



ACTIROX

**ABRASIVE GRAIN
IN TOP SHAPE**

The plus in grinding performance





ACTIROX **MAXIMUM** **STOCK REMOVAL.** **FASTER** **CUT.**

Does the dirty work for you

The **ACTIROX** series offers the ideal abrasives for all coarse grinding applications: From bevelling and deburring to removing weld seams and mill scale.

All this and more besides is much easier with **VSM ACTIROX** abrasives. Five series in the 36+, 60+ and 80+ grain spectrum are ready for action!

Made for metal. Made for experience. Made in Germany.

The plus in grinding performance

Practice has shown that **ACTIROX** abrasives have a **higher abrasive performance** than comparable conventional abrasives – with a consistent surface finish.

You achieve **higher stock removal** than you would expect with the specified grit size, but you do not get a rougher surface. A real plus for your grinding process.



Maximum stock removal per time unit thanks to **geometrically shaped ceramic grain**



Very short processing times thanks to **faster grinding** compared to conventional ceramic grain abrasives



Improved chip clearance – also when grinding aluminium



Cool grinding with no tarnishing and with a **very long service life**



AF799

Developed for...



Unalloyed Steel

Aluminium

Your grinding task

Deburring



Bevelling



Levelling of welded seams



Cleaning



Removal of imperfections



Grinding of cast parts



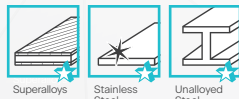
Weld seam preparation

rts.

ACTIROX

AK890Y TOP SIZE

Developed for...



AF979 NEW

Developed for...



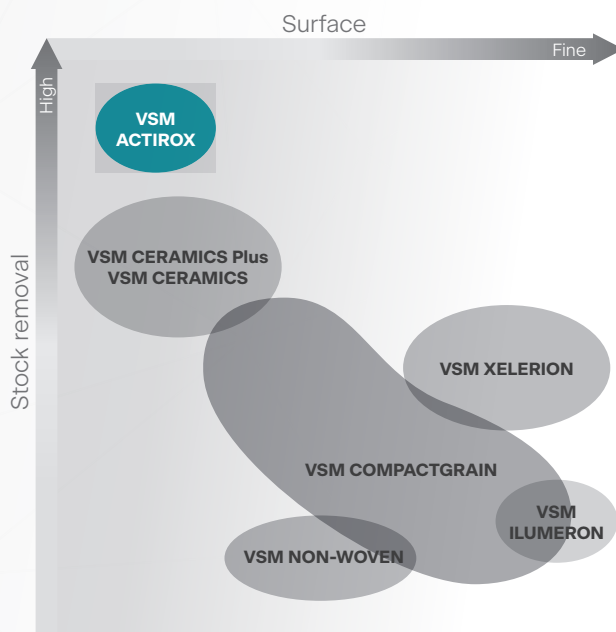
AF890 TOP SIZE

Developed for...



AF733 NEW

Developed for...



VSM ACTIROX products



VSM Series	Rolls (max. width)	Wide belts	Narrow belts	Discs	Backing	Grain technology	Features	20+	24+	36+	40+	50+	60+	80+	100+	120+	150+	180+	240+	320+	400+	
AK890Y	1,480 mm	○	○		Cloth	VSM ACTIROX	TOP SIZE ◊			+												
NEW AF733	1,470 mm			●	Fibre	VSM ACTIROX	ALU-X			+			+	+								
AF890	1,470 mm			●	Fibre	VSM ACTIROX	TOP SIZE			+			+	+								
NEW AF979	1,470 mm			●	Fibre	VSM ACTIROX				+												
AF799	1,470 mm			●	Fibre	VSM ACTIROX				+			+	+								

○ for low to 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

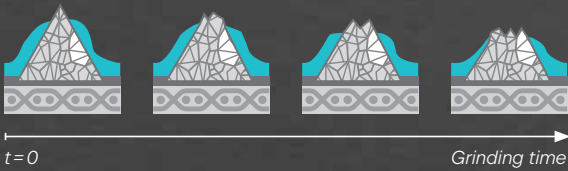
Flexibility of the backing material (last letter of the series name):
 Y very sturdy

Last revised: 03/2025

ACTIROX

For many years, VSM ceramic grain abrasives have been synonymous with very high stock removal rates and a long service life: this is partly thanks to their unique self-sharpening effect.

VSM ACTIROX is the name of the latest generation of abrasives for optimal stock removal. Thanks to the geometrically shaped abrasive grains, it achieves very aggressive, quick grinding for maximum removal rates.



