



Hydraulic milling cutters

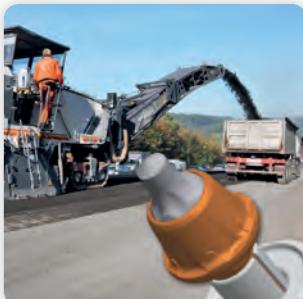
Tools for  
*true heroes!*



MADE IN GERMANY

**BETEK**

*Progress!*



1 - Road milling



2 - Surface Mining



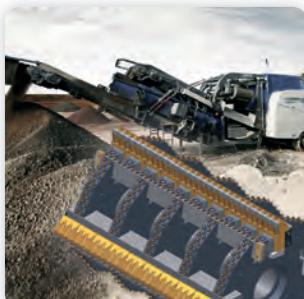
3 - Stabilising



4 - Recycling



5 - Foundation drilling



6 - Crushing and mixing



7 - Horizontal directional drilling HDD



8 - Mining



9 - Trenching



10 - Tunnelling



11 - Hydraulic milling cutters



12 - Forest mulching



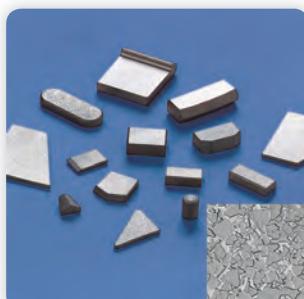
13 - Agriculture



14 - Rail track construction



15 - TungStuds



16 - Abrasive wear protection

Use innovative tool systems from BETEK – and you'll make good progress with above-average daily productivity! The contours of BETEK tools and the grade of tungsten carbide used are always tailored to the job at hand. This ensures a long service life and minimal tool changes.

## Progress well with wear-resistant grades of tungsten carbide



Cross-section through grade B20G tungsten carbide, as used, for example, for hydraulic milling cutter tools

## Tungsten carbide and steel – firmly bonded for extreme demands

Steel and tungsten carbide are two materials with totally different expansion coefficients when subjected to heat. Nevertheless, it is of steel and tungsten carbide that our tools are made, with tungsten carbide for the wear-resistant tip, and steel for the tool shank. Since tools reach high temperatures during use, extreme tensile stresses are generated. These stresses are absorbed by a special brazing material that joins the tungsten carbide tip to the steel section.

We have developed our own methods and systems for this brazing process, which is carried out on fully automated machines with the process covered in an inert protective gas. Manufacturing parameters are fully monitored and documented to ensure consistent quality. Afterwards, brazing shear strengths are checked to ensure that our "Masters of the construction site" lose no time due to broken tools!



Monitored manufacturing on the  
fully automated soldering machine



The soldering process to permanently  
bond tungsten carbide and steel

## How our high-tech tools are made

### *Customer service*



- Cost-effective client solutions based on flexible structures
- Tailored, fast response to client requirements

### *Development & Design*



- Speedy creation of samples and prototypes
- Competitive prices thanks to close collaboration with all areas of production

### *Tungsten carbide manufacturing*



- Raw materials of high purity used for great strength
- Consistently high, porefree tungsten carbide quality produced through an exact process resulting from years of experience and know-how

