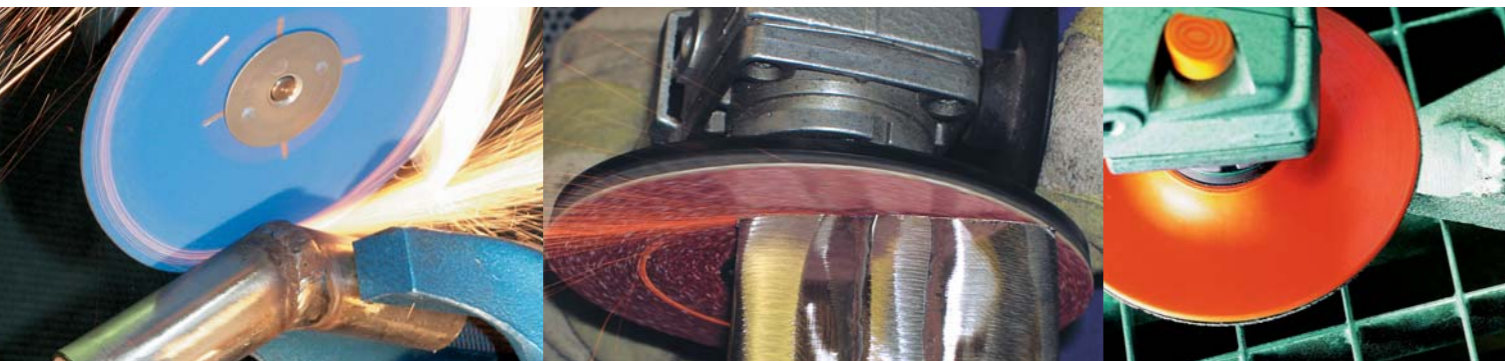


# VSM High performance fibre discs

# VSM High performance fibre discs in operation



## Application examples:

- Smoothing out or polishing welded seams
- Deburring operations of cast parts
- Evening out welded seams, spot weldings and braze-sections
- Edge and surface grinding
- Grinding down imperfections
- Smoothing and polishing



## Your benefit:

### Aggressive stock removal

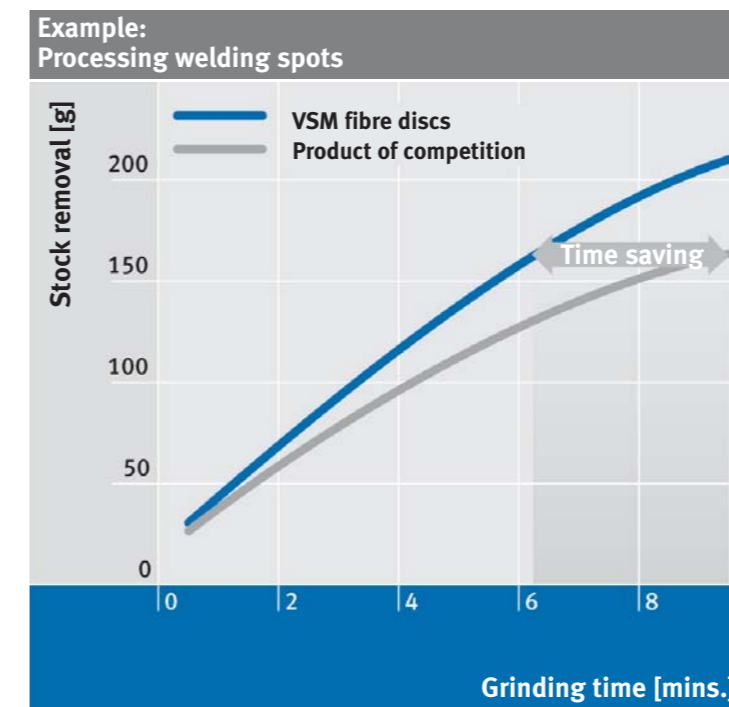
- because of the grain's **excellent cutting properties** (particularly with the self-sharpening ceramic and zirconia alumina series)
- because of perfect coating and special coating technique

### Very long service life

- because **grain bonds superbly** with backing material
- because of **self-sharpening grain** when grinding (ceramic, zirconia alumina and compactgrain)
- because of the additional layer (in TOP SIZE products)

### Excellent surface quality

- because of totally **smooth operation**
- because of **special shapes** (e.g. rosette shape) due to special edge flexibility
- because of **thickness of the fibre disc which matches the grains**



