

# XHD Carbide reinforced parts

Product Presentation  
September 2023

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ORIGINAL  
PARTS

# XHD CARBIDE

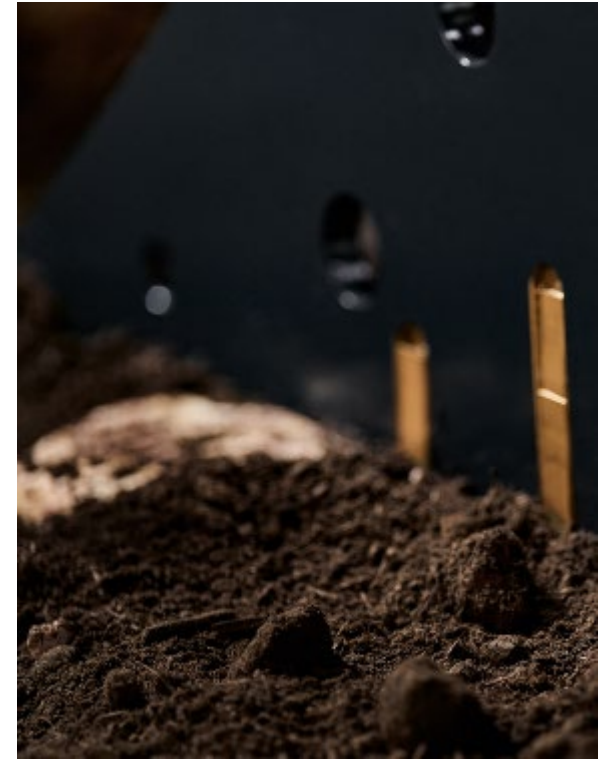
YOUR WEAPON AGAINST ABRASIVE SOIL



# XHD Reinforced parts

## ■ Why?

- Demand for reinforced parts is growing every day for their durability, cost savings and improved productivity in difficult conditions.
- The consistent strength and performance of carbide improves reliability and competitiveness while aligning with sustainability goals.
- The development of Kverneland XHD (eXtra Heavy Duty) carbide-reinforced parts is driven by factors such as increasing the original part life, meeting robustness requirements and boosting the productivity of our machines.
- Our XHD Parts aim to reduce downtime, cut costs and achieve the highest work quality, drawing on our historic expertise in heat treatment and advances in materials science, reflecting a long-term commitment to quality and environmental responsibility.



# Tungsten Carbide

## ▪ What?

- Tungsten Carbide stands as one of the hardest materials known to man. By blending **Carburised Tungsten Powder** with **Soft Cobalt**, we create a remarkably enduring, hard, and resilient substance capable of withstanding extreme impacts.
- Within our Kverneland XHD components, we employ a Premium Grade of Tungsten Carbide. These serve as a protective shield, guarding vital areas against breakage and rapid wear.
- Given the distinct functions of each XHD component, they encounter varying levels of stress and impact. To strike the right balance between longevity and cost-effectiveness while preserving their exceptional wear resistance and impact resilience, each part undergoes a unique calibration of hardness and flexibility.



# Heat treated Kverneland steel

## ▪ How?

- Many reinforced *Non Genuine* parts are not heat treated, but rely solely on the Tungsten Carbide protected areas. In Kverneland, we understand the importance of balancing the correct heat and hardness and apply the same tried and proven methods to all our XHD parts.
- To allow a frictionless flow of soil, our unique heat treatment produces a harder and smoother surface that lasts longer than softer, untreated steel. The ideal combination of Tungsten Carbide tiles on heat-treated steel gives you the best weapon to face the most extreme soil conditions.



# The XHD Parts range

- The complete range for extreme conditions

## XHD+ CARBIDE

- The **XHD+ Carbide** parts are reinforced with much more **Tungsten Carbide** than standard XHD Carbide parts, resulting in up to **20 times** the lifespan of standard parts, and double that of standard XHD parts.



## XHD CARBIDE

- The **XHD Carbide** parts are reinforced by embedding specially shaped **Tungsten Carbide tiles** on strategic places of the parts that are exposed to hard-wearing. These parts can withstand the most demanding conditions.



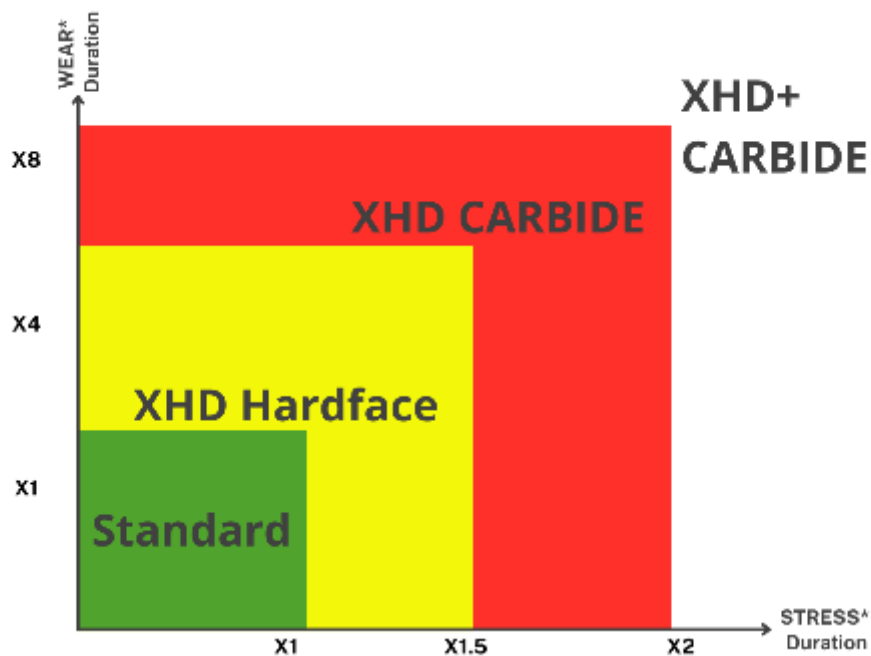
## XHD HARDFACE

- The **XHD Hardface** parts are reinforced by adding various types of **Harder Materials** to strategic places on the parts that are exposed to hard-wearing. Parts lifespan is extended significantly, offering a cost-effective solution.