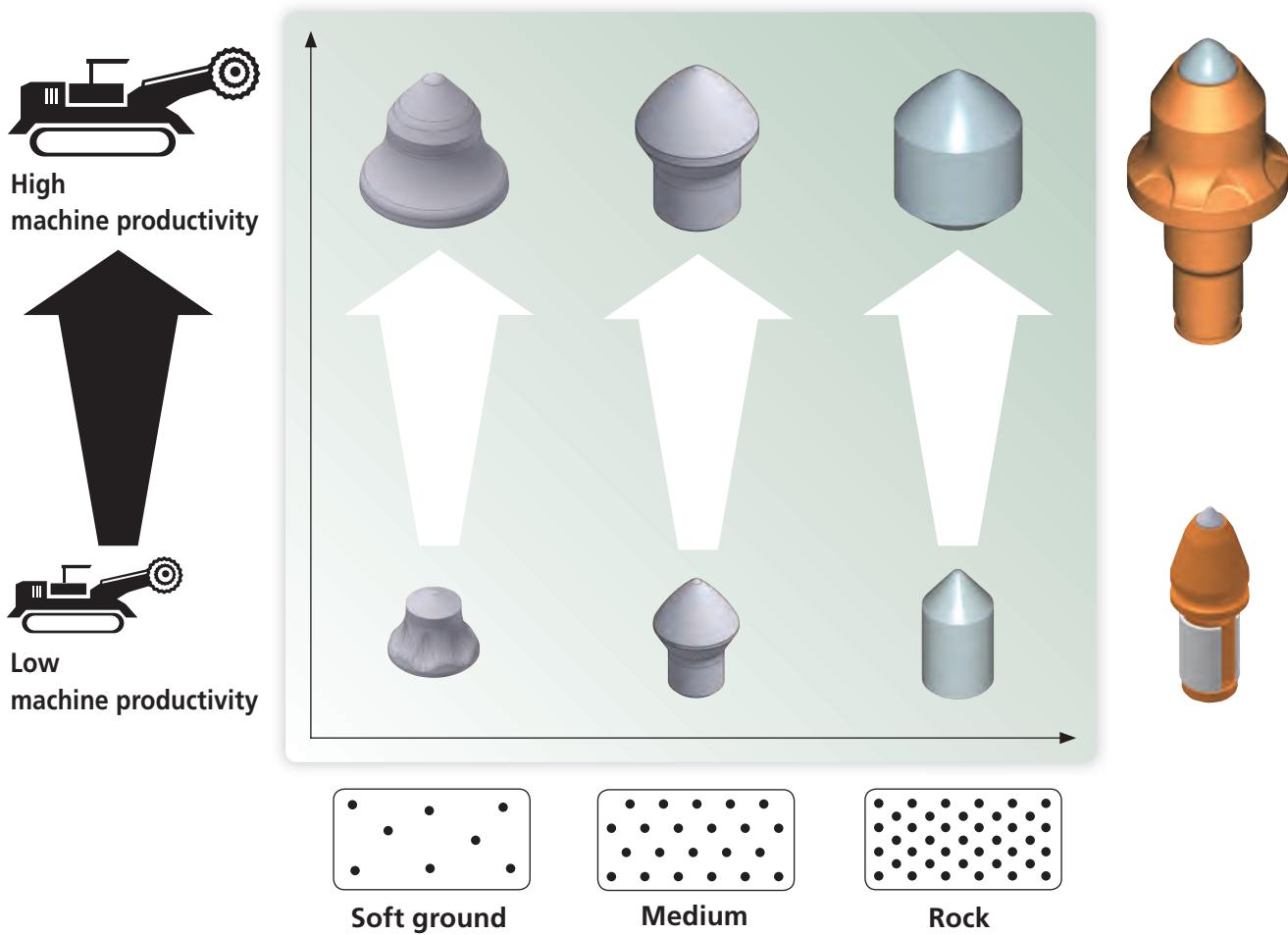
### *The soldering side of production*



- Production equipment and processes specially developed to the utmost degree of perfection by experts in combining tungsten carbide and steel



## The right tool for your application





<u>Tool range</u>	<u>Page</u>
Round shank cutter bits Shank system Ø 14 mm / 0,55"	9
Round shank cutter bits Shank system Ø 19,4 mm / 0,76"	9
Round shank cutter bits Shank system Ø 22 mm / 0,87"	10
Round shank cutter bits Shank system Ø 25 mm / 1"	11
Round shank cutter bits Shank system Ø 30 mm / 1,18"	12-14
Round shank cutter bits Shank system Ø 38 / 30 mm - 1,5 / 1,18"	15-16
Round shank cutter bits Shank system Ø 38 mm / 1,5"	17
Application examples	18
TungStuds	19

Below the pictures of tools on the following pages you will find the following information:

→ Art.-No.  
→ Description



Packaging unit

#### Dimensions: mm/inches

#### Welding instructions see:

[www.betek.de/de/produktprogramme/hydraulic-milling-cutter-userinfo.html](http://www.betek.de/de/produktprogramme/hydraulic-milling-cutter-userinfo.html)

#### SERVICE:



Germany: [trenchtek@betek.de](mailto:trenchtek@betek.de)

Tel.: +49 (0) 74 22 / 5 65-590

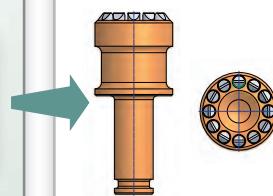
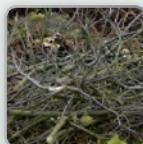
## Tools **MADE IN GERMANY** for asphalt / concrete / rock

**Professional cutting picks for**

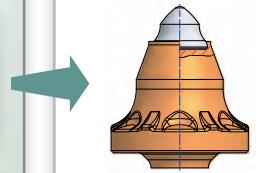
- production
- profiling
- remediation
- demolition

### Cutting tool selection guide:

**Stump cutting  
(wood, roots)**

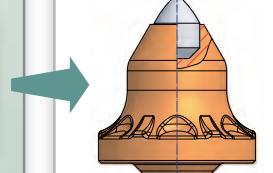


**Soft materials  
(asphalt, salt, gypsum)**



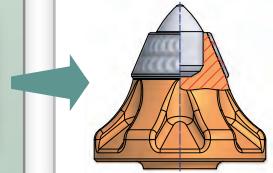
**Cap style tungsten carbide insert**

**Hard materials  
(Concrete, rock, limestone)**



**Cylindrical tungsten carbide insert**

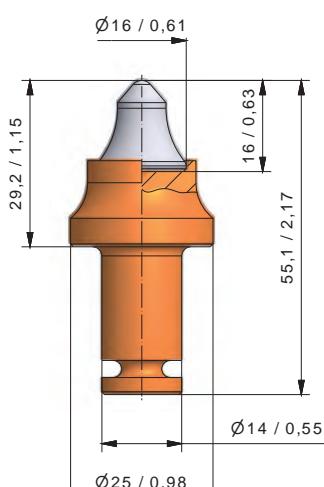
**Abrasive materials  
(sandstone)**



**Hard faced with cylindrical tungsten carbide insert**

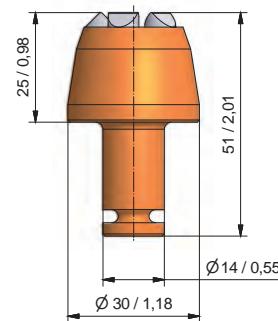


## Shank system Ø 14 mm/0,55"

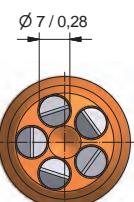
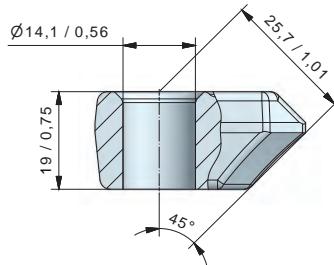


