



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
			

VSM ILUMERON – A shiny performance

For very fine surfaces

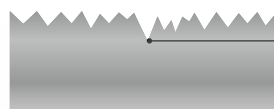
For many years, VSM's long-term abrasives have been achieving uniform surface finishes and consistent stock removal. VSM ILUMERON goes a step further: The latest VSM long-term abrasive stands out thanks to a much longer service life and a very high gloss level.

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

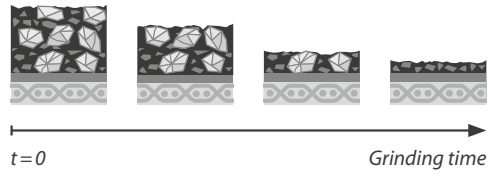


A longer service life increases productivity due to fewer tool changes



Produces a technically very fine surface quality

Wear pattern of the grain



Improved user protection due to noise reduction

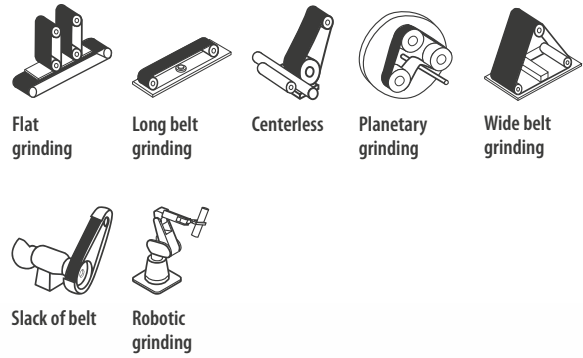


Primarily for wet grinding



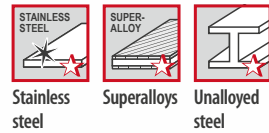
For low to medium contact pressures

Machines / Grinding processes

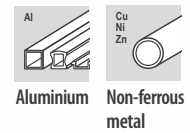


Materials

Developed for:



Also suitable for:



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.



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