# Kverneland Group XHD Matrix

(\*+/- dep. On soil conditions)



# Plough XHD Parts



# Plough XHD Parts overview

## XHD CARBIDE



Point



Share



Landside

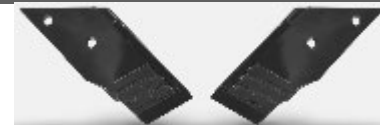


Skimmer Share



Shin Piece

## XHD+ CARBIDE



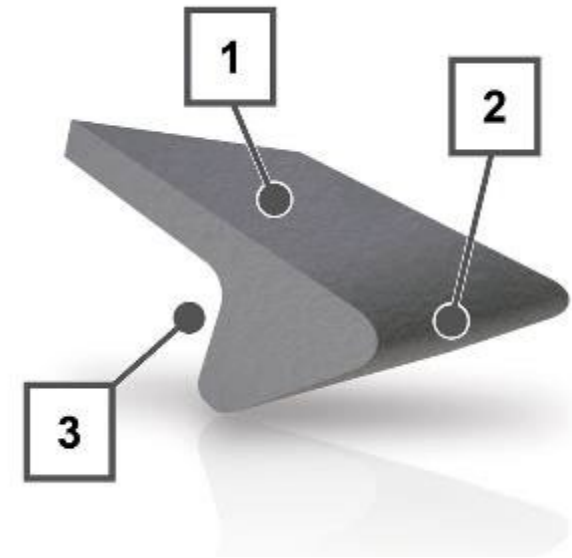
# Plough XHD Carbide Parts



# Plough XHD Carbide Parts

## ■ Introduction

- The **Kverneland XHD Carbide** series offers an ideal solution for tough conditions. Each part is reinforced by the integration of specially shaped tungsten **Carbide Tiles** in strategic areas exposed to high wear.
- The new XHD range lasts up to **10 times longer\*** than standard parts, reducing costs and downtime. It's a cost-effective alternative for the toughest conditions.
- The specially designed **Corner Tiles** wrap around the cutting edge, offering complete protection of the surface and edge against wear and damage. The result is a sharper, more durable edge that remains resistant to shocks and breakage due to violent impacts.



1. Additional protection to the steel body
2. Extremely shock resistant
3. Avoids wearing the steel point

*\*Based on average test conditions. Depending on soil type, moisture content, machine type, working speed, working depth, machine width and mounting position.*

# Plough XHD Carbide Parts

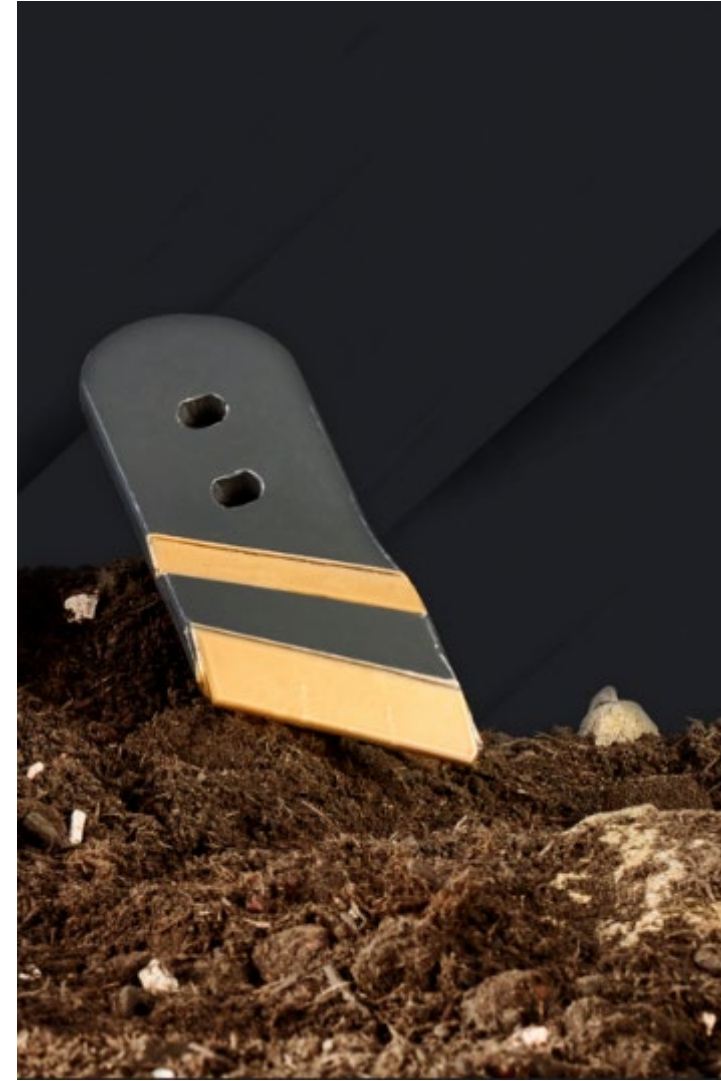
## ■ Plough XHD Carbide Point

- The **XHD Carbide point** has a special shape to ensure perfect soil penetration, even in the driest and most challenging soil conditions.
- The **XHD Carbide point** is protected with **5 premium** grade tungsten carbide tiles.
  - 3 specially designed **Corner Tiles** are located along the leading edge and retain their specific shape and strength to give maximum protection against hard impacts and abrasive soils.
  - 2 **additional Tiles** have been placed on the upper side of the point to protect the zone particularly exposed to wear.
- The XHD Carbide point will fit on the **XHD Carbide share** and any other Original Kverneland share that accepts standard Kverneland reversible points.