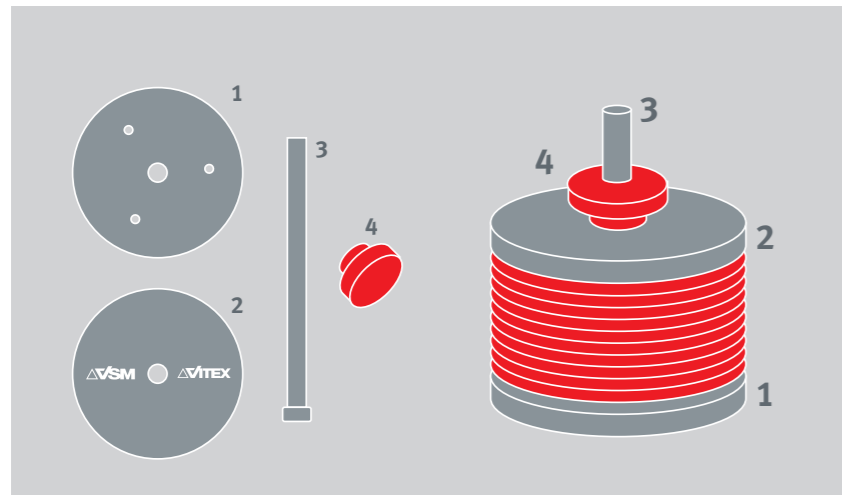
# VSM High performance fibre discs in operation



Steel rolling mills	Steel construction	Ship propellers	Grey cast iron and steel castings	Aluminium castings	Automotive industry	Containers made of stainless steel	Steel radiators	Artificial and natural stone	Grit size	Grain type	VSM series
Grinding out faults	Smoothing/ evening out welded seams, processing forged components	Tolerance and fine grinding of multi-purpose bronze and brass	Smoothing machine supports, containers, casings	Grinding sprues, deburring jobs with grinding grease	Deburring, smoothing out welded seams, spot welds, hard soldered areas	Smoothing welded seams, welding edges and surfaces	Smoothing butt welds, edge welds	Smoothing and polishable grinding of surfaces (steps, windowsills)			
●	●	●	●			●	●		24, 36, 40, 50, 60, 80, 100, 120 24, 36, 40, 50, 60, 80, 120	CER ▼TOP SIZE CER	<b>VSM XF870</b> <b>VSM XF760</b>
		●		●		●	●		24, 36, 40, 50, 60, 80	ZA ▼TOP SIZE	<b>VSM ZF844</b>
				●		●	●		24, 36, 40, 50, 60, 80	ZA	<b>VSM ZF745</b>
●	●		●		●				24, 36, 40, 50, 60, 80, 100, 120	ZA	<b>VSM ZF714</b>
									24, 36, 40, 50, 60, 80, 100, 120	ZA	<b>VSM ZF713</b>
					●				120, 180	COM-AO	<b>VSM KF736</b>
		●				●			36, 50, 60, 80, 100, 120, 150, 180, 220	AO ▼TOP SIZE	<b>VSM KF808</b>
●	●		●	●	●		●		16, 24, 30, 36, 40, 50, 60, 80, 100, 120, 150	AO	<b>VSM KF708</b>
								●	16, 24, 36, 50, 60, 80, 120	SIC	<b>VSM SF08</b>

<b>Key</b>	CER VSM®CERAMICS	COM-AO Compactgrain Aluminium Oxide
● Suitable for the application	ZA Zirconia Alumina	COM-SIC Compactgrain Silicon Carbide
	AO Aluminium Oxide	▼ TOP SIZE Additional layer for cooler grinding and higher cutting rate
	SIC Silicon Carbide	

