

VSM – Your specialist for flat surface grinding

Benefit from VSM's high-performing abrasives:

- > High stock removal per time unit
- > Extended service life and low set-up costs as a result
- > Consistent and reproducible surface finishes
- > Defined scratch patterns, roughness and gloss value
- > VSM TOP SIZE products achieve
 - · Enhanced machining capacity
 - A reduced temperature in the grinding area and because of this structural changes are avoided

With VSM you can rely on receiving:

- > 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

Your application



Buildings and facades



Lifts and elevators



Table legs



Shipbuilding



Food containers



Large-scale catering facilities



VSM grain technologies in the spotlight

For high stock removal rates



VSM ACTIROX

- > Geometrically formed ceramic
- > 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

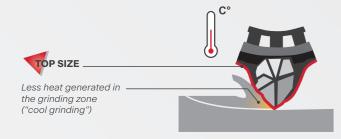
- > Long-term abrasive that wears down uniformly to the backing material, achieving a consistent surface finish
- > Optimised reserve grain capacity
- > Improved bonding properties
- > Continuous self-sharpening thanks to the granulate structure



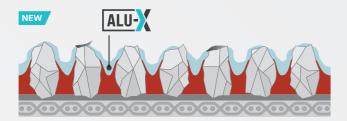
VSM COMPACTGRAIN

- > Long-term abrasive achieves reproducible surface finishes and consistent roughness
- > Uniform stock removal
- > Continuous self-sharpening thanks to the granulate structure

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.

VSM - for flawless surfaces

VSM abrasives are characterised by consistent and reproducible surface finishes. Gloss is one important parameter to describe the visual appearance of an object. It is an optical property which indicates how well a surface reflects light in a mirror-like direction. The intensity of the reflection can be technically measured.

VSM's comprehensive range of abrasives produce a large variety of different gloss units and scratch patterns.

Please feel free to contact us to find out more!



High-gloss (e.g. stainless steel)

Reflection of light



Scratch pattern



VSM Series

CK772T VSM COMPACTGRAIN (SIC) Grit size 1000

80

Gloss Unit (GU)*

Mid-gloss (e.g. stainless steel)

Reflection of light



Scratch pattern



VSM Series

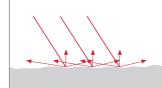
CK772T VSM COMPACTGRAIN (SIC) Grit size 400

Gloss Unit (GU)*

40

Matt (e.g. stainless steel)

Reflection of light



Scratch pattern



VSM Series

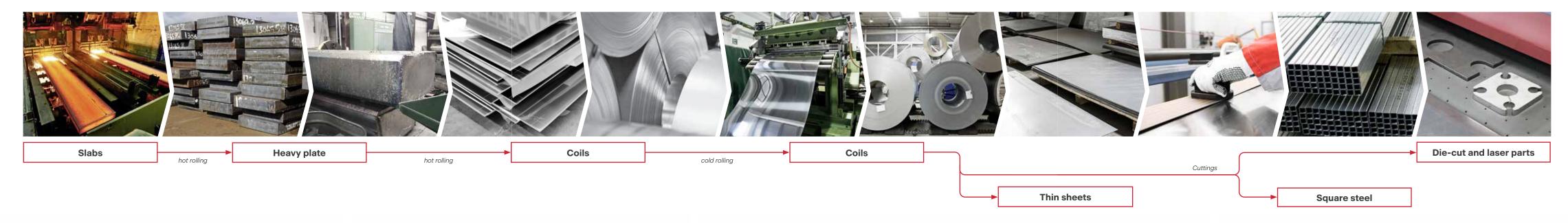
XP780 VSM CERAMICS Grit size 80

5

Gloss Unit (GU)*

^{*)} The measurement scale Gloss Unit (GU) is measured using a Gloss Meter also known as a Glossmeter. The defined standard for a perfectly satin finish is equal to 0 gloss units. High-gloss surfaces with a mirror finish achieve readings of more than 70 GU.

