

Grinding plates
and pipes to
prepare weld seams

QUALITY ABRASIVES

Your welded steel products



Cranes



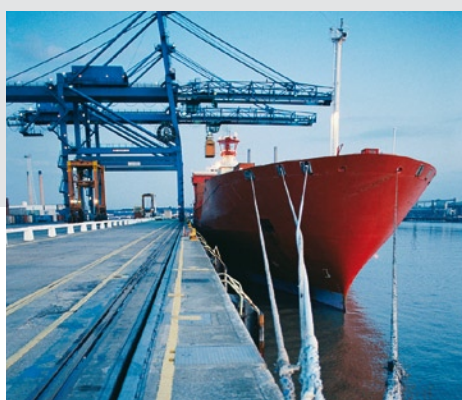
Construction machines



Excavator shovels



Machine frameworks



Shipbuilding



Steel bridges

VSM – Your specialist for bevelling with abrasives

VSM offers High Tech and High Quality products that give you excellent grinding results for bevelling steel parts. We provide abrasives for highest efficiency, made possible through

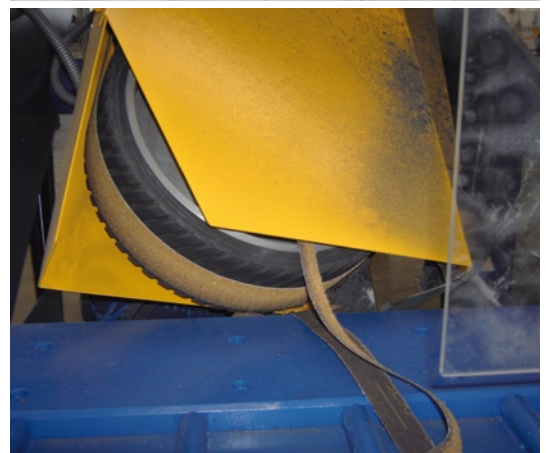
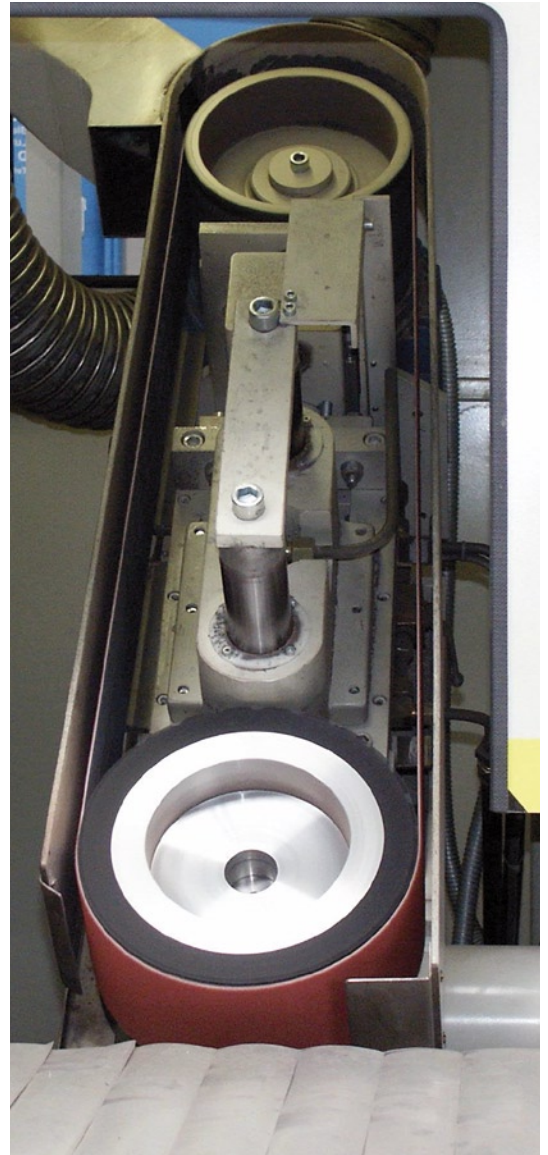
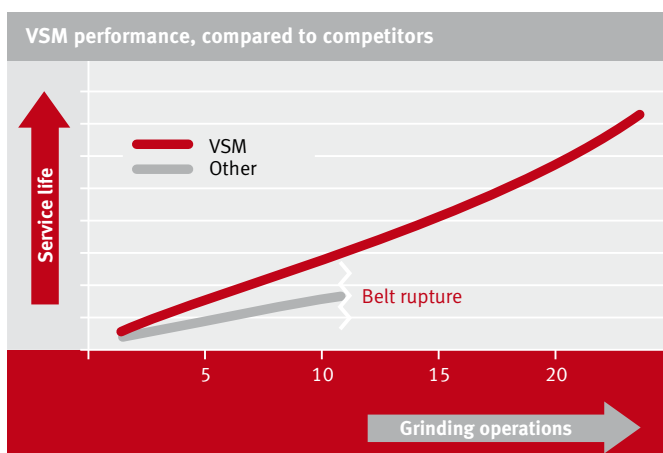
- **high performance products**
- **competence in consulting and development**
- **reliability of quality and delivery performance**

