

# Saw sharpening

## Product catalogue

English | 2025

Premium grinding solutions since 1919  
[www.tyrolit.com](http://www.tyrolit.com)

**TYROLIT**

# The Tyrolit Group

Tyrolit is one of the world's leading manufacturers of grinding and dressing tools, as well as a system provider for the construction industry. For over 100 years, our innovative tools and solutions have played a crucial role in technological advancements across various industries.

With roots in the heart of the Austrian Alps, Tyrolit combines the strengths of family values with a global vision and over a century of individual corporate and technological experience.

We aim to impress both internal and external target groups and foster fair, enduring partnerships. In pursuit of our goals, we consistently optimise the quality of our products and services while continuously adjusting our business processes to meet evolving market demands.



## Facts & figures



**80,000+**  
standard products



**30+**  
global production sites



**4,500+**  
valued employees



**140+**  
countries within our reach



**500+**  
patents worldwide

# Business units

## METAL INDUSTRIES



### Automotive Industry

Our grinding solutions are used for the high-precision machining of engine components and transmission components.

### Steel & foundry

With our many years of experience in machining high alloyed steels, we are the market leader in the Steel Industry.

### Precision industries

The broad field of precision industries includes tools and system solutions for various fields of application.

### Industrial specialised trade

The comprehensive commercial range for cutting, grinding and surface treatment is available worldwide.

## CONSTRUCTION



### Construction industry

The customised diamond tools are specifically designed to meet the requirements of customers in the construction industry.

### Trade & Letting

The comprehensive assortment of leading system solutions for all construction-applications is available worldwide.

### Building professionals

For professional construction users, we offer perfectly matched machines and tools as well as rapid service.

### Project Services

Our Project Services team develops individual system solutions for customised special construction applications.

# 100 years of progressive thinking

A passion for technology, many years of experience and a high level of innovation have gone into the production of exceptional sanding solutions since our company was founded.



## Pioneers in hand-held cutting

– We were the first European company to mass-produce glass fibre-reinforced cut-off wheels and are the inventors of super-thin technology, today's market standard for particularly high-quality cut-off wheels.



## Technology leader in precision grinding

– We are one of the world's leading suppliers of high-precision grinding tools for applications in the automotive, turbine and Tooling Industry as well as for numerous other precision industries.



## Market leader in cutting in the Steel Industry

– We are the leading manufacturer of the world's largest cut-off wheels with diameters of up to 2 metres for hot cutting-off semi-finished products in the Steel Industry.



**Leading solutions for professional construction operators** – Our innovative system solutions and patented diamond technology (TGD®) set standards for performance and comfort in applications in the construction industry.



**Innovator in the machining of automotive glass** – We were the first company to produce diamond tools for grinding automotive glass at speeds of up to 40 m / min and successfully revolutionised edge grinding on the market.



## Developer of innovative wire

– sawing technology- We have driven the development of wire sawing technology for applications in the natural stone and construction industry, which is still considered the benchmark in the industry today.

# Worldwide production and sales locations

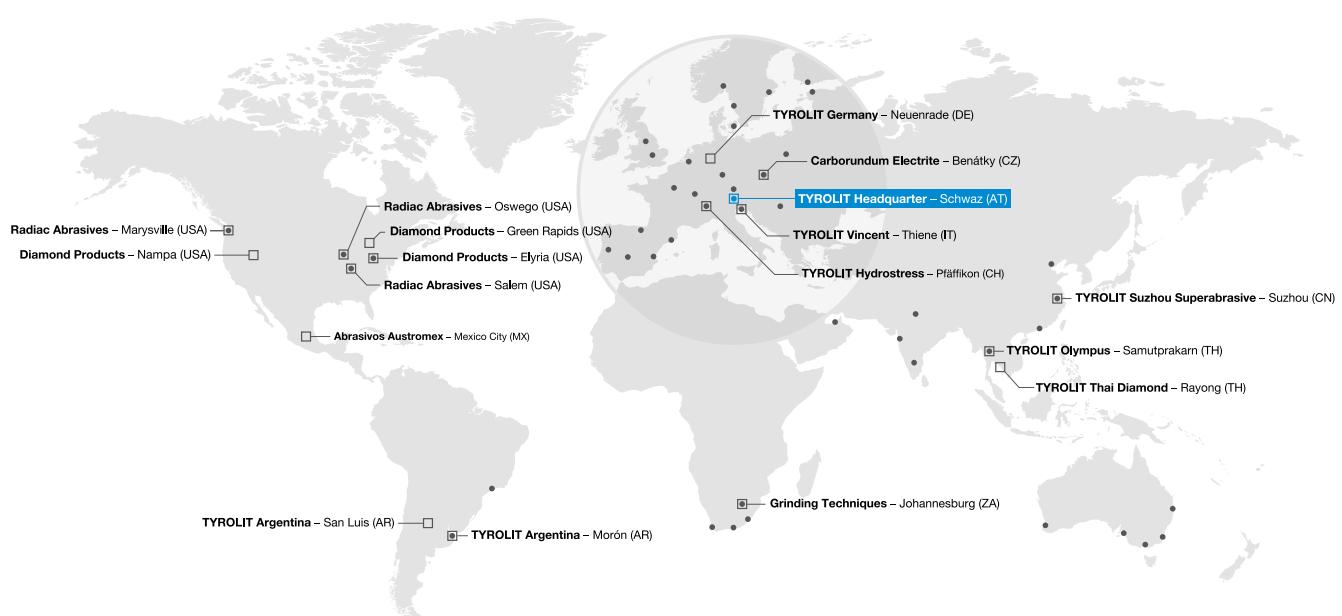
Tyrolit is represented in 29 countries with its own production and sales companies and works with local partners in a further 65 countries.



Production location in Suzhou (China)



European logistics centre in Benátky (Czech Republic)







## Why should you buy Tyrolit?

Tyrolit is the technology leader in the field of tool grinding. This know-how is also reflected in the efficient machining of all types of saws. The careful selection and combination of the raw materials used and state-of-the-art manufacturing technologies guarantee the best quality of our grinding tools.

## Our expertise in saw sharpening

Our deep understanding of grinding technology is grounded in our focus on the specific needs of saw manufactures and resharpening. This expertise allows us to provide suppliers with a comprehensive portfolio of products and services.

## Customer benefits

Benefit from our experience and secure quality and productivity advantages for your production. Tyrolit optimises your grinding process and thus stands for cost savings and quality improvement.

## Application example

By specifically adapting the abrasive and bond system and using new backing materials, it was possible to reduce the risk of fracture of the grinding tool from 30% to 0% during face grinding of carbide-tipped circular saws and to increase the standing time by 10% and the output per hour by 15%. At the same time, the surface finish on the ground saw tooth was improved.



# Table of contents

|  |           |
|--|-----------|
| <b>Specific information</b>  | <b>10</b> |
| <b>Precision tool specification</b>                                      | <b>11</b> |
| <b>Grinding tools for circular saws</b>                                  | <b>13</b> |
| Grinding tools for tungsten carbide and carbide-tipped circular saws     | 15        |
| Clearance grinding   | 15        |
| Tip face grinding  | 18        |
| Tip face grinding with large pitch                                       | 20        |
| Tip face grinding with narrow pitch                                      | 20        |
| Tip face grinding for narrow chip spaces                                 | 20        |
| Flank grinding   | 21        |
| Hollow tooth grinding  | 22        |
| Chip breaker flute grinding  | 22        |
| Conventional grinding tools for circular saws made from high-speed steel | 23        |
| Tooth form grinding - resin bonded                                       | 23        |
| Tooth form grinding - Vitrified bonded                                   | 24        |
| Grinding tools with CBN for circular saws made of high-speed steel       | 27        |
| Tooth form grinding  | 27        |
| Clearance grinding   | 28        |
| Face and clearance grinding  | 28        |
| Tip face grinding  | 29        |
| Flank grinding   | 29        |
| Bevel grinding   | 30        |
| Form grinding  | 30        |
| Form grinding  | 30        |
| <b>Grinding tools for bandsaws</b>                                       | <b>31</b> |
| Conventional grinding tools for bandsaws made from high-speed steel      | 33        |
| Tooth form grinding - resin bonded                                       | 33        |
| Tooth form grinding - vitrified bonded                                   | 34        |
| Grinding tools with CBN for bandsaws made of high-speed steel            | 38        |
| Tooth form grinding  | 38        |
| Side grinding  | 38        |