- **XHD CARBIDE POINT\***
  - **A152081130** - Left, bolts included
  - **A152081030** - Right, bolts included

\*XHD Carbide points fit body no. 8, 9, 25, 28, 34, 38, 40. Will fit on Standard reversible shares and CLC/CTC stubble cultivators.



# Plough XHD Carbide Parts

## ■ Plough XHD Carbide Share

- The XHD **Carbide shares** are protected with 17 (16" share) and 20 (18" share) premium-grade tungsten carbide corner tiles.
- Located along the full leading edge of the share, the tiles retain their shape and strength to give maximum protection against hard impacts and abrasive soils.
- The shares are designed to be a seamless link between the point and mouldboard and ensure a smooth flow of soil over the whole plough body with minimum friction, resulting in a longer lifetime.

### ■ XHD CARBIDE 16" SHARE\*

- **A152081730** - Left, bolts included
- **A152081630** - Right, bolts included



### ■ XHD CARBIDE 18" SHARE\*

- **A152081930** - Left, bolts included
- **A152081830** - Right, bolts included

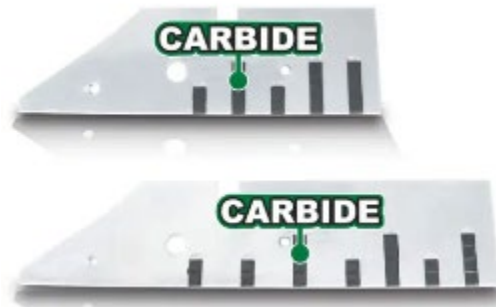


\*XHD Carbide shares fit body no. 8, 9, 25, 28, 34, 38, 40.

# Plough XHD Carbide Parts

## Plough XHD Carbide Landsides

- The XHD Carbide landside is protected with 8 (short landside) and 10 (long landside) premium-grade tungsten carbide tiles;
  - Their shape is retained and their resistance is considerably increased to offer maximum protection against violent impacts and abrasive soils.
  - Divided into 5 (short landside) and 7 (long landside) evenly spaced columns, all tiles are countersunk and specially angled to give the landside maximum protection against the most abrasive conditions.
- **XHD CARBIDE LANDSIDE SHORT**
    - A152001586 - Left
    - A152001486 - Right
  - **XHD CARBIDE LANDSIDE LONG**
    - A152001786 - Left
    - A152001686 - Right



# Plough XHD Carbide Parts

## Plough XHD Carbide Shin Piece

- The XHD Carbide shin piece is protected with 11 premium grade tungsten carbide corner tiles that retain their shape and strength to give maximum protection against hard impacts and abrasive soils.
- Located on the vertical leading edge the tiles retain their shape and strength to give maximum protection against hard impacts and abrasive soils, whilst ensuring an even flow of soil and protection to the base of the mouldboard.
- **XHD CARBIDE SHIN PIECE\***
  - **A133939530** - Left, bolts included
  - **A133939430** - Right, bolts included

\*XHD Carbide shin piece fits bodies 8 and 28.



# Plough XHD Carbide Parts

## Plough XHD Carbide Skimmer Share

- The XHD Carbide skimmer share is protected with both **tungsten carbide** tiles and **PTA** (plasma transferred arc) hard facing.
- Located on the horizontal cutting edge, the **11** specially designed premium-grade tungsten carbide **corner tiles** retain their shape and strength to give maximum protection against hard impacts and abrasive soils.
- A strip of **PTA** to the vertical edge gives added protection against aggressive conditions.
- **XHD CARBIDE SKIMMER SHARE\***
  - **A133949530** - Left, bolts included
  - **A133949430** - Right, bolts included

\*Fits all plough models except Ecomat.

- **About PTA:**

*The steel part is reinforced by adding weld cladding on areas exposed to higher wearing. A Carbide core welding wire is used to make a strong reinforcement that will add lifetime to the part.*



# Plough XHD+ Carbide Parts



# Rollers XHD Parts

- Roller XHD Hardface coated Scrapers

## ACTILINE ROLLER

- **XHD SCRAPER - (before 2022)**
  - A156174594
- **XHD SCRAPER - (from 2022)**
  - A156311794



## FLEXLINE ROLLER

- **XHD SCRAPER FLEXLINE**
  - A137097894



## PACKER ROLLER

- **XHD SCRAPER - Ø500-575**
  - RF23749 (before 2022)
- **XHD SCRAPER - 90MM**
  - A156311094 (from 2022)