Your benefits with VSM

- **high efficiency of VSM abrasives (fast, clean, cost-saving)**
- **longer service life of VSM products compared to similar products**
- **very high stock removal**
- **smooth and clean surfaces without scales or impurities**
- **maximum chip extraction due to fine chip size**

Suitable for all steel types, all bevel angles, and all widths, to ensure high bevelling quality.

Our performance in comparison

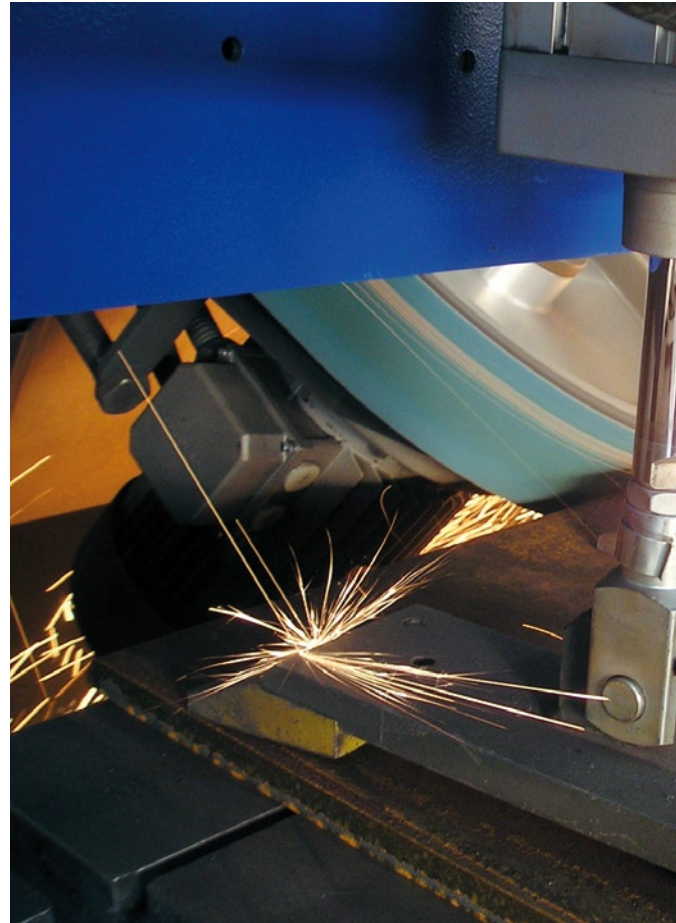


Application example 1: Grinding of construction steel

Workpiece: plates of 15 mm thickness
Material: construction plates

Grinding conditions

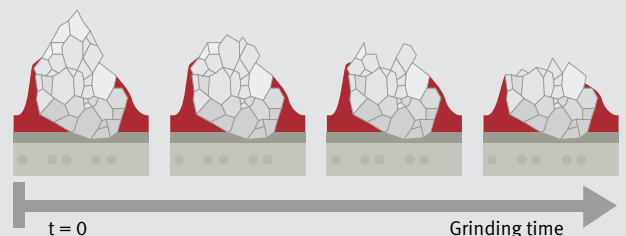
Grinding machine: Kuhlmeier, UKF 2.0
Contact wheel:
— diameter: 400 mm
— hardness: 95° Shore A
— serration: 1:1
Cutting speed: 30 m/s
Feed rate: 1,5 m/min
Belt dimensions: 120 x 2.500 mm
Grit size: #24
Coolant: none
Grinding operation: bevelling