# Specific information

## Precision tool

### Product label precision tool



# Precision tool specification

## Ceramics conventional

**89A 60 M 5 V 217**

|  |  |  |  |                               |  |
|--|--|--|--|-------------------------------|--|
|  |  |  |  | Binding index                 | Internal code that defines the binding variant         |
|  |  |  |  | <b>Bond</b>                   |  |
|  |  |  |  | V                             | Vitrified bonded                                       |
|  |  |  |  | B                             | Resin bound  |
|  |  |  |  | E                             | Elastic bound  |
|  |  |  |  | G                             | Galvanically bonded                                    |
|  |  |  |  | <b>Structure</b>              | The higher the number, the more open the wheel         |
|  |  |  |  | <b>Hardness</b>               | The hardness is alphabetical in ascending order        |
|  |  |  |  | G                             | Soft   |
|  |  |  |  | R                             | Hardness   |
|  |  |  |  | <b>Grain size description</b> | Grain size specification in mesh (sieve size per inch) |
|  |  |  |  | 14 - 36                       | GROB   |
|  |  |  |  | 46 - 60                       | MEDIUM   |
|  |  |  |  | 80 - 220                      | FEIN   |
|  |  |  |  | 800 - 1 200                   | VERY FINE  |
|  |  |  |  | <b>Abrasive description</b>   |  |
|  |  |  |  | 10A                           | Regular aluminium oxide                                |
|  |  |  |  | 50A                           | Mixture 89A and 10A                                    |
|  |  |  |  | 52A                           | Semi-friable aluminium oxide                           |
|  |  |  |  | 80A                           | Mixture 88A and special aluminium oxide                |
|  |  |  |  | 87A                           | Mixture 89A and 88A                                    |
|  |  |  |  | 88A                           | Aluminium oxide pink                                   |
|  |  |  |  | 89A                           | Aluminium oxide white                                  |
|  |  |  |  | 91A                           | Aluminium oxide red                                    |
|  |  |  |  | 92A                           | Mixture 89A and special aluminium oxide                |
|  |  |  |  | 93A                           | Mixture 89A and 91A                                    |
|  |  |  |  | 97A                           | Special aluminium oxide                                |
|  |  |  |  | 454A                          | Mixture of sintered aluminium oxide and 89A            |
|  |  |  |  | 455A                          | Mixture of sintered aluminium oxide and 89A            |
|  |  |  |  | C                             | Silicon carbide green                                  |
|  |  |  |  | 1C                            | Silicon carbide black                                  |
|  |  |  |  | 50C                           | Silicon carbide green/black mixture                    |
|  |  |  |  | SA                            | Aluminium oxide  |
|  |  |  |  | SD15A*                        | Mixture  |
|  |  |  |  | SD25A*                        | Mixture  |
|  |  |  |  | SD33A*                        | Aluminium oxide  |
|  |  |  |  | SD35A*                        | Mixture  |
|  |  |  |  | SD44A*                        | Aluminium oxide  |
|  |  |  |  | SD46A*                        | Mixture  |
|  |  |  |  | SD55A*                        | Aluminium oxide  |
|  |  |  |  | SD56A*                        | Mixture  |
|  |  |  |  | SD65A*                        | Mixture  |
|  |  |  |  | SD78A*                        | Special aluminium oxide                                |
|  |  |  |  | SD82A*                        | Mixture  |
|  |  |  |  | SD83A*                        | Mixture  |
|  |  |  |  | SD85A*                        | Mixture  |

\* New specification logic - product remains unchanged

# Precision tool specification Resin CBN / diamond

**B 126 C50 B 54**

|  |  |  |  |                               |   |
|--|--|--|--|-------------------------------|---|
|  |  |  |  | Binding index                 | Internal code that defines the binding variant  |
|  |  |  |  | <b>Bond</b>                   |   |
|  |  |  |  | <b>B</b>                      | Resin bound   |
|  |  |  |  | <b>M</b>                      | Metal bound   |
|  |  |  |  | <b>Concentration</b>          | The grain concentration denotes the amount of grain in carats per unit volume of the grinding layer |
|  |  |  |  | <b>Grain size description</b> | Grain size specification in µm (average grain diameter according to FEPA)                           |
|  |  |  |  | 35 - 181 µm                   |   |
|  |  |  |  | <b>Abrasive description</b>   |   |
|  |  |  |  | <b>B</b>                      | CBN   |
|  |  |  |  | <b>D</b>                      | Diamond   |



## **Grinding tools for circular saws**

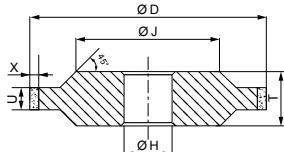


# Grinding tools for tungsten carbide and carbide-tipped circular saws

## Clearance grinding

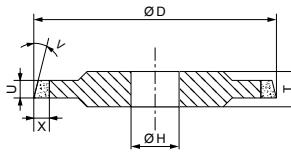


These resin-bonded diamond wheels are available as cup shaped and peripheral wheels. They are also available with single or double coating. Double-coated discs achieve very good cutting edge quality thanks to the combination of two grit sizes and high concentration. This product is available for all common automatic sharpening machines in diameters of 100-150m. Tyrolit offers a complete assortment for HM circular saws. Customisation in terms of dimensions and specifications is possible depending on customer requirements. Please contact our sales engineers.

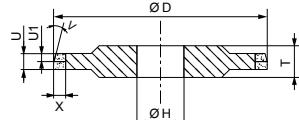


Shape 14A1

| Shape | Type number | D × D × H    | Specification    | U-X  | Machine        | Stock |
|-------|-------------|--------------|------------------|------|----------------|-------|
| 14A1  | 462574      | 150 × 8 × 20 | D 64 C100 B48 AL | 5-10 | e.g. Akemat    |       |
|       | 462886      | 150 × 8 × 20 | D 64 C100 B48 AL | 5-8  | e.g. Walter AG |       |

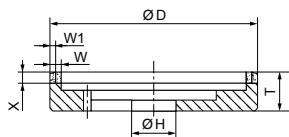


Shape 14B1



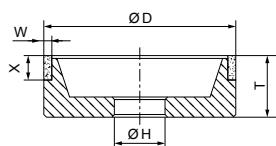
Shape 14M1Z

| Shape | Type number | D × D × H     | Specification                     | U-X-V°      | Machine                           | Stock |
|-------|-------------|---------------|-----------------------------------|-------------|-----------------------------------|-------|
| 14B1  | 462503      | 127 × 8 × 32  | D 54 C125 B48 AL                  | 5-8-15      | e.g. Akemat                       | -     |
| 14M1Z | 462587      | 200 × 10 × 32 | D 126 C100 B48 AL / D 46 C75 B48  | 2,5-8-8     | e.g. Akemat,<br>Two-layer disc    |       |
|       | 462891      | 200 × 8 × 32  | D 126 C100 B48 AL / D 46 C75 B48  | 2,5-8-8     | e.g. Walter AG,<br>Two-layer disc | -     |
|       | 462890      | 175 × 8 × 32  | D 126 C100 B48 AL / D 76 C75 B48  | 2,5-8-8     | e.g. Walter AG,<br>Two-layer disc |       |
|       | 462889      | 150 × 8 × 32  | D 126 C100 B48 AL / D 76 C75 B48  | 2,5-8-8     | e.g. Walter AG,<br>Two-layer disc | -     |
|       | 462505      | 127 × 8 × 32  | D 126 C100 B48 AL / D 46 C75 B48  | 2,5-6-5     | e.g. Akemat,<br>Two-layer disc    |       |
|       | 462509      | 127 × 8 × 32  | D 126 C100 B48 AL / D 46 C75 B48  | 2,5-6-15    | e.g. Akemat,<br>Two-layer disc    |       |
|       | 462514      | 127 × 8 × 32  | D 126 C125 B48 AL / D 54 C100 B48 | 32 2,5-6-15 | e.g. Akemat,<br>Two-layer disc    | -     |

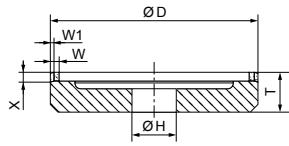


Shape 6A2ZH

| Shape | Type number | D × D × H       | Specification                       | W-X    | Machine                                     | Stock |
|-------|-------------|-----------------|-------------------------------------|--------|---|-------|
| 6A2ZH | 462827      | 125 × 20 × 32   | D 126 C100 B65 AL /<br>D 46 C75 B65 | 2,5-6  | e.g. Vollmer<br>Dornhan, double<br>covering |       |
|       | 462829      | 125 × 20 × 50,8 | D 126 C100 B6 5AL /<br>D 46 C75 B65 | 2,5-10 | e.g. Vollmer<br>Dornhan, double<br>covering | -     |

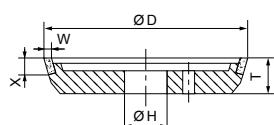


Shape 6A9



Shape 6A9Z

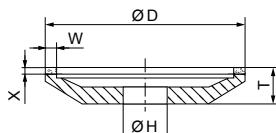
| Shape | Type number | D × D × H       | Specification                        | W-X-V°   | Machine                                    | Stock |
|-------|-------------|-----------------|--------------------------------------|----------|--|-------|
| 6A9   | 862410      | 100 × 40 × 27   | D 39 75 B52                          | 3-10     |  |       |
| 6A9Z  | 462824      | 125 × 26 × 25   | D 126 C100 B65 AL /<br>D 46 C75 B65  | 2,5-6-8  | e.g. Vollmer Dorn-<br>han, double covering |       |
|       | 462734      | 125 × 20 × 20   | D 126 C100 B65 AL /<br>D 46 C75 B65  | 2,5-6-8  | Double coating                             |       |
|       | 389569      | 100 × 20 × 25   | D 126 C100 B 42 AL /<br>D 46 75 B42  | 5-2,5-6  | e.g. Vollmer Dorn-<br>han, double covering | -     |
|       | 365225      | 100 × 20 × 25   | D 126 C100 B65 AL /<br>D 46 C75 B65  | 2,5-6-8  | e.g. Vollmer Dorn-<br>han, double covering |       |
|       | 462801      | 100 × 24 × 32   | D 126 C100 B65 AL /<br>D 46 C75 B65  | 2,5-10-8 | e.g. Vollmer Dorn-<br>han, double covering |       |
|       | 462803      | 100 × 24 × 25   | D 126 C125 B65 AL /<br>D 46 C100 B65 | 2,5-10-8 | e.g. Vollmer Dorn-<br>han, double covering |       |
| 6B9H  | 462830      | 125 × 20 × 50,8 | D 64 C100 B74 AL                     | 3-6-8    | e.g. Vollmer Dornhan                       |       |



