



MADE IN GERMANY



ENVIRONMENTAL TECHNOLOGIES

AGRICULTURAL TECHNOLOGY





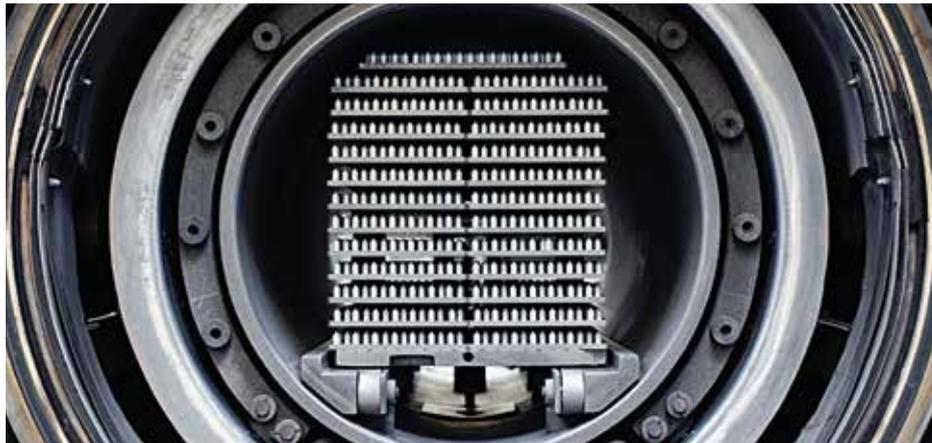
ENVIRONMENTAL
TECHNOLOGIES

- AGRICULTURE
- GRADER TOOLS
- FORESTRY & RECYCLING

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.

BETEK TOOL SYSTEMS

› **BETEK TOOL SYSTEMS TECHNOLOGY SPECIFICALLY DESIGNED FOR AGRICULTURAL APPLICATIONS**

BETEK tungsten carbide tools are developed and tested together with the manufacturers of machines for soil cultivation and harvesting. The only tungsten carbide grades used are those that are aligned specially to the areas of use with regard to their hardness and durability. They stand out thanks to their lifetime and breakage resistance. In combination with high quality steel bodies – primarily from Austria – tool systems are built which provide excellent support to the performance of modern machines. A high degree of effectiveness is guaranteed through the balance of wear between the tungsten carbide and the steel body and thus the associated complete use of the tungsten carbide wear part.

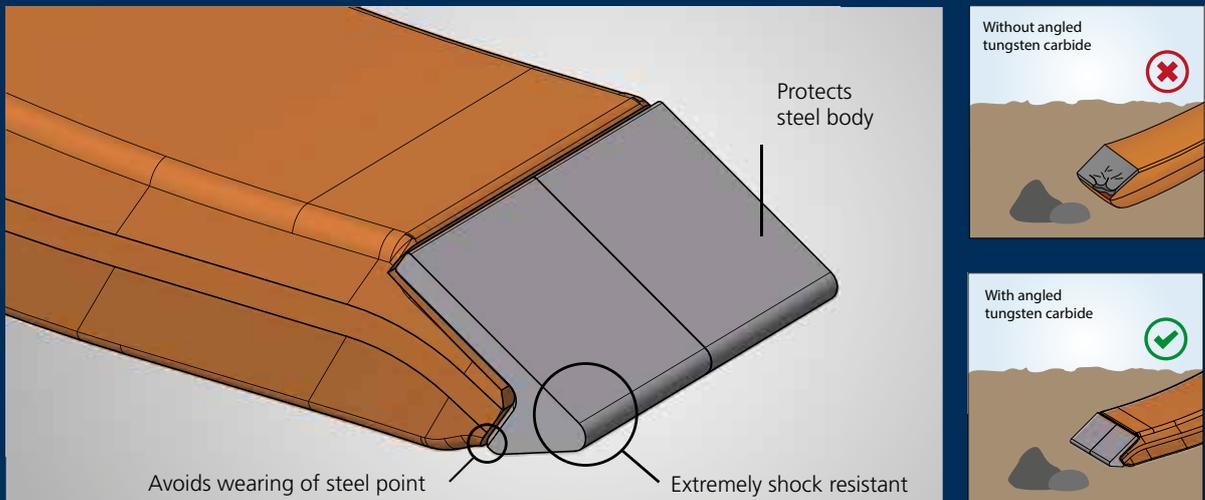


› PROGRESS THROUGH TUNGSTEN CARBIDE WEAR PARTS FOR SOIL CULTIVATION AND SEED DRILLING

WITH BETEK TUNGSTEN CARBIDE WEAR PARTS FOR SOIL CULTIVATION AND DRILLING MACHINES YOU GAIN QUALITY, TIME AND COST RELATED BENEFITS:

- Substantially higher lifetime than conventional steel tools*
- Constant working depth and tillage quality
- Improved penetration, lower traction requirement thanks to permanently sharp cutting edges
- No readjustment of the depth guidance due to wear
- Time and cost savings due to fewer wear part changes
- Significantly extended operating time during periods of good weather
- Optimum use of the performance of the machines
- Lower tool costs per hectare
- Cost savings due to reduced stockpiling