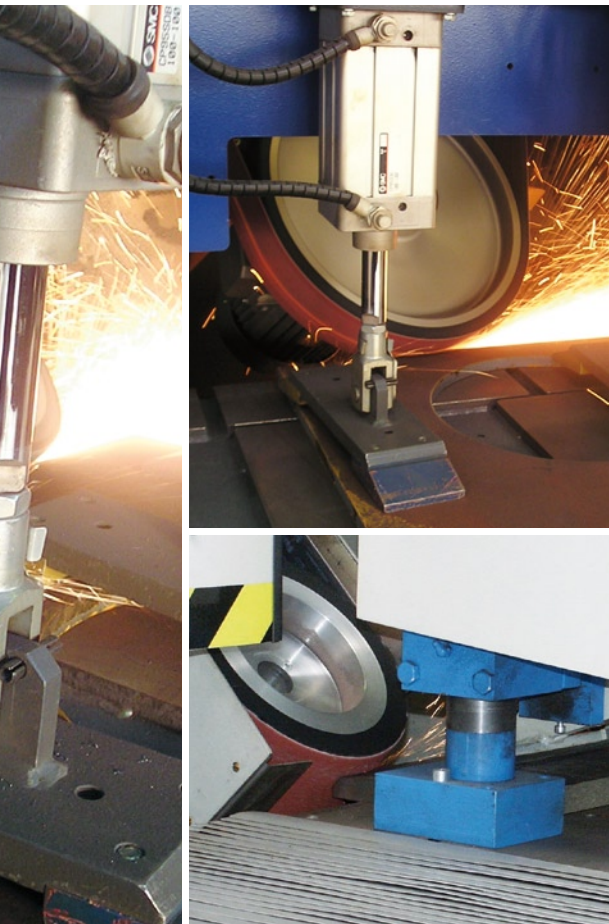
VSM® CERAMICS products for bevelling

Advantages of VSM® CERAMICS

- high stock removal
- long service life
- continuous self-sharpening
- cool grinding
- for hard materials



plates



Operation:

VSM product:

Grain:

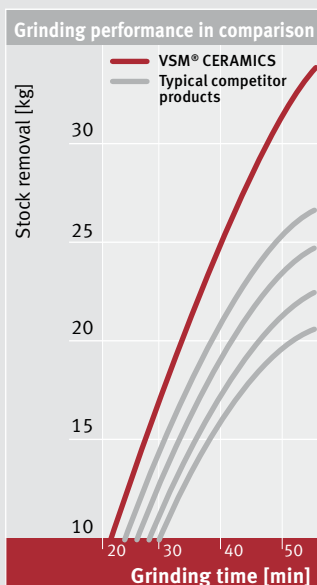
Characteristics:

beveling

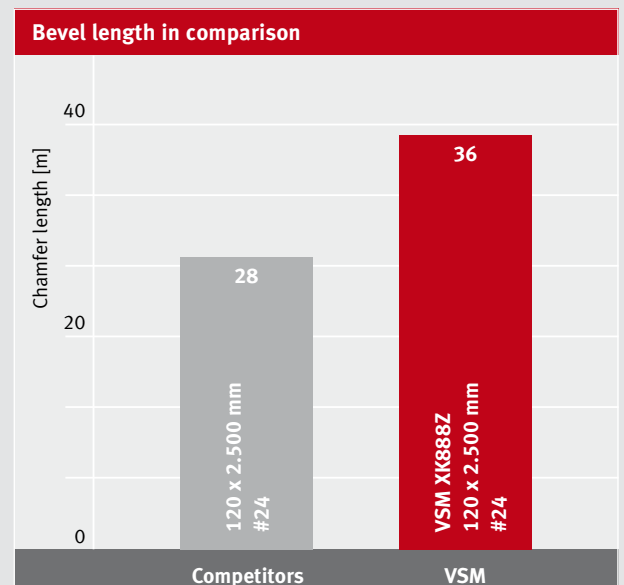
VSMXK888Z **CERAMICS**

24, 36

- powerful cutting action due to the robust backing in combination with continuously generated new cutting grain edges
- very strong belt joint
- the ceramic grain and TOP SIZE coating ensure cool grinding