Shape 11B9H

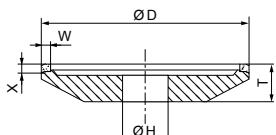
| Shape | Type number | D × D × H     | Specification    | W-X-V°  | Machine                   | Stock |
|-------|-------------|---------------|------------------|---------|---------------------------|-------|
| 11B9H | 462756      | 125 × 18 × 32 | D 54 C100 B48 AL | 3-6,5-5 | e.g. Vollmer Bib-<br>rach |       |

| Shape   | Type number | D × D × H | Specification | W-X-V°           | Machine | Stock                |
|---|-------------|-----------|---------------|------------------|---------|----------------------|
|  | 11V9N       | 397048    | 125 × 26 × 25 | D 54 C100 B73 AL | 3-5-5   | e.g. Vollmer Dornhan |
|   |             | 477813    | 100 × 20 × 25 | D 54 C75 B74 AL  | 3-6-5   | e.g. Vollmer Dornhan |

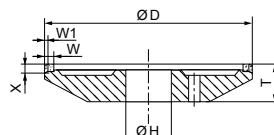


Shape 12A2D

| Shape  | Type number | D × D × H | Specification | W-X-V°           | Machine | Stock |
|--|-------------|-----------|---------------|------------------|---------|-------|
|  | 12A2D       | 462949    | 100 × 27 × 20 | D 64 C50 B52 AL  | 6-4     | -     |
|  |             | 462950    | 100 × 27 × 20 | D 126 C75 B52 AL | 6-4     |       |



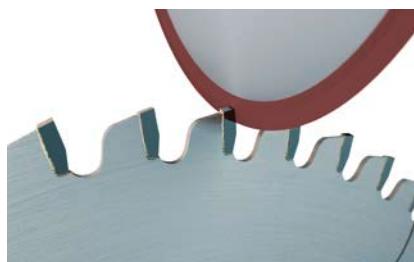
Shape 12A9H



Shape 12A9Z

| Shape  | Type number   | D × D × H                         | Specification                    | W-X-V°                                 | Machine                                | Stock |
|--------|---------------|-----------------------------------|----------------------------------|--|--|-------|
| 12A9H  | 462757        | 125 × 18 × 32                     | D 91 C100 B48 AL                 | 5-6                                    | e.g. Vollmer Biberach                  |       |
| 12A9Z  | 286864        | 125 × 18 × 32                     | D 126 C125 B65 AL / D 46 100 B65 | 5-2,5-6                                | e.g. Vollmer Biberach, double covering | -     |
|        | 390582        | 125 × 18 × 32                     | D 126 C100 B65 AL / D 46 75 B65  | 5-2,5-6                                | e.g. Vollmer Biberach, double covering | -     |
| 387531 | 125 × 22 × 32 | D 126 C100 B65 AL / D 46 C75 B65  | 2,5-10-8                         | e.g. Vollmer Biberach, double covering |  | -     |
| 403578 | 125 × 22 × 32 | D 126 C125 B48 AL / D 46 C100 B48 | 2,5-10-8                         | e.g. Vollmer Biberach, double covering |  |       |

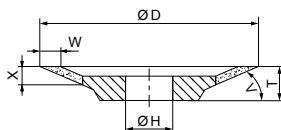
## Tip face grinding



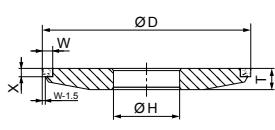
Tyrolit offers you a wide assortment of tools matched to various grinding machines for narrow or wide tooth pitches thanks to customised coating thicknesses and carrier body shapes. This enables perfect surface geometries to be achieved.

Customised dimensions and specifications are possible depending on customer requirements. Please contact our sales engineers.

This product is available for all common sharpening machines in diameters of 100-200 mm.



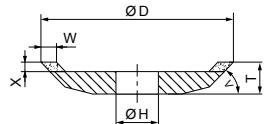
Shape 3V9



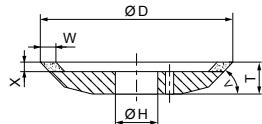
Shape 4B9



| Shape | Type number | D x D x H       | Specification    | W-X-V°     | Machine                        | Stock |
|-------|-------------|-----------------|------------------|------------|--------------------------------|-------|
| 3V9P  | 34656319    | 175 x 18 x 32   | D 54 C100 B52 AL | 3-5,5-68   | e.g. Vollmer Biber-ach, CHX840 | -     |
| 3V9   | 563857      | 125 x 13 x 32   | D 46 C100 B48 AL | 2,5-5,5-70 | e.g. Vollmer, Biberrach        | -     |
|       | 578936      | 150 x 13 x 32   | D 46 C100 B48 AL | 2,5-5,5-70 | e.g. Akemat                    | -     |
| 4B9   | 369110      | 125 x 11,5 x 32 | D 54 C75 B74 AL  | 2,5-1,2-15 | e.g. Vollmer, Biberrach        | -     |
|       | 820013      | 125 x 12 x 32   | D 126 C75 B70 AL | 3-1,8-15   | e.g. Vollmer, Biberrach        | -     |
| 4A2N  | 462839      | 100 x 8 x 25    | D 64 C100 B52 AL | 4-2        | e.g. Vollmer Dornhan           |       |
| 4B9   | 462730      | 125 x 8 x 20    | D 54 C75 B52 AL  | 3-1,8-15   |                                |       |
|       | 462729      | 100 x 8 x 20    | D 54 C75 B52 AL  | 3-1,8-15   |                                |       |
| 4B9H  | 405549      | 175 x 12 x 50,8 | D 76 C125 B48 AL | 4-2-15     | e.g. Vollmer Dornhan           |       |
| 4B9N  | 463032      | 125 x 8 x 25    | D 76 C125 B48 AL | 3-1,8-15   | e.g. Widma                     |       |
|       | 462845      | 100 x 8 x 25    | D 54 C100 B52 AL | 3-1,8-15   | e.g. Vollmer Dornhan           |       |

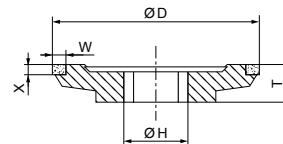


Shape 4V2

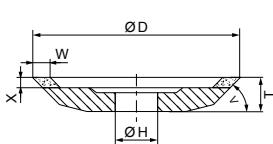


Shape 4V2H

| Shape | Type number | D × D × H     | Specification    | W-X-V° | Machine                          | Stock |
|-------|-------------|---------------|------------------|--------|----------------------------------|-------|
| 4V2   | 462768      | 125 × 12 × 32 | D 46 C125 B48 AL | 4-2-30 | e.g. Vollmer Biberach            |       |
|       | 462769      | 125 × 12 × 32 | D 76 C125 B48 AL | 4-2-30 | e.g. Vollmer Biberach            |       |
|       | 462630      | 150 × 12 × 32 | D 76 C125 B48 AL | 4-2-30 | e.g. Vollmer Biberach            | -     |
|       | 462631      | 150 × 12 × 32 | D 46 C125 B48 AL | 4-2-30 | e.g. Vollmer Biberach, Walter AG | -     |
| 4V2H  | 379577      | 200 × 13 × 32 | D 46 C125 B48 AL | 4-2-30 | e.g. Vollmer Biberach, Walter AG | -     |
|       | 462760      | 200 × 13 × 32 | D 76 C125 B48 AL | 4-2-30 | e.g. Vollmer Biberach            | -     |
|       | 462898      | 160 × 13 × 32 | D 76 C125 B48 AL | 4-2-30 | e.g. Walter AG                   | -     |
|       | 462896      | 150 × 13 × 32 | D 76 C125 B48 AL | 3-3-30 | e.g. Walter AG                   |       |



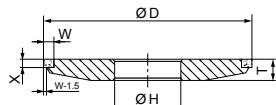
Shape 12B9N



Shape 12V2N

| Shape | Type number | D × D × H        | Specification | W-X-V° | Machine               | Stock |
|-------|-------------|------------------|---------------|--------|-----------------------|-------|
| 12B9N | 462833      | D 54 C75 B48 AL  | 125 × 26 × 25 | 3-3-15 | e.g. Vollmer Dornhan  |       |
| 12V2  | 462766      | D 46 C125 B48 AL | 200 × 13 × 32 | 4-2-30 | e.g. Vollmer Biberach |       |
|       | 462654      | D 46 C125 B48 AL | 200 × 14 × 32 | 4-2-30 | e.g. Akemat           |       |
| 12V2N | 463026      | D 46 C100 B48 AL | 100 × 10 × 25 | 4-2-30 | e.g. Widma            |       |
|       | 462840      | D 46 C125 B48 AL | 100 × 10 × 25 | 4-2-30 | e.g. Vollmer Dornhan  |       |