**BM76**  
BM4-14/TS

200



**BM69**  
BM7-14/2F

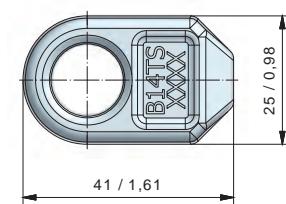


**SR90**

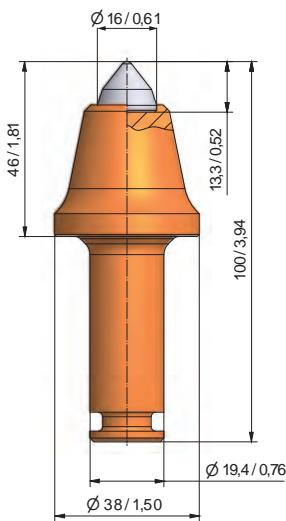
150

**BHR171**  
B14TS

200

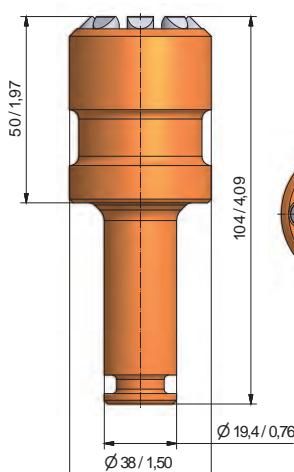


## Shank system Ø 19,4 mm/0,76"

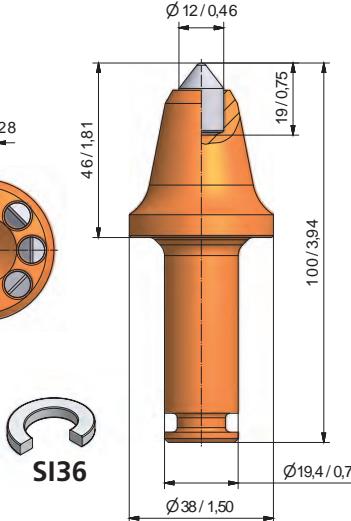


**BC26**  
B3KS

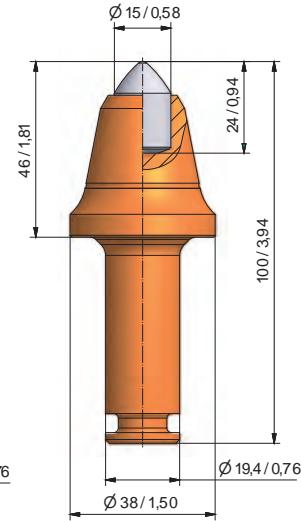
40



**BSR63**  
BG20F-07.3850



**BC82**  
BG20F-12.3846



**BC68**  
BG20F-15.3846

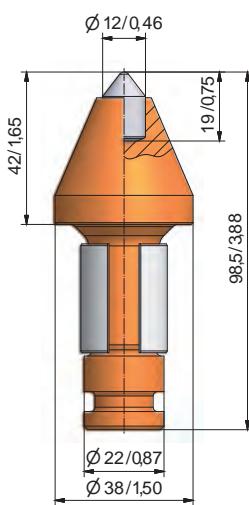


**BZ31**  
Assembly tool

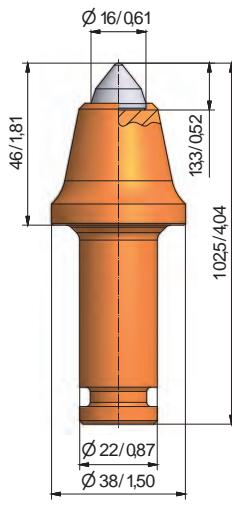


**BZ33**  
Disassembly tool

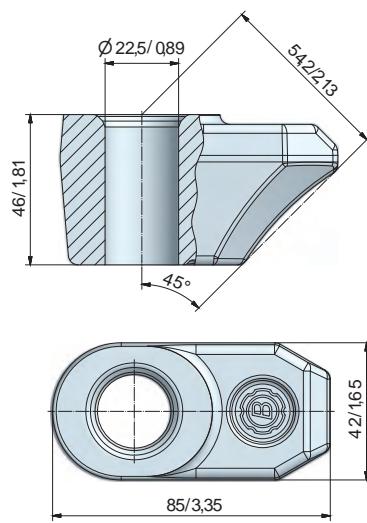
## Shank system Ø 22 mm/0,87"