30% more bevelled seam length with VSM XK888Z

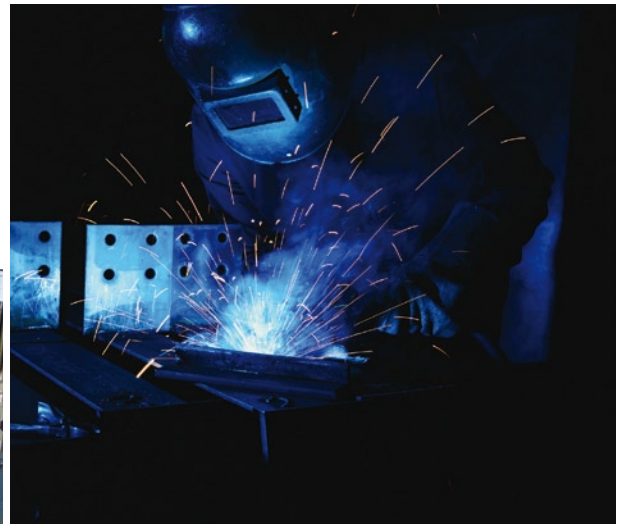
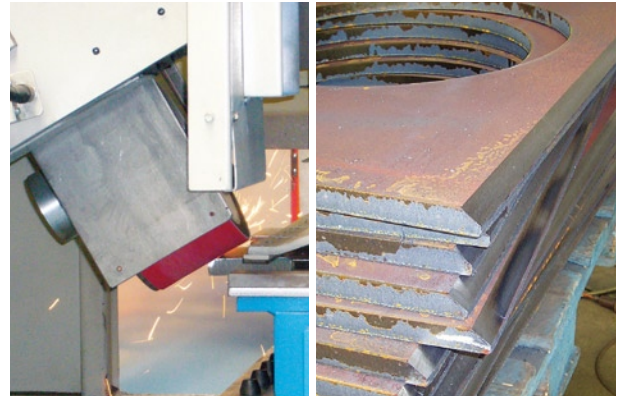


Application example 2: Grinding of steel plates

Workpiece: plates of 1250 x 20 mm thickness
Material: carbon steel

Grinding conditions

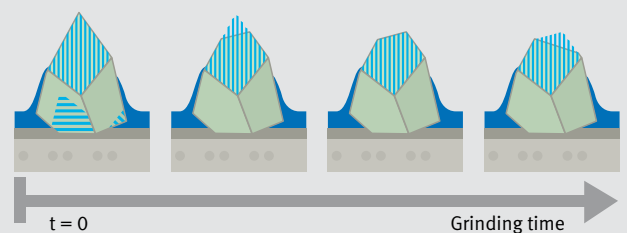
Grinding machine: KMU KF IV
Contact wheel:
— diameter: 300 mm
— hardness: 95° Shore A
— serration: 2:1
Cutting speed: 30 m/s
Feed rate: 1 m/min
Belt dimensions: 75 x 2.000 mm
Grit size: #24
Coolant: none
Grinding operation: 45° bevelling without oscillation

