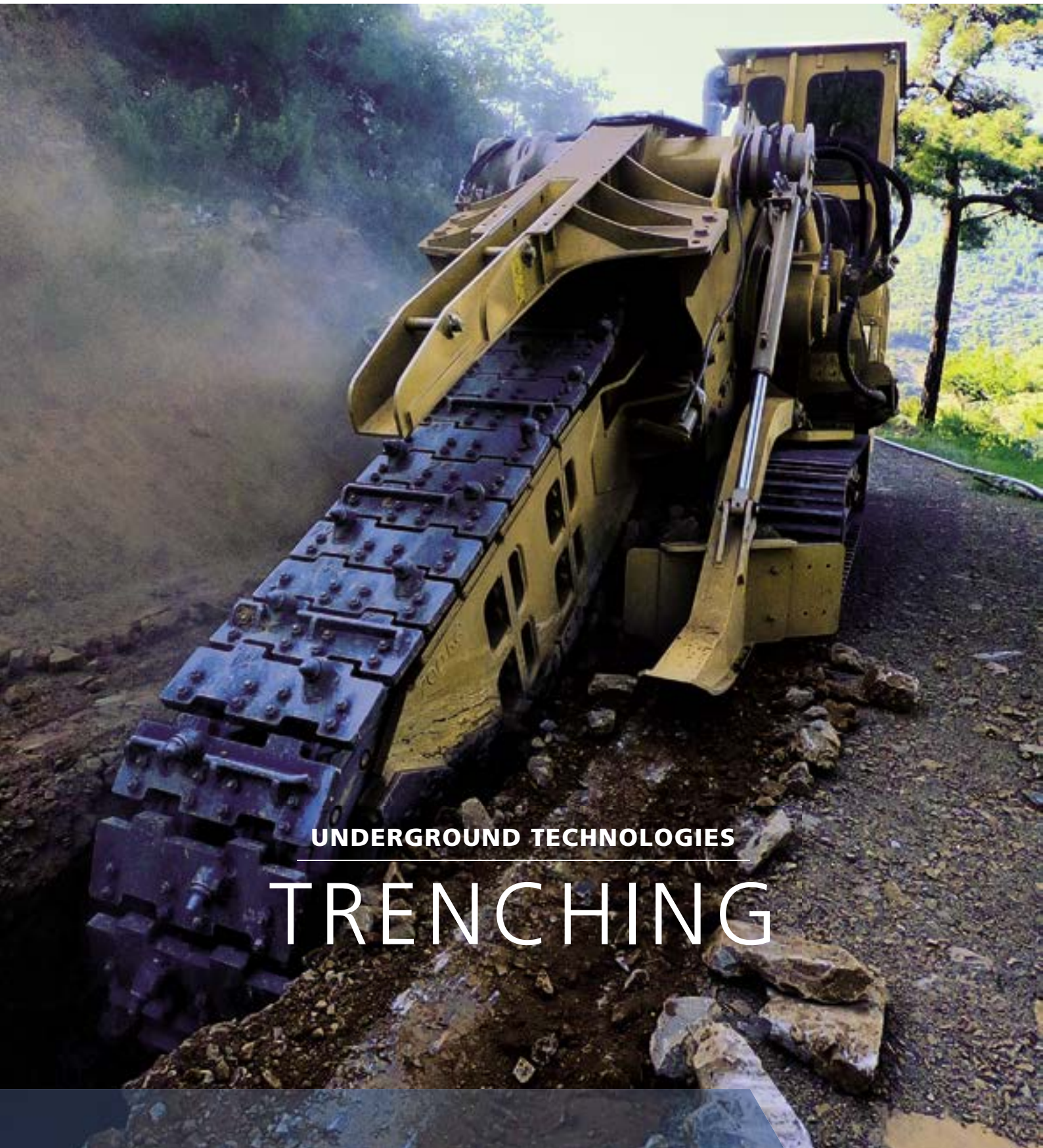




MADE IN GERMANY



UNDERGROUND TECHNOLOGIES

TRENCHING

BETEK TUNGSTEN CARBIDE TOOLS



UNDERGROUND
TECHNOLOGIES

- FOUNDATION DRILLING
- MINING
- TRENCHLESS
- TRENCHING
- TUNGSTUDS
- DRUM CUTTERS

IN USE WORLDWIDE

TUNGSTEN CARBIDE AND STEEL

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



1

CUSTOMER SERVICE

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



2

DEVELOPMENT & CONSTRUCTION

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



3

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



4

SOLDERING PRODUCTION UNIT

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



5

AUTOMATION

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



6

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



7

TRAINING

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



8

LOGISTICS

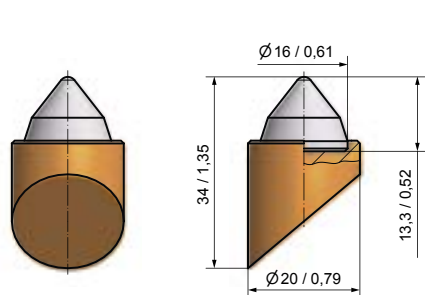
Quick responses thanks to:

- 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

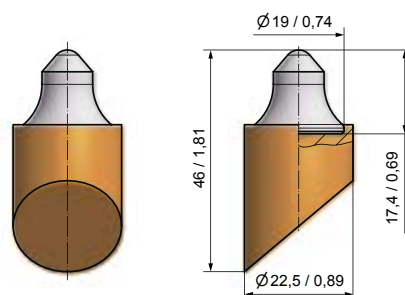


WELD-ON TEETH



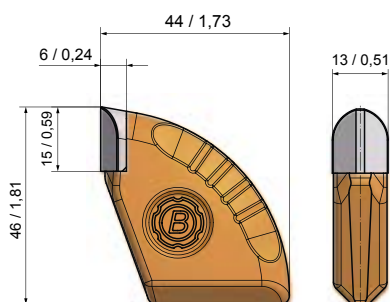
■ **BFZ158**

BFZ3



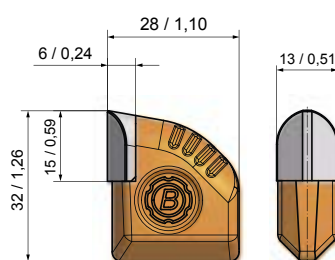
■ **BFZ233**

BFZ6



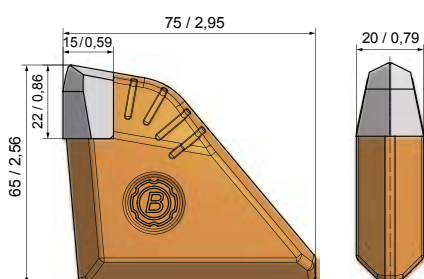
■ **BFZ318**

BFZ46x44x13



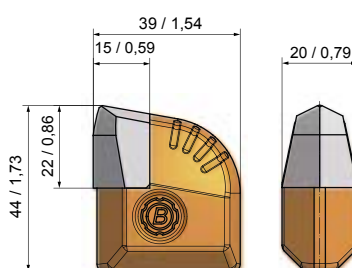
■ **BFZ321**

BFZ32x28x13



■ **BFZ319**

BFZ75x65x20

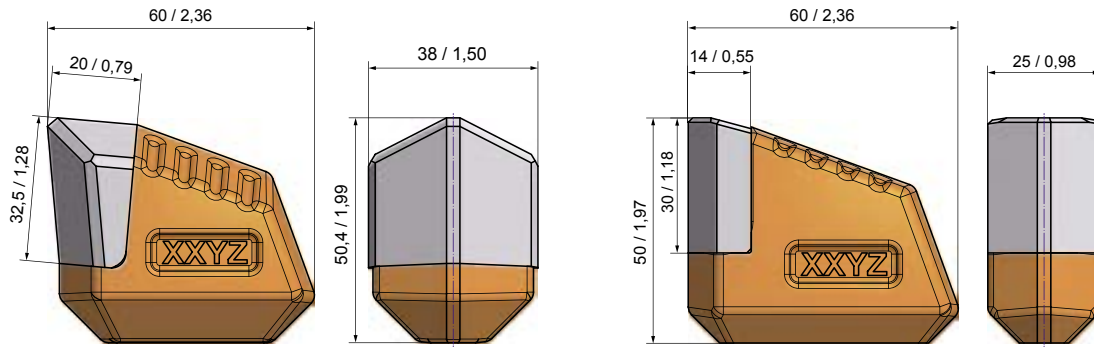


■ **BFZ320**

BFZ44x39x20



WELD-ON TEETH



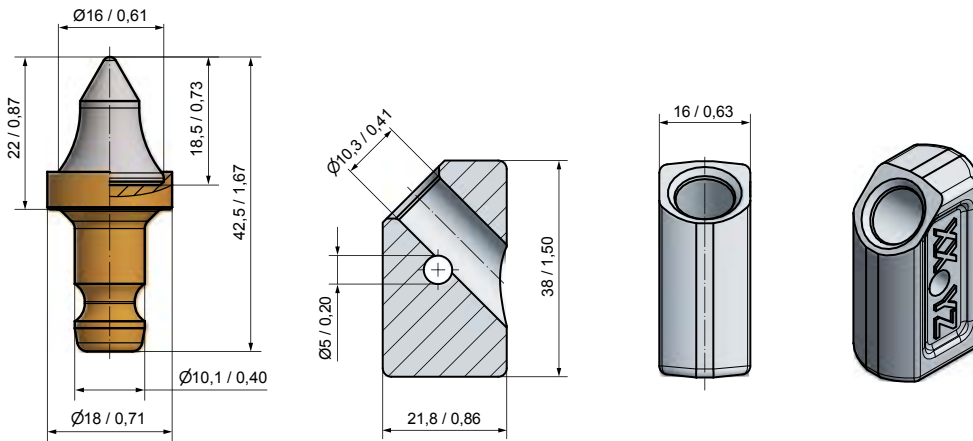
■ **BFZ326**
BFZ38/M 

■ **BBM75**
BBM25x50 



ROUND SHANK CUTTER BITS

► SHANK SYSTEM – Ø 10,1 MM/0,40 "



■ BM92

BG10S-61.1822

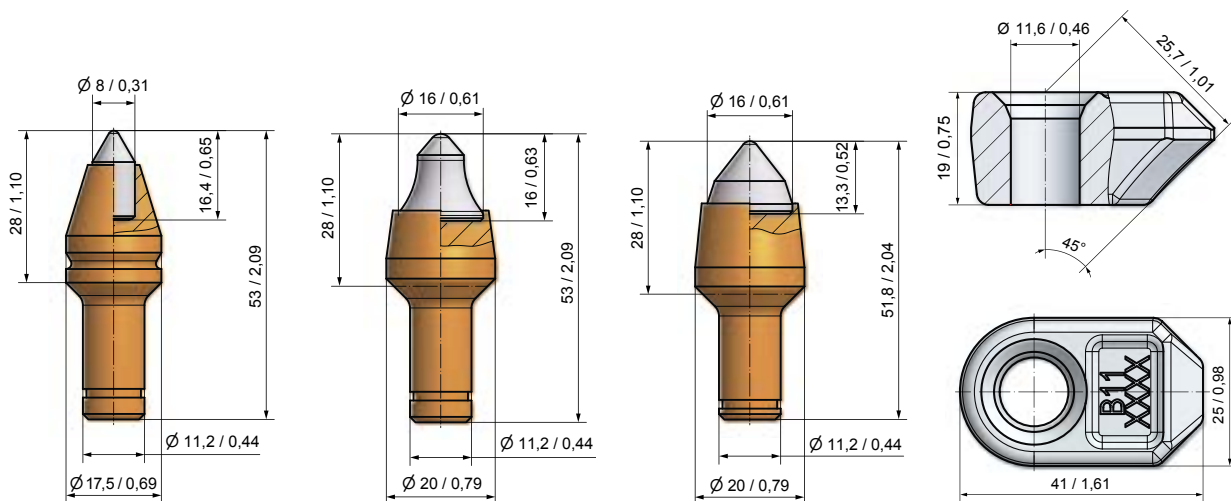


■ BHR256

B10.1645



► SHANK SYSTEM – Ø 11,2 MM/0,44 "



