NON-WOVEN (AO)	0																					KV7071
Cloth	VSM NON-WOVEN (AO)	velour-backed, 🛇																					KV707
Cloth	VSM NON-WOVEN (AO)																						KV701X
Cloth	VSM NON-WOVEN (AO)	velour-backed																					KV701
Cloth	VSM NON-WOVEN (AO)	٥																					KV701
Cloth	VSM NON-WOVEN (AO)	٥																					KV301
Cloth	VSM NON-WOVEN (SIC)	٥																					CV701X
Cloth	VSM NON-WOVEN (SIC)	٥																					CV701
Cloth	VSM NON-WOVEN (SIC)	٥																					CV301
Fibre	VSM NON-WOVEN (AO)		1																				KV707

Other dimensions and grit sizes upon request.

▼ TOP SIZE

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



Products with a velour backing

Closer to you



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