*8 -10 times during soil cultivation (depending on the soil type, moisture content, machine type, working speed, working depth, machine width and mounting position)

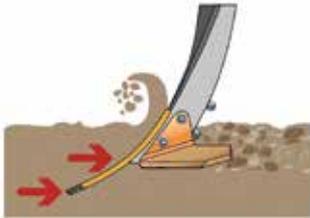


Experience-based testimonials from users and test partners as well as objective test reports from various trade magazines in different areas of use, are available at:

www.betek.de/en › Products › Agricultural Technology › User information

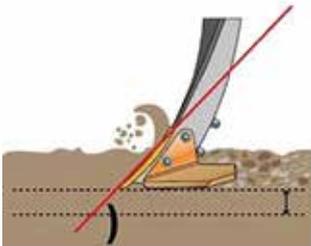
COMPARATIVE BLADE WEAR

› STANDARD STEEL BLADE



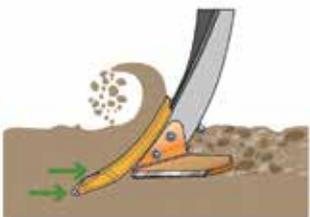
- Wear in length and thickness compromises functioning
- Readjustment of the depth guidance required
- Penetration rendered difficult due to worn blade
- Unsatisfactory quality work

› STANDARD STEEL BLADE: WORN



- Steep pitch angle
- Soil is pushed
- Soil no longer skims flowingly upwards
- High traction force requirement
- High fuel consumption
- High level of strain on the machine (frame, bearings etc.)
- Reduced working speed

› BETEK TUNGSTEN CARBIDE BLADE



- No wear in length that compromises functioning, reduced wear in terms of thickness
- No readjustment of the depth guidance required
- Constantly improved penetration
- Constant high quality of work
- Considerably improved lifetime (depending on type of blade 8-10 times)
- Progress through superior efficiency

CONTENT

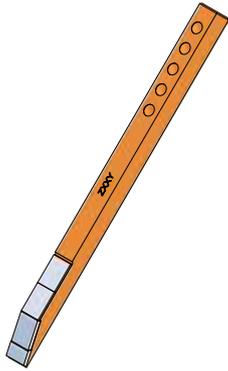
	Page
	10
	12
	14
	17
	18
	21
	22
	24
	28
	30
	31
	32
	33
	34
	35



BETEK Premium tungsten carbide wear parts are marketed exclusively through our system partners. Please contact them regarding prices and sources. A link is provided on the corresponding pages of this product catalogue.

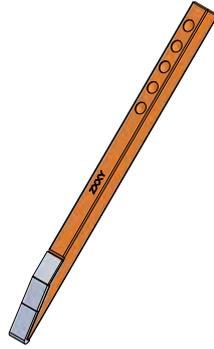
ACTISOL

> CULTIVATOR



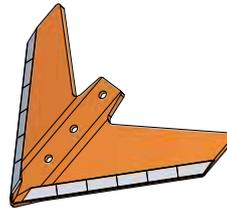
▪ **BAT30**
Point

Barre 25
19200005B



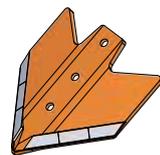
▪ **BAT59**
Point

Barre 22
19100005



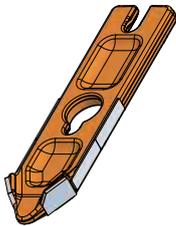
▪ **BAT72**
Wing share

Ailette
19300013



▪ **BAT119**
Wing share

Ailette
19300029A



▪ **BAT159**
Sabot

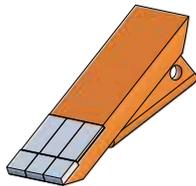
Sabot
19310003



▪ **BAT162**
Nose

Nez
19310007

> TIEFENLOCKERER



▪ **BAT49**
Point

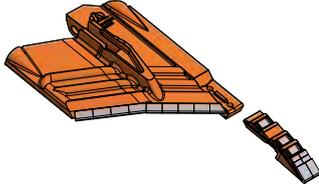
Agromulch
19300A028

Actisol



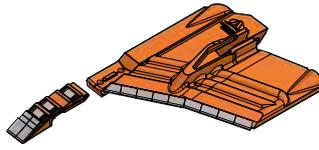
AGRISEM

> SUBSOILER



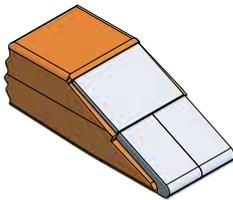
▪ **BAT176 + Wing BAT262**
Point 50 mm, wing left

TCS-SOC659-611MC1
TCS-SOC659W-M1



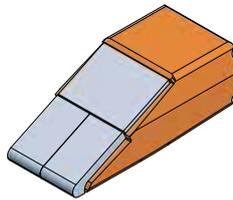
▪ **BAT176 + Wing BAT263**
Point 50 mm, wing right

