

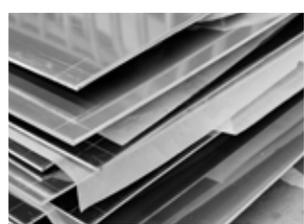
VSM ILUMERON

Long-term abrasive for perfect surfaces and highest gloss levels

The new VSM ILUMERON



Your workpiece

| | | | |
|---|---|--|---|
| Sheet metal | Square steel | Tubes | Sheets, panels |
|  |  |  |  |
| Commercial kitchens | Pots and pans | Hydraulic cylinders | Furniture |
|  |  |  |  |

For a glossy scratch pattern

Your advantages at one glance

- > For a **fine surface finish** with a **very high gloss level**
- > **Consistent surface quality** with extremely narrow tolerances
- > **Increase in productivity:** Grinding and polishing can be accomplished in one single step
- > A specially designed manufacturing process **prevents unwanted chatter marks**
- > Fewer tool changes thanks to an **extended service life** reduce grinding costs and improve process stability
- > **Less dust accumulation** on the workpiece
- > VSM can be relied on to always deliver premium quality **made in Germany**

Grinding of stainless steel surfaces

| Product | Gloss Unit (GU)* |
|---|--|
| RK700X VSM ILUMERON (AO) Grit size 1200 |  GU 153 |
| Similar competitor product Grit size 1200 |  GU 23 |

*) The **Gloss Unit (GU)** is the measuring unit of a gloss metre. 0 GU stands for a perfect matt finish. High-gloss surfaces have a typical GU value of 70.

VSM ILUMERON products:



Rolls
(max. width)

Wide belts

Narrow belts

Backings

Grain technology

Features

Stock removal

Surface

80 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 VSM series

NEW

1,090 mm

⊙

⊙

Cloth

VSM ILUMERON (AO)

⊖

■

■

■

■

■

■

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■

RK700X

Legend:

⊙ for medium contact pressure
⊖ also suitable for wet applications

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

X sturdy

Last revised: 11/2020

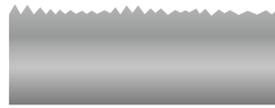
VSM ILUMERON – A shiny performance

For very fine surfaces

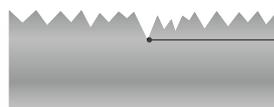
For many years, VSM's long-term abrasives have been achieving uniform surface finishes and consistent stock removal. VSM ILUMERON goes a step further: The latest VSM long-term abrasive stands out thanks to a much longer service life and a very high gloss level.

A product-specific manufacturing process translates into an equal distribution of the grains in the full faced coated abrasive, which break down completely and gradually over a period of time. This results in a considerably more defined surface finish.

Schematic drawing of a cut surface



Ground with VSM ILUMERON



Ground with conventional agglomerates



Grinding and polishing in one single step



Consistent surface quality with extremely narrow tolerances – without "wild" scratches



For fine surfaces with an extremely high gloss level



A longer service life increases productivity due to fewer tool changes

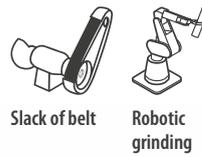


Produces a technically very fine surface quality

Wear pattern of the grain

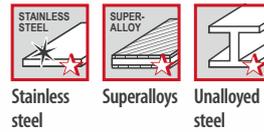


Machines / Grinding processes

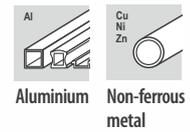


Materials

Developed for:



Also suitable for:



 Improved user protection due to noise reduction

 Primarily for wet grinding

 For medium contact pressures

Case studies

Cylindrical grinding of rollers



| VSM ILUMERON | RK700X |
|------------------------|--|
| Workpiece | Roller, Ø 440 mm 2,120 mm lenght |
| Material | St-52 |
| Contact wheel | > Ø 450 mm > Hardness: 75° Shore A |
| Cutting speed | 14 m/s |
| Feed rate | 900 mm / min, rotation speed roller 128 U / min |
| Belt dimensions | 150 × 3,500 mm |
| Grit size | P180 – P1200 |
| Lubricant | Emulsion |
| Results | <ul style="list-style-type: none"> > Uniform stock removal > Improved surface quality due to narrow tolerances > No "wild" scratches |

Grinding of tubes



| VSM ILUMERON | RK700X |
|------------------------|--|
| Workpiece | Tube |
| Material | Stainless steel |
| Contact wheel | – |
| Cutting speed | 27 m/s |
| Feed rate | 2 m/min |
| Belt dimensions | 60 × 940 mm |
| Grit size | P800 – P1200 |
| Lubricant | – |
| Results | <ul style="list-style-type: none"> > Optimum gloss > Increase in efficiency: Fewer subsequent process steps required (polishing) |



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 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).



A worldwide leader in abrasives.



Europe

Germany (Headquarters)

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

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

France

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

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

Hungary

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

Poland

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

Russia

VSM AG · Russian Representative Office
141006, Moscow region
c. Mytishchi Volkovskoe
roadway vl. 5a, str. 1, of. 208
T +7 499 346 35 27
www.vsmabrasives.ru

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

Sweden

PFERD-VSM AB
Stockholmsvägen 18, 7 tr
18150 Lidingö
T +46 8 5647 2300
www.pferd-vsm.se

Switzerland

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

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

Americas

Canada

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

Latin America

VSM Latinoamérica S.A.S.
Carrera 9 No. 115-06
Edificio Tierra Firme Piso 17
Bogota, Colombia
T +57 1 639 8489
M +57 316 8311705
www.vsmabrasives-latinamerica.com

Asia

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

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

USA

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



Visit our website at
www.vsmabrasives.com