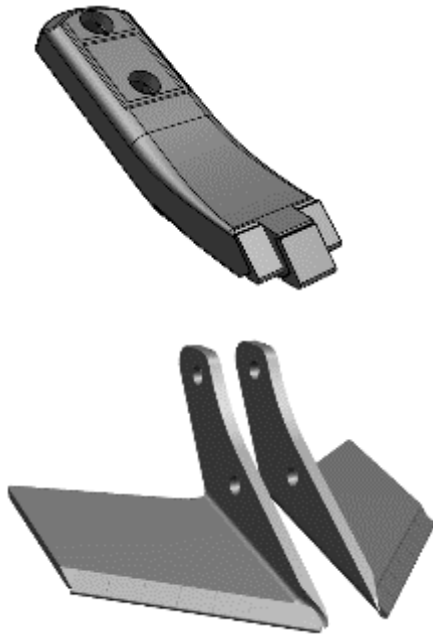


# Cultivator XHD Parts



# Cultivator XHD Parts overview

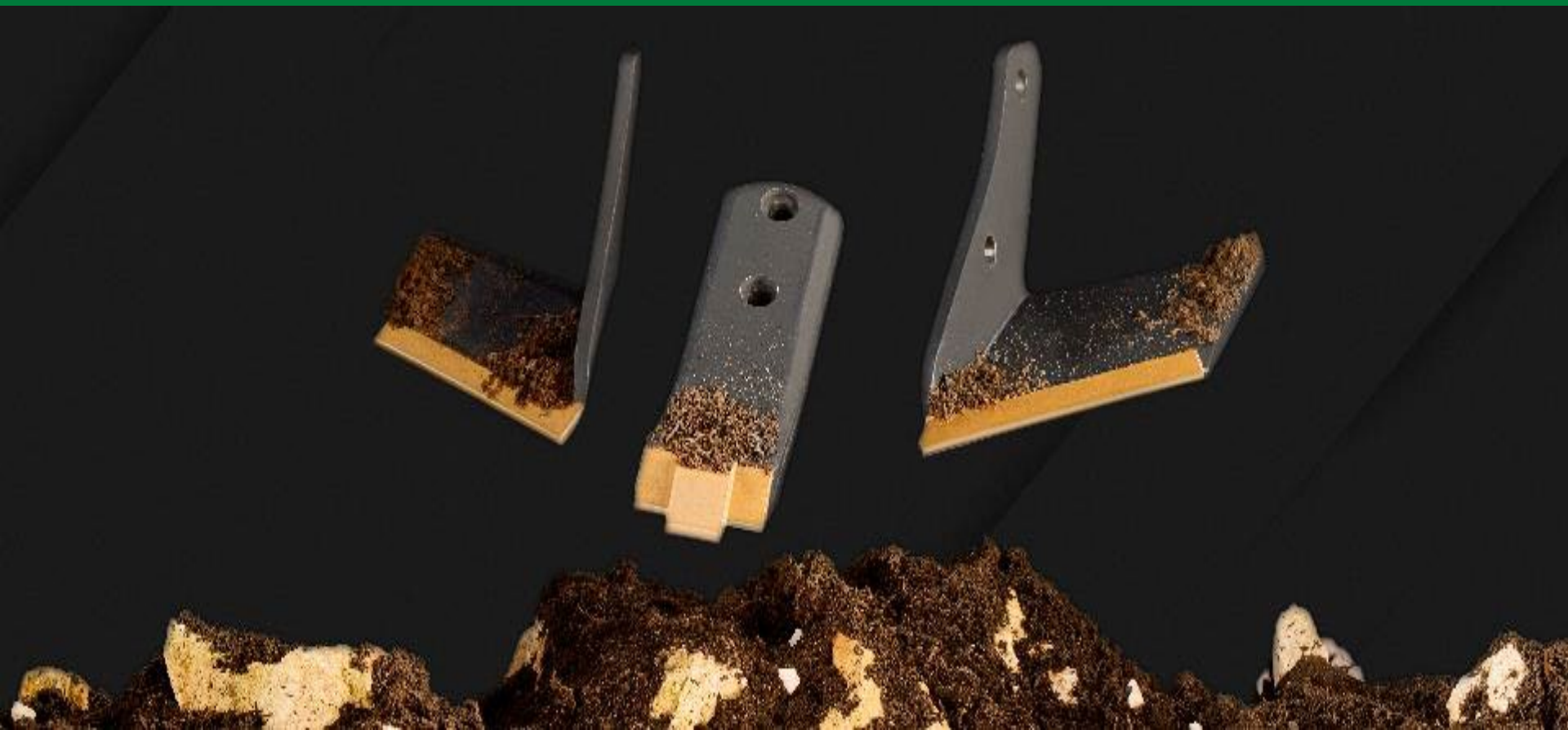
**XHD CARBIDE - Enduro / CTC**



**XHD CARBIDE - Turbo**



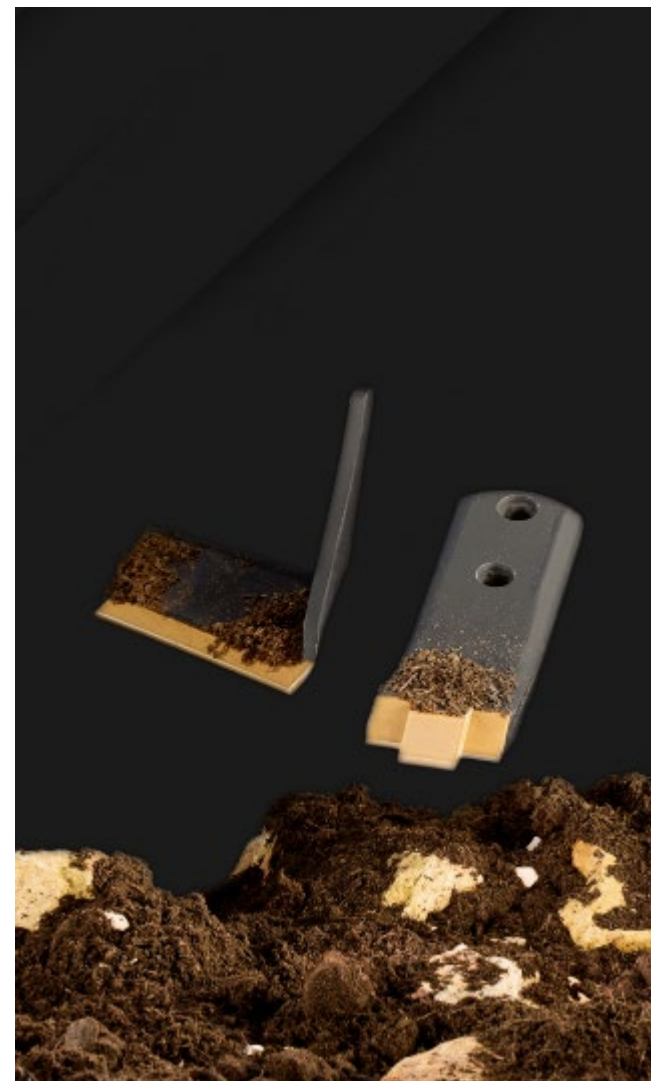
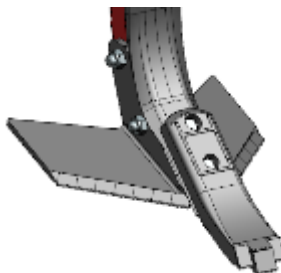
# Triflex 700 XHD Carbide