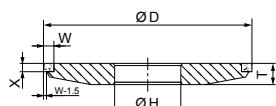
## Tip face grinding with large pitch



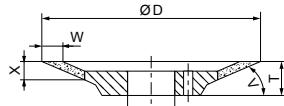
Shape 4B9

| Shape | Type number | D × D × H     | Specification    | W-X-V°   | Machine                                   | Stock |
|-------|-------------|---------------|------------------|----------|---|-------|
| 4B9   | 665040      | 125 × 14 × 32 | D 54 C75 B70 AL  | 3-3,8-15 | e.g. Vollmer, Biberach, large Tooth pitch | -     |
|       | 462788      | 125 × 12 × 32 | D 54 C125 B48 AL | 3-3,8-15 | e.g. Vollmer Biberach                     |       |

## Tip face grinding with narrow pitch



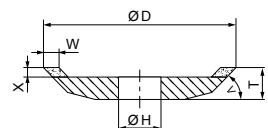
Shape 4B9



Shape 3V9H

| Shape | Type number | D × D × H       | Specification     | W-X-V°     | Machine                          | Stock |
|-------|-------------|-----------------|-------------------|------------|----------------------------------|-------|
| 3V9H  | 580905      | 200 × 13 × 32   | D 46 C125 B250 AL | 2,5-4,4-70 | -                                |       |
|       | 462646      | 150 × 12 × 32   | D 76 C100 B74 AL  | 3-2-15     | e.g. Akemat , T=12 in Zng. corr. |       |
|       | 462785      | 125 × 11,5 × 32 | D 76 C125 B48 AL  | 2,5-1,2-15 | e.g. Vollmer Biberach            |       |

## Tip face grinding for narrow chip spaces



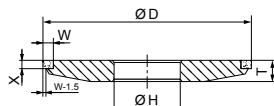
Shape 4V2

| Shape | Type number | D × D × H     | Specification   | W-X-V° | Machine               | Stock |
|-------|-------------|---------------|-----------------|--------|-----------------------|-------|
| 4V2   | 34588157    | 125 × 12 × 32 | D 54 C75 B70 AL | 4-2-30 | e.g. Vollmer Biberach | -     |

## Flank grinding

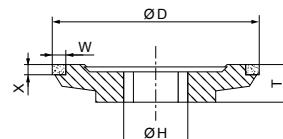


This Tyrolit product is suitable for both regrinding and production grinding and offers a high stock removal rates on tungsten carbide. This is achieved through a reduced concentration and an adapted bond system. The diamond discs are available for all common sharpening machines in diameters of 76–100 mm. Important to note: The 76–80 mm diameter should be used especially for narrow tooth pitches.



Shape 4B9

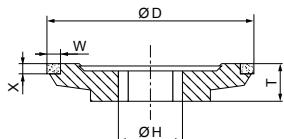
| Shape | Type number | D × D × H     | Specification   | W-X-V° | Machine                | Stock |
|-------|-------------|---------------|-----------------|--------|------------------------|-------|
| 4B9   | 462796      | 100 × 10 × 32 | D 91 C50 B52 AL | 6-4    | e.g. Vollmer Biberrach |       |
|       | 328027      | 100 × 10 × 32 | D 91 C50 B42 AL | 5-4    | e.g. Vollmer           | -     |



Shape 12B9N

| Shape | Type number | D × D × H     | Specification   | W-X-V° | Machine              | Stock |
|-------|-------------|---------------|-----------------|--------|----------------------|-------|
| 12B9N | 462668      | 100 × 14 × 32 | D 91 C50 B52 AL | 6-4-7  | e.g. Akemat          |       |
|       | 462863      | 100 × 14 × 20 | D 91 C50 B52 AL | 4,5-4  | e.g. Vollmer Dornhan |       |
|       | 474564      | 100 × 14 × 20 | D 91 C50 B53 AL | 4,5-4  | e.g. Vollmer         | -     |
|       | 331135      | 100 × 14 × 32 | D 64 C75 B74 AL | 4,5-4  | e.g. Walter AG       | -     |
|       | 840511      | 100 × 14 × 20 | D 64 C75 B74 AL | 4,5-4  | e.g. Walter AG       |       |
|       | 462658      | 76 × 14 × 20  | D 91 C50 B52 AL | 4,5-4  | e.g. Akemat          |       |
|       | 462854      | 76 × 14 × 20  | D 91 C50 B52 AL | 4,5-4  | e.g. Vollmer Dornhan |       |
|       | 15810       | 76 × 14 × 20  | D 64 C75 B74 AL | 4,5-4  | e.g. Walter AG       |       |
|       | 395363      | 100 × 17 × 20 | D 91 C75 B53 AL | 10-4   | e.g. Walter AG       |       |

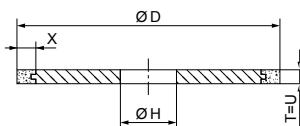
## Hollow tooth grinding



Shape 1A1W

| Shape | Type number | D×D×H          | Specification | U-X   | Machine | Stock |
|-------|-------------|----------------|---------------|-------|---------|-------|
| 1A1W  | 673788      | D 76 C125 B ST | 7 × 3 × 6     | 3-2   | S6x39   |       |
|       | 198544      | D 76 C125 B ST | 6 × 3 × 6     | 3-1,5 | S6x42   |       |

## Chip breaker flute grinding



Shape 1A1R

| Shape | Type number | D×D×H          | Specification     | U-X-R      | Machine        | Stock |
|-------|-------------|----------------|-------------------|------------|----------------|-------|
| 1A1R  | 396426      | 125 × 0,4 × 32 | D 126 C125 M ST   | 0,4-5      |                |       |
|       | 396424      | 125 × 0,5 × 32 | D 126 C125 M ST   | 0,5-5      |                |       |
|       | 882740      | 125 × 0,8 × 32 | D 126 C100 B53 ST | 0,8-5      |                |       |
| 1F1R  | 394798      | 50 × 0,3 × 20  | D 46 C125 M ST    | 0,3-5-0,15 |                |       |
|       | 332698      | 50 × 0,5 × 20  | D 46 C125 M ST    | 0,5-5-0,25 | e.g. Walter AG |       |
|       | 394814      | 30 × 0,3 × 8   | D 46 C125 M ST    | 0,3-5-0,15 |                |       |
|       | 394810      | 30 × 0,4 × 8   | D 46 C125 M ST    | 0,4-5-0,2  |                |       |
|       | 14F1R       | 75 × 0,5 × 20  | D 126 C125 M ST   | 0,5-5-0,25 | e.g. Walter AG |       |

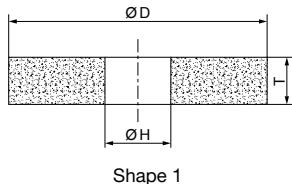
# Conventional grinding tools for circular saws made from high-speed steel



Tyrolit offers you a wide assortment of tools matched to various grinding machines and tooth pitches. These are suitable for dry and wet grinding for HSS. The products are available in different edge profiles shape 1, 1F, 1C in the diameter range of 150-350 mm

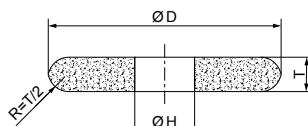
Customised dimensions and specifications are possible depending on customer requirements. Please contact our sales engineers.

## Tooth form grinding - resin bonded



Shape 1

| Shape | Type number | D × D × H      | Specification    | Vmax m / s | Ben note | VP | Stock |
|-------|-------------|----------------|------------------|------------|----------|----|-------|
| 1     | 34340600    | 350 × 13 × 127 | 765A 80 P6 B100  | 63         |          | 1  | -     |
|       | 34340597    | 350 × 10 × 32  | 765 A60 P6 B100  | 63         |          | 1  | -     |
|       | 226680      | 350 × 13 × 127 | M455A 802 M6 B22 | 63         |          | 1  | -     |
|       | 487467      | 350 × 10 × 127 | M455A 80 M6 B22  | 63         |          | 1  | -     |
|       | 226679      | 350 × 10 × 127 | M455A 802 M6 B22 | 63         |          | 1  | -     |
|       | 223733      | 300 × 12 × 40  | M455A 609 M7 B82 | 63         |          | 1  | -     |
|       | 267138      | 300 × 12 × 40  | M455A 809 M6 B22 | 63         |          | 1  | -     |
|       | 313636      | 300 × 10 × 40  | M455A 609 M7 B82 | 63         |          | 1  | -     |
|       | 179959      | 300 × 10 × 40  | M455A 80 M6 B22  | 63         |          | 1  | -     |
|       | 527875      | 300 × 10 × 32  | M455A 609 L7 B82 | 63         |          | 1  | -     |
|       | 241857      | 300 × 10 × 32  | M455A 809 K6 B22 | 63         |          | 1  | -     |
|       | 237227      | 250 × 10 × 32  | M455A 609 M7 B82 | 63         |          | 1  | -     |
|       | 19117       | 150 × 4 × 20   | A 60 N 4B2       | 63         |          | 10 | -     |