■ BM11

BM8-11.3



■ BM10

BG11W-61.2028



■ BM46

BM3-11.3



■ BHR03

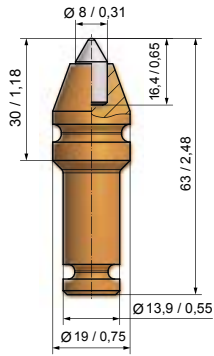
B11



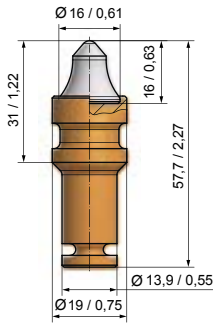
ROUND SHANK CUTTER BITS



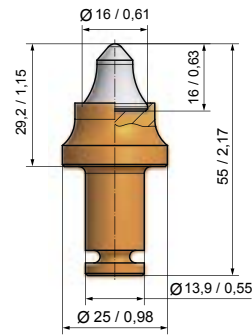
▶ SHANK SYSTEM – Ø 14 MM/0,55"



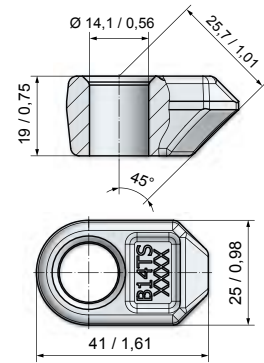
■ **BM84**
BG14X-08.1930



■ **BM44**
BM4-14



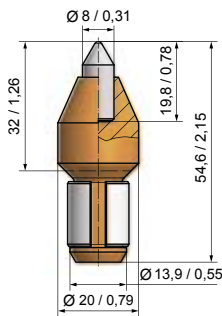
■ **BM76**
BM4-14/TS



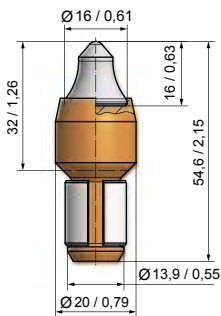
■ **BHR171**
B14-TS



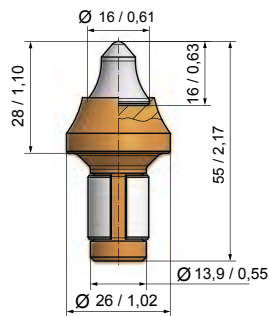
▶ SHANK SYSTEM – Ø 14 MM/0,55"



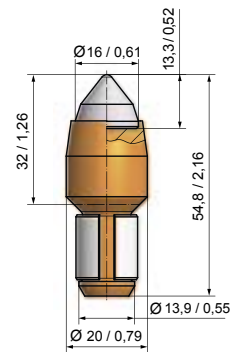
■ **BM56**
BM8-14/2



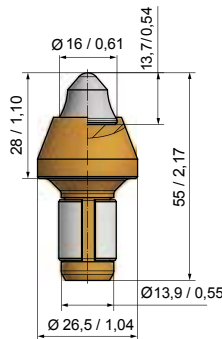
■ **BM55**
BM4-14/2



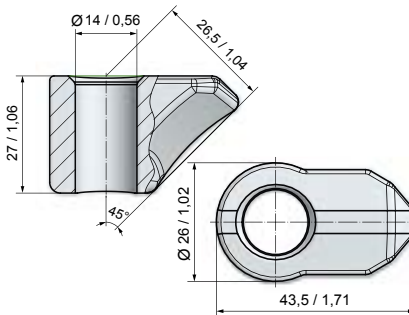
■ **BM82**
BM4-14/3



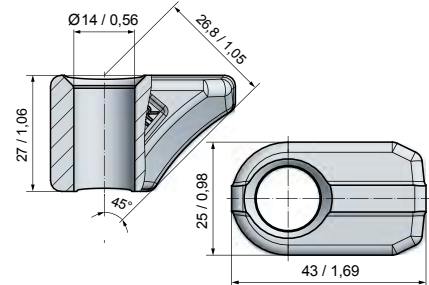
■ **BM60**
BM3-14/H



■ **BM93**
BG14H-61.2728



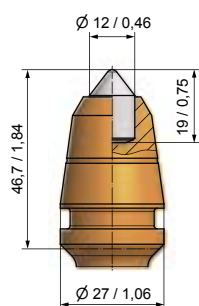
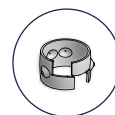
■ **BHR109**
B14



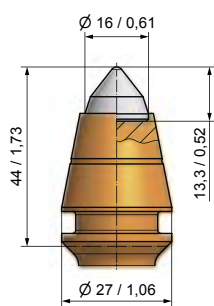
■ **BHR260**
B14.2545



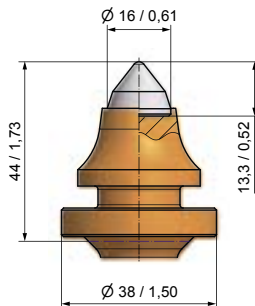
► SHANK SYSTEM – Ø 18,7 MM/0,74"



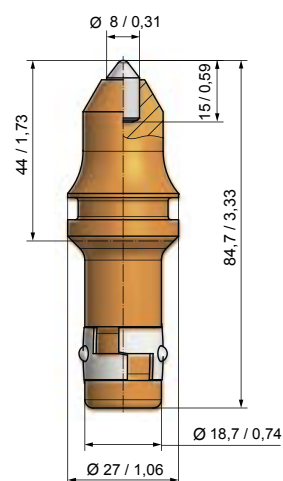
■ **BTR02**
B43HDK12



■ **BTR03**
B43/3



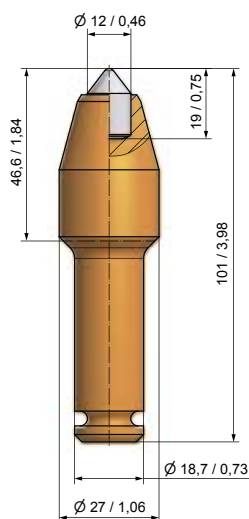
■ **BTR09**
BG19K-60.3844



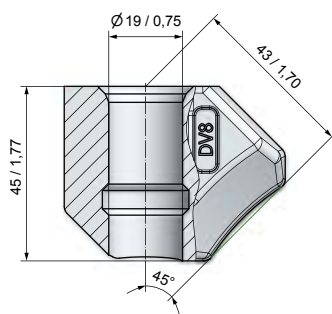
■ **BTR01**
B43K8



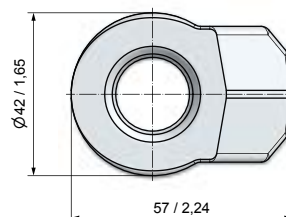
► SHANK SYSTEM – Ø 18,7 MM/0,74"



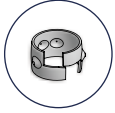
■ **BTR07**
B43K12KS



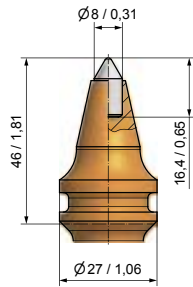
■ **BHR20**
DV8



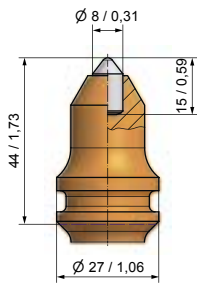
ROUND SHANK CUTTER BITS



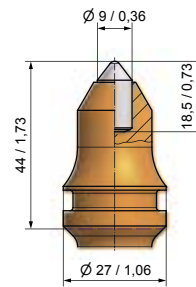
► SHANK SYSTEM – Ø 19,4 MM/0,76"



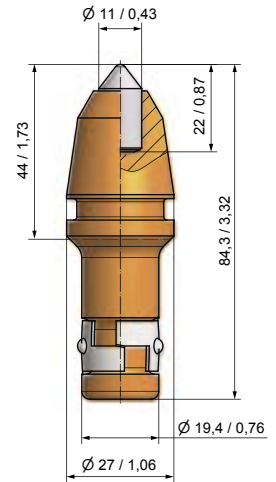
■ **BSK19**
B1K8-K 



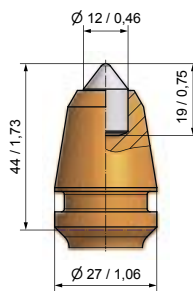
■ **BSK22**
B1K8-K/2 



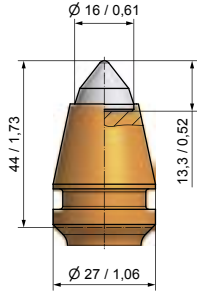
■ **BSK15**
B1K9-K 



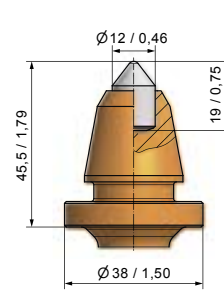
■ **BSK16**
B1HDK11-K 



■ **BSK17**
B1HDK12-K 



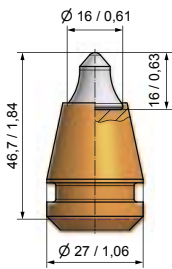
■ **BSK23**
B3-K/2 



■ **BSK21**
B1-12/38-K 

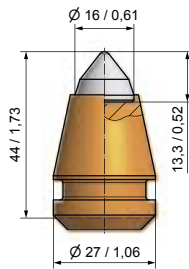


► SHANK SYSTEM – Ø 19,4 MM/0,76"



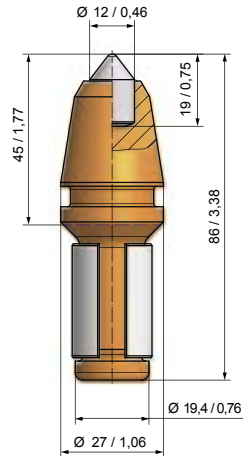
■ **BSH204**

B4



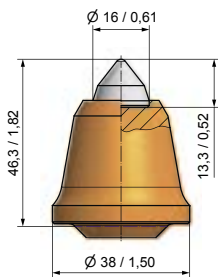
■ **BSH09**

B3



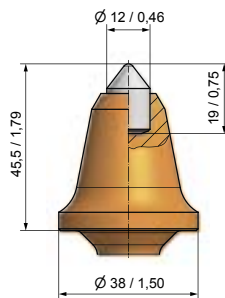
■ **BSH05**

B1HDK12



■ **BSH211**

BG20H-60.3846

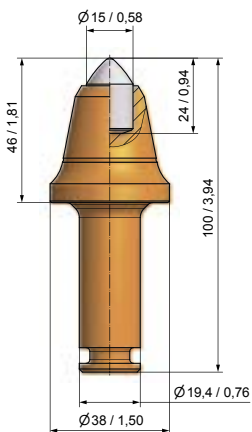


■ **BSH210**

B1-12/38

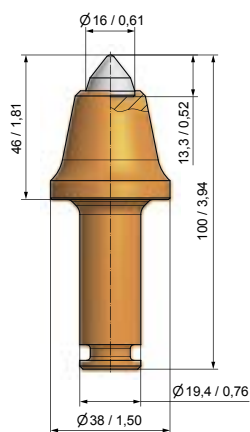


► SHANK SYSTEM – Ø 19,4 MM/0,76"