The geometrically shaped ceramic abrasive grain breaks down in a defined manner and thus continuously produces new sharp cutting edges

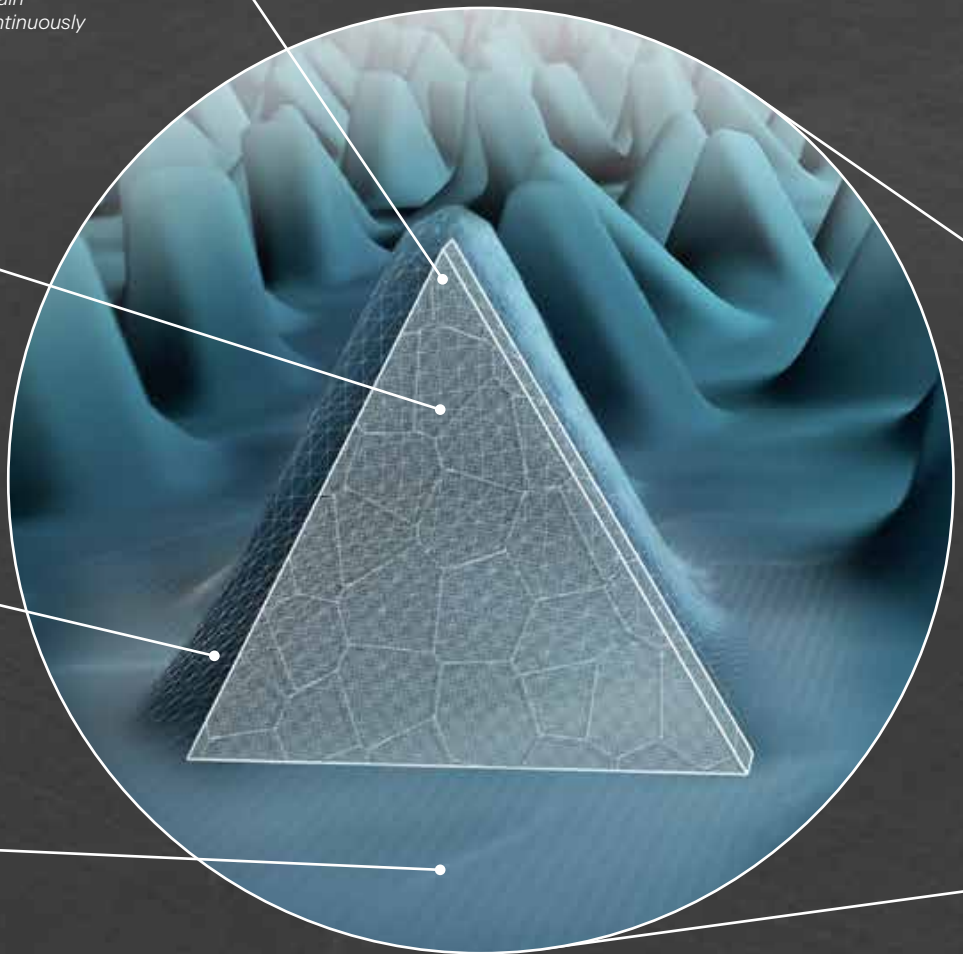
Aligned abrasive grain for aggressive and faster grinding

TOP SIZE

Enhanced machining capacity and reduced temperature in the grinding area thanks to the VSM TOP SIZE grinding-active additional layer

ALU-X

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



Abrasive grain in top shape – also available as a belt!

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

1

Maximum stock removal results in **lower operating expenses**, such as energy and storage costs.

2

Low to medium contact pressures significantly reduce noise and vibrations, and therefore **reduce the strain on operators and machines.**

3

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



For all hard cases

The new ACTIROX AF979 fibre disc is our secret weapon for all hard cases.

The heavy-duty variant of the proven AF799 offers even more than an extremely long service life. With its consistent stock removal rate, it is highly resilient, and even burnt edges on plasma-cut workpieces present no problem.



Case studies

Weld seam levelling, stainless steel



Workpiece	Weld seam
Material	Stainless steel
Contact element	<i>VSM Turbo Pad 3</i>
Speed	8,500 rpm
Power	1,550 W
Feed	Manual
Series	VSM ACTIROX AF890
Disc diameter	125 mm
Grit size	36+

> **Result:** Significantly increased productivity, since up to 70 % more workpieces are processed per shift

Grinding of cast parts



Workpiece	Cast parts
Material	Titanium alloy (ti al 6242)
Contact wheel	Ø=350 mm, 85° Shore A, 6:10 serration
Cutting speed	11 m/s
Feed	Manual
Series	VSM ACTIROX AK890Y
Belt dimensions	70 × 3,500 mm
Grit size	36+
Auxiliary materials	none

> **Result:** 15% more stock removal compared to the previous leading abrasive

Processing of cut edges



Workpiece	Plasma-cut components
Material	S355JR
Contact element	<i>VSM Turbo Pad 3</i>
Speed	12,000 rpm
Power	1,800 W
Feed	Manual
Series	VSM ACTIROX AF979
Disc diameter	125 mm
Grit size	36+

> **Result:** 50% more stock removal compared to the previous leading abrasive

By experts for experts



Would you like to find out more about ACTIROX,
or request samples without obligation?

Call us on:
+49 511 3526 479

Or send us an email:
sales@vsmabrasives.com

We impart expert knowledge and give comprehensive
practical tips in our **webinars** and **seminars**:



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VSM – More than just three letters

VSM stands for competence, quality and customer orientation.

