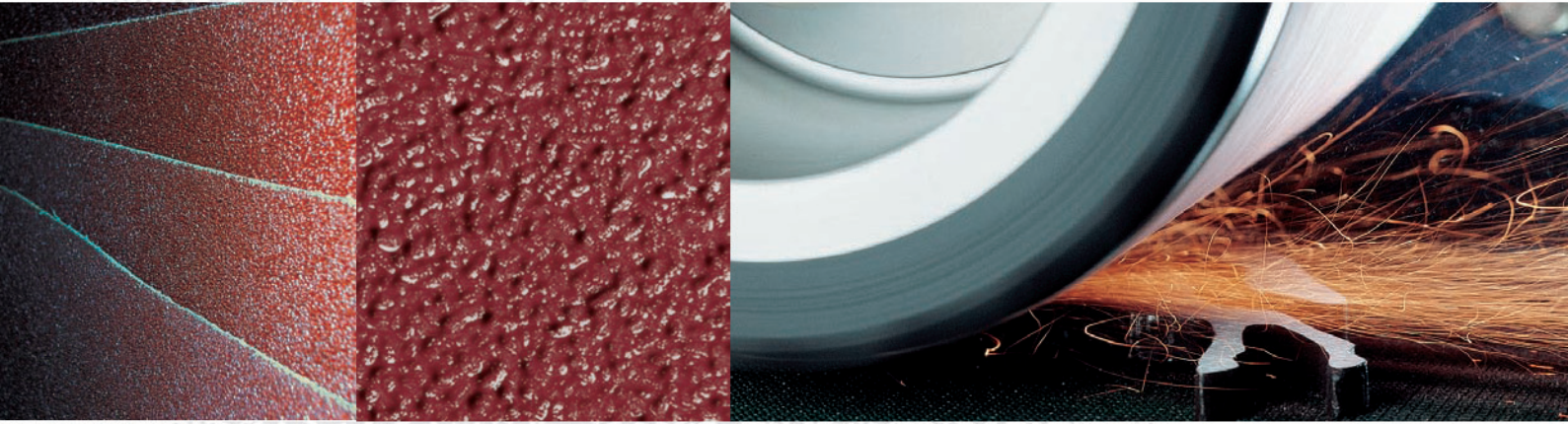


QUALITY ABRASIVES



VSM High-Tech Abrasives

Self-sharpening Compactgrain products

SPECIALS

PRODUCTS

APPLICATIONS

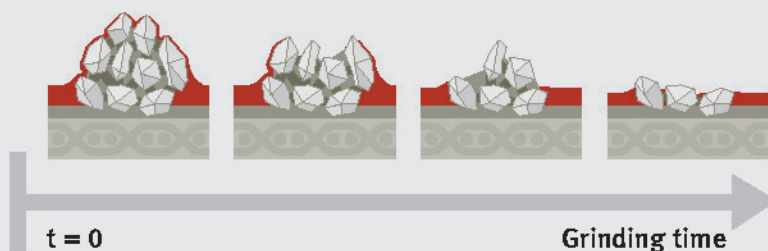
VSM High-Tech Abrasives

Self-sharpening Compactgrain products

VSM compactgrain products are the abrasives for continuous grinding operations. With their uniform stock removal rate they achieve consistent surface roughness throughout their long service life. That's VSM quality at the highest level: Compared to conventional abrasives, they produce a significantly more uniform finish combined with fewer set-ups.

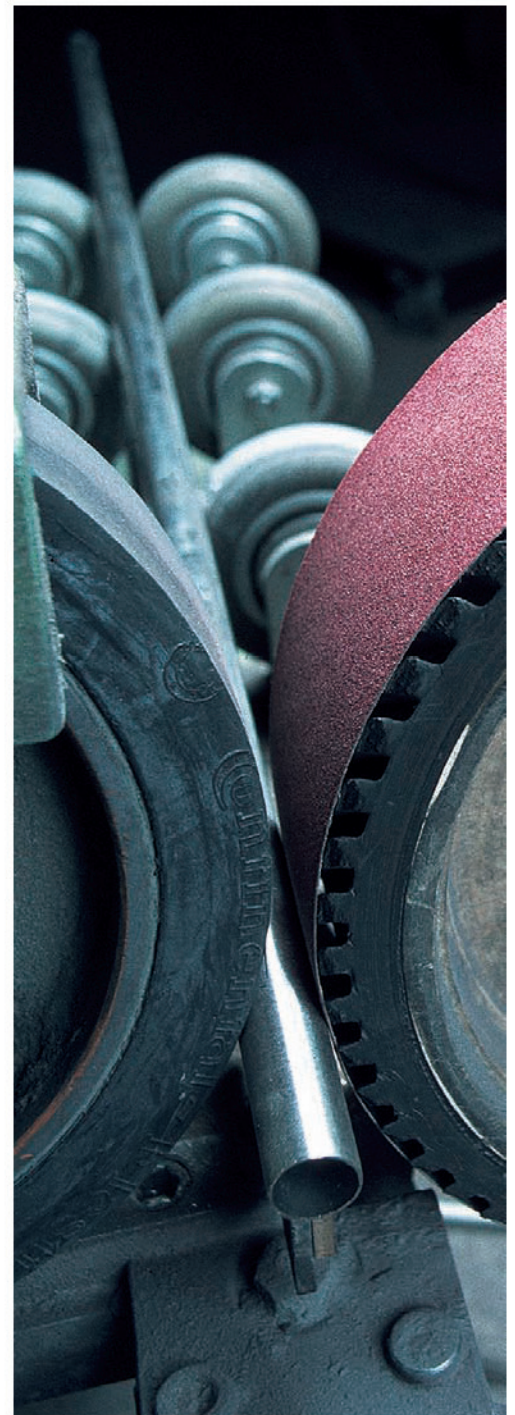
Compactgrain abrasives are especially for machine-grinding of:

- stainless steels in centerless and coil grinding process,
- general structural steels in flat grinding process,
- high-temperature steels in external cylindrical grinding process,
- free-cutting steels in deburring grinding process,
- glass in edge cutting process and
- titanium alloys in profile grinding process.



The principle of the VSM Compactgrain: Self-sharpening

Compactgrain abrasives from VSM are coated with a granulate and, due to their special design, they always have a coarser appearance than conventional abrasives. Each granulate grain is a fixed unit in which numerous abrasive grains consisting of aluminium oxide (Al_2O_3) or silicon carbide (SiC) are bound to each other. Abrasive grains that have worn down are torn out of this bond by the grinding forces, which exposes unused grain tips.



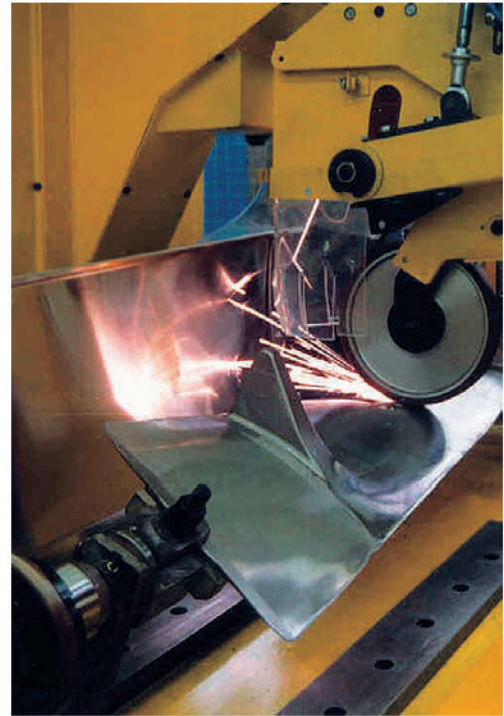
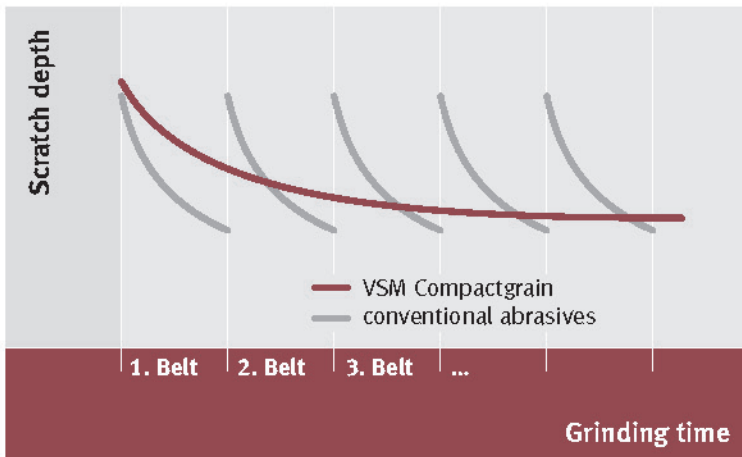
Your benefit:

Constant stock removal

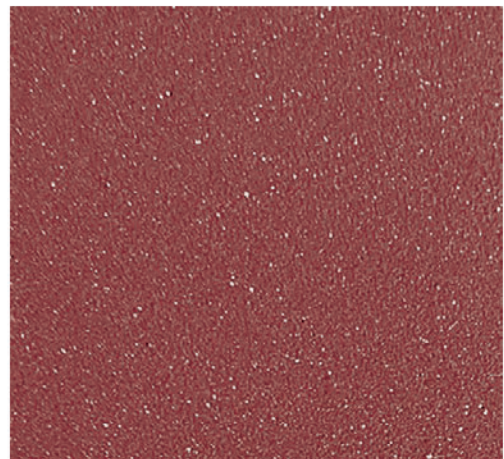
- due to **continuous creation of new cutting edges**