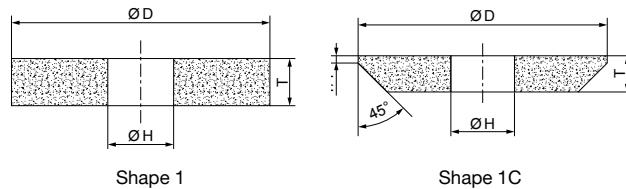


Shape 1F

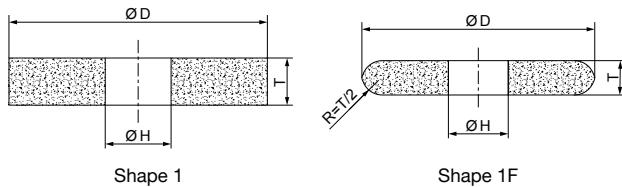
| Shape | Type number | D × D × H     | Specification    | Vmax m / s | Remark | VP | Stock |
|-------|-------------|---------------|------------------|------------|--------|----|-------|
| 1F    | 150402      | 300 × 10 × 32 | M455A 609 L7 B82 | 63         |        | 1  | -     |
|       | 476545      | 250 × 12 × 32 | M455A 609 M7 B82 | 63         |        | 1  | -     |
|       | 150403      | 200 × 10 × 32 | M455A 609 M7 B82 | 63         |        | 1  | -     |



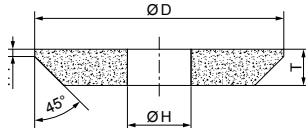
## Tooth form grinding - Vitrified bonded



| Shape | Type number | D×D×H     | Specification   | Vmax m / s | Remark                    | VP | Stock |
|-------|-------------|-----------|-----------------|------------|---------------------------|----|-------|
| 1     | 7318        | 200×3×32  | 88A 80 M5V V217 | 40         |                           | 10 | -     |
|       | 448603      | 200×2×32  | 88A 80 M5A V217 | 40         |                           | 10 | -     |
|       | 719904      | 150×6×38  | 88A 60 K5A V217 | 40         |                           | 10 | -     |
|       | 490222      | 150×6×38  | 88A 80 K5A V217 | 40         |                           | 10 | -     |
|       | 291120      | 150×4×32  | 88A 80 M5A V217 | 40         |                           | 10 | -     |
|       | 9293        | 150×4×20  | 88A 80 M5A V217 | 40         |                           | 10 | -     |
|       | 55375       | 150×3×32  | 88A 80 M5A V217 | 40         |                           | 10 | -     |
|       | 18825       | 150×3×30  | 88A 80 M5A V217 | 40         |                           | 10 | -     |
| 1     | 719922      | 250×13×32 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 33249       | 250×13×20 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 461239      | 250×10×32 | 89A 60 M5A V217 | 40         | Side surface impregnation | 1  | -     |
|       | 525686      | 200×8×32  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 3077        | 200×8×20  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 110554      | 200×6×32  | 89A 60 K5A V217 | 40         |                           | 10 | -     |
|       | 7328        | 200×6×32  | 89A 60 M5V V217 | 40         |                           | 10 | -     |
|       | 3070        | 200×6×20  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 51494       | 200×13×32 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 3091        | 200×10×32 | 89A 60 K5A V217 | 40         |                           | 10 | -     |
|       | 3092        | 200×10×32 | 89A 60 M5V V217 | 40         |                           | 10 | -     |
|       | 608080      | 200×10×32 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 762445      | 200×10×32 | 89A 60 M5A V217 | 40         | Side surface impregnation | 10 | -     |
| 1C    | 28549       | 200×10×32 | 89A 60 M5A V217 | 63         |                           | 10 | -     |
| 1     | 3085        | 200×10×20 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 50845       | 175×8×51  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 123222      | 175×6×51  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 50844       | 175×4×51  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 719906      | 175×3×51  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 455124      | 150×8×32  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 305800      | 150×6×32  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 10265       | 150×10×32 | 89A 60 M5A V217 | 40         |                           | 10 | -     |



| Shape | Type number | D x D x H     | Specification   | Vmax m / s      | Remark | VP                        | Stock |
|-------|-------------|---------------|-----------------|-----------------|--------|---------------------------|-------|
|       | 1           | 901258        | 250 x 6 x 32    | SA 60 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 901256        | 250 x 5 x 32    | SA 60 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 901254        | 250 x 4 x 32    | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 804976        | 200 x 8 x 32    | SA 60 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 805000        | 200 x 6 x 32    | SA 60 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 804993        | 200 x 5 x 32    | SA 60 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 804945        | 200 x 4 x 32    | SA 80 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 922860        | 200 x 3 x 32    | SA 80 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 804957        | 200 x 3.5 x 32  | SA 80 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 922857        | 200 x 2 x 32    | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 867603        | 200 x 2.5 x 32  | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 804979        | 200 x 10 x 32   | SA 60 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 804963        | 200 x 1.75 x 32 | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 922647        | 200 x 1.5 x 32  | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 441302        | 150 x 8 x 32    | SA 60 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 740907        | 150 x 6 x 38    | SA 80 J5 VN-MOD | 63     | 10                        | -     |
|       |             | 17256         | 150 x 6 x 38    | SA 60 K5 VN-MOD | 63     | 10                        | -     |
|       |             | 946904        | 150 x 6 x 32    | SA 60 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 47005         | 150 x 6 x 32    | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 667182        | 150 x 5 x 32    | SA 80 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 47010         | 150 x 4 x 32    | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 159000        | 150 x 4 x 32    | SA 80 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 47009         | 150 x 3 x 32    | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 226295        | 150 x 3 x 32    | SA 80 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 935730        | 150 x 2 x 32    | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 123688        | 150 x 2.5 x 32  | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 441301        | 150 x 10 x 32   | SA 60 L5 VN-MOD | 63     | 10                        | -     |
|       |             | 292129        | 150 x 1.5 x 32  | SA 80 L4 VN-MOD | 63     | 10                        | -     |
|       |             | 437634        | 250 x 10 x 32   | 52 A54 M5A V217 | 63     | Side surface impregnation | 10    |
| 1F    | 805017      | 250 x 8 x 32  | SA 60 K5 VN-MOD | 63              |        | 10                        | -     |
|       | 805015      | 250 x 13 x 32 | SA 60 K5 VN-MOD | 63              |        | 10                        | -     |
|       | 805018      | 250 x 10 x 32 | SA 60 K5 VN-MOD | 63              |        | 10                        | -     |
|       | 805007      | 200 x 8 x 32  | SA 60 K5 VN-MOD | 63              |        | 10                        | -     |
|       | 805008      | 200 x 10 x 32 | SA 60 K5 VN-MOD | 63              |        | 10                        | -     |
|       | 804983      | 200 x 10 x 32 | SA 60 L5 VN-MOD | 63              |        | 10                        | -     |



Shape 1C

| Shape | Type number | D×D×H         | Specification                        | Vmax m / s | Remark         | VP | Stock |
|-------|-------------|---------------|--------------------------------------|------------|----------------|----|-------|
| 1C    | 162874      | 200 × 12 × 20 | 88A 60 N4A V217 /<br>89A 60 M5A V217 | 40         | Two-layer disc | 10 | -     |
|       | 720012      | 200 × 10 × 32 | 88A 60 N4A V217 /<br>89A 60 M5A V217 | 40         |                | 10 | -     |
|       | 719918      | 200 × 10 × 20 | 88A 60 N4A V217 /<br>89A 60 M5A V217 | 40         |                | 10 | -     |
|       | 172352      | 175 × 8 × 20  | 88A 60 N4A V217 /<br>89A 60 M5A V217 | 40         |                | 10 | -     |

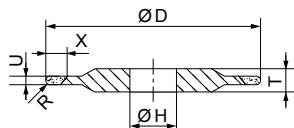


# Grinding tools with CBN for circular saws made of high-speed steel

## Tooth form grinding

This Tyrolit product is suitable for both repair and production grinding and offers you high stock removal rates on HSS. The CBN tool for tooth form grinding has been specially designed for wet grinding with emulsion and oil. The CBN tools are available for all common automatic sharpening machines in diameters of 150-200 mm.

Customised dimensions and specifications are possible depending on customer requirements. Please contact our sales engineers.