TCS-SOC659-611MC1
TCS-SOC660W-MC1



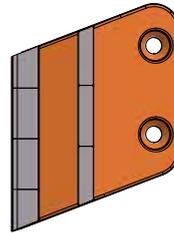
▪ **BAT40**
Point

Maximulch, Cultiplow,
Ecoplow, Combiplow
TCS-SOC654W-MC3



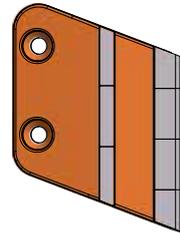
▪ **BAT39**
Point

Maximulch, Cultiplow,
Ecoplow, Combiplow
TCS-SOC653W-MC3



▪ **BAT278**
Blade left

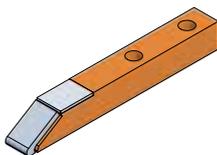
Cultiplow - Combiplow
TCS-BOR28-131-C1



▪ **BAT281**
Blade right

Cultiplow - Combiplow
TCS-BOR28-132-C1

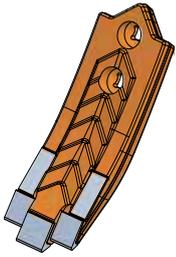
> SÄMASCHINE



▪ **BAT90**
Seeding blade

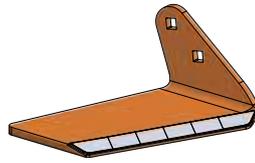
Tri-O-Sem, LocaSem
SEM16-03-502/B

> CULTIVATOR



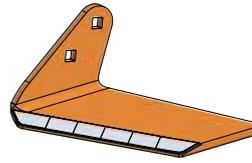
· **BAT145**
Point | 80 mm

Combimulch, Maximulch,
Agromulch, Ecoplow
AGM11-03-551



· **BAT164 (right)**
Wing share | 276 mm

Combimulch, Maximulch,
Agromulch, Ecoplow
AGM11-03-552



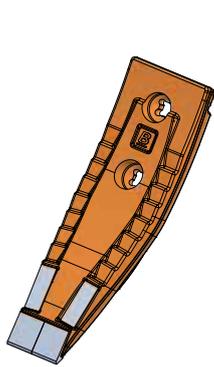
· **BAT165 (left)**
Wing share | 276 mm

Combimulch, Maximulch,
Agromulch, Ecoplow
AGM11-03-553



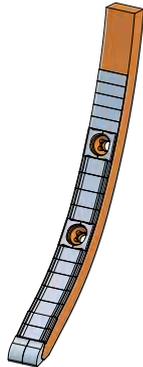
BEDNAR

> CULTIVATOR



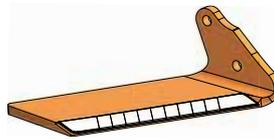
▪ **BAT156**
Point | 80 mm

Fenix
KM060427



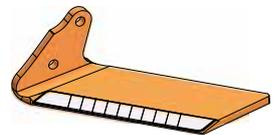
▪ **BAT245**
Point | 40 mm

Fenix
KM060446



▪ **BAT232**
Wing share right | 180 mm

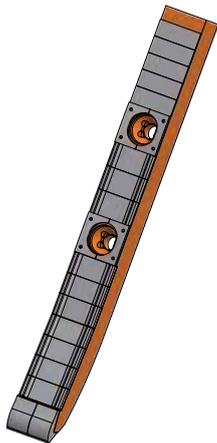
Fenix
KM060448