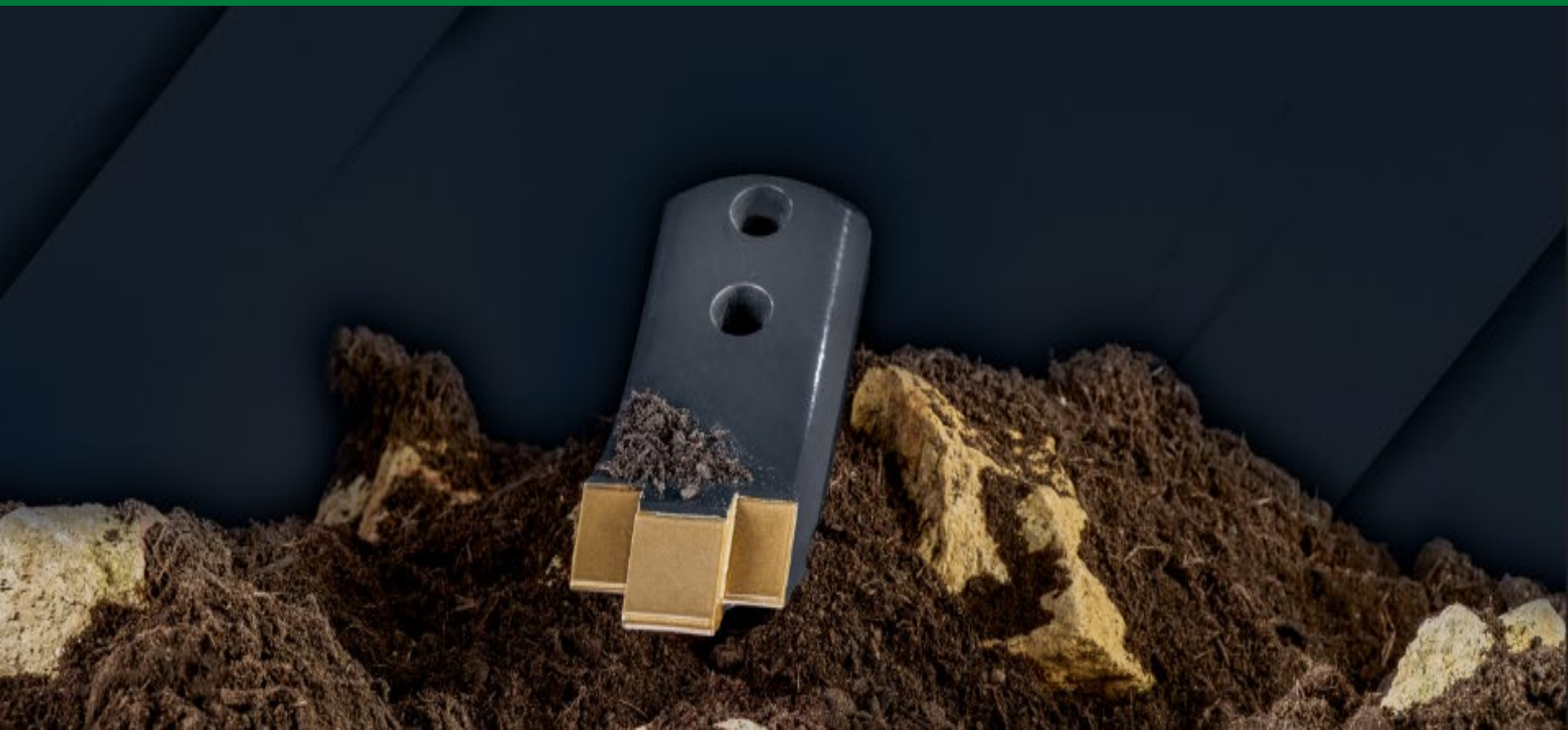
# Cultivator XHD Carbide Parts

## Triflex 700 XHD Carbide

- The **XHD Carbide point and wings** have been specially designed to fit **Kverneland Enduro and CTC** cultivators. Their precision design ensures the seamless and optimal soil flow, even in the driest and hardest soil conditions
- The **XHD Carbide Tiger III point 70mm** is Specifically crafted to:
  - Minimize pulling force, consequently leading to reduced fuel consumption
  - Incorporate a reinforced structure to secure the point's attachment.
  - The 70 mm covers the wings, with a 60 mm spacing between the left and right XHD carbide wings.
- **XHD Carbide shares 320 mm**, with angled tiles on their cutting edges for the best performance
- **XHD CARBIDE**
  - **A160204086** - Tiger III point 70 mm
  - **A135467386** - Wing 320 mm Right
  - **A135467486** - Wing 320 mm Left