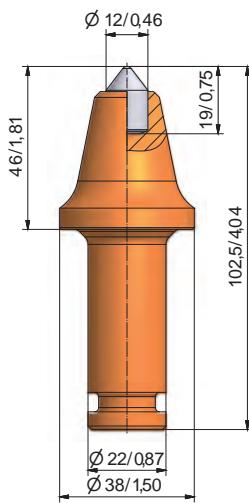
**BC36** 40  
B1-12/22/SI26



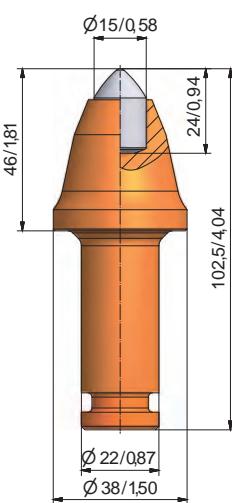
**BC33** 40  
B3KS22



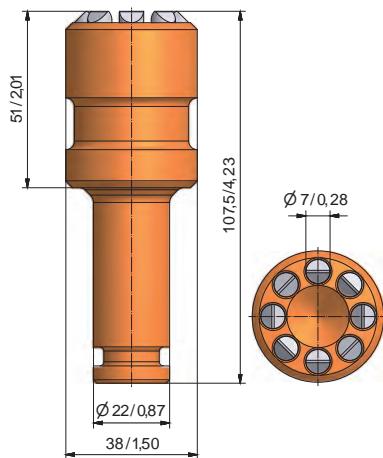
**BHR120** 20  
B22S



**BC62** 40  
B1-12/38KS22



**BC77** 40  
BG22F-15.3846



**BSR161** 40  
BG22F-07.3851



**BZ41**  
Assembly tool

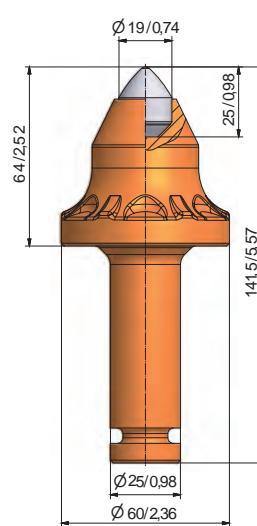
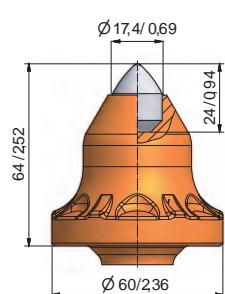
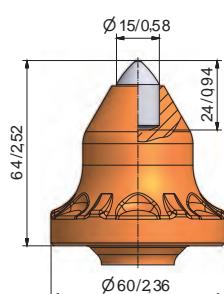
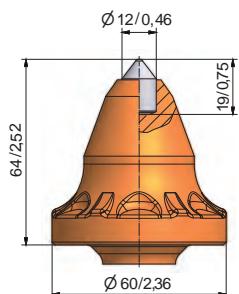
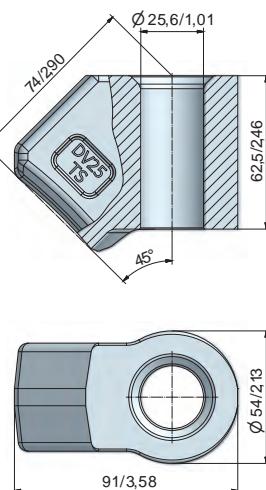
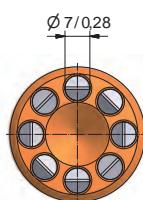
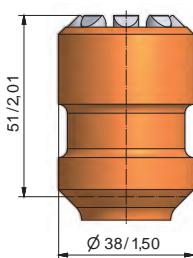
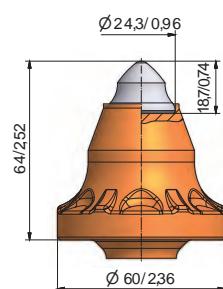


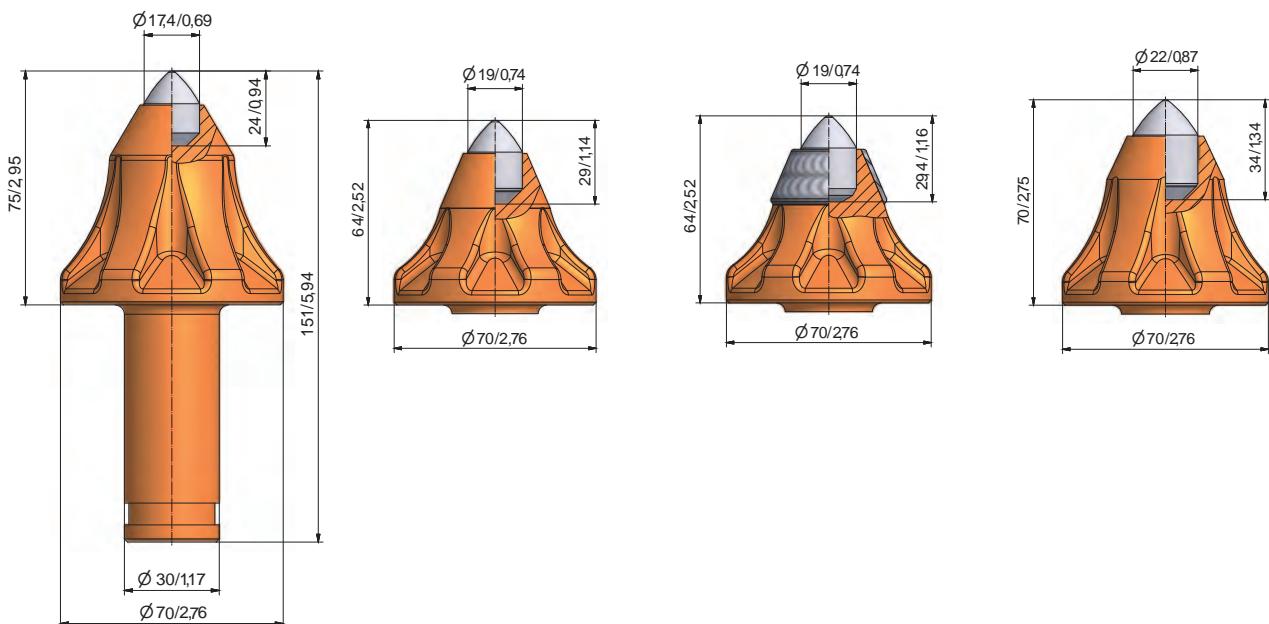
SI26



**BZ32**  
Disassembly tool



**Shank system Ø 25 mm / 1"****BTK114**  
BG25F-12.6064**BTK120**  
BG25F-15.6064**BTK121**  
BG25F-17.6064**BTK122**  
BG25F-19.6064**BTK124**  
BG25F-68.6064**BSR78**  
BG25F-07.3851**BHR145**  
DV25/TS**SI79/K****BZ37**  
Assembly tool**BZ36**  
Disassembly tool