▪ **BAT231**
Wing share left | 180 mm

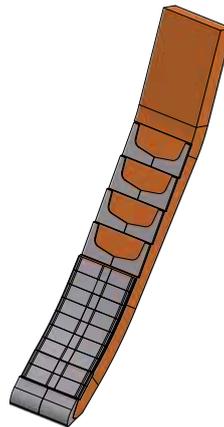
Fenix
KM060447

> SUBSOILER



▪ **BAT161**
Point | 40 mm

Terraland
KM060340

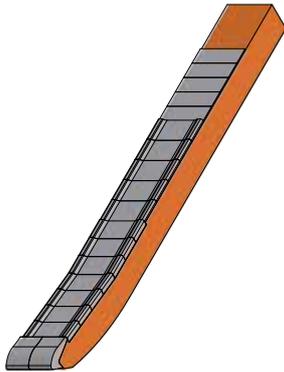


▪ **BAT191**
Point | 70 mm

Terraland
KM060400

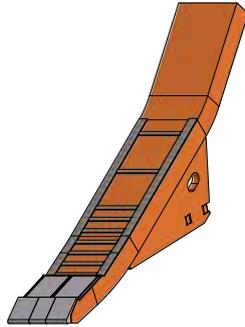


BEDNAR



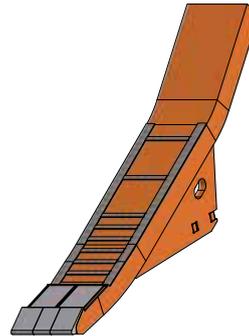
■ **BAT423**
Point | 40 mm

Terraland
KM060668



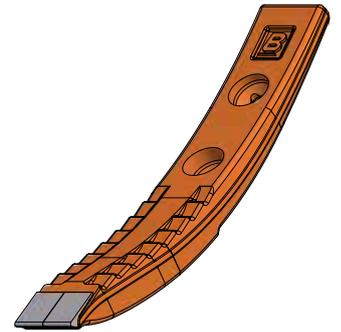
■ **BAT349**
Point | 70 mm

Terraland
KM060540



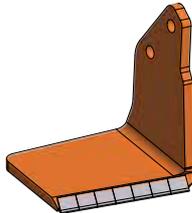
■ **BAT470**
Point | 70 mm

Terraland
KM060541



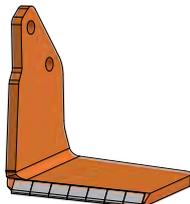
■ **BAT354**
Spring tine share | 40 mm

Versatill
KM060511



■ **BAT299**
Wing share left | 150 mm

Terraland
KM060484



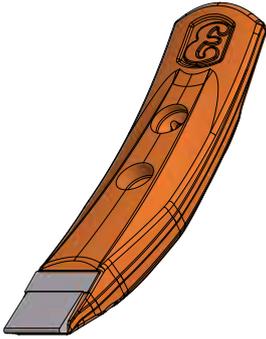
■ **BAT298**
Wing share right | 150 mm

Terraland
KM060483



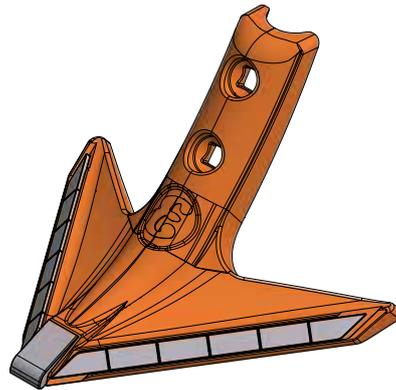
EINBÖCK

> FLAT CULTIVATOR



• **BAT382**
Point | 56 mm

Taifun
15-167-02-H

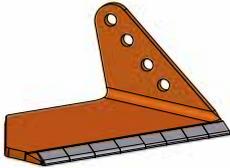


• **BAT406**
Goosefoot share | 220 mm

Taifun
15-179-H

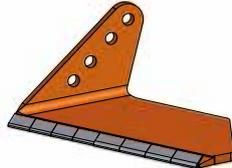
HORSCH

> CULTIVATOR



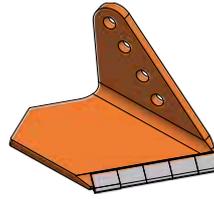
▪ **BAT1028 (left)**
Wing share | 172,5 mm

Terrano, Tiger
60071506



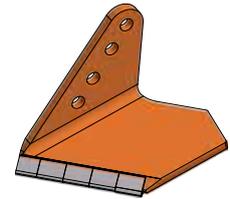
▪ **BAT1027 (right)**
Wing share | 172,5 mm