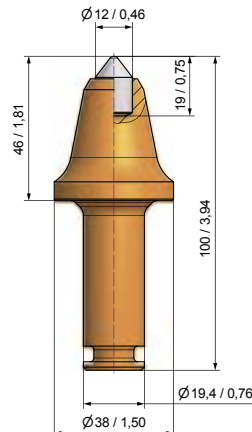
■ **BC68**

BG20F-15.3846



■ **BC26**

B3KS



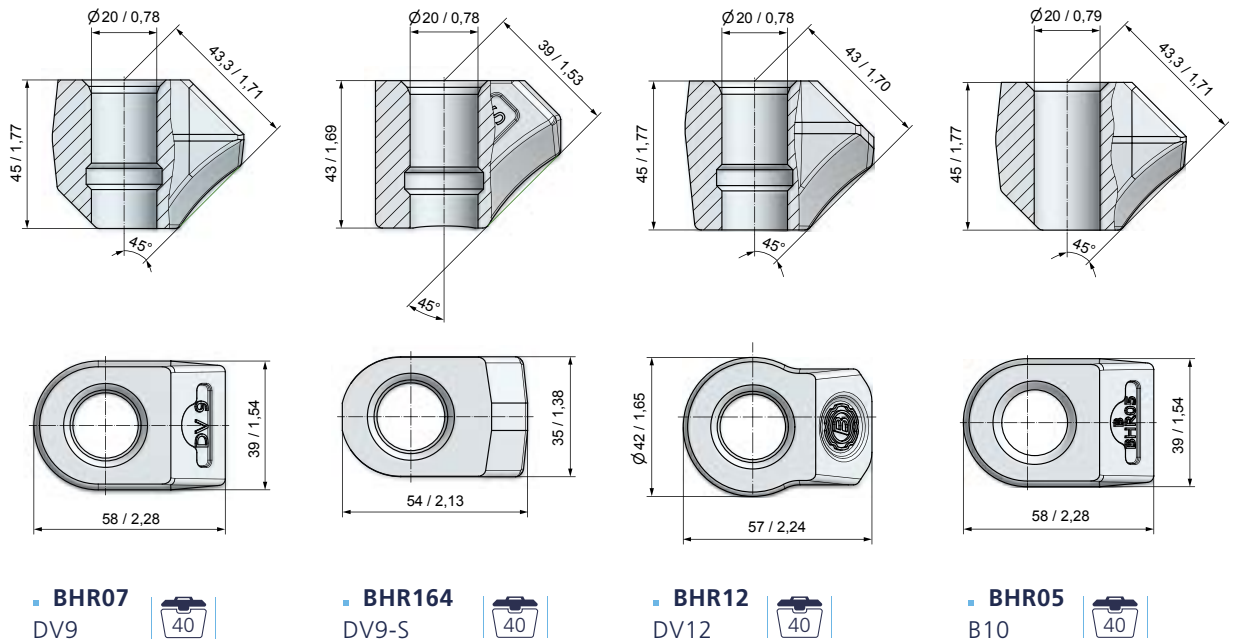
■ **BC82**

BG20F-12.3846

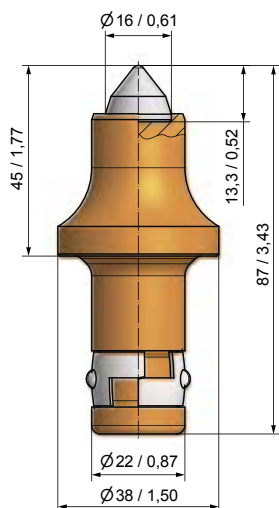
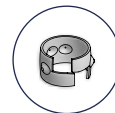


ROUND SHANK CUTTER BITS

► SHANK SYSTEM – Ø 19,4 MM/0,76"



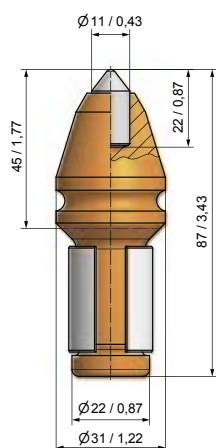
► SHANK SYSTEM – Ø 22 MM/0,87"



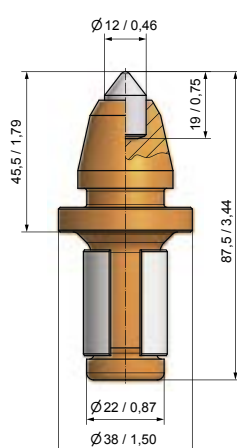
■ **BC58**
B3S/22-K



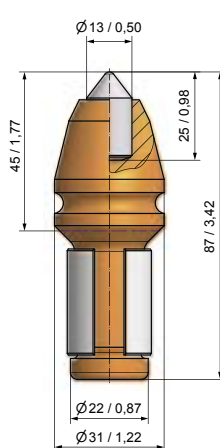
► SHANK SYSTEM – Ø 22 MM/0,87"



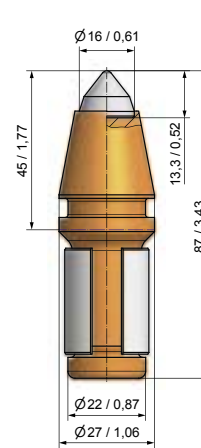
■ **BC05**
B1HDK11/22



■ **BC60**
B1-12/22



■ **BC06**
B1HDK13/22



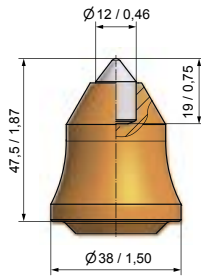
■ **BC49**
B3/22



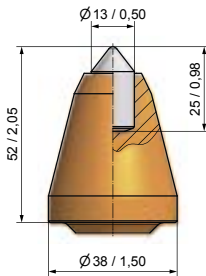
ROUND SHANK CUTTER BITS



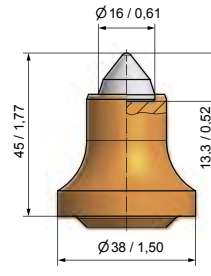
► SHANK SYSTEM – Ø 22 MM/0,87"



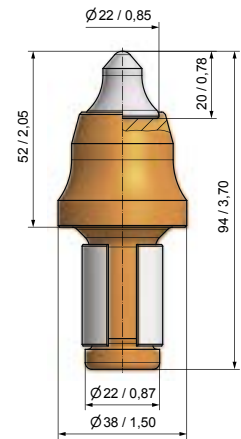
■ **BC64**
B1-12/22-B 



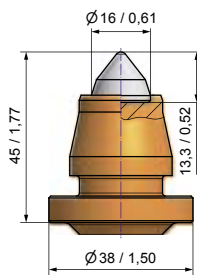
■ **BC14**
BG22H-13.3852 



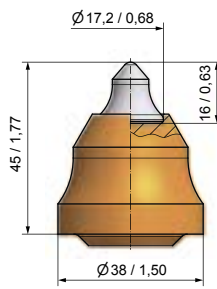
■ **BC41**
B3S/22 



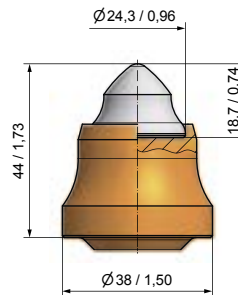
■ **BC03**
B8S/22 



■ **BC81**
BG22H-60.3845 



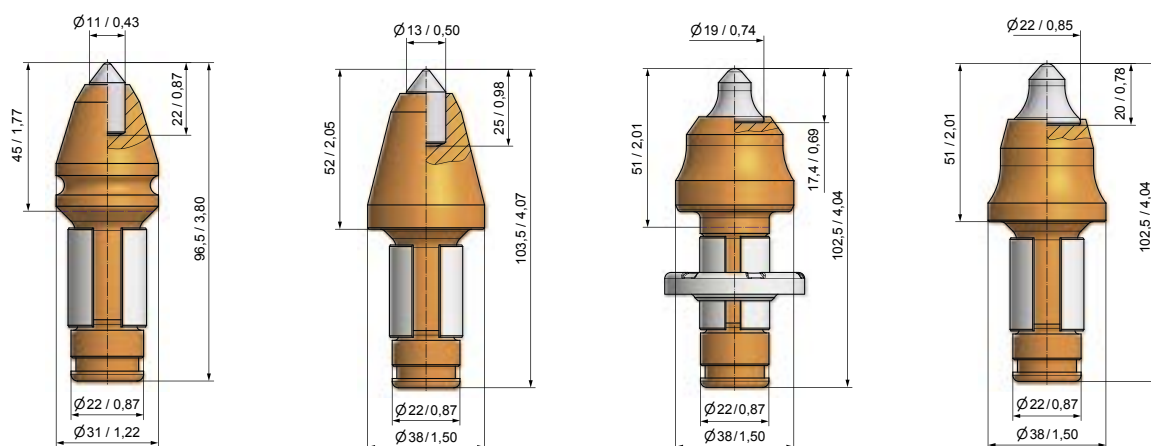
■ **BC04**
B5S/22 



■ **BC43**
B9/22 



► SHANK SYSTEM – Ø 22 MM/0,87"



■ **BC01**
B1HDK11/22/S



■ **BC15**
B1HD38/13/22/S



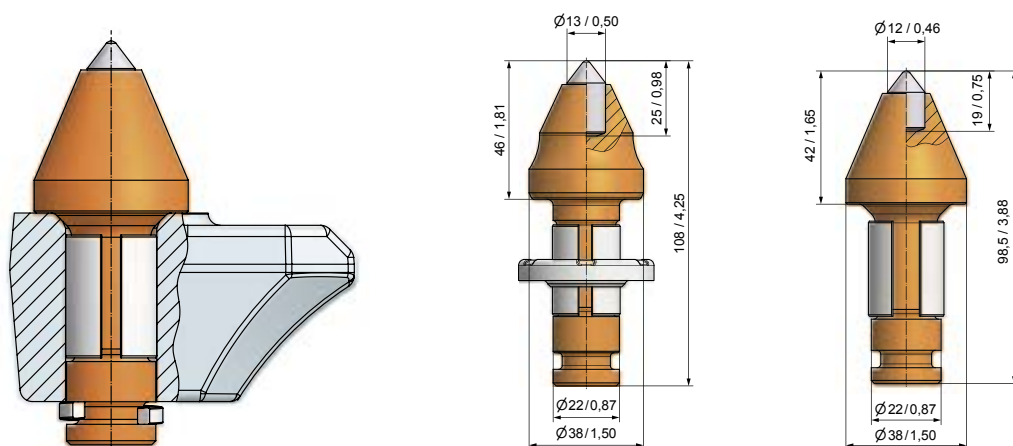
■ **BC61**
B6V/22/S



■ **BC44**
B8/22-S



► SHANK SYSTEM – Ø 22 MM/0,87"