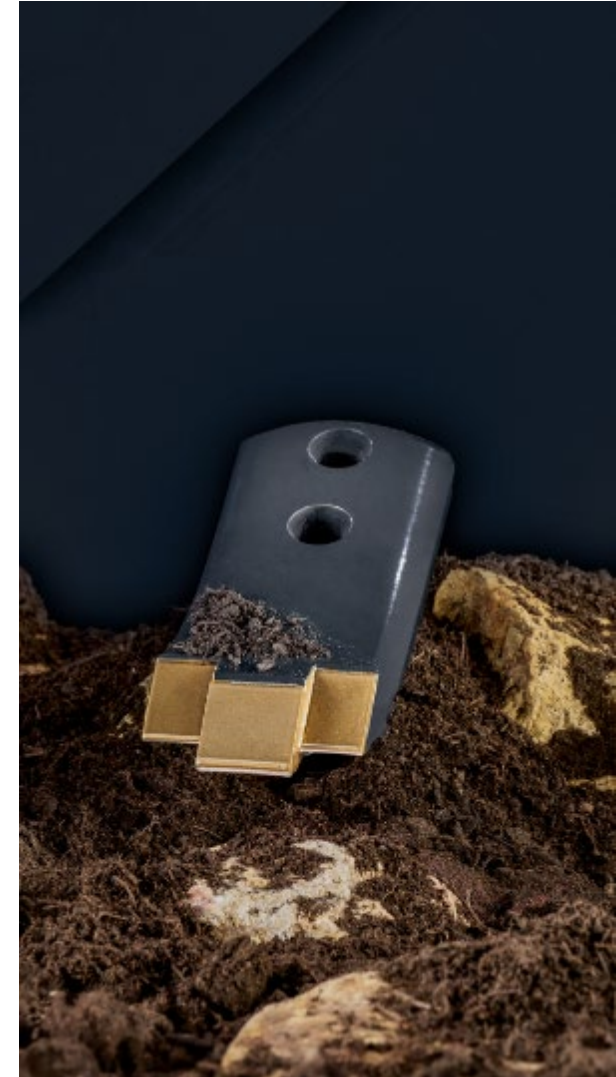
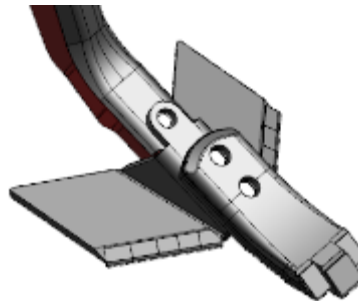
# Triflex 400 XHD Carbide



# Cultivators XHD Carbide Parts

## Triflex 400 XHD Carbide

- The **XHD Carbide point and wing** have been specially designed to fit **Kverneland Turbo** cultivators. Their precision design ensures the seamless and optimal soil flow, even in the driest and hardest soil conditions
- The **XHD Carbide Tiger II point 70mm** is Specifically crafted to:
  - Minimize pulling force, consequently leading to reduced fuel consumption
  - Incorporate a reinforced structure to secure the point's attachment.
- **XHD Carbide shares 240mm**, with angled tiles on their cutting edges to ensure long-lasting work quality.
- **XHD CARBIDE**
  - **A135465286** - Tiger II point 70 mm
  - **A135468886** - XHD Carbide wing 240 mm



# Spreader XHD Parts



# Spreader XHD Hardface Parts

## XHD Hardface Vanes

- The **XHD Hardface** lift vanes feature an extra layer of protection in the form of **Chromium carbide coating**. This specialized compound offers exceptional corrosion resistance and is applied through a high-temperature spraying process onto the vane's surface, forming a robust protective shield.
- Chromium carbide increases significantly wear resistance, parts last up to 3 times longer than standard ones without any influence on the spreading pattern.
- **XHD HARDFACE KIT LIFT VANES**
  - **A148715730** - (Exacta HL/TL)
  - **A148715830 HS** - (Exacta TLX)



**XHD VANE**

**STANDARD VANE**

# Visit our website:

<https://ien.kverneland.com/parts-and-service/XHD-Reinforced-Parts>



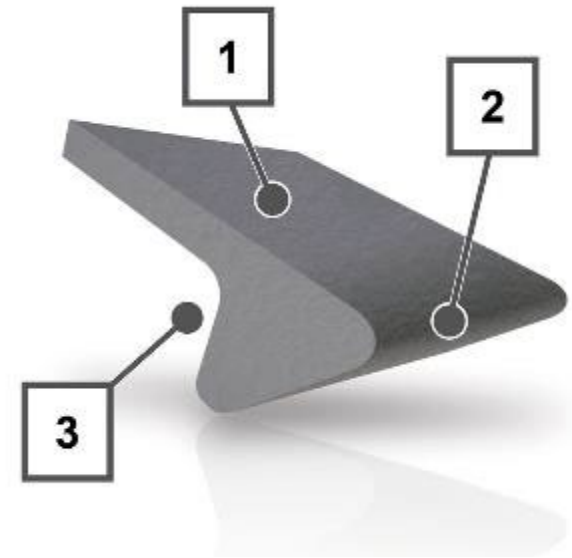
# Plough XHD+ Carbide Parts

## Introduction

- The Kverneland XHD+ Carbide range consists of parts reinforced with larger amounts of tungsten carbide. This dramatically increases the lifetime of the parts, **doubling** that of standard XHD parts and potentially reaching up to **20 times the life\*** of standard parts.
- Choosing between XHD and XHD+ is a question about balance between performance and cost. For contractors managing extensive areas and prioritizing minimal downtime, XHD+ Carbide is often the preferred choice.

*\*Based on average test conditions. Depending on soil type, moisture content, machine type, working speed, working depth, machine width and mounting position*