Terrano, Tiger
60071509



▪ **BAT484 (left)**
Wing share | 100 mm

Terrano, Tiger
60042280



▪ **BAT485 (right)**
Wing share | 100 mm

Terrano, Tiger
60042284



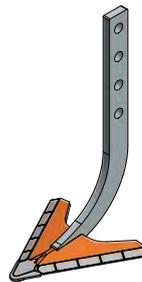
▪ **BAT206**
Point | 25 mm

Focus, Terrano, Tiger
00311357



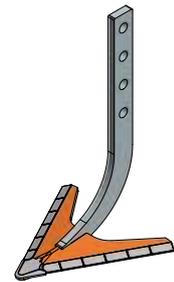
▪ **BAT207**
Guiding element | 25 mm

Focus, Terrano, Tiger
00311358



▪ **BAT434**
Chopping share | 155 mm

Transformer
60028842



▪ **BAT356**
Chopping share | 180 mm

Transformer
00311578



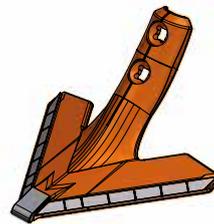
▪ **BAT437**
Point | 55 mm

Finer
60034846



▪ **BAT491**
Point | 80 mm

Terrano, Tiger
00311069



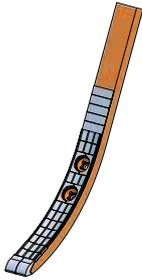
▪ **BAT1018**
Goosefoot share | 225 mm

Finer
60034843

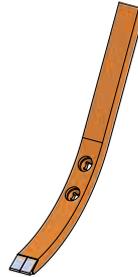


HORSCH

> STRIP TILL | SUBSOILER



▪ **BAT91**
Point | 40 mm
Focus, Terrano, Tiger
00311349



▪ **BAT92**
Point | 40 mm
Focus, Terrano, Tiger
00311350

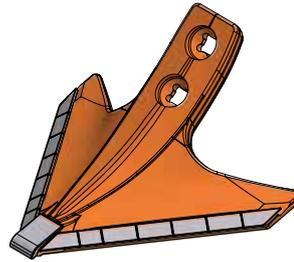
> FLACHGRUBBER



▪ **BAT336**
Point | 50 mm
Cruiser
00311513



▪ **BAT333**
Point | 80 mm
Cruiser
60034761



▪ **BAT286**
Goosefoot share | 200 mm
Cruiser
00311408

> KREISELEGGE



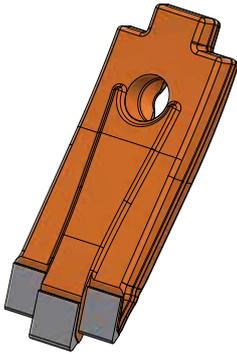
▪ **BAT168 (left)**
Power harrow tine
Kredo, Express
00384095



▪ **BAT167 (right)**
Power harrow tine
Kredo, Express
00384096

KERNER

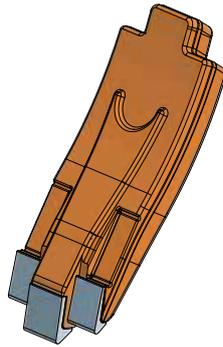
> CULTIVATOR



■ **BAT152**
Point | 80 mm

Corona, Galaxis, Komet

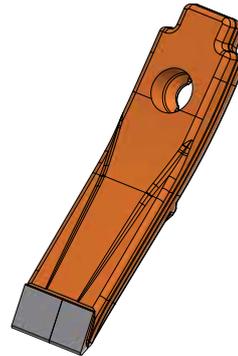
008352



■ **BAT153**
Point | 80 mm

Corona, Galaxis, Komet
(for quick-change systems)

066334



■ **BAT357**
Point | 55 mm

Corona, Galaxis, Komet
(for quick-change systems)