■ **BC79**
BG22HF-13.3851



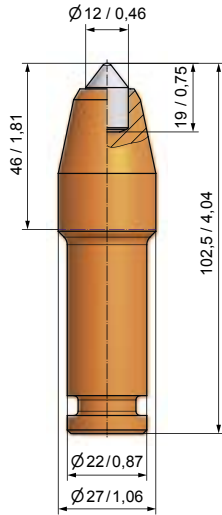
■ **BC36**
B1-12/22/SI26



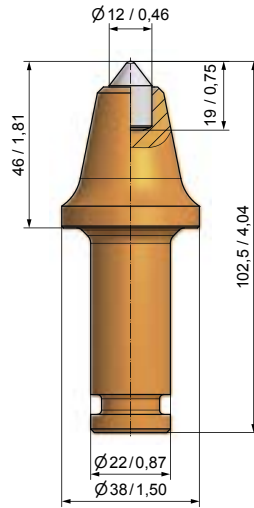
ROUND SHANK CUTTER BITS



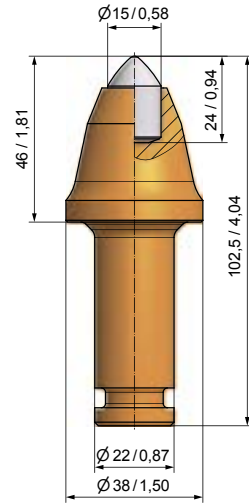
► SHANK SYSTEM – Ø 22 MM/0,87"



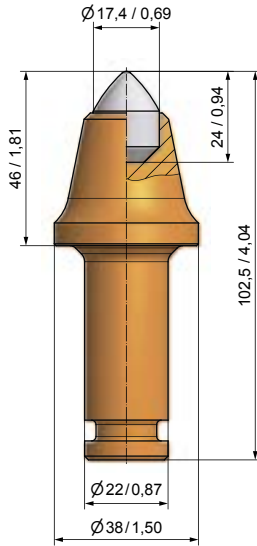
■ **BC39**
B1-12KS/22



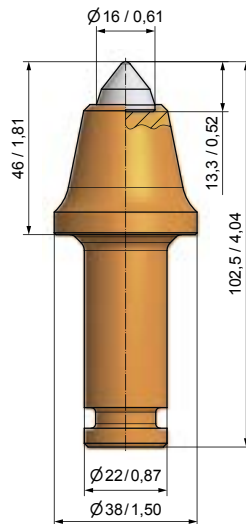
■ **BC62**
B1-12/38KS22



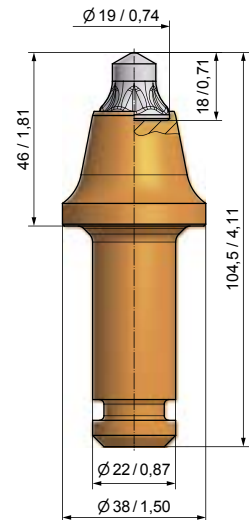
■ **BC77**
BG22F-15.3846



■ **BC56**
B1-17KS22



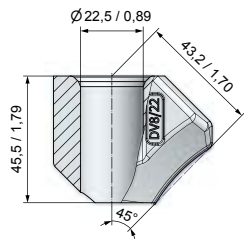
■ **BC33**
B3KS22



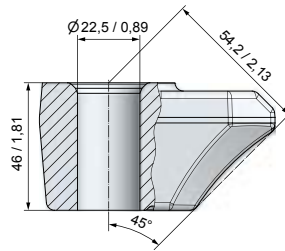
■ **BC78**
BG22F-65.3846



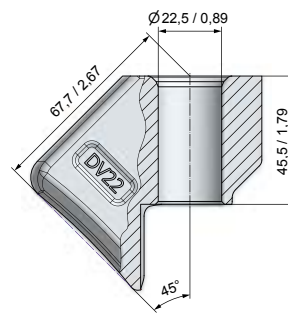
► SHANK SYSTEM – Ø 22 MM/0,87"



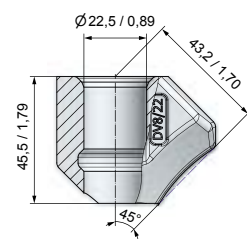
■ **BHR27**
DV8/22



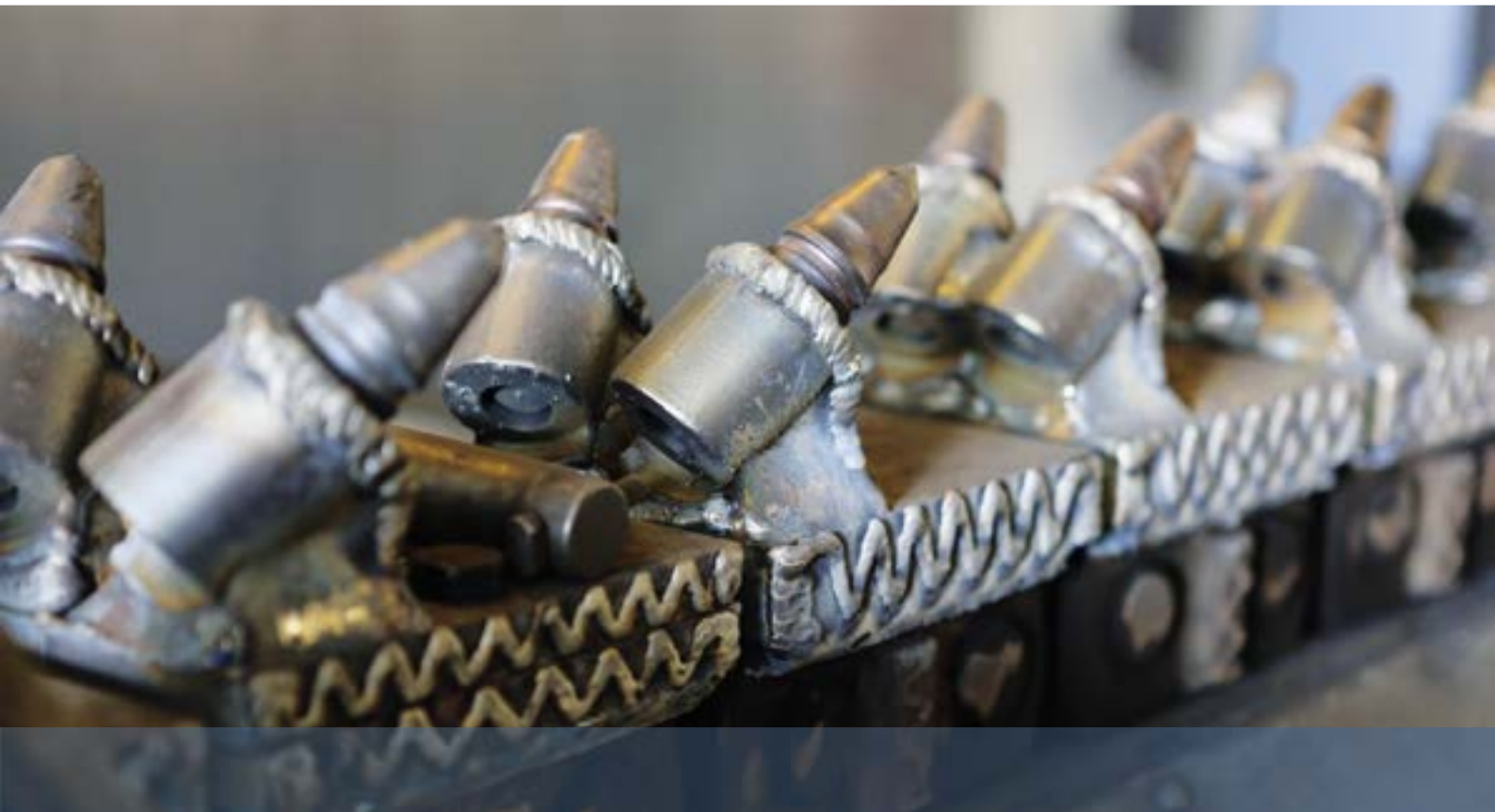
■ **BHR120**
B22S



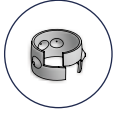
■ **BHR30**
DV22



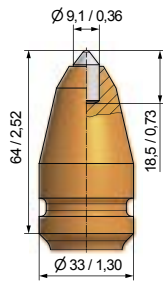
■ **BHR176**
DV8/22-K



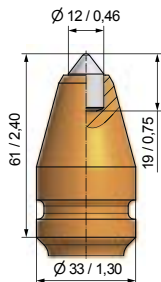
ROUND SHANK CUTTER BITS



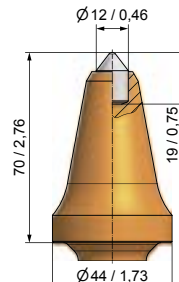
► SHANK SYSTEM – Ø 25 MM/1"



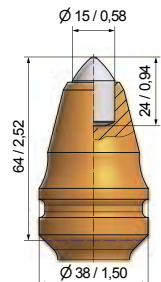
■ **BTK01**
BG25-09.3364



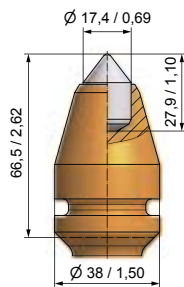
■ **BTK03**
BG25K-12.3361



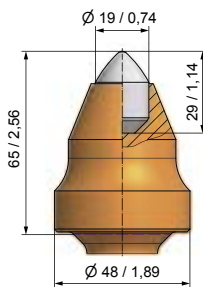
■ **BTK141**
BG25K-12.4470A



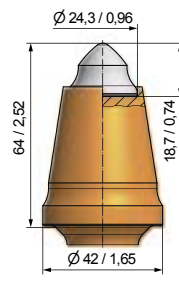
■ **BTK10**
BG25K-15.3864



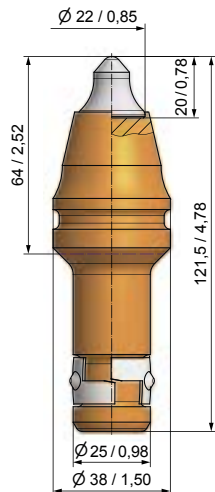
■ **BTK70**
BG25K-17.3867



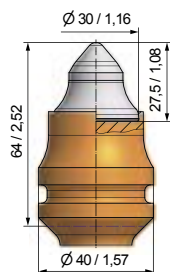
■ **BTK54**
BG25K-19.4865



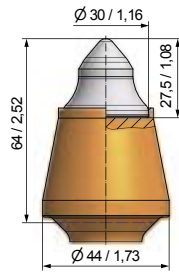
■ **BTK87**
BG25K-68.4264



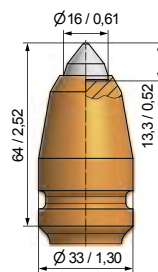
■ **BTK20**
BG25K-67.3864



■ **BTK23**
BG25K-69.4064



■ **BTK26**
BG25K-69.4464



■ **BTK16**
BG25K-60.3364

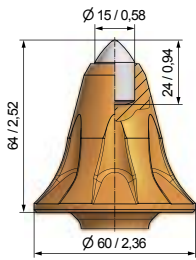
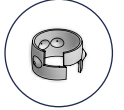