Grinding throughout the whole production process





of slabs t ≥ 100 mm

Wide belt grinding with conveyor table



Product recommendations

VSM Series Grain type Grit range

AK890Y	ACX	36+
XK885Y	CER Plus	20-120
XK880Y	CER Plus	20-120
XK760X	CER	40, 60
ZK713X	ZA	24-60
XP780	CER Plus	60, 80, 100, 120
KP709	AO	36-60

with upper belt

Stroke sanding machine



CER Plus = VSM CERAMICS Plus COM (CER)= VSM COMPACTGRAIN Ceramics

ZA = VSM ZIRCONIA ALUMINA COM (SIC) = VSM COMPACTGRAIN Silicon Carbide

AK890Y	ACX	36+
XK885Y	CER Plus	20-120
VKOOOV	OFD Dlue	20 120

I	AK89UY	ACX	36+
	XK885Y	CER Plus	20-120
	XK880Y	CER Plus	20-120
	XK760X	CER	40, 60
	ZK713X	ZA	24-60
	XP780	CER Plus	60, 80, 100, 120
	KP709	AO	36-60

VSM Series Grain type Grit range

remova	XK880Y	CER Plus	20-120
_	XK760X	CER	40, 60
Stock	ZK713X	ZA	24-60
ις I	XP780	CER Plus	60, 80, 100, 120
	KP709	AO	36-120
	CP501	SIC	40-120

COM (AO) = VSM COMPACTGRAIN Aluminium Oxide NV = VSM NON-WOVEN

SIC = VSM SILICON CARBIDE

Repair grinding

of coils and heavy plates $t \ge 3$ mm

Wide belt grinding with support roller



Product recommendations

VSM Series Grain type Grit range

A S	AK890Y	ACX	36+
2	XK880Y	CER Plus	20-120
STOCK	XK785Y	CER Plus	36-120
7	XK870X	CER	24-60
	ZK713X	ZA	24-60
	KK711Y	AO	36-60

with upper belt



Stroke sanding machine

Product recommendations

XK870X XK760X 24-60 CER Plus 60, 80, 100, 120

VSM Series Grain type Grit range

Customer-specific grinding

of coils and sheet metal t ≤ 2,99 mm

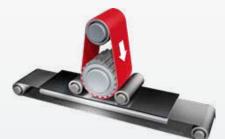
Wide belt grinding with support roller



Product recommendations

	VSM Series	Grain type	Grit range
ł	XK880Y	CER Plus	20-120
	XK870X	CER	24-120
	ZK713X	ZA/AO	24-320
	KP712	COM (AO)	120-800
	KK711Y	AO	36-500
ŧ	CK721X	SIC	24-600

Belt grinding with belt conveyor



Product recommendations

VSM Series	s Grain type	Grit range
XK870X	CER	24-120
XK760Y	CER	24-120
XK786X	COM (CER)	60, 80, 120
ZK713X	ZA/AO	24-320
KK772X	COM (AO)	80-800
СК772Т	COM (AO)	120-1200
KP712	COM (AO)	120-800

Customer-specific grinding

of square, die-cut and laser parts

Belt grinding with belt conveyor

Stroke sanding machine

with upper belt

Product recommendations

XK870X

XK760X

ZK713X

KP712

KP709

VSM Series Grain type Grit range

ZA/AO 24-320 COM (AO) 80-800

COM (AO) 80-600

COM (AO) 120-800

60, 80, 120



Product recommendations

	VSM Series	Grain type	Grit range
lova	XK880Y	CER Plus	20-120
re	XK870X	CER	24-120
Stock remova	XK760X	CER	24-120
တ်	XK786X	COM (CER)	60, 80, 120
	ZK713X	ZA/AO	24-320
	KK790Y	COM Plus (AO)	60-800
	KK791Y	COM Plus (AO)	60-800
	KK712X	COM (AO)	80-600
	CK772T	COM (SIC)	120-1200
urface	RK700X	IL	80-1200
) ji	KV710X	NV (AO/SIC)	coarse - very fine

Grinding with drum sander



	VSM Series	Grain type	Grit range
ova	XK885Y	CER Plus	20-120
rem	XK870X	CER	24-120
Stock remova	XK760X	CER	60, 80, 120
Ñ	ZK713X	ZA/AO	24-320
urface	KK772X	COM (AO)	80-800
	KK712X	COM (AO)	80-600
	СК772Т	COM (SIC)	120-1200
	XP780	CER Plus	60, 80, 100, 120
	KP712	COM (AO)	120-800
Surf	KP709	AO	240, 320

T semi-sturdy

Y very sturdy

Z extremly sturdy

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

Closer to you



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