072820



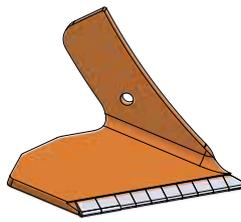
KÖCKERLING

> CULTIVATOR



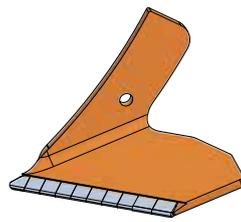
■ **BAT1014**
Point | 80 mm

Quadro, Trio, Vector
915776



■ **BAT203 (right)**
Wing share | 262 mm

Quadro, Trio, Vector
932214



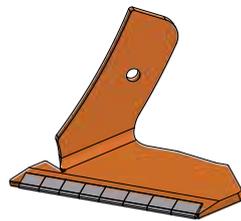
■ **BAT202 (left)**
Wing share | 262 mm

Quadro, Trio, Vector
932216



■ **BAT396 (right)**
Wing share | 262 mm

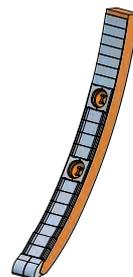
Quadro, Trio, Vector
939372



■ **BAT395 (left)**
Wing share | 262 mm

Quadro, Trio, Vector
939370

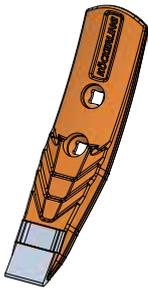
> STRIP TILL | SUBSOILER



■ **BAT114**
Point | 40 mm

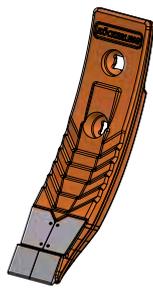
Quadro, Trio, Vector
915774

▶ SHALLOW CULTIVATOR



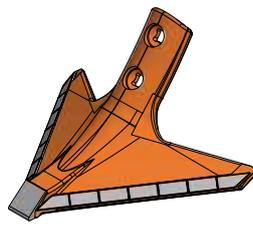
• **BAT115**
Point | 56 mm

Allrounder
915772



• **BAT344**
Point | 60 mm

Vario
936464



• **BAT359**
Goosefoot share | 225 mm

Allrounder
936742



• **BAT359**
Goosefoot share | 226 mm

Vario
936758



KUHN

> CULTIVATOR



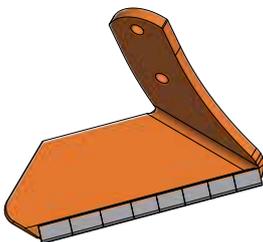
▪ **BAT93**
Point | 50 mm

Cultimer
H2225650



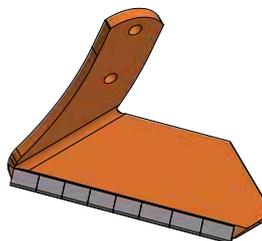
▪ **BAT331**
Point | 80 mm

Cultimer
H2251170



▪ **BAT287 (right)**
Wing share 224 mm

Cultimer
H2218181

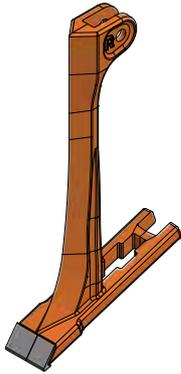


▪ **BAT266 (left)**
Wing share 224 mm

Cultimer
H2218191



> STRIP TILL | SUBSOILER



■ **BAT171**
Point

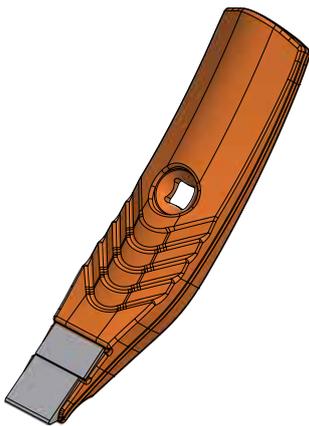
Gladiator
H22474430



■ **BAT65**
Point

Cultisoil
K1800470

> SHALLOW CULTIVATOR



■ **BAT355**
Point | 55 mm

Prolander
H2251900

KUHN

► POWER HARROW



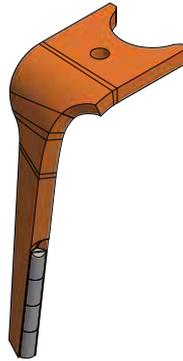
■ **BAT413 (left)**
Power harrow tine

Series 103/ 1003 and
104/ 1004
K2518450



■ **BAT412 (right)**
Power harrow tine

Series 103/ 1003 and
104/ 1004
K2518460



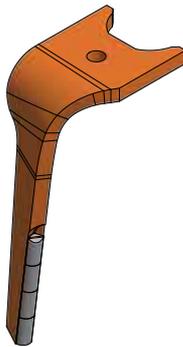
■ **BAT415 (left)**
Power harrow tine

Series 1040
K2518480



■ **BAT414 (right)**
Power harrow tine

Series 1040
K2518470



■ **BAT416 (left)**
Power harrow tine

Series 1020/ 1030
K2518490

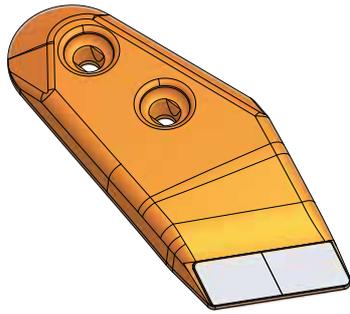


■ **BAT417 (right)**
Power harrow tine