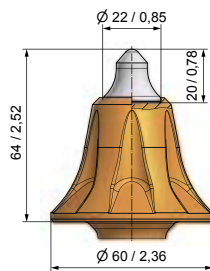


ROUND SHANK CUTTER BITS

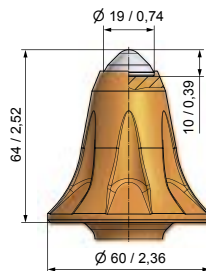
► SHANK SYSTEM – Ø 25 MM/1"



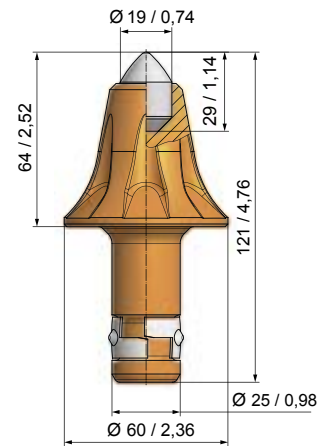
■ **BTK81**
B40HDS/60



■ **BTK80**
B4022/60



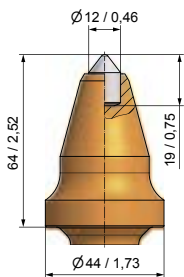
■ **BTK82**
B40SG/60



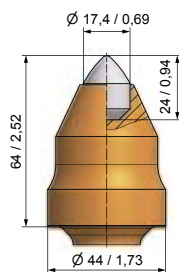
■ **BTK89**
BG25K-19.6064



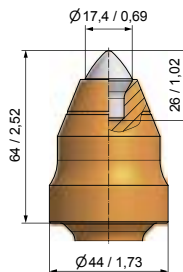
► SHANK SYSTEM – Ø 25 MM/1"



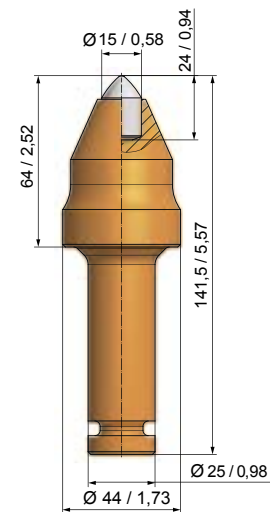
■ **BTK142**
BG25F-12.4464A



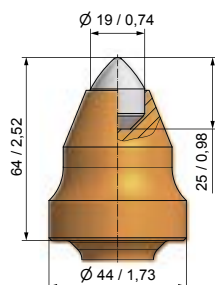
■ **BTK11**
BG25F-17.4464



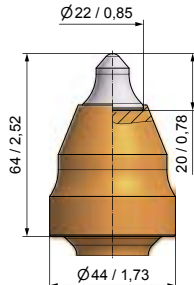
■ **BTK135**
BG25F-70.4464



■ **BTK29**
BG25F-15.4464



■ **BTK14**
BG25F-19.4464



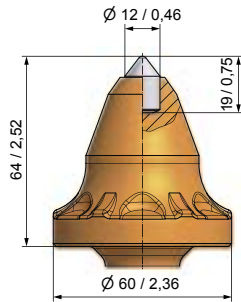
■ **BTK43**
BG25F-67.4464



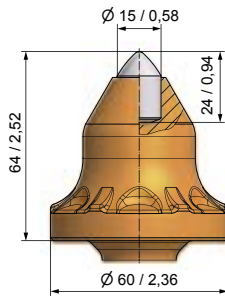
ROUND SHANK CUTTER BITS



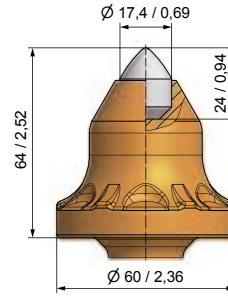
▶ SHANK SYSTEM – Ø 25 MM/1" GAUGE 64 MM/2,5"



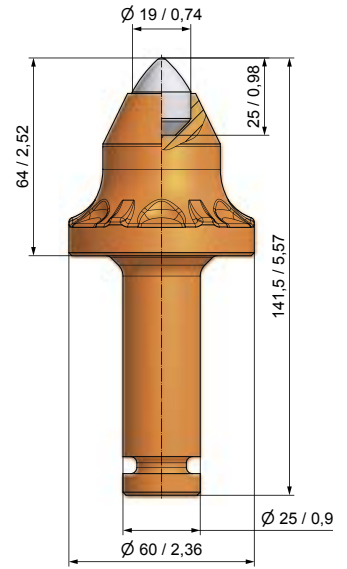
BTK114
BG25F-12.6064



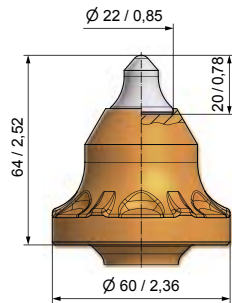
BTK120
BG25F-15.6064



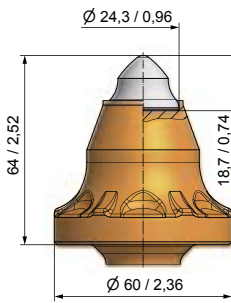
BTK121
BG25F-17.6064



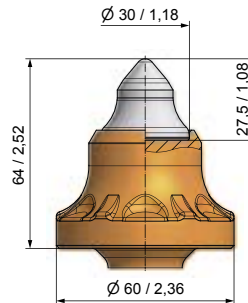
BTK122
BG25F-19.6064



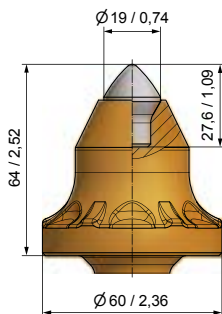
BTK123
BG25F-67.6064



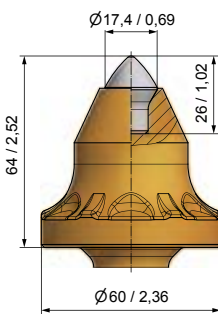
BTK124
BG25F-68.6064



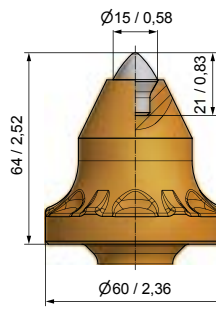
BTK125
BG25F-69.6064A



BTK143
BG25F-72.6064



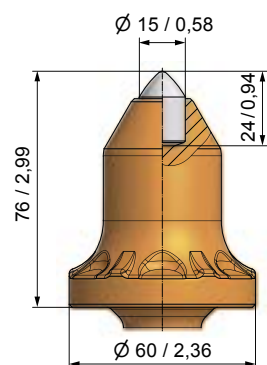
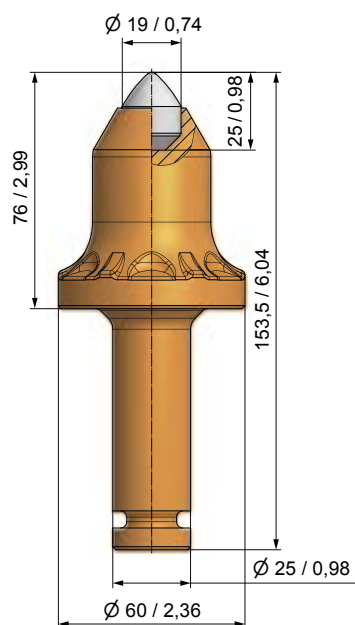
BTK150
BG25F-70.6064



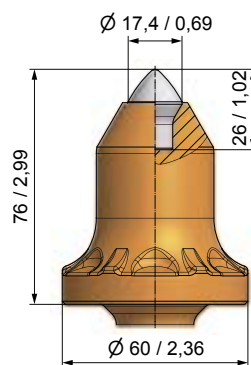
BTK151
BG25F-76.6064



► SHANK SYSTEM – Ø 25 MM/1" GAUGE 76 MM/3,0"



■ **BTK113**
BG25F-15.6076



■ **BTK126**
BG25F-70.6076A

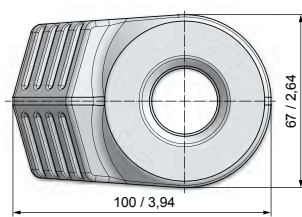
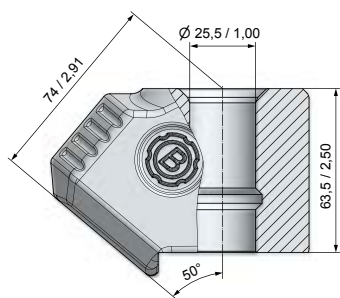


■ **BTK127**
BG25F-19.6076A

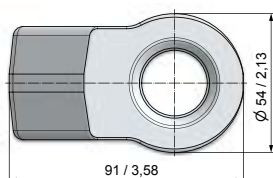
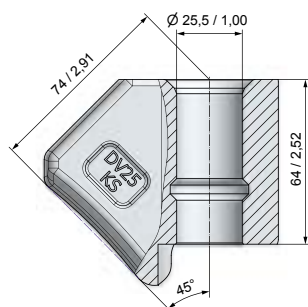




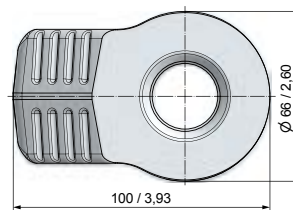
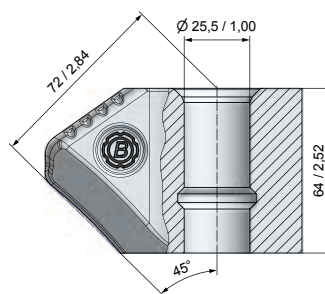
► SHANK SYSTEM – Ø 25 MM/1"



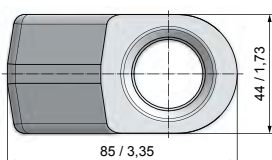
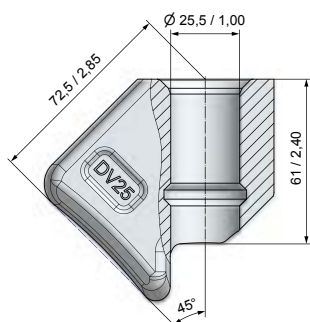
■ **BHR186**
B25.6750



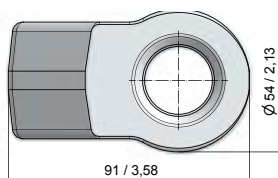
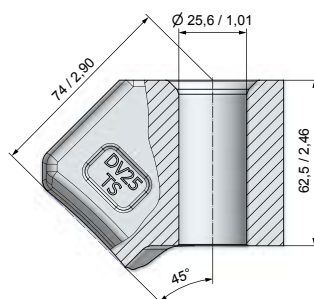
■ **BHR121**
DV25KS



■ **BHR34**
DV40VS



■ **BHR31**
DV25



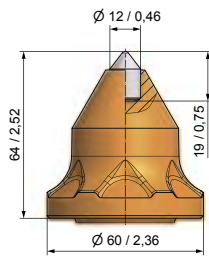
■ **BHR145**
DV25TS



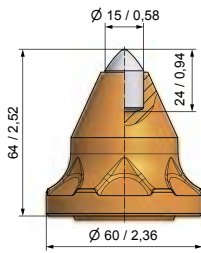
ROUND SHANK CUTTER BITS



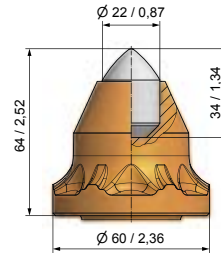
► SHANK SYSTEM – Ø 38/30 MM-1,5/1,18" GAUGE 64 MM/2,5"