**Shank system Ø 30 mm/1,18"**

**BGS89**  
BG30N-17.7075



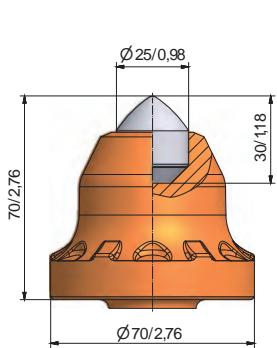
**BGS88**  
B47GK19/70-E



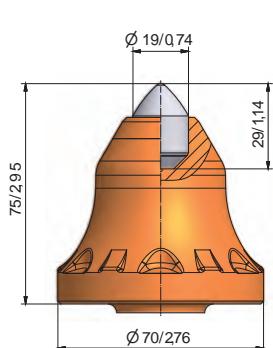
**BGS84**  
B47GK19/70-P



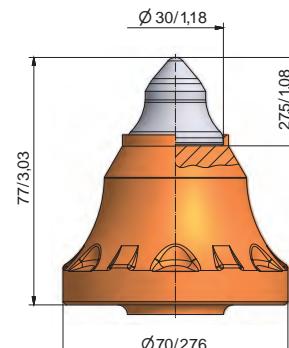
**BGS90**  
B47GK22LK70-E



**BGS105**  
BG30W-25.7070



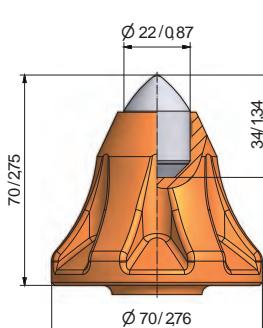
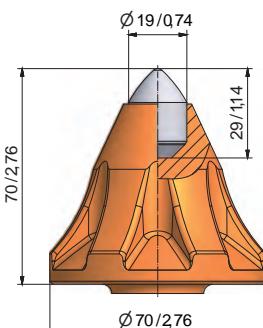
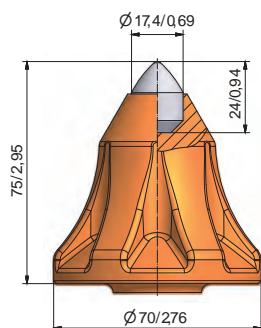
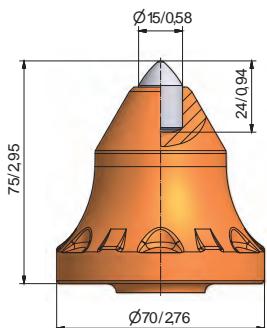
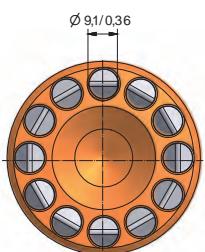
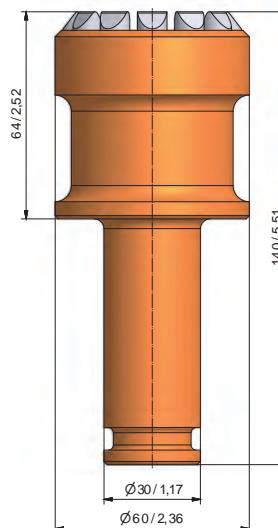
**BGS100**  
BG30W-19.7075



**BGS103**  
BG30W-69.7077



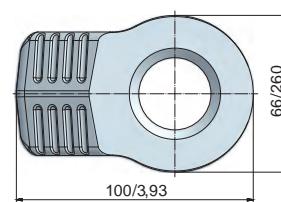
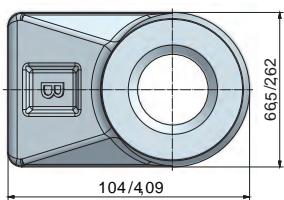
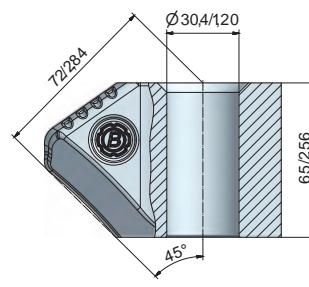
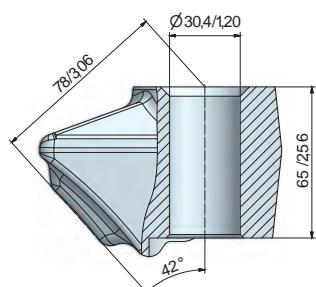
**SR83**

**Shank system Ø 30 mm/1,18"****BGF25**  
BG30F-15.7075**BGF10**  
B47GK17,5LK75-E/F**BGF36**  
BG30F-19.7070**BGF11**  
B47GK22LK70-E/F**BSR58**  
BG30F-09.6064

SI35 / 22



## Shank system Ø 30 mm / 1,18"

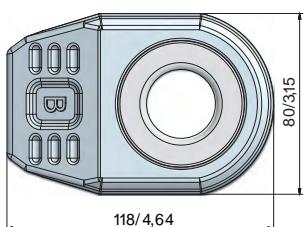
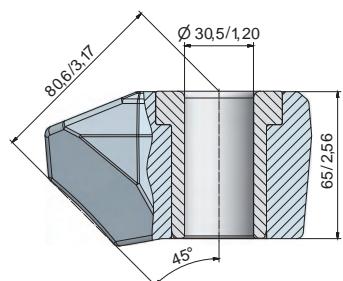