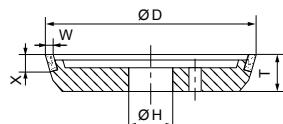


Shape 14F1

| Shape   | Type number   | D × D × H         | Specification     | U-X-R              | Remark                                | Stock |
|---|---------------|-------------------|-------------------|--------------------|---------------------------------------|-------|
|  | 14F1          | 200 × 8 × 32      | B 126 C125 B87 ST | 1-8,4-0,5          | e.g. Schmidt-Tempo,<br>Loroch, Record |       |
|   | 462924        | 200 × 8 × 32      | B 126 C125 B87 ST | 1,3-8,4-0,65       | e.g. Schmidt-Tempo,<br>Loroch, Record | -     |
|   | 454693        | 200 × 8 × 32      | B 126 C125 B87 ST | 1,6-8,4-0,8        | e.g. Schmidt-Tempo,<br>Loroch, Record | -     |
|   | 462928        | 200 × 8 × 32      | B 126 C125 B87 ST | 2-8,4-1            | e.g. Schmidt-Tempo,<br>Loroch, Record | -     |
|   | 462932        | 200 × 8 × 32      | B 151 C125 B87 ST | 2,5-8,4-1,25       | e.g. Schmidt-Tempo,<br>Loroch, Record |       |
|   | 462937        | 200 × 8 × 32      | B 151 C125 B87 ST | 3-12,5-1,5         | e.g. Schmidt-Tempo,<br>Loroch, record | -     |
|   | 34050324      | 200 × 8 × 32      | B 151 C125 B87 ST | 4-12,5-2           | e.g. Schmidt-Tempo,<br>Loroch, Record |       |
|   | 34069157      | 200 × 8 × 32      | B 151 C125 B87 ST | 5-12,5-2,5         | e.g. Schmidt-Tempo,<br>Loroch, Record |       |
|   | 462948        | 200 × 8 × 32      | B 151 C125 B54 AL | 6-12,5-3           | e.g. Schmidt-Tempo,<br>Loroch, record |       |
|   | 462909        | 150 × 20 × 20     | B 126 C125 B87 ST | 1-8,4-0,5          | e.g. Schmidt-Tempo                    |       |
| 462911  | 150 × 20 × 20 | B 126 C125 B87 ST | 1,3-8,4-0,65      | e.g. Schmidt-Tempo |                                       |       |
| 462914  | 150 × 20 × 20 | B 126 C125 B87 ST | 2-8,4-1           | e.g. Schmidt-Tempo |                                       |       |
| 462916  | 150 × 20 × 20 | B 151 C125 B87 ST | 2,5-8,4-1,25      | e.g. Schmidt-Tempo |                                       |       |
| 462918  | 150 × 20 × 20 | B 151 C125 B87 ST | 3-8,4-1,5         | e.g. Schmidt-Tempo |                                       |       |

## Clearance grinding

This resin-bonded CBN wheel is ideal for use on HSS materials. And available in diameters of 100-125 mm.

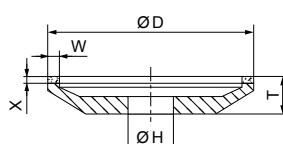
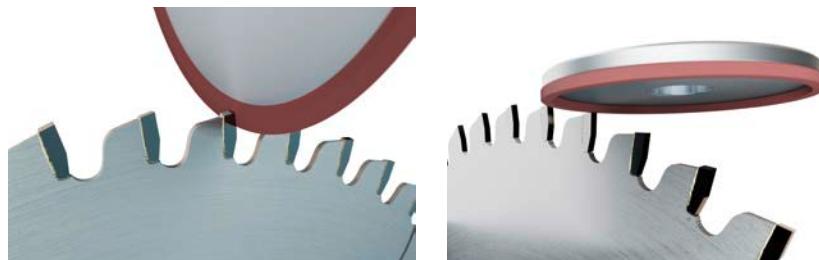


Shape 11B9H



## Face and clearance grinding

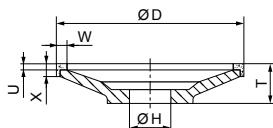
These resin bonded wheels are versatile in the HSS range.



Shape 12A2



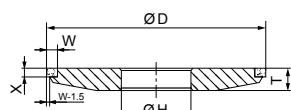
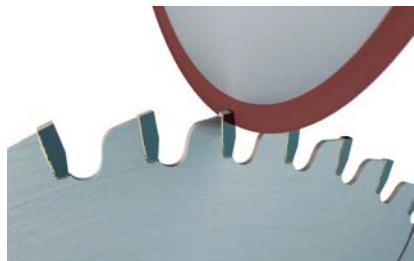
| Shape | Type number | D×D×H         | Specification    | W-X-V° | Remark | Stock |
|-------|-------------|---------------|------------------|--------|--------|-------|
| 12A2  | 463058      | 125 × 16 × 20 | B 126 C50 B54 AL | 5-2    |        |       |
|       | 463057      | 100 × 14 × 20 | B 126 C50 B54 AL | 5-2    |        |       |



Shape 12C2F

| Shape | Type number | D × D × H     | Specification             | U-W-X | Remark | Stock |
|-------|-------------|---------------|---------------------------|-------|--------|-------|
| 12C2F | 646778      | 125 × 23 × 20 | B 91 C75 B45<br>AL-AMIGO  | 5-5-4 |        | -     |
|       | 641839      | 125 × 23 × 20 | B 151 C75 B45<br>AL-AMIGO | 5-5-4 |        | -     |

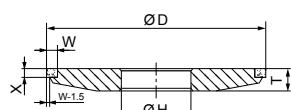
## Tip face grinding



Shape 4B9

| Shape | Type number | D × D × H     | Specification   | W-X-V°   | Remark                | Stock |
|-------|-------------|---------------|-----------------|----------|-----------------------|-------|
| 4B9   | 462789      | 125 × 12 × 20 | B 91 C75 B54 AL | 3-1,8-15 | e.g. Vollmer Biberach |       |
|       | 462793      | 125 × 14 × 20 | B 91 C75 B54 AL | 3-3,8-15 | e.g. Vollmer Biberach |       |

## Flank grinding



Shape 4B9

| Shape | Type number | D × D × H     | Specification   | W-X | Remark | Stock |
|-------|-------------|---------------|-----------------|-----|--------|-------|
| 4B9   | 462736      | 100 × 10 × 32 | B 91 C50 B54 AL | 5-4 |        |       |

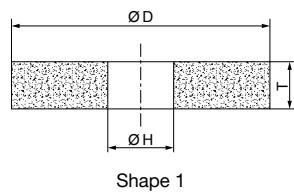
## Bevel grinding

| Shape | Type number | D×D×H    | Specification     | U-W-V°   | Machine            | Stock |
|-------|-------------|----------|-------------------|----------|--------------------|-------|
| 14B1R | 463063      | 200×8×32 | B 126 C100 B48 ST | 1,5-5-10 | e.g. Schmidt-Tempo |       |

## Form grinding

Grinding wheels for form grinding on circular saw blades;  
available in different bond variants to increase the lateral stability  
of the grinding wheel

### Form grinding



Shape 1

| Shape | TN     | D×D×H      | Specification | Vmax m/s | Machine                       | Stock |
|-------|--------|------------|---------------|----------|-------------------------------|-------|
| 1     | 491885 | 500×50×127 | C46-BE19F     | 32       | e.g. Engländer&Beyer          |       |
|       | 491895 | 500×50×127 | C46-BE16      | 32       | e.g. Engländer&Beyer          |       |
|       | 491882 | 400×25×127 | C46-BE19F     | 32       | e.g. Gerling, Engländer&Beyer |       |
|       | 491893 | 400×25×127 | C46-BE16      | 32       | e.g. Gerling, Engländer&Beyer |       |
|       | 491883 | 400×50×127 | C46-BE19F     | 32       | e.g. Engländer&Beyer          |       |
|       | 491894 | 400×50×127 | C46-BE16      | 32       | e.g. Engländer&Beyer          |       |
|       | 491880 | 350×40×127 | C46-BE19F     | 32       | e.g. Gerling                  |       |
|       | 826979 | 300×35×127 | C46-BE19F     | 32       | e.g. Gerling                  |       |
|       | 491875 | 250×25×32  | C46-BE19F     | 32       | e.g. Vollmer, Petschauer      |       |
|       | 491888 | 250×25×32  | C46-BE16      | 32       | e.g. Vollmer, Petschauer      |       |
|       | 491889 | 250×40×25  | C46-BE16      | 32       | e.g. Petschauer               |       |
|       | 491874 | 200×25×32  | C46-BE19F     | 32       | e.g. Vollmer, Petschauer      |       |



## Grinding tools for bandsaws



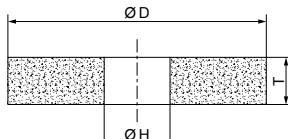
# Conventional grinding tools for bandsaws made from high-speed steel



Tyrolit offers you a wide assortment of tools matched to various grinding machines and tooth pitches. These are suitable for dry and wet grinding for HSS, CV and stellited bandsaws. The products are available in different edge profiles shape 1, 1F, 1C in the diameter range of 150-350 mm

Customised dimensions and specifications are possible depending on customer requirements. Please contact our sales engineers.