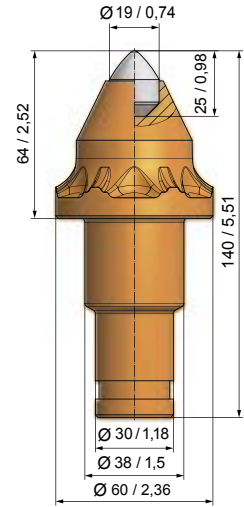
■ **BKS165**
BS38W-12.6064A



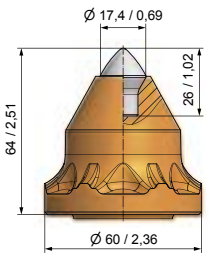
■ **BKS144**
BS38W-15.6064



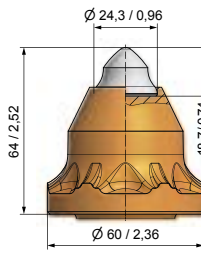
■ **BKS162**
BS38W-22.6064



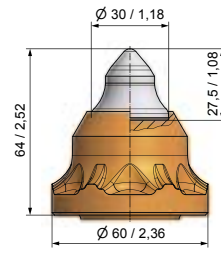
■ **BKS151**
BS38W-19.6064



■ **BKS163**
BS38W-70.6064



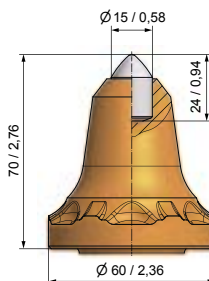
■ **BKS160**
BS38W-68.6064



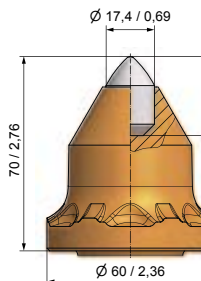
■ **BKS161**
BS38W-69.6064



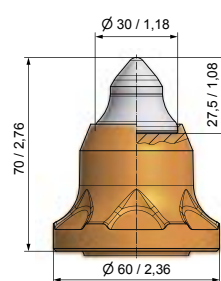
► SHANK SYSTEM – Ø 38/30 MM-1,5/1,18" GAUGE 70 MM/2,75"



■ **BKS168**
BS38W-15.6070



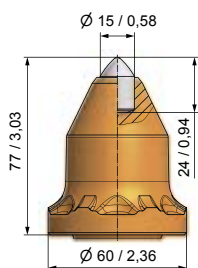
■ **BKS166**
BS38W-17.6070



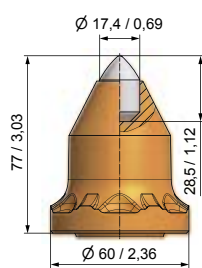
■ **BKS167**
BS38W-69.6070A



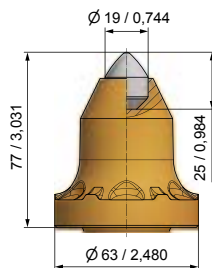
► SHANK SYSTEM – Ø 38/30 MM-1,5/1,18" GAUGE 77 MM/3,0"



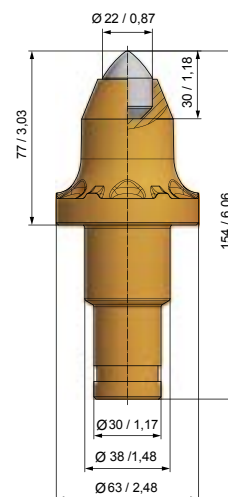
■ **BKS169**
BS38W-15.6077A



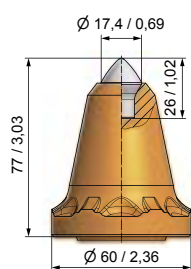
■ **BKS171**
BS38W-17.6077



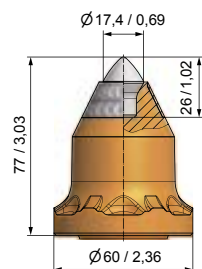
■ **BKS172**
BS38W-19.6377



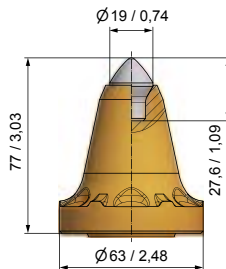
■ **BKS170**
BS38W-22.6377



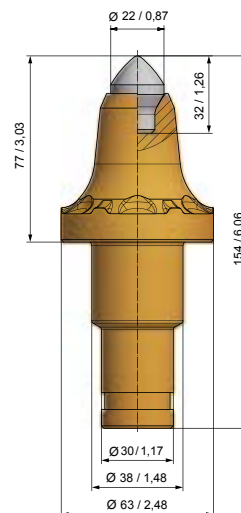
■ **BKS174**
BS38W-70.6077



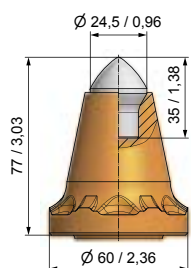
■ **BKS193**
BS38W-70.6077P



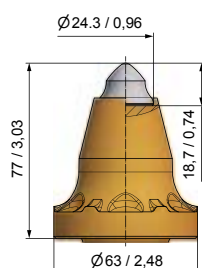
■ **BKS175**
BS38W-72.6377



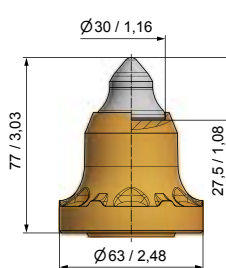
■ **BKS158**
BS38W-73.6377



■ **BKS176**
BS38W-71.6077



■ **BKS178**
BS38W-68.6377



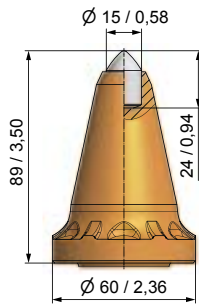
■ **BKS177**
BS38W-69.6377



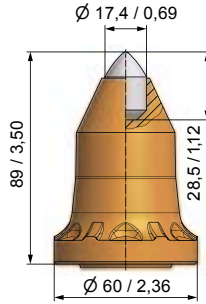
ROUND SHANK CUTTER BITS



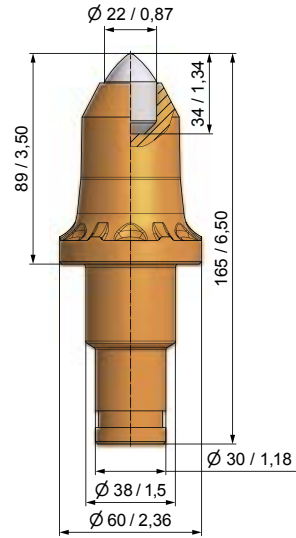
► SHANK SYSTEM – Ø 38/30 MM-1,5/1,18"
GAUGE 89 MM/3,5"



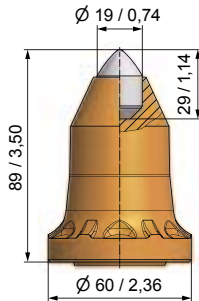
■ **BKS179**
BS38W-15.6089



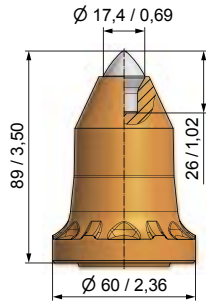
■ **BKS180**
BS38W-17.6089



■ **BKS183**
BS38W-22.6089



■ **BKS181**
BS38W-19.6089



■ **BKS182**
BS38W-70.6089

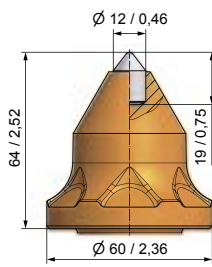




ROUND SHANK CUTTER BITS

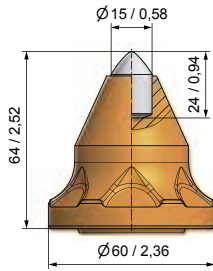


► SHANK SYSTEM – Ø 38/30 MM-1,5/1,18" GAUGE 64/68 MM-2,5/2,68"



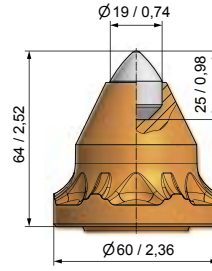
■ BKF27

BS38F-12.6064



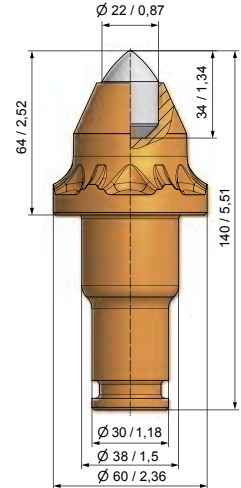
■ BKF24

BS38F-15.6064



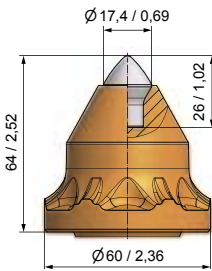
■ BKF22

BS38F-19.6064



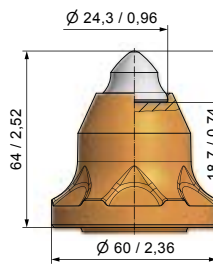
■ BKF26

BS38F-22.6064



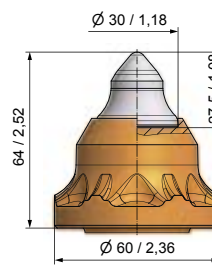
■ BKF25

BS38F-70.6064



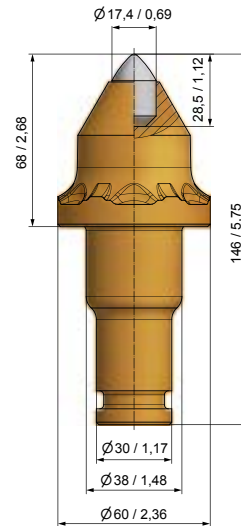
■ BKF28

BS38F-68.6064



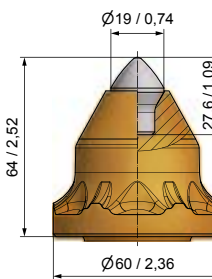
■ BKF29

BS38F-69.6064



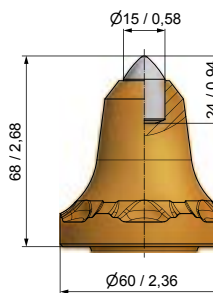
■ BKF63

BS38F-17.6068



■ BKF65

BS38F-72.6064

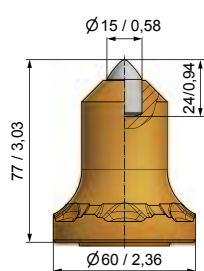


■ BKF62

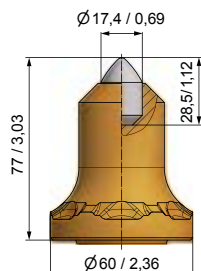
BS38F-15.6068



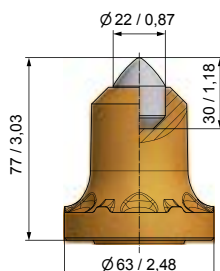
► SHANK SYSTEM – Ø 38/30 MM-1,5/1,18" GAUGE 77 MM/3,0"