Series 1020/ 1030
K2518500

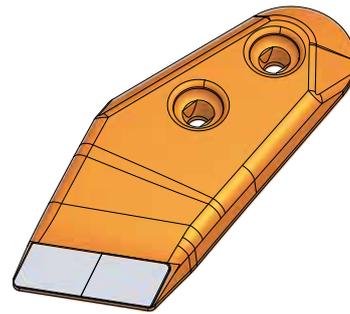


> PLOW



■ **BAT55 (right)**
Point

Super Marathon Point
622164



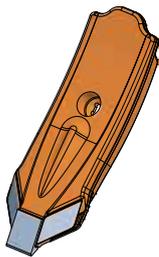
■ **BAT56 (left)**
Point

Super Marathon Point
622165



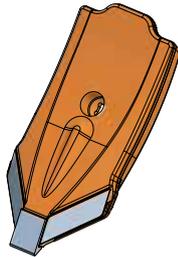
LEMKEN

> CULTIVATOR



■ **BAT134**
Point | 80 mm

Kristall, Karat
33710031



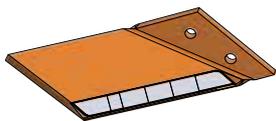
■ **BAT227**
Point | 115 mm

Kristall, Karat
33710030



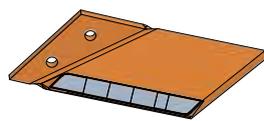
■ **BAT228**
Point | 60 mm

Kristall, Karat
33710023



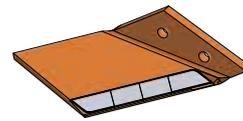
■ **BAT229 (right)**
Wing share 300 mm

Kristall, Karat
33710018



■ **BAT230 (left)**
Wing share 300 mm

Kristall, Karat
33710019



■ **BAT233 (right)**
Wing share 250 mm

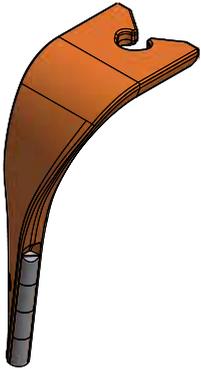
Kristall, Karat
33710020



■ **BAT234 (left)**
Wing share 250 mm

Kristall, Karat
33710021

➤ POWER HARROW



■ **BAT316 (right)**
Power harrow tine

Zirkon
33710036



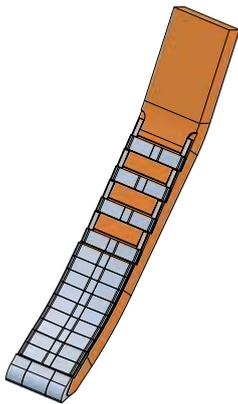
■ **BAT317 (left)**
Power harrow tine

Zirkon
33710037



MASCHIO GASPARDO

> SUBSOILER



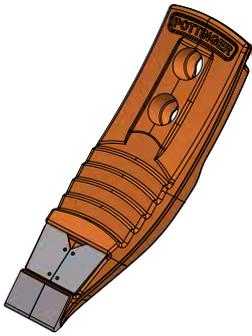
- **BAT200**
Point | 70 mm

Attila, Artiglio
R17822660



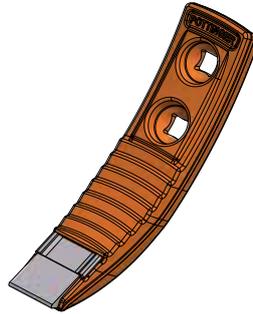
PÖTTINGER

› CULTIVATOR | TRACK LOOSENER



■ **BAT138**
Point | 80 mm

Synkro
9791.50.031.2



■ **BAT464**
Track loosener | 50 mm

Terrasem
8504.47.039.0



SOURCE: PÖTTINGER

ROPA

> BEETS TECHNOLOGY



▪ **BAT95**
Lifting finger

Rübenmaus
208003800



▪ **BAT248 (right)**
Lifting share

Eurotiger
207019800



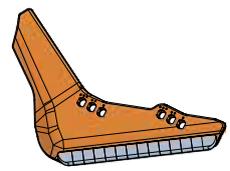
▪ **BAT249 (left)**
Lifting share

Eurotiger
207019900



▪ **BAT255 (right)**
Lifting share

Eurotiger
20702000



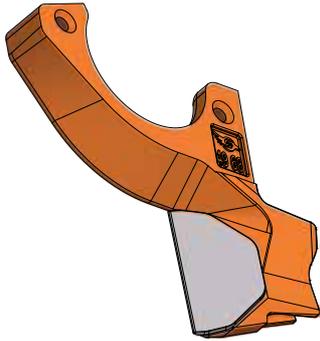
▪ **BAT256 (left)**
Lifting share

Eurotiger
207020100



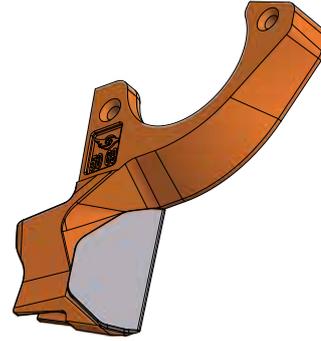
SULKY-BUREL

› SEEDING MACHINE



• **BAT 393 (right)**
Seeding blade

Maxi Drill
018529



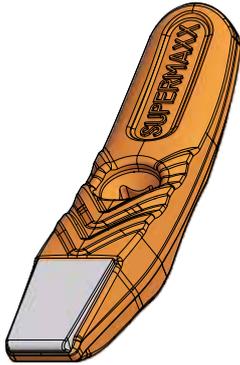
• **BAT394 (left)**
Seeding blade

Maxi Drill
018528



GÜTTLER

> SHALLOW CULTIVATOR



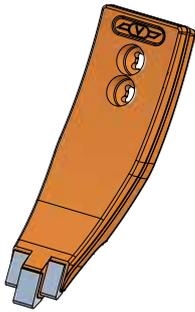