## VSM fibre disc holders



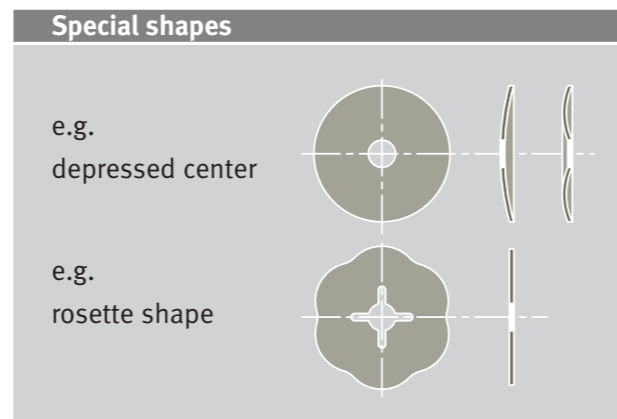
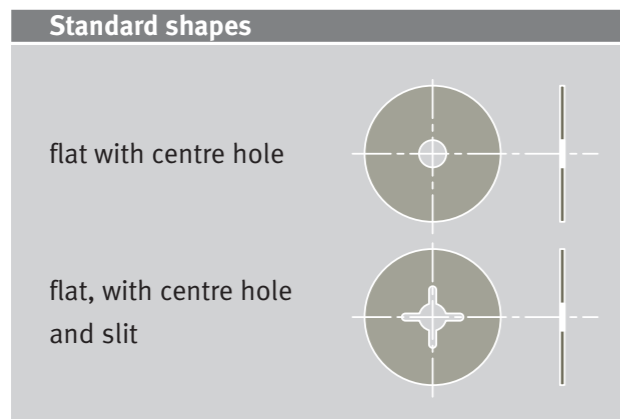
For storing discs up to  $\varnothing$  235 mm with centre hole of  $\varnothing$  22 mm.

- tightly fixed preventing fibre disc distorting
- fibre discs kept tidily at the workplace

Consists of:

- 1 x bottom plate with fixing holes (1)
- 1 x top plate (2)
- 1 x spindle (3)
- 1 x hand knob (4)

## Dimensions and fibre disc shapes



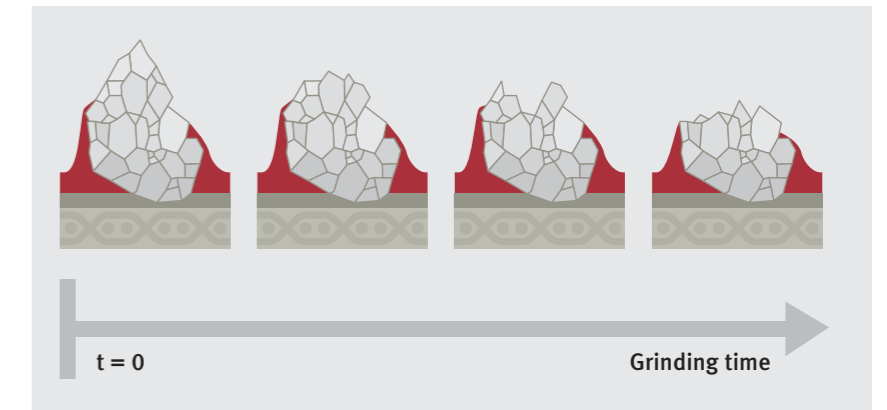
**Standard dimensions [mm]**

D	d
100	16
115	22
125	22
150	22
180	22

## High-tech fibre discs: structure and self-sharpening process of the grain

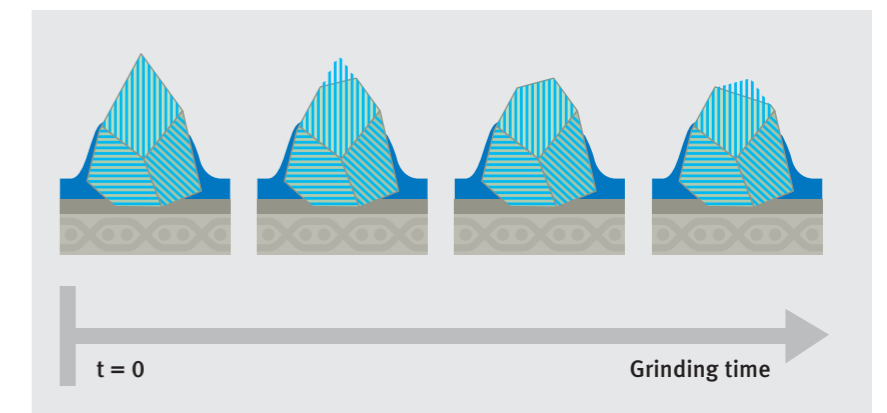
### CERAMIC GRAIN (CER)

- high level of stock removal
- long service life
- continuous self-sharpening
- cool grinding
- for hard workpieces