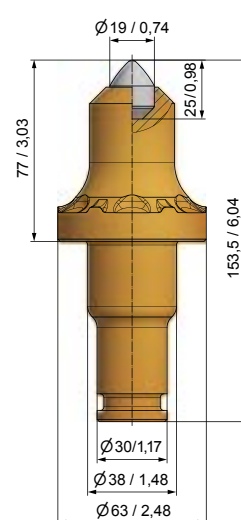
■ **BKF32**
BS38F-15.6077



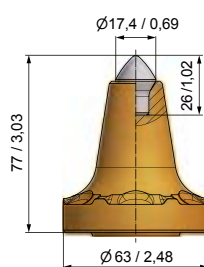
■ **BKF33**
BS38F-17.6077



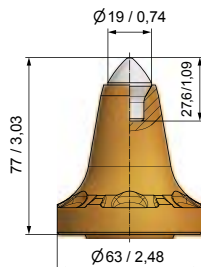
■ **BKF31**
BS38F-22.6377



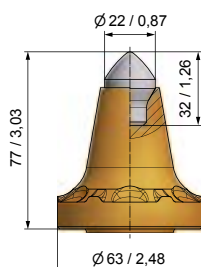
■ **BKF30**
BS38F-19.6377



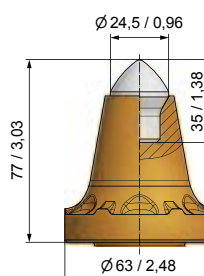
■ **BKF40S**
BS38F-70.6377S



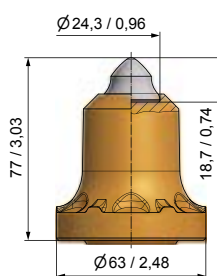
■ **BKF39S**
BS38F-72.6377S



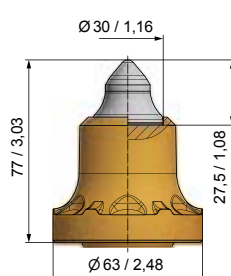
■ **BKF38S**
BS38F-71.6377S



■ **BKF36S**
BS38F-71.6377S



■ **BKF34**
BS38F-68.6377



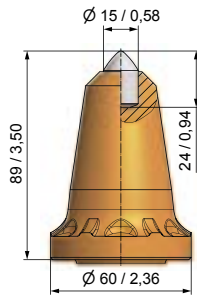
■ **BKF37**
BS38F-69.6377



ROUND SHANK CUTTER BITS

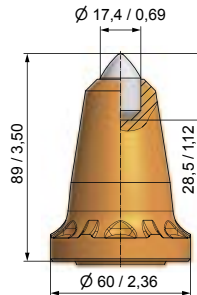


► **SHANK SYSTEM – Ø 38/30 MM-1,5/1,18"**
GAUGE 89 MM/3,5"



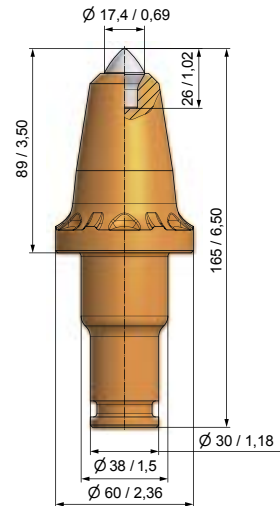
■ **BKF41**

BS38F-15.6089



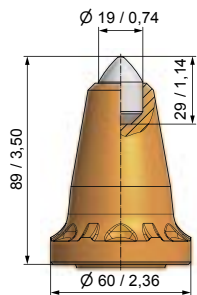
■ **BKF42**

BS38F-17.6089



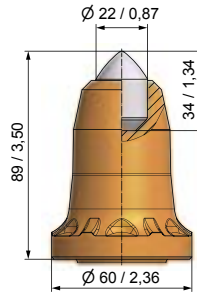
■ **BKF45**

BS38F-70.6089



■ **BKF43**

BS38F-19.6089

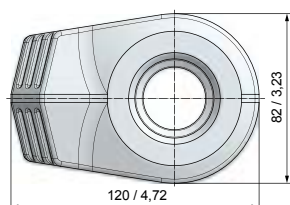
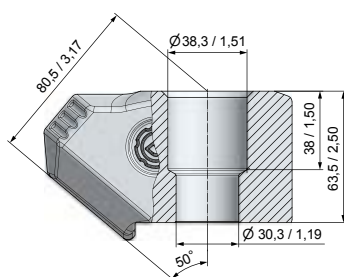


■ **BKF44**

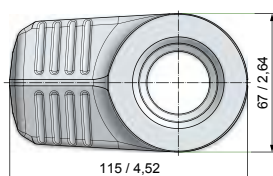
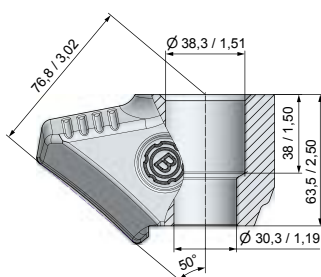
BS38F-22.6089



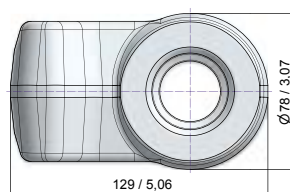
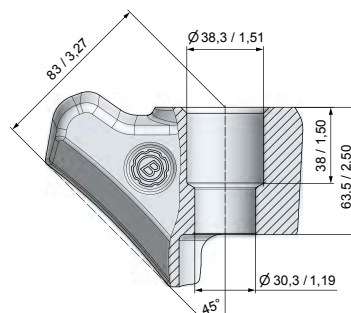
► SHANK SYSTEM – Ø 38/30 MM-1,5/1,18"



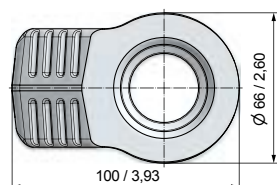
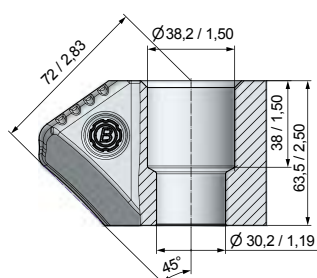
■ **BHR187**
B3830.8250



■ **BHR188**
B3830.6750



■ **BHR204**
B3830.7845



■ **BHR38**
B43H



ACCESSORIES



■ **BZ44**
Bit extractor for Mini bit



■ **BZ42**
Bit extractor for BSH
and BC-Series



■ **BZ43**
Bit extractor for BSH, BC
and BSK with lock ring



■ **BZ38**
Wedge puller for
shaft diameter 20-25



■ **BZ33**
Assembly tool for SI36



■ **BZ31**
Disassembly tool for SI36
and SR90



■ **BZ41**
Assembly tool for SI26



■ **BZ32**
Disassembly tool for SI26



■ **BZ22**
Bit puller for BTK-Series



■ **BZ37**
Assembly tool for SI79/K



■ **BZ36**
Disassembly tool for SI79/K



■ **BZ05**
Bit puller for
head diameter 60



■ **BZ35**
Assembly tool for SI239



■ **BZ34**
Disassembly tool for SI239



■ **BZ39**
Wedge puller for
shaft diameter 30-38



■ **SRZ02**
Plier for SR83/1, SR61
and SR54



■ **BZ12**
Bit puller for BKH-Series



■ **BZ18**
Bit puller with copper
disk for BKH-Series



■ **BZ16**
Bit extractor for Roll
pin with diameter 10



■ **BZ30**
Bit extractor for Roll
pin with diameter 16



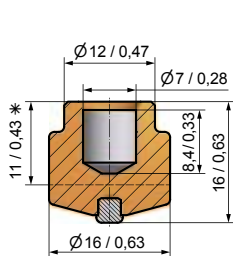
■ **BZ40**
Wedge puller for
stepshank 43/35

EXTENSIVE WEAR PROTECTION

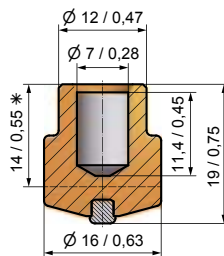


OVERVIEW

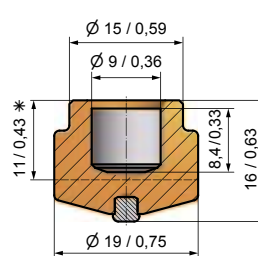
Betek can provide the appropriate stud welding machine for the TungStuds wear protection system.