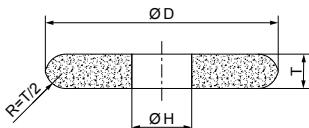
## Tooth form grinding - resin bonded



Shape 1



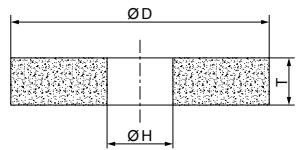
| Shape | Type number | D x D x H      | Specification    | Vmax m / s | Remark                                  | VP | Stock |
|-------|-------------|----------------|------------------|------------|---|----|-------|
| 1     | 469639      | 300 x 32 x 32  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469638      | 300 x 30 x 32  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469637      | 300 x 25 x 32  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469632      | 300 x 22 x 32  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469627      | 300 x 20 x 32  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469626      | 300 x 18 x 32  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469625      | 300 x 16 x 32  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469624      | 300 x 13 x 32  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 239527      | 300 x 10 x 32  | 455 A80 M6 B22   | 35         | e.g. Iseli & Co. AG, log band gang saws | 1  |       |
|       | 469657      | 250 x 32 x 25  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469656      | 250 x 30 x 25  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469655      | 250 x 25 x 25  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469654      | 250 x 20 x 25  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469648      | 250 x 18 x 25  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469646      | 250 x 16 x 25  | 455 A80 M6 B22   | 35         |   | 1  |       |
|       | 469644      | 250 x 12 x 25  | 455 A80 M6 B22   | 35         |   | 10 |       |
|       | 469643      | 250 x 10 x 25  | 455 A80 M6 B22   | 35         |   | 10 |       |
|       | 34340600    | 350 x 13 x 127 | 765A 80 P6 B100  | 63         |   | 1  | -     |
|       | 34340597    | 350 x 10 x 32  | 765A 60 P6 B100  | 63         |   | 1  | -     |
|       | 226680      | 350 x 13 x 127 | M455 A80 M6 B22  | 63         |   | 1  | -     |
|       | 487467      | 350 x 10 x 127 | M455 A80 M6 B22  | 63         |   | 1  | -     |
|       | 226679      | 350 x 10 x 127 | M455 A802 M6 B22 | 63         |   | 1  | -     |
|       | 223733      | 300 x 12 x 40  | M455 A60 M7 B82  | 63         | for stellited band and gang saws        | 1  | -     |
|       | 267138      | 300 x 12 x 40  | M455 A809 M6 B22 | 63         |   | 1  | -     |
|       | 313636      | 300 x 10 x 40  | M455 A60 M7 B82  | 63         |   | 1  | -     |
|       | 179959      | 300 x 10 x 40  | M455 A80 M6 B22  | 63         |   | 1  | -     |
|       | 527875      | 300 x 10 x 32  | M455 A60 L7 B82  | 63         |   | 1  | -     |
|       | 241857      | 300 x 10 x 32  | M455 A809 K6 B22 | 63         |   | 1  | -     |
|       | 237227      | 250 x 10 x 32  | M455 A60 M7 B82  | 63         |   | 1  | -     |



Shape 1F

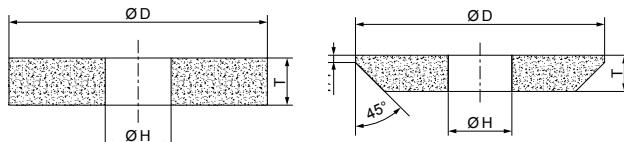
| Shape | Type number | D × D × H     | Specification   | Vmax m / s | Remark                           | VP | Stock |
|-------|-------------|---------------|-----------------|------------|----------------------------------|----|-------|
| 1F    | 150402      | 300 × 10 × 32 | M455 A60 L7 B82 | 63         | For stellited band and gang saws | 1  | -     |
|       | 476545      | 250 × 12 × 32 | M455 A60 M7 B82 | 63         |                                  | 1  | -     |
|       | 150403      | 200 × 10 × 32 | M455 A60 M7 B82 | 63         |                                  | 1  | -     |

## Tooth form grinding - Vitrified bonded



Shape 1

| Shape | Type number | D × D × H    | Specification   | Vmax m / s | Remark | VP | Stock |
|-------|-------------|--------------|-----------------|------------|--------|----|-------|
| 1     | 719904      | 150 × 6 × 38 | 88A 60 K5A V217 | 40         |        | 10 | -     |
|       | 490222      | 150 × 6 × 38 | 88A 80 K5A V217 | 40         |        | 10 | -     |
|       | 448603      | 200 × 2 × 32 | 88A 80 M5A V217 | 40         |        | 10 | -     |
|       | 291120      | 150 × 4 × 32 | 88A 80 M5A V217 | 40         |        | 10 | -     |
|       | 9293        | 150 × 4 × 20 | 88A 80 M5A V217 | 40         |        | 10 | -     |
|       | 55375       | 150 × 3 × 32 | 88A 80 M5A V217 | 40         |        | 10 | -     |
|       | 18825       | 150 × 3 × 30 | 88A 80 M5A V217 | 40         |        | 10 | -     |
|       | 7318        | 200 × 3 × 32 | 88A 80 M5 V217  | 40         |        | 10 | -     |

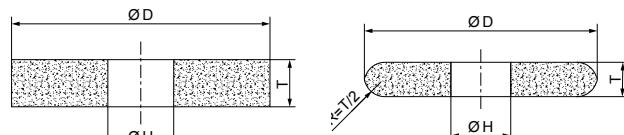


Shape 1

Shape 1C

| Shape | Type number | D×D×H     | Specification   | Vmax m / s | Remark                    | VP | Stock |
|-------|-------------|-----------|-----------------|------------|---------------------------|----|-------|
| 1     | 110554      | 200×6×32  | 88A 60 K5A V217 | 40         |                           | 10 | -     |
|       | 3091        | 200×10×32 | 89A 60 K5A V217 | 40         |                           | 10 | -     |
|       | 719922      | 250×13×32 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 33249       | 250×13×20 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 461239      | 250×10×32 | 89A 60 M5A V217 | 40         | Side surface impregnation | 1  | -     |
|       | 525686      | 200×8×32  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 3077        | 200×8×20  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 3070        | 200×6×20  | 89A 60 M5VA 217 | 40         |                           | 10 | -     |
|       | 51494       | 200×13×32 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 608080      | 200×10×32 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 762445      | 200×10×32 | 89A 60 M5A V217 | 40         | Side surface impregnation | 10 | -     |
|       | 3085        | 200×10×20 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 50845       | 175×8×51  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 123222      | 175×6×51  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 50844       | 175×4×51  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 719906      | 175×3×51  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 455124      | 150×8×32  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 305800      | 150×6×32  | 89A 60 M5A V217 | 40         |                           | 10 | -     |
|       | 10265       | 150×10×32 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
| 1C    | 28549       | 200×10×32 | 89A 60 M5A V217 | 40         |                           | 10 | -     |
| 1     | 7328        | 200×6×32  | 89A 60 M5 V217  | 40         |                           | 10 | -     |
|       | 3092        | 200×10×32 | 89A 60 M5 V217  | 40         |                           | 10 | -     |



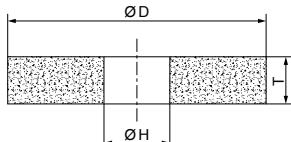


Shape 1

Shape 1F

| Shape | Type number | D x D x H       | Specification   | Vmax m / s | Remark | VP | Stock |
|-------|-------------|-----------------|-----------------|------------|--------|----|-------|
| 1     | 17256       | 150 x 6 x 38    | SA 60 K5 VN-MOD | 63         |        | 10 | -     |
|       | 805017      | 250 x 8 x 32    | SA 60 K5 VN-MOD | 63         |        | 10 | -     |
|       | 805015      | 250 x 13 x 32   | SA 60 K5 VN-MOD | 63         |        | 10 | -     |
|       | 805019      | 250 x 12 x 32   | SA 60 K5 VN-MOD | 63         |        | 10 | -     |
|       | 805018      | 250 x 10 x 32   | SA 60 K5 VN-MOD | 63         |        | 10 | -     |
|       | 805007      | 200 x 8 x 32    | SA 60 K5 VN-MOD | 63         |        | 10 | -     |
|       | 805009      | 200 x 12 x 32   | SA 60 K5 VN-MOD | 63         |        | 10 | -     |
|       | 805008      | 200 x 10 x 32   | SA 60 K5 VN-MOD | 63         |        | 10 | -     |
| 1     | 901258      | 250 x 6 x 32    | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
|       | 901256      | 250 x 5 x 32    | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
|       | 901255      | 250 x 4.5 x 32  | SA 60 L5 VN-MOD | 63         |        | 10 |       |
|       | 804977      | 200 x 9 x 32    | SA 60 L5 VN-MOD | 63         |        | 10 |       |
|       | 804976      | 200 x 8 x 32    | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
|       | 805002      | 200 x 7 x 32    | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
|       | 805000      | 200 x 6 x 32    | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
|       | 805001      | 200 x 6.5 x 32  | SA 60 L5 VN-MOD | 63         |        | 10 |       |
|       | 804993      | 200 x 5 x 32    | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
|       | 804996      | 200 x 5.5 x 32  | SA 60 L5 VN-MOD | 63         |        | 10 |       |
|       | 804995      | 200 x 4.5 x 32  | SA 60 L5 VN-MOD | 63         |        | 10 |       |
|       | 804979      | 200 x 10 x 32   | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
|       | 441302      | 150 x 8 x 32    | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
|       | 946904      | 150 x 6 x 32    | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
| 1     | 909887      | 150 x 5.5 x 32  | SA 60 L5 VN-MOD | 63         |        | 10 |       |
|       | 441301      | 150 x 10 x 32   | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
|       | 804986      | 200 x 8 x 32    | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
|       | 804983      | 200 x 10 x 32   | SA 60 L5 VN-MOD | 63         |        | 10 | -     |
| 1     | 740907      | 150 x 6 x 38    | SA 80 J5 VN-MOD | 63         |        | 10 | -     |
|       | 901254      | 250 x 4 x 32    | SA 80 L4 VN-MOD | 35         |        | 10 | -     |
|       | 901252      | 250 x 3 x 32    | SA 80 L4 VN-MOD | 35         |        | 10 |       |
|       | 901253      | 250 x 3.5 x 32  | SA 80 L4 VN-MOD | 35         |        | 10 |       |
|       | 804964      | 200 x 2 x 32    | SA 80 L4 VN-MOD | 35         |        | 10 |       |
|       | 922857      | 200 x 2 x 32    | SA 80 L4 VN-MOD | 35         |        | 10 | -     |
|       | 804967      | 200 x 2.75 x 32 | SA 80 L4 VN-MOD | 35         |        | 10 |       |
|       | 804966      | 200 x 2.5 x 32  | SA 80 L4 VN-MOD | 35         |        | 10 | -     |
|       | 867603      | 200 x 2.5 x 32  | SA 80 L4 VN-MOD | 35         |        | 10 | -     |
|       | 804965      | 200 x 2.25 x 32 | SA 80 L4 VN-MOD | 35         |        | 10 | -     |
|       | 804963      | 200 x 1.75 x 32 | SA 80 L4 VN-MOD | 35         |        | 10 | -     |
|       | 804962      | 200 x 1.5 x 32  | SA 80 L4 VN-MOD | 35         |        | 10 | -     |
|       | 922647      | 200 x 1.5 x 32  | SA 80 L4 VN-MOD | 35         |        | 10 | -     |