1. Additional protection to steel body
2. Extremely shock resistant
3. Avoids wearing the steel point



# Plough XHD Carbide Parts

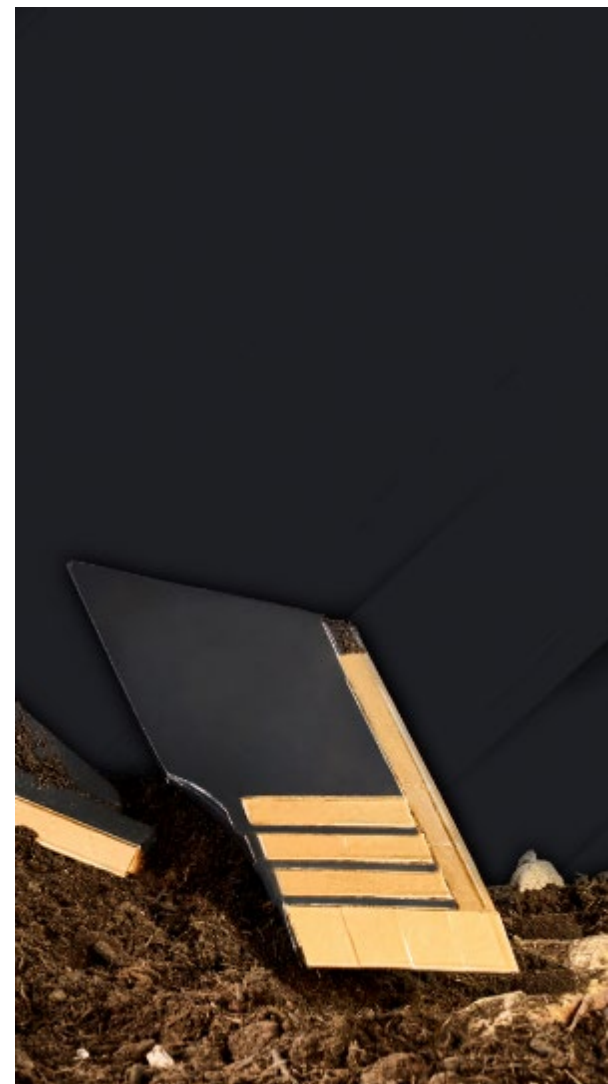
## Plough XHD+ Carbide Point

- The **XHD+ Carbide point** is protected with **14 premium-grade tungsten carbide tiles**.
  - 4 specially designed **corner tiles** are located along the leading edge and retain their specific shape and strength to give maximum protection against hard impacts and abrasive soils.
  - 3 **additional rows of tiles** have been placed on the surface and those on the outer edge protect these zones from stony and abrasive conditions.
- The XHD+ Carbide point and share ensures uninterrupted soil flow even in the driest and hardest soil conditions.



- **XHD+ CARBIDE POINT\***
  - **A152034330** - Left, bolts included
  - **A152034230** - Right, bolts included

\*XHD+ Carbide points fit body no. 8, 9, 25, 28, 34, 38, 40.



# Plough XHD Carbide Parts

## Plough XHD Carbide Share

- The **XHD+ Carbide shares** are protected with 19 (16" share) and 22 (18" share) premium-grade tungsten carbide corner tiles.
- Located along the full leading edge of the share, the tiles retain their shape and strength to give maximum protection against hard impacts and abrasive soils.
- The shares are designed to be a seamless link between the point and mouldboard and ensure a smooth flow of soil over the whole plough body with minimum friction, resulting in a longer lifetime.
- **XHD+ CARBIDE 16" SHARE\***
  - **A152031730** - Left, bolts included
  - **A152031630** - Right, bolts included
- **XHD CARBIDE 18" SHARE\***
  - **A152031930** - Left, bolts included
  - **A152031830** - Right, bolts included



\*XHD Carbide shares fit body no. 8, 9, 25, 28, 34, 38, 40.