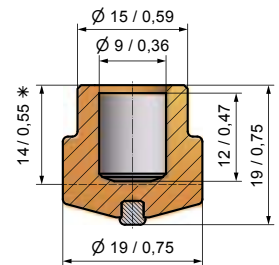
■ **BTS01** BTSD16/16



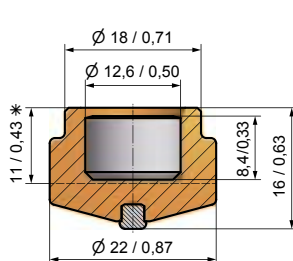
■ **BTS02** BTSD16/19



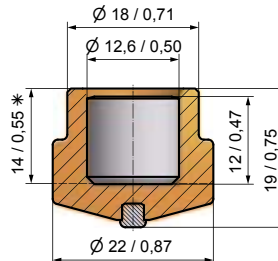
■ **BTS03** BTSD19/16



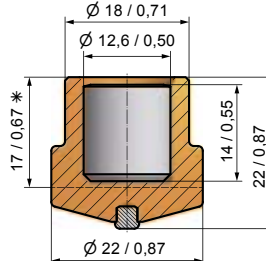
■ **BTS04** BTSD19/19



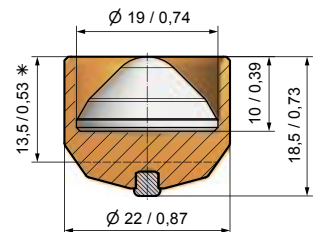
■ **BTS05** BTSD22/16



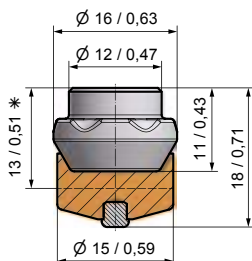
■ **BTS06** BTSD22/19



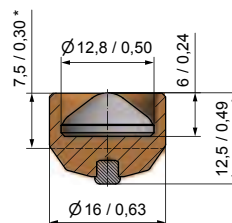
■ **BTS07** BTSD22/22



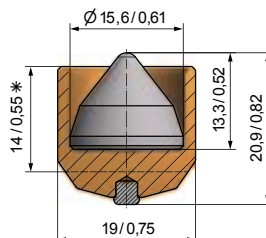
■ **BTS08** BTSD22/18,5SG



■ **BTS10B** BTSD16/18B



■ **BTS20** BTSD16/12,5SG

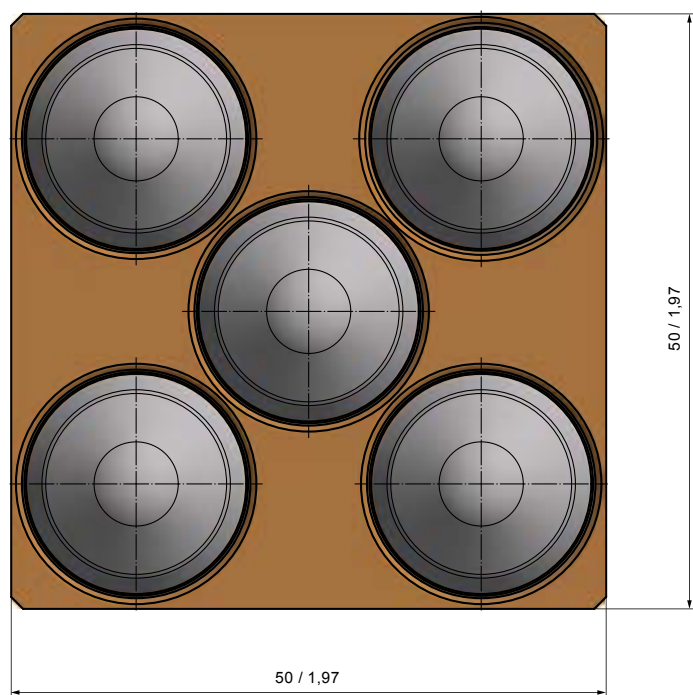
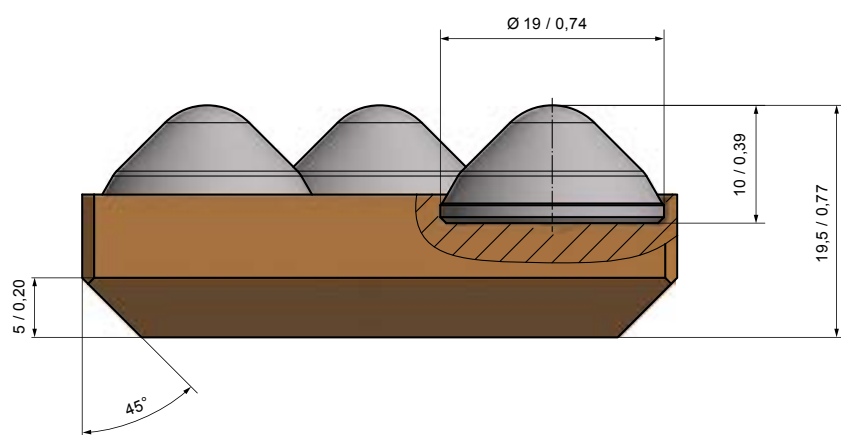


■ **BTS100** BTSD19/15,6SG



*Height after welding

> BTS-PLATES



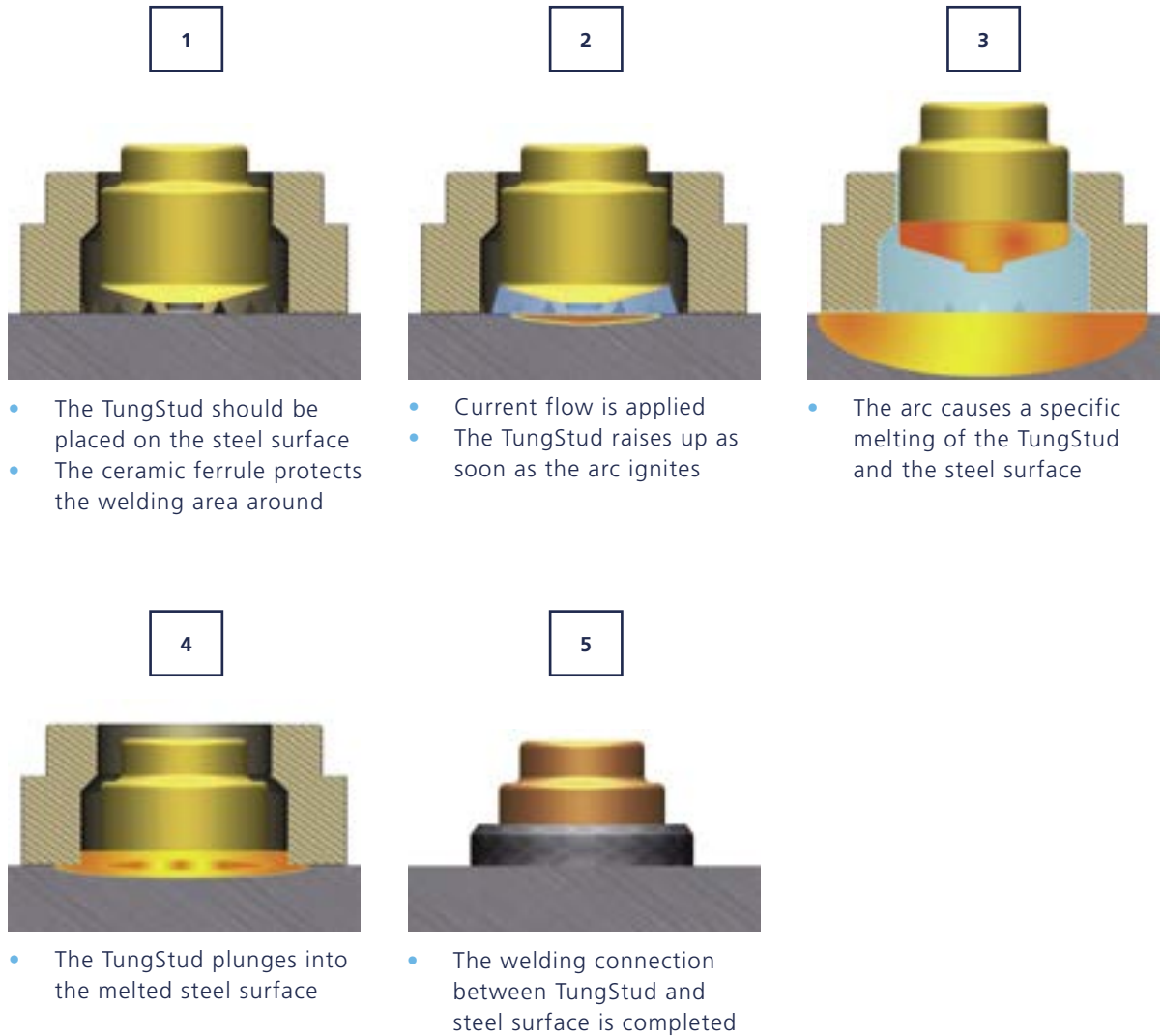
DIMENSIONS

Width in mm	Length in mm
50	50
75	75
100	100
125	125
150	150

Other sizes on request

EXTENSIVE WEAR PROTECTION

› WELDING PROCESS



BENEFITS

- Wear resistant thanks to the carbide core
- Quick welding process
- Suitable for uneven surfaces
- Simply replaceable
- Less maintenance › Higher productivity
- Less downtime › Cost reduction

PERFORMANCE

› CUTTING WEAR PROTECTION

- Grid pattern is recommended
- Cutting wear protection due to the conical carbide shape

EXTENSIVE WEAR PROTECTION



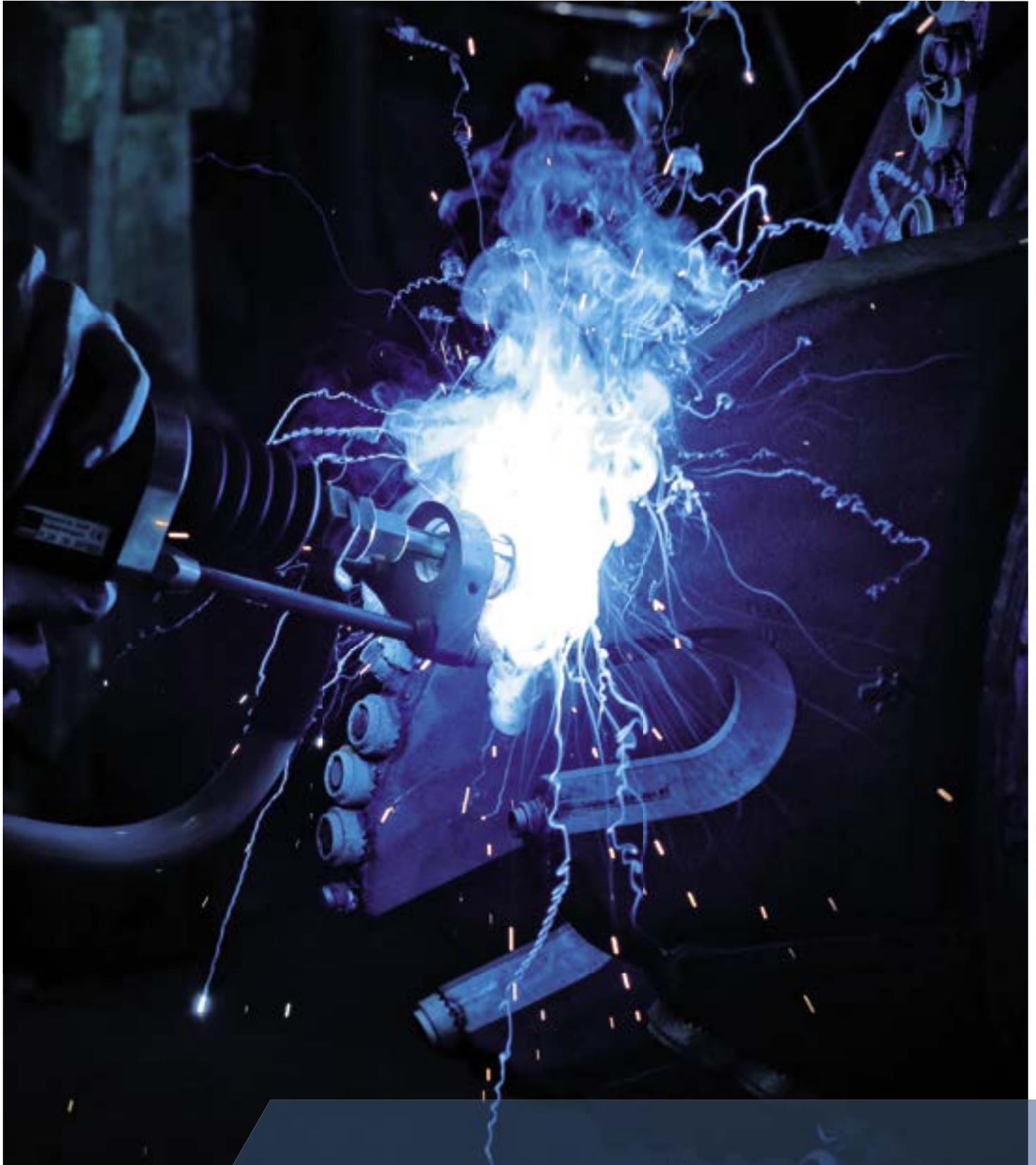
› ROCK BOX EFFECT

- Grid pattern is recommended
- Rock-Box-Effect due to the cylindrical carbide shape

EXTENSIVE WEAR PROTECTION



APPLICATION







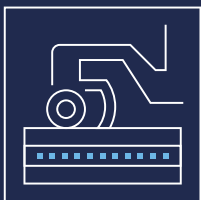
SURFACE TECHNOLOGIES

- ROAD MILLING
- SURFACE MINING
- STABILISING
- RAIL TRACK CONSTRUCTION
- CRUSHING & MIXING



UNDERGROUND TECHNOLOGIES

- FOUNDATION DRILLING
- MINING
- TRENCHLESS
- TRENCHING
- TUNGSTUDS
- DRUM CUTTERS



ENVIRONMENTAL TECHNOLOGIES

- AGRICULTURE
- GRADER TOOLS
- TUNGSTEN CARBIDE
- FORESTRY & RECYCLING

Service number
+49 (0) 7422. 565-0

info@betek.de
www.betek.de