ENVIRONMENTAL TECHNOLOGIES

FORESTRY & RECYCLING
IN USE WORLDWIDE

BETEK TUNGSTEN CARBIDE TOOLS

ENVIRONMENTAL TECHNOLOGIES

- AGRICULTURE
- GRADER TOOLS
- FORESTRY & RECYCLING
Steel and 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!
BETEK
HIGH-TECH TOOLS

THE CREATION OF

CUSTOMER SERVICE
- Efficient, customised solutions based on flexible structures
- Personalised, quick response to customer requirements

DEVELOPMENT & CONSTRUCTION
- Quick creation of samples and prototypes
- Competitive pricing thanks to close cooperation with all production units

TUNGSTEN CARBIDE MANUFACTURING
- High-purity raw materials are used for high strength
- Consistently high, pore-free tungsten carbide quality through precise process control thanks to years of experience and know-how

SOLDERING PRODUCTION UNIT
Production facilities and processes specially developed to perfection by experts in the combination of tungsten carbide and steel
AUTOMATION

Maintaining a competitive edge on the global market thanks to a high degree of automation and flexible manufacturing facilities

QUALITY ASSURANCE

Continuous quality testing of the entire manufacturing chain all the way up to the installation site, in conformity with DIN ISO 9001:2000 and DIN EN ISO 14001

TRAINING

User training courses at BETEK or on-site for sustainable, long-term commercial success and customer satisfaction

LOGISTICS

Quick responses thanks to:
- the use of the very latest IT and enhanced logistics networking
- Standard products kept in stock

OUR KNOW-HOW COMBINED WITH STATE-OF-THE-ART PRODUCTION TECHNOLOGIES GUARANTEES THE FINEST QUALITY, MADE IN GERMANY
Tools „Made in Germany”

› Experienced, flexible partner for OEM tungsten carbide tools

› Customized development of the tools in close cooperation with well-known OEM machine manufacturers

› BETEK provides the optimum tungsten carbide grade for each application, even for the most severe conditions

› State-of-the-art technology in engineering and production
BETEK is a leading international manufacturer of tungsten carbide and tungsten carbide equipped wear parts. With its 30 years of experience in the production of innovative products BETEK is the first choice for your applications: BETEK tungsten carbide tools are developed and tested in conjunction with machine manufacturers for road construction, rehabilitation and asphalt crushers, as well as with manufacturers of mulchers, wood chippers, shredders – for example for plastic and wood – and other forestry and agricultural machines. Tungsten carbide grades are matched exactly to application areas in terms of hardness and durability, ensuring high performance and break resistance. In combination with high quality steel bodies BETEK manufactures tool systems that provide excellent support to the performance of modern machines. A high degree of efficiency is guaranteed through the balance of wear between the tungsten carbide and the steel body, thus ensuring complete use of the tungsten carbide wear part.

› YOUR ADVANTAGES

- Substantially higher life time than conventional steel tools*
- Consistent crushing quality
- Durable and long lasting cutting edges
- No wear related adjustment necessary
- Long term performance due to premium materials
- Time and cost savings due to reduced wear part changes
- Optimised machine performance
- Reduced fuel consumption
- Cost savings in working capital as a result of reduced stock levels of tools

*5 – 10 times, e.g. for anvils (depending on machine type, working speed and consistency of the material to be crushed).
MULCHERS

▷ SEPPi

- BFS560
  BFS103x58x53
- BFS598
  BFS103x58x53/1
- BFS762
  BFS114x59x53
- BFS813
  BFS175x63x54
- BFS99
  BFS105x70x56, Ø = 36
- BFS18
  BFS105x70x56/1, Ø = 31
- BFS554
  BFS114x77x72, Ø = 31
- BFS537
  BFS109x72x63, Ø = 31
- BFS538
  BFS108x72x64, Ø = 31

DISCLAIMER:

SHOWN BRAND IS A REGISTERED TRADEMARK. THE PARTS SHOWN ARE NOT APPROVED OR ENDORSED BY THE MANUFACTURER.
MULCHERS

MISC.

- **BFS142**
  - BFS45x40x83/2
  - Quantity: 20

- **BFS285**
  - BFS40x40x78/7
  - Quantity: 20

- **BHS65**
  - BHS163x139x36
  - Quantity: 5

- **BHS94**
  - BHS129x99x36
  - Quantity: 5

- **BHS95**
  - BHS118x99x36
  - Quantity: 5

- **BFS285 + BHS65**

![Mulchers Image]
WOOD GRINDERS

› DURATECH

- BFS153  
  BFS70x70x46/1

- BHS15  
  BHS29x241x60

- BFS140  
  BFS195x117x30/4

- BFS146  
  BFS195x117x30/1

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MOBILE STONE CRUSHERS

PTH

- BFS617
  BFS129x91x84/5

- BFS806
  BFS131x93x82

- BFS866
  BFS103x54x40

- BFS424
  BFS482x85x41

- BHS59
  BHS318x60x60

- BFS505
  BFS180x100x20

- BFZ365-ENG
  BFZ68x40/3

- BFZ278
  BFZ68x40

- BFZ279
  BFZ68x40/2

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STUMP CUTTERS

**RAYCO | UFKES | VERMEER**

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WELD-ON TEETH

GENERAL WEAR PARTS

- BFZ133
  BFZ60x19/2
  100
- BFZ327
  BFZ42x40x23/1
  50
- BFZ326
  BFZ38xM
  50
- BFZ345
  BFZ60x49x38
  25
- BFZ25L
  BFZ25-L
  50
- BFZ25R
  BFZ25-R
  50
TUNGSTEN CARBIDE IS NOT JUST TUNGSTEN CARBIDE

High levels of hardness in combination with optimum durability and aligned to the specific purpose ensure the tools have exceptional life time.

Since best quality comes first at BETEK, we only use the highest quality and purest raw materials.

BRAZING

TUNGSTEN CARBIDE AND STEEL – TIGHTLY BONDED FOR THE TOUGHEST REQUIREMENTS

The key components of BETEK tools are tungsten carbide and steel: Tungsten carbide for the wear-resistant cutting edge and the additional protection of the steel body, steel for the base body. To permanently connect the two materials, innovative processes and special brazing facilities have been developed at BETEK. The brazing of the two materials occurs under the continuous monitoring and documentation of the manufacturing parameters.
FLEXIBLE WEAR PROTECTION

› INDUSTRIES

- Ground Engaging Tools
- Mining
- Agriculture
- Forestry & Recycling
- Material transport
- Industrial Applications
- Crushing and Mixing

› BeCoat® HARDFACING TYPES

YOUR FLEXIBLE PARTNER AGAINST WEAR

FeCr hardfacing  
NiCr + FTC hardfacing  
TC grit hardfacing

› BeCoat® ADVANTAGES

- Cost reduction due to less downtime
- Coating thickness ≤ 6mm
- Evenly distributed fused tungsten carbide (FTC) and low dilution
- Engineering and consulting
- Proven to withstand even the harshest environments