| Shape | Type number | D×D×H       | Specification         | Vmax m / s | Remark                    | VP | Stock |
|-------|-------------|-------------|-----------------------|------------|---------------------------|----|-------|
| 1     | 47005       | 150×6×32    | SA 80 L4 VN-MOD       | 35         |                           | 10 | -     |
|       | 47010       | 150×4×32    | SA 80 L4 VN-MOD       | 35         |                           | 10 | -     |
|       | 47009       | 150×3×32    | SA 80 L4 VN-MOD       | 35         |                           | 10 | -     |
|       | 292130      | 150×2×32    | SA 80 L4 VN-MOD       | 35         |                           | 10 |       |
|       | 935730      | 150×2×32    | SA 80 L4 VN-MOD       | 35         |                           | 10 | -     |
|       | 444687      | 150×2.75×32 | SA 80 L4 VN-MOD       | 35         |                           | 10 |       |
|       | 123688      | 150×2.5×32  | SA 80 L4 VN-MOD       | 35         |                           | 10 | -     |
|       | 212089      | 150×2.25×32 | SA 80 L4 VN-MOD       | 35         |                           | 10 |       |
|       | 241847      | 150×1.75×32 | SA 80 L4 VN-MOD       | 35         |                           | 10 |       |
|       | 292129      | 150×1.5×32  | SA 80 L4 VN-MOD       | 35         |                           | 10 | -     |
|       | 804945      | 200×4×32    | SA 80 L5 VN-MOD       | 63         |                           | 10 | -     |
|       | 804954      | 200×3×32    | SA 80 L5 VN-MOD       | 63         |                           | 10 | -     |
|       | 922860      | 200×3×32    | SA 80 L5 VN-MOD       | 63         |                           | 10 | -     |
|       | 804958      | 200×3.75×32 | SA 80 L5 VN-MOD       | 63         |                           | 10 |       |
|       | 804957      | 200×3.5×32  | SA 80 L5 VN-MOD       | 63         |                           | 10 | -     |
|       | 804955      | 200×3.25×32 | SA 80 L5 VN-MOD       | 63         |                           | 10 |       |
|       | 93906       | 150×5×32    | SA 80 L5 VN-MOD       | 63         |                           | 10 |       |
|       | 667182      | 150×5×32    | SA 80 L5 VN-MOD       | 63         |                           | 10 | -     |
|       | 292131      | 150×4×32    | SA 80 L5 VN-MOD       | 63         |                           | 10 |       |
|       | 159000      | 150×4×32    | SA 80 L5 VN-MOD       | 63         |                           | 10 | -     |
|       | 110674      | 150×4.5×32  | SA 80 L5 VN-MOD       | 63         |                           | 10 |       |
|       | 226295      | 150×3×32    | SA 80 L5 VN-MOD       | 63         |                           | 10 | -     |
|       | 935731      | 150×3.5×32  | SA 80 L5 VN-MOD       | 63         |                           | 10 |       |
|       | 437634      | 250×10×32   | 52A 54 M5A V217 E5 63 |            | Side surface impregnation | 10 | -     |
|       | 19117       | 150×4×20    | A 60 N4 B2            | 63         |                           | 10 | -     |



Shape 1C

| Shape | Type number | D×D×H     | Specification                     | Vmax m / s | Remark         | VP | Stock |
|-------|-------------|-----------|-----------------------------------|------------|----------------|----|-------|
| 1C    | 162874      | 200×12×20 | 88A 60 N4A V217 / 89A 60 M5A V217 | 40         |                | 10 | -     |
|       | 720012      | 200×10×32 | 88A 60 N4A V217 / 89A 60 M5A V217 | 40         |                | 10 | -     |
|       | 719918      | 200×10×20 | 88A 60 N4A V217 / 89A 60 M5A V217 | 40         | Two-layer disc | 10 | -     |
|       | 172352      | 175×8×20  | 88A 60 N4A V217 / 89A 60 M5A V217 | 40         |                | 10 | -     |

# Grinding tools with CBN for bandsaws made of high-speed steel

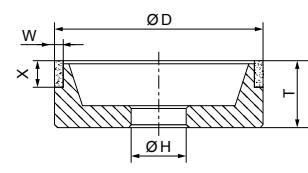


This Tyrolit product is suitable for both repair and production grinding and offers you high stock removal rates on HSS. The CBN tool for tooth form grinding has been specially designed for wet grinding with emulsion and oil. The CBN tools are available for all common automatic sharpening machines in diameters of 150-350 mm.

## Tooth form grinding

| Shape | Type number | D × D × H       | Specification | Vmax m / s        | Remark  | Stock |
|-------|-------------|-----------------|---------------|-------------------|---|-------|
| 1FF1R | 860493      | 300 × 10 × 127  | 10-5-9        | B 151 C100 B74 AL |   |       |
|       | 659662      | 250 × 10,5 × 40 | 10,5-5-12     | B 151 C75 B74 AL  |   |       |
|       | 859934      | 200 × 10 × 127  | 10-6-9        | B 151 C100 B74 AL |   |       |
| 3FF1R | 893810      | 350 × 10 × 127  | 6-4-8         | B 151 C125 B70 AL | e.g. Iseli & Co. AG,<br>Blockband-<br>Gang saws |       |
|       | 259467      | 300 × 12 × 40   | 10-5-15       | B 126 C100 B74 AL |   |       |
|       | 132283      | 250 × 11 × 32   | 6-6-9         | B 151 C100 B74 AL |   |       |
|       | 789465      | 250 × 11 × 25   | 8-6-9         | B 151 C75 M112 ST |   |       |

## Side grinding



Shape 6A9

| Shape | Type number | D × D × H     | Specification | Vmax m / s         | Remark        | Stock |
|-------|-------------|---------------|---------------|--------------------|---------------|-------|
| 6A9   | 34670479    | 125 × 35 × 20 | 3-10          | B 126 C100 B250 AL |               |       |
|       | 34670480    | 125 × 35 × 20 | 3-10          | B L126-3-PD        | STARTEC-BASIC |       |

| <b>Precision data sheet</b> |                              |          | Mounting by:<br>am:      |
|-----------------------------|------------------------------|----------|--------------------------|
| <b>Customer</b>             | ATDB no.                     |          | <b>Country:</b>          |
|                             | <b>Target group:</b>         |          | <b>Product family:</b>   |
|                             | <b>Requirement d. Pos:</b>   |          |                          |
|                             | Customer: *                  |          | Classification:          |
|                             | Department:                  |          | Customer no:             |
|                             | Contact person:              |          | Tel. / Fax:              |
|                             |                              |          |                          |
| <b>Customer</b>             | <b>Shape:</b> *              |          | <b>1 set = pcs:</b>      |
|                             | <b>Dimensions (mm):*</b>     |          |                          |
|                             | Dimensions (mm):             |          | Tolerance:               |
|                             | Specification:               |          |                          |
|                             | Manufacturer:                |          | <b>Current price:</b>    |
|                             | <b>Vs max. (m/s)*</b>        |          | Order quantity:          |
|                             |                              |          |                          |
| <b>Customer</b>             | <b>Grinding process:</b>     |          |                          |
|                             | <b>Machine manufacturer:</b> |          |                          |
|                             | Vs (m/s):                    |          |                          |
|                             | <b>Cooling lubricant:</b>    |          |                          |
|                             | <b>Dressing tool:</b>        |          |                          |
|                             | Dressing cycle:              |          | Dressing amount:         |
|                             |                              |          |                          |
| <b>Workpiece</b>            | <b>Workpiece:</b> *          |          | <b>Dimensions (mm):*</b> |
|                             | <b>Material group:</b> *     |          | <b>Allowance (mm):</b>   |
|                             | <b>Condition:</b> *          |          | <b>Hardness:</b> *       |
|                             |                              |          |                          |
| <b>Goal</b>                 | <b>Roughness depth:</b>      |          | <b>Contact time:</b>     |
|                             | Lifetime:                    |          |                          |
|                             | Additive:                    |          |                          |
|                             |                              |          |                          |
| <b>Sample</b>               | Specification:               |          |                          |
|                             | Specification:               |          |                          |
|                             | Specification:               |          |                          |
| <b>Info</b>                 |                              | Drawing: |                          |
| Distributor:                |                              |          |                          |

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