# Power Harrow XHD Parts



# Power Harrow XHD Parts overview

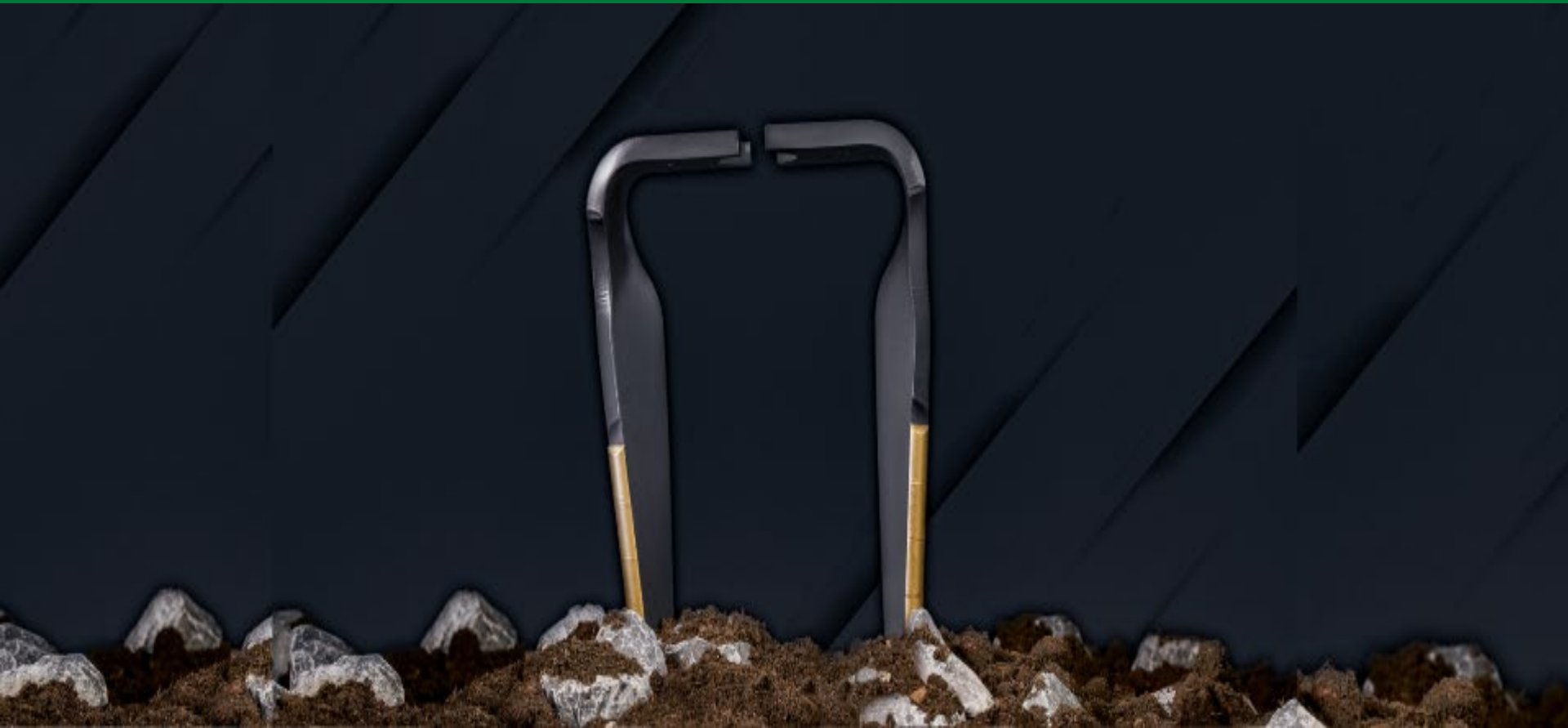
**XHD CARBIDE**



**XHD HARDFACE**



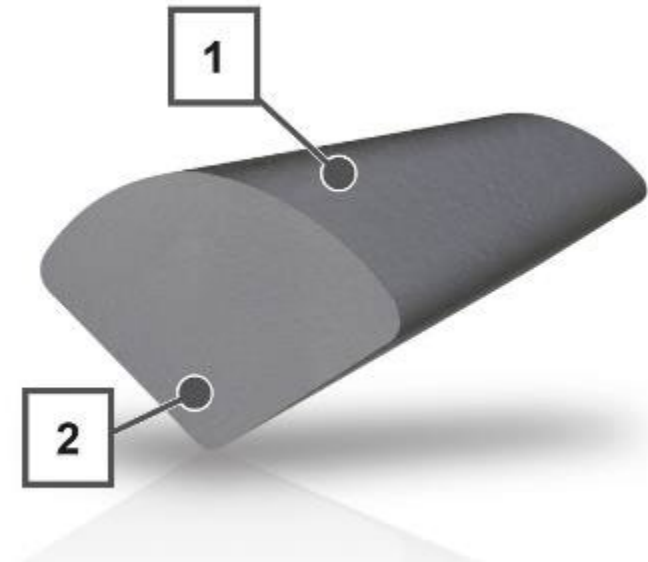
# Power Harrow XHD Carbide Parts



# Power Harrow XHD Carbide Parts

## Introduction

- Traditional Power Harrow tines are conventionally strengthened by placing a flat plate to their cutting edge. Lacking side protection, this approach leads to a considerable rise in soil resistance and renders the plates exceedingly susceptible to damage from heavy impacts.
- Kverneland **XHD Carbide tines** feature a unique **rounded tile** design that distributes strength uniformly across the tine.
- These tiles are strategically countersunk to prevent damage or loss during violent impacts.
  1. Rounded edge to even out the pressure.
  2. Countersunk into the tine for added durability.



# Power Harrow XHD Carbide Parts

## Power Harrow XHD Carbide Tine

- The Kverneland **XHD Carbide Tine** is reinforced with **4 premium-grade** Tungsten Carbide rounded tiles.
  - Specially designed tiles distribute pressure evenly on the cutting edge of the tine.
  - Enables optimal penetration and minimizes length wear.
  - Ensures consistent depth and a uniform seedbed structure.
  - XHD tine comes in two versions: 15mm (H Series) and 18mm (S Series).
- **XHD CARBIDE TINE 15MM (H Series)**
    - A156183986 - Left
    - A156184086 - Right
  - **XHD CARBIDE TINE 18MM (S Series)**
    - A156184186 - Left
    - A156184286 - Right



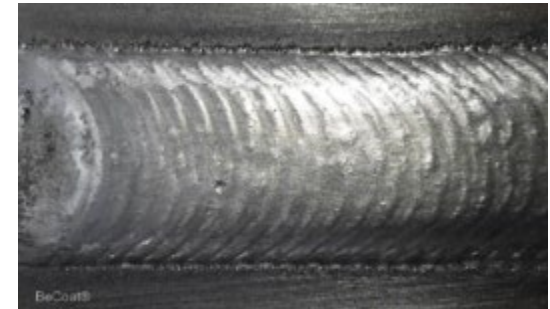
# Power Harrow XHD Hardface Parts



# Power Harrow XHD Hardface Parts

## Introduction

- Kverneland's **XHD Hardface** parts are designed for challenging soil conditions, where abrasive soils exert significant wear and require frequent part replacements, driving up costs and downtime.
- Features of the XHD Hardface range:
  - Extended part lifespan through strategic use of wear-resistant materials.
  - Parts last up to 4 times longer\* than standard ones.
  - Versatile hardfacing methods for added reinforcement flexibility.
  - Cost-effective materials and processes compared to the XHD Carbide range, providing a robust and economical solution against abrasive soil conditions that lead to increased wear.



**CARBIDE WELDING**

# Power Harrow XHD Parts

## Power Harrow XHD Hardface Tine

- Kverneland **XHD Hardface Tine** features Carbide welding reinforcement.
- Specially designed for secure bonding and increased strength in the cutting edge.
- Ensures optimal penetration and minimal wear over its lifetime.
- Available in two Quick-fit versions : 15mm (H Series) and 18mm (S Series) and one bolted version : 12mm (M Series)
- **XHD HARDFACE TINE 12MM (M Series)**
  - MAE020146S - Left
  - MAE010146S - Right
- **XHD HARDFACE TINE 15MM (H Series)**
  - MA46010151S - Left
  - MA46010150S - Right
- **XHD HARDFACE TINE 18MM (S Series)**
  - MA44010151S - Left
  - MA44010150S - Right



# Rollers XHD Parts



# Rollers XHD Hardface Parts

## Introduction

- Kverneland **XHD Hardface** range employs **Carbide coating** for parts exposed to medium wear and stress.
- The process involves heating a special paste containing small, flat carbide plates until it becomes liquid. The parts are immersed in this liquid to strengthen strategic high-wear and high-stress areas.
- Multiple layers of **Carbide coating** are applied until the desired level of reinforcement is achieved.
- This results in a robust, yet flexible surface, extending the part's lifetime by 4-5 time and preventing breakages (depending on soil, speed, etc.).
- It also reduces the need for frequent adjustments during the working season, ensuring consistent roller performance across all soil conditions.



# WHEN FARMING MEANS BUSINESS