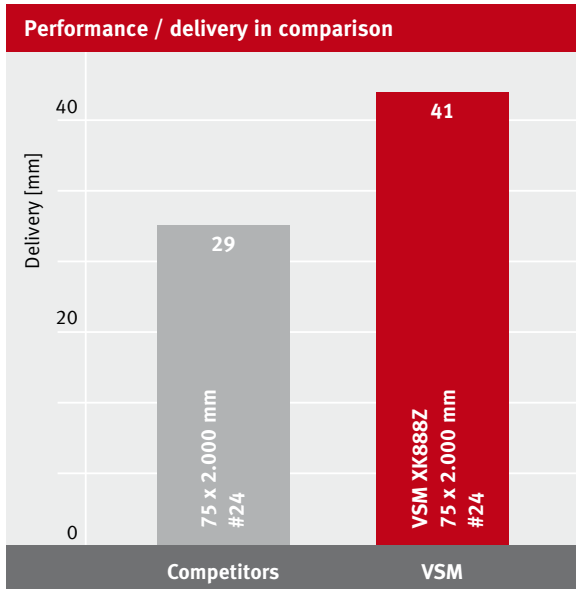


VSM ZIRCONIA ALUMINA products for bevelling

Advantages of VSM ZIRCONIA ALUMINA

- high stock removal
- long service life
- continuous self-sharpening





40% more delivery with VSM XK888Z

Operation:

bevelling

VSM product:

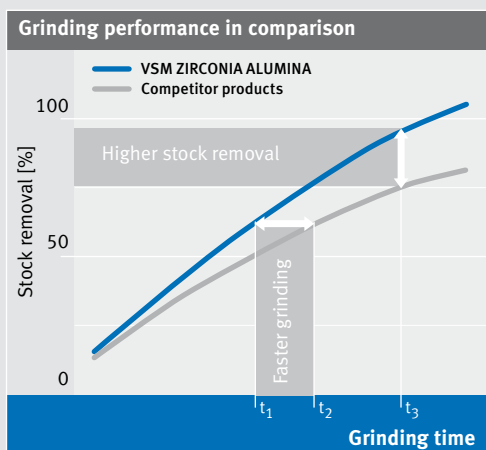
VSMXK888Z **CERAMICS**

Grain:

24, 36

Characteristics:

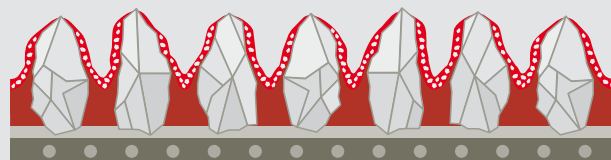
- high bevelling performance even with hard, high-alloyed steel
- excellent adhesion of the specially processed grain on the backing
- optimum joint strength
- additional **TOP SIZE** coating to reduce grinding temperature



VSM **TOP SIZE** products for cool grinding

Grinding active additional coating (TOP SIZE)

- for lower operating temperatures
- for higher chip generation



Grinding active additional coating (TOP SIZE)

VSM products for bevelling to prepare weld seams



Contact grinding	Bevelling machine	Angle grinding	Flap disc	Grit size	Grain type	VSM series
		●		24, 36, 40, 50, 60, 80, 120	CER	VSM XF760
●	● (♂)			24, 36, 40, 50, 60	ZA	VSM KK716
●	● (♂)			24, 36	ZA	VSM KK717
●	●			36, 40, 50, 60, 80	CER/ZA ▼	VSM XK850X
●	●		●	24, 36	CER ▼	VSM XK888Z
●	●		●	24, 36, 40, 50, 60	CER ▼	VSM XK877Z
●	●		●	24, 36, 40, 50, 60, 80, 100, 120	CER ▼	VSM XK870X
		●		24, 36, 40, 50, 60, 80, 100, 120	CER ▼	VSM XF870
●	● (♂)			24, 36, 40, 50, 60, 80, 100, 120	CER	VSM XK760X
●	●			36, 40, 50, 60, 80, 100	ZA ▼	VSM KK815Y
●	●		●	24, 36, 40, 50, 60, 80	ZA ▼	VSM ZK744X
●	● (♂)		●	24, 36, 40, 50, 60, 80	ZA	VSM KK715X
		●		36, 40, 60, 80	ZA ▼	VSM ZF844
			●	36, 40, 50, 60, 80, 120	ZA	VSM ZK765X

Legend

● For medium to high contact pressure (♂) Suitable for wet applications

▼ TOP SIZE grinding active additional coating, for lower operating temperatures and higher chip generation

CER VSM® CERAMICS **ZA** Zirconia Alumina

Our worldwide locations can be found at www.vsmag.de

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