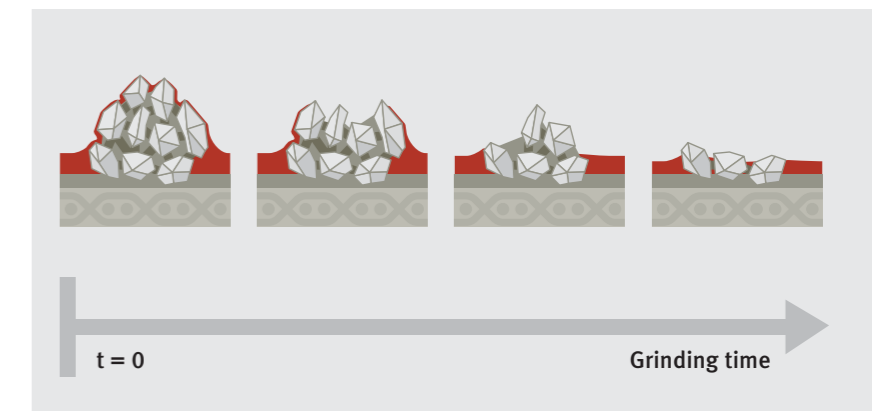
### ZIRCONIA ALUMINA (ZA)

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



### COMPACTGRAIN (COM)

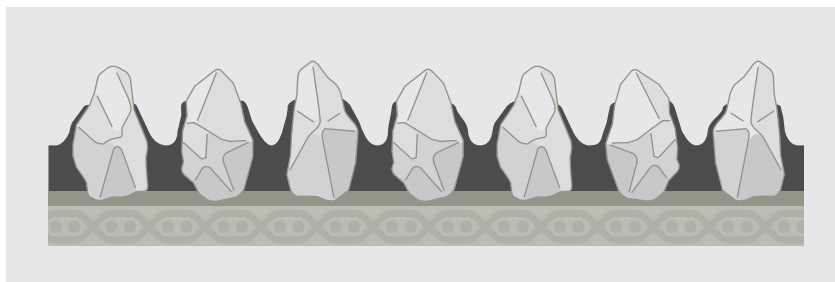
- even stock removal
- fine surfaces
- continuous self-sharpening
- consistent surface roughness during its entire service life



# High-quality fibre discs: grain structure

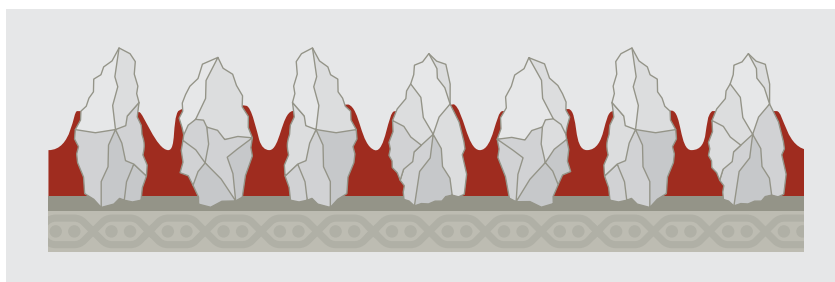
## SILICON CARBIDE (SiC)

- very hard
- ideal for grinding glass, minerals, ceramics, china, stone, titanium, varnishes, brass, bronze and steel (especially steel sheets)



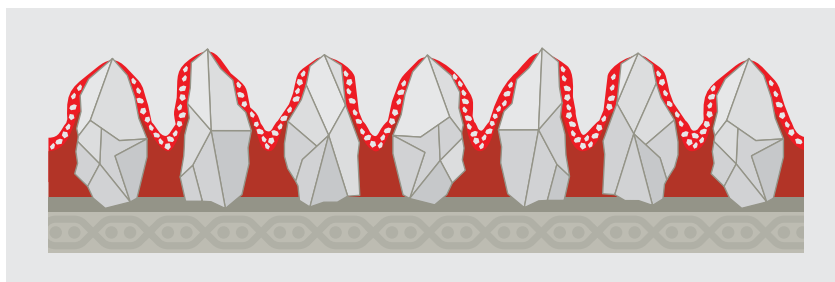
## ALUMINIUM OXIDE (AlO)

- very hard and sufficiently tough
- universal grain for grinding metals



## ADDITIONAL LAYER (TOP SIZE)

- for cooler grinding
- for higher cutting rate



Our locations can be found at  
[www.vsmag.de](http://www.vsmag.de)



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Organization for the  
Safety of Abrasives

As an OSA member (Organisation for the Promotion of Safe Grinding Products), we are committed to complying with European CEN standards (for grinding products based on CEN standard prEN 13743:1999). We also subject our products to other, more rigorous testing specifications, thereby contributing to accident prevention and industrial safety in the user's manufacturing operation. For more information on the OSA, please ask for our information brochure from your VSM sales outlet.