**BHR35**  
B30.65

5

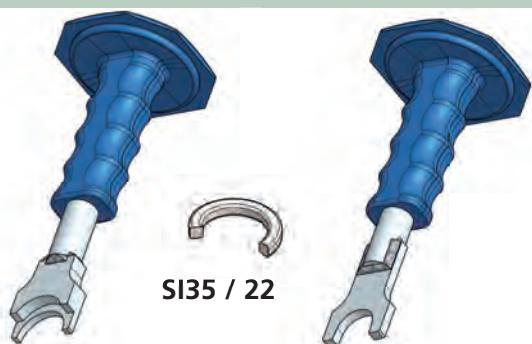
**BHR94**  
B43G

5



**BHR75**  
B30.65H

5

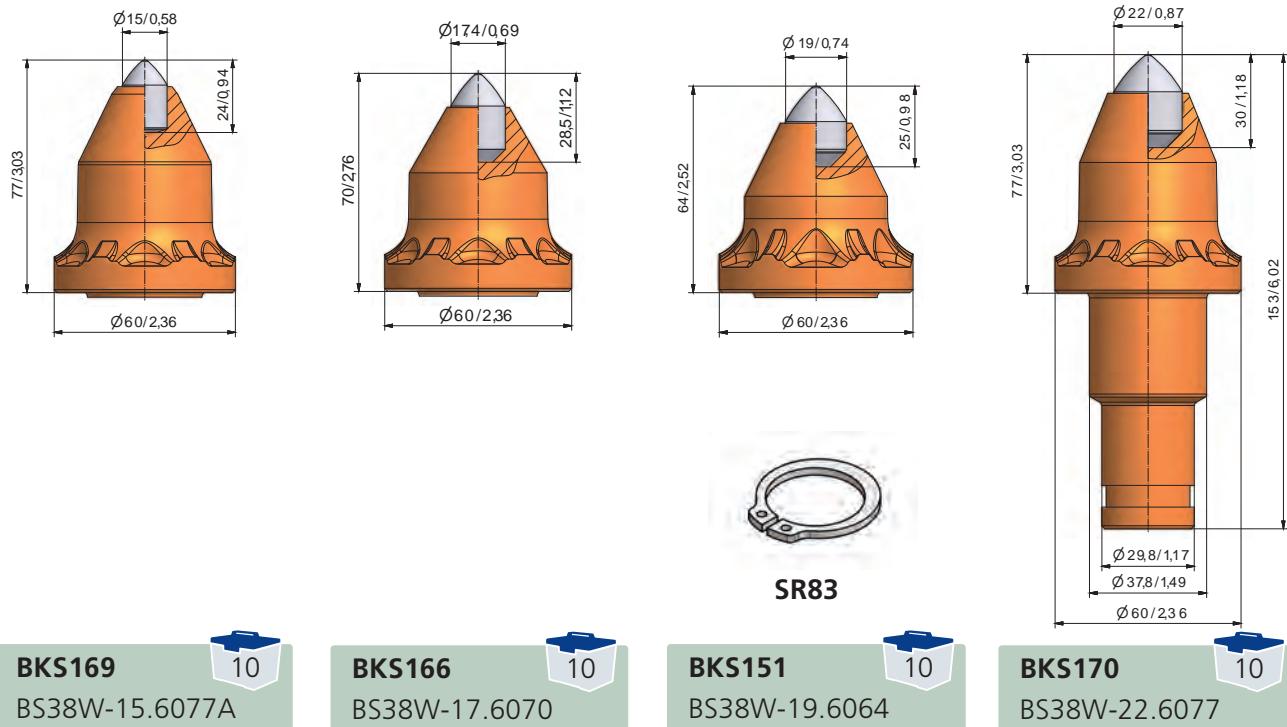


**BZ35**  
Assembly tool

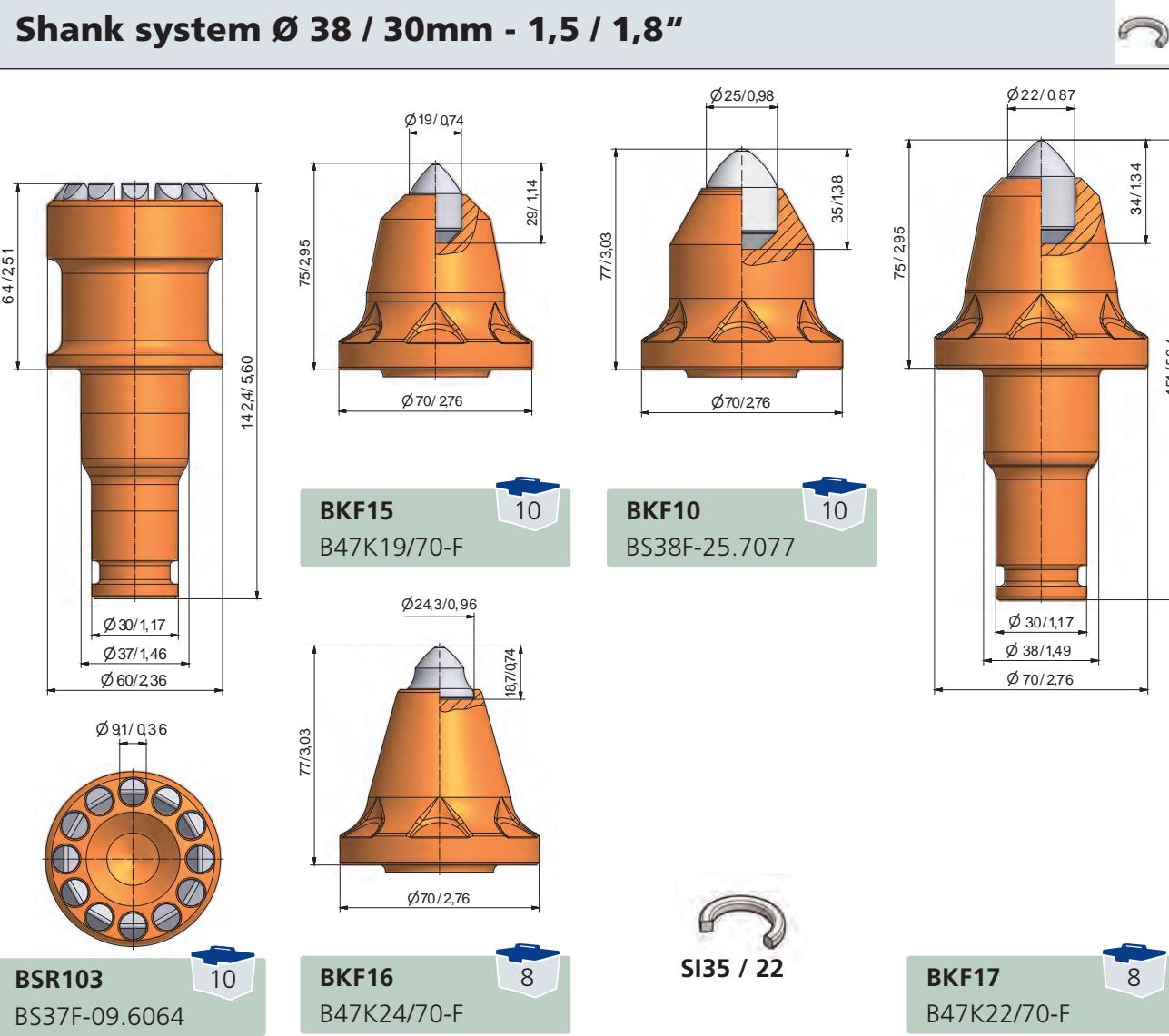
**BZ34**  
Disassembly tool

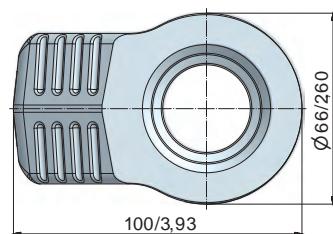
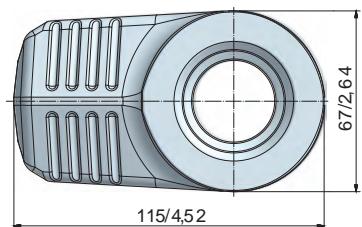
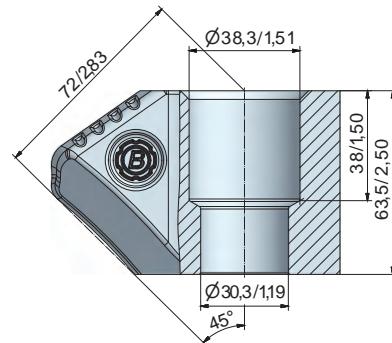