- **BAT254**
Point | 40 mm

SuperMaxx
7200 0368



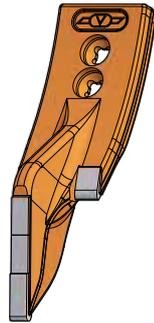
VÄDERSTAD

> CULTIVATOR



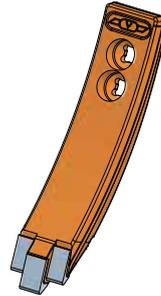
▪ **BAT222**
Point | 80 mm

Cultus, TOP DOWN
"new", Opus
205006



▪ **BAT240**
Point | 80 mm

Cultus, TOP DOWN
"new", Opus
240180



▪ **BAT75**
Point | 50 mm

Cultus, TOP DOWN
"new", Opus
498382



▪ **BAT42**
Point | 80 mm

TOP DOWN
498385



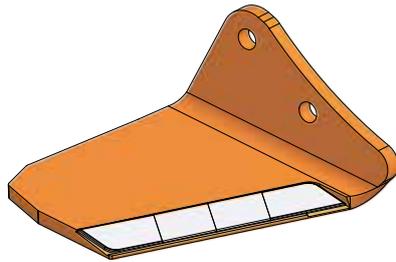
▪ **BAT43**
Point | 50 mm

TOP DOWN
498384



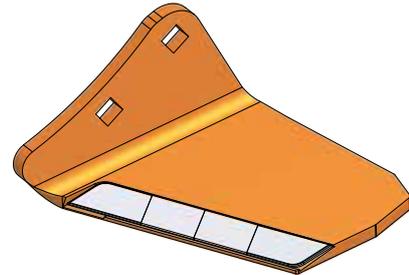
VÄDERSTAD

> CULTIVATOR



▪ **BAT38 (rechts)**
Wing share 157,5 mm

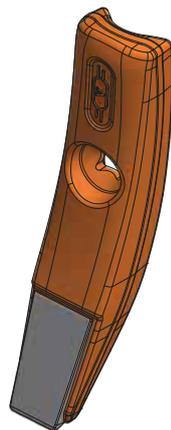
Cultus, TOP DOWN
475000



▪ **BAT37 (links)**
Wing share 157,5 mm

Cultus, TOP DOWN
475001

> SHALLOW CULTIVATOR



▪ **BAT235**
Spring tine | 35 mm

NZA, NZE Rapid, Rexius Twin
207053



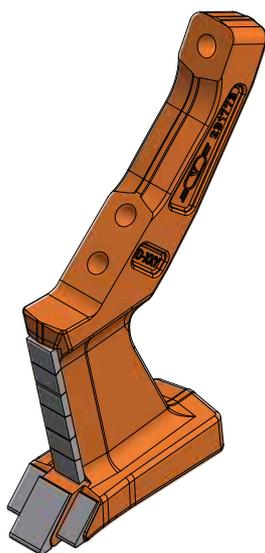
▪ **BAT330**
Spring tine | 25 mm

NZA
231775



VÄDERSTAD

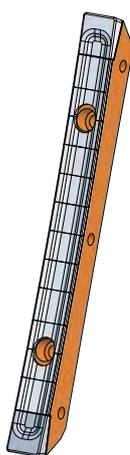
> SUBSOILER



▪ **BAT329**
Point | 60 mm

Opus, Top Down
231773

> STRIP TILL



▪ **BAT105**
Strip till share

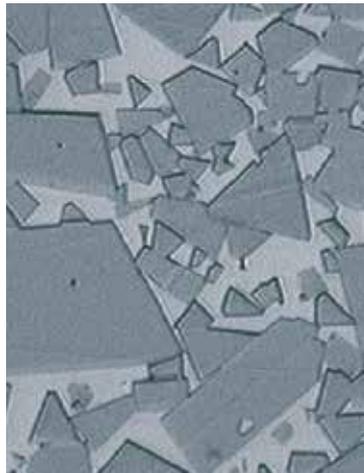
Spirit
190101



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.

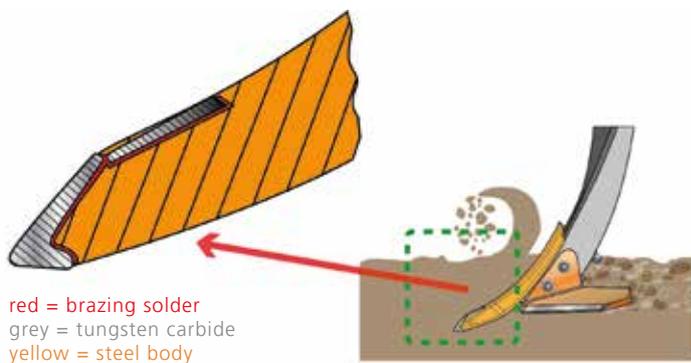
Since best quality comes first at BETEK, we only use the highest quality and purest raw materials.



> BRAZING

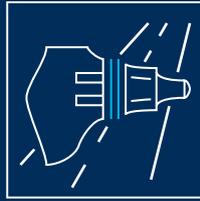
TUNGSTEN CARBIDE AND STEEL – TIGHTLY BONDED FOR THE TOUGHEST REQUIREMENTS

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.



Brazing as the permanent connection of tungsten carbide and steel

➤ BETEK



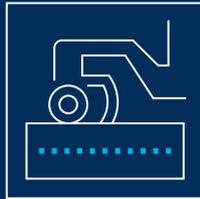
SURFACE TECHNOLOGIES

- ROAD MILLING
- SURFACE MINING
- STABILISING



UNDERGROUND TECHNOLOGIES

- FOUNDATION DRILLING
- MINING
- TRENCHING
- TUNNELING
- DRUM CUTTERS
- TUNGSTUDS
- HDD



ENVIRONMENTAL TECHNOLOGIES

- AGRICULTURE
- GRADER TOOLS
- FORESTRY & RECYCLING



INDUSTRIAL TECHNOLOGIES

- CRUSHING & MIXING
- TUNGSTEN CARBIDE
- RAIL TRACK CONSTRUCTION
- INDUSTRIAL SOLUTIONS

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

info@betek.de
www.betek.de