More even scratch depths and thus more even workpiece surfaces

- due to **constant grinding performance** and significantly **less frequent changing of abrasives**

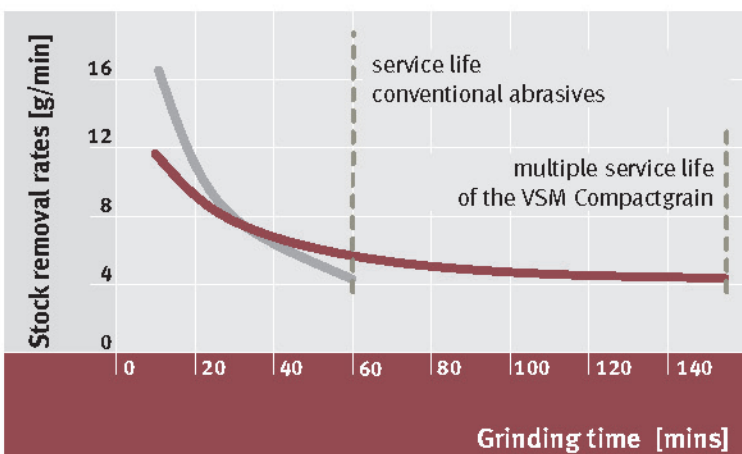


Conventional abrasive P400

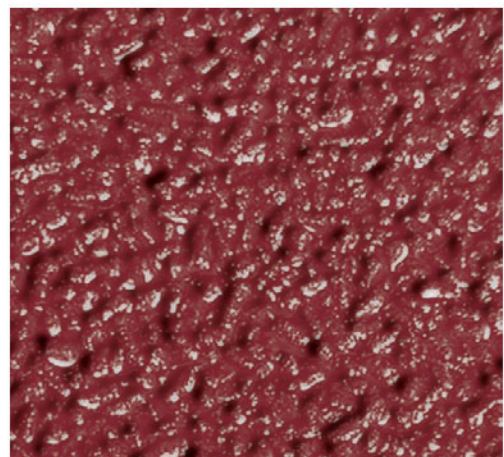


Very long service life

- due to the **high reserve of abrasives** of the self-sharpening Compactgrain
- due to **excellent adhesion of the grain** to the backing material
- due to the **additional abrasive layer** (with TOP SIZE products)



VSM Compactgrain P400





Compactgrain products



Applications:

- Machine- and off hand grinding of
- stainless steels
 - free-cutting steels
 - structural steels
 - high-temperature steels
 - titanium alloys
 - safety glass

| Rolls (max. width) | Wide belts | Belts | Discs | Roughing | Finishing | Grain type | VSM series |
|--------------------|------------|-------|-------|--------------------------------------|-----------|------------------|------------|
| 1090 (●) | ○ (●) | ○ (●) | | 240, 320, 400, 600, 800, 1000, 1200 | | COM-SiC | VSM CK918X |
| 1450 (●) | ○ (●) | ○ (●) | | 800 | | COM-SiC Cork | VSM CK917X |
| 1090 (●) | ○ (●) | ○ (●) | | 80, 120, 180, 240, 320, 400 | | COM-SiC | VSM CK748X |
| 1480 (●) | ○ (●) | ○ (●) | | 180, 240 | | COM-SiC | VSM MK748X |
| 1090 | ○ | ○ | | 80, 120, 180, 320, 600 | | COM-SiC | VSM CK742J |
| 1090 | ○ | ○ | | 80, 120, 180, 240 | | COM-AO ▼TOP SIZE | VSM KK834X |
| 1090 | ○ | ○ | | 120, 180, 600 | | COM-AO | VSM KK731X |
| 1090 | ○ | ○ | ○ | 120, 180 | | COM-AO | VSM KK731K |
| 1480 (●) | ○ (●) | ○ (●) | | 80, 120, 180, 240, 320, 400, 600 | | COM-AO | VSM LK719X |
| 1090 (●) | ○ (●) | ○ (●) | | 60, 80, 120, 180, 240, 320, 400, 600 | | COM-AO | VSM KK718X |
| 1480/1090 (●) | ○ (●) | ○ (●) | | 80/120, 180, 240, 320, 400, 600 | | COM-AO | VSM KK712X |
| 1090 | ○ | ○ | ○ | 80, 120, 180, 240, 320, 400 | | COM-AO | VSM KK712J |
| 1470 | | | ○ | 120, 180 | | COM-AO | VSM KF736 |
| 1450 | ○ | ○ | | 120, 180, 240, 320, 400 | | COM-AO | VSM KP712 |

Key

- for low to medium contact pressure
- for medium contact pressure
- for medium to high contact pressure
- (●) suitable for wet applications

- J flexible
- K Velcro backing
- X robust

- COM-AO Compactgrain Aluminium Oxide
- COM-SiC Compactgrain Silicon Carbide
- ▼ TOP SIZE Additional grinding layer for cooler grinding and higher cutting rate

Our locations can be found at

www.vsmag.de



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