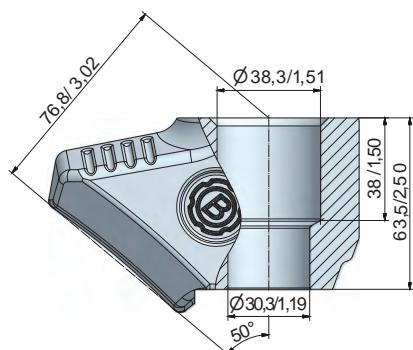


## Shank system Ø 38 / 30mm - 1,5 / 1,18"



SR83



**Shank system Ø 38 / 30 mm - 1,5mm/1,18"****BHR188**

B3830.6750

6



SI35 / 22

**BHR38**

B43H

10

**BZ35**

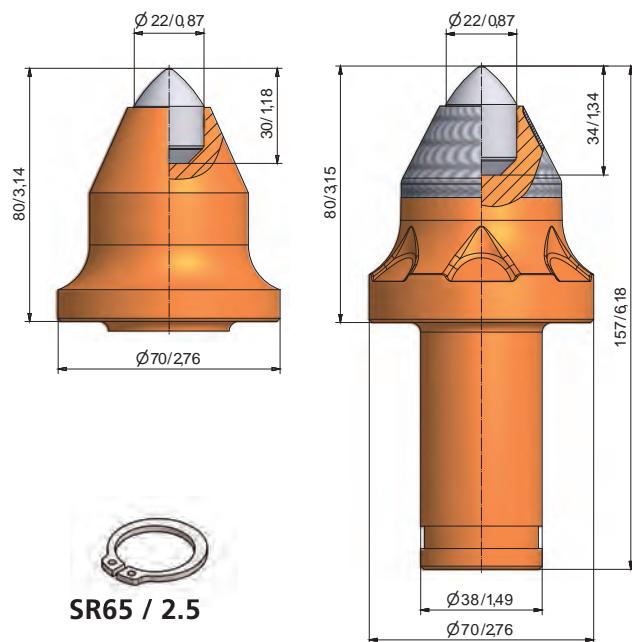
Assembly tool

**BZ34**

Disassembly tool

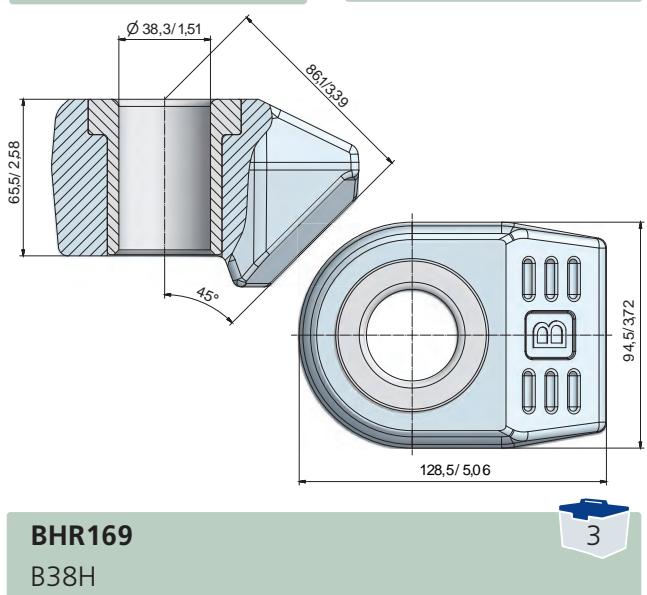
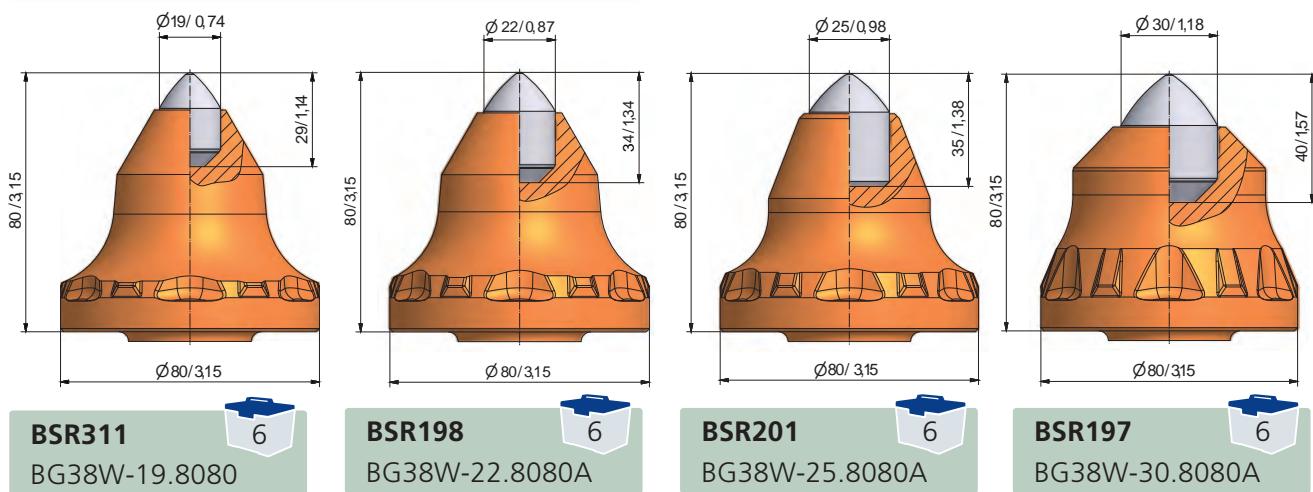