Very few others understand grinding processes like we do. Not only do we grind every surface to precision, we also analyse the specific grinding applications of our customers so that we can always find the best, long-term solution. Process-related expertise is one of the distinguishing features of VSM.

We know abrasives

Because we understand them. VSM develops and produces all the main preliminary products such as backing fabrics, resinoid bonds and abrasive grains at its Hanover site. By doing so, we fulfil our high, self-imposed requirements in industry, the commercial and trade sector. The continuous development of further grain compositions, their refinement and processing ensures that VSM remains one of the most experienced manufacturers of ceramic grain worldwide.

Application-based expertise

We see the entire grinding processes of our customers as a challenge. A global network of VSM specialists provides expert advice wherever it is needed irrespective

of whether your company is large or small. Thanks to our close collaboration with machine manufacturers, cutting fluid experts and research institutes, we ensure that our customers can benefit from technological trends as soon as possible.

We make our expertise available for you

The VSM Competence Center (CC) in Hanover provides an opportunity for product training, seminars and extensive application tests. Customer applications can be adjusted and results reviewed. This service from VSM reduces downtimes and productivity losses for our customers.

Certified and recognized worldwide

VSM has been certified to ISO standard 9001:2008 as its basis for quality assurance for many years. In addition, it is a member of FEPA, oSa and the German Abrasives Association (VDS).



Closer to you



Europe

Germany (Headquarters)

VSM · Vereinigte Schmirgel- und Maschinen-Fabriken AG
Siegmundstraße 17
30165 Hanover, Germany
T +49 511 3526 478
www.vsmabrasives.de

Hungary

VSM Abrasives Hungary Ltd.
Leshegy út 31
2310 Szigetszentmiklós
T + 36 24 519223
www.vsmabrasives.hu

Switzerland

PFERD-VSM (Schweiz) AG
Zürichstr. 38 B
8306 Brüttisellen
T +41 44 805 2828
www.pferd-vsm.ch

Americas

USA

VSM Abrasives Corp.
1012 East Wabash St.
O'Fallon, MO 63366
T +1 636 272 7432
us.vsmabrasives.com

Canada

VSM Abrasives Canada Inc.
2425 Wyecroft Road Unit #1
Oakville, Ontario, L6L 6R5
T +1 905 827 0005
www.vsmabrasives.ca

Czech Republic

VSM Abrasives s.r.o.
River Garden, 5th Floor
Rohanské nábřeží 678/23
18600 Praha
T +420 277 015 300
www.vsmabrasives.cz

Poland

PFERD-VSM Sp. z o.o.
Ul. Polna 1A
62-025 Kostrzyn Wielkopolski
T +48 61 8970 480
www.pferdvsm.pl

Turkey

**STARCKE VSM VITEX
Zimpara Teknolojisi
Sanayi ve Dis Ticaret Ltd. Sti.**
AYOSB Gazi Bulvari 8.
Sokak No: 5, Tuzla Istanbul
T +90 216 591 06 17
T +90 216 591 07 01
www.starckevsm.com

Latin America

VSM Latinoamérica S.A.S.
Carrera 7 No. 116 – 50.
WeWork Building, Floor 5
Office 5-115
Bogotá, Colombia
M +57 316 740 8153
www.vsmabrasivos.com

France

VSM Impavide S.A.S.
52 Avenue Marcel Paul
93297 Tremblay en France
T +33 1 4151 0300
www.vsmabrasives.fr

Spain

**VSM · VITEX ABRASIVOS
IBERICA, S.A.U.**
Ctra. de Molins de Rei,
79A, Nave 8
08191 Rubí (Barcelona)
T +34 93 697 3411
www.vsmabrasives.es

Asia-Pacific

Singapore

**VSM Abrasives
Asia Pacific Pte. Ltd.**
4 Battery Road #25,
Bank of China Building
Singapore 049908
T +66 2 513 7441
www.vsmabrasives-apac.com

Thailand

**VSM Abrasives
Asia Pacific Pte. Ltd.
Thailand Representative Office**
444 Olympia Thai Tower, 13th FL
Ratchadaphisek Rd., Samsennok
Huay Kwang, Bangkok 10310
T +66 2 513 7441
www.vsmabrasives-apac.com

Great Britain

VSM Abrasives Ltd.
Unit 5, Joplin Court Sovereign
Business Park, Crownhill
Milton Keynes, MK8 0JP
T +44 19 0831 0207
www.vsmabrasives.co.uk

Sweden

VSM Abrasives Sverige AB
Stockholm
Sweden
M +46 73 077 70 32
www.vsmabrasives.se

China

**VSM Abrasives
(China) Co. Ltd.**
Rooms 203/205, Building C,
No. 38, Xuxiang Road, Qingpu
District, Shanghai, P.R. China
Postal Code: 201702
T +86 21 5976 2011
www.vsmabrasives.com.cn

Visit our website:

www.vsmabrasives.com