## Shank system Ø 38 mm / 1,5" Holder length 65 mm / 2,6"



**BSR140** 8  
BG38W -22.7080

**BSR199** 8  
BG38W-22.7080AP





## BETEK TungStuds with tungsten carbide core: Effective protection against wear for metal surfaces

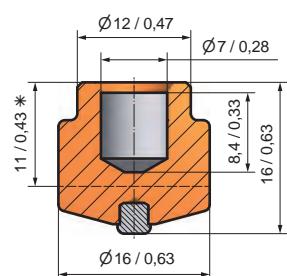
BETEK TungStuds are on the front line when material is produced or processed. The TungStuds which are equipped with a tungsten carbide core are the first to come into contact with the material to be conveyed and are subjected to extreme abrasion. In addition to the wear protection through the TungStuds, the bound material to be conveyed is used as a material cushion. This means the direct abrasion of the metal surface due to the movement of materials is reduced.

Instead of expensive spare parts which may be required due to worn-down metal surfaces, it is only necessary to replace the TungStuds. When using BETEK TungStuds also the maintenance outlay is reduced. Because of their tungsten carbide core they can resist to the most extreme conditions.

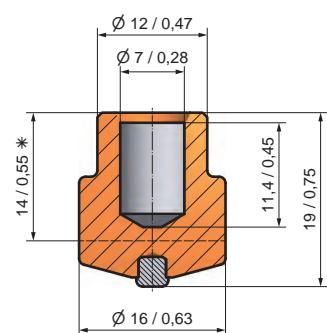
Further information: [www.betek.de/de/produktprogramm/tungstuds](http://www.betek.de/de/produktprogramm/tungstuds)



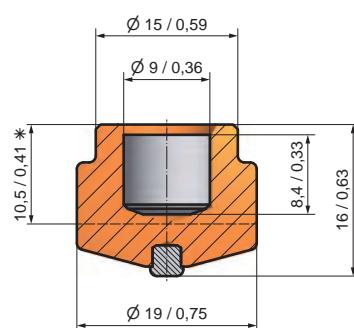
\* Height subsequent to welding on



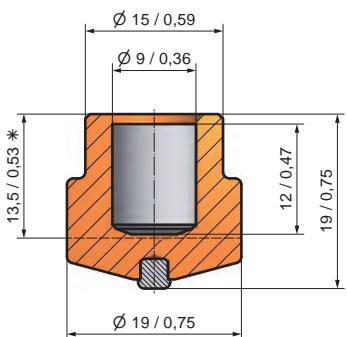
**BTS01** 150  
BTSD16/16



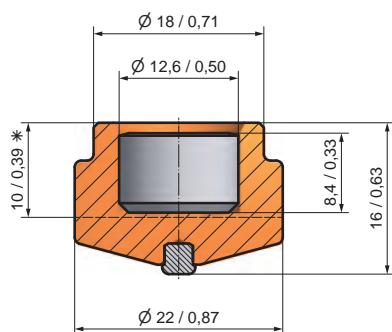
**BTS02** 150  
BTSD16/19



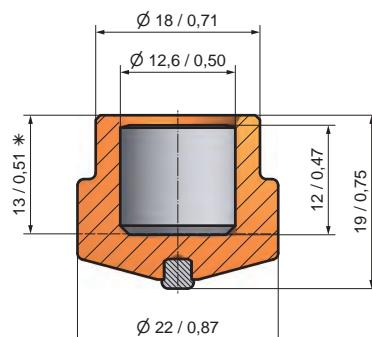
**BTS03** 150  
BTSD19/16



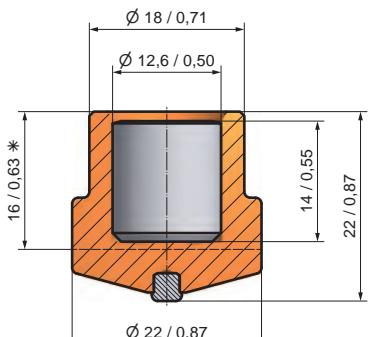
**BTS04** 150  
BTSD19/19



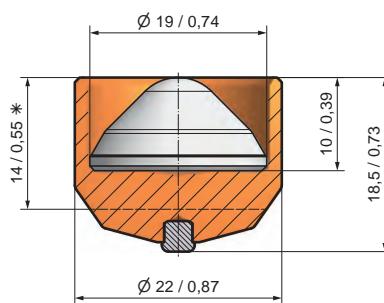
**BTS05** 100  
BTSD22/16



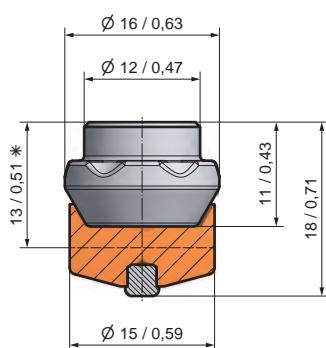
**BTS06** 100  
BTSD22/19



**BTS07** 100  
BTSD22/22



**BTS08** 100  
BTSD22/18SG



**BTS10B** 150  
BTSD16/18B



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