MINING PRODUCTS

HENSLEY®
### Hensley Industries

Hensley Industries has provided parts to the mining and construction industry since 1947. Over the years, our highly skilled team has developed an expertise in the development and manufacture of ground engaging tools, buckets, cutting edges, and specialty attachments. We are committed to offering a superior level of service and the highest quality products to the customers in the industries we serve.

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BACKHOE BUCKETS
120 - 800 TON CLASS

These buckets are designed to offer improved productivity, greater strength and longer life. Coming standard with the field proven XS tooth system and multiple wear protection options.

- Custom capacities available to meet your production needs
- J-bolt lip and wing shrouds provide safe and easy installation and removals
- Bimetallic products for added wear protection
- Cast corner heel shrouds and wear runners help protect against severe abrasion
- Available with chromium carbide plate, inside and outside KVX wear strips, or 400 & 500 BHN wear material
- Specialized wear packages are available to meet your needs

WHEEL LOADER BUCKETS
100 - 250 TON CLASS

These buckets are designed for use in various applications and materials for a positive return on your investment.

- Equipped with Hensley GET systems and wear products.
- Lip protectors
- Mechanically attached j-bolt lip shrouds
- Bolt on cast half arrow segments with cast top covers
- Specialized wear packages available to meet job requirements
- Inside liner wear plates wear resistant 400-450-500 HB steel
- Inside KVX wear bars
- Inside Chromium Carbide plates or strips
- Rock deflectors come standard
HYDRAULIC FACE SHOVEL BUCKETS
120 - 800 TON CLASS

Hensley has expanded its mining product line and is now offering hydraulic face shovel buckets. These replacement fronts and backboards offer improved productivity, greater strength and longer life. Buckets available for 100 ton – 800 ton machines.

- 100 ton – 400 ton machines are featured with a plate lip with weld-on XS adapters
- 500 ton – 800 ton machines are featured with a cast lip with Hensley’s TS series teeth and adapters
- Hammerless XS and TS series G.E.T. are safe and easy to install and change
- J-bolt lip and wing shrouds provide safe and easy installation and removals
- Bimetallic products for added wear protection
- Cast corner heel shrouds and wear runners help protect against severe abrasion
- Available with KVX strips, or 400 & 500 BHN wear material
- Optional specialized wear packages are offered to meet your needs
CAST LIP SYSTEM

EXTREME ENDURANCE
BUILT TO STAND UP TO THE APPLICATION

Designed and built for maximum strength, productivity and wear life. Multiple wear packages allow you to customize the protection to fit your application.

WEAR PACKAGE 3
STANDARD DUTY

Designed and built for and maximum strength in a low abrasive environment, productivity and high wear life. Hensley offers wear packages that allow you to customize the protection to best fit your application. Offered in 163”, 169”, 185” & 201” widths.

- Manufactured with quality material for superior strength and wear resistance
- Quick component replacement
- Bimetallic buttons on top of 163” or 169” lips
- Wear Runners used on the 201” lips
- Bimetallic on the sides of all cast lips

WEAR PACKAGE 4
HEAVY DUTY

Designed and built for and maximum strength in a high abrasive environment, productivity and high wear life. Hensley offers wear packages that allow you to customize the protection to best fit your application. Offered in 163”, 169”, 185” & 201” widths.

- Manufactured with quality material for superior strength and wear resistance
- Quick component replacement
- Wear runners on top and bottom
- Mechanically attached wear caps
- Bimetallic on the sides of all cast lips
Designed and built for maximum strength, productivity and wear life. Multiple wear packages allow you to customize the protection to fit your application.

**LHD EDGE SYSTEM**  
**J-BOLT SYSTEM FOR LHD TRAMS**

Hensley offers a J-Bolt Edge System for LHD [load-haul-dump] tram loaders. This patented system offers maximum bucket lip protection plus several advantages over conventional weld-on shrouds.

- The Hensley J-Bolt Edge System is designed as a bolt-on system for quick and easy assembly [some initial welding required]
- Constructed of harder alloy for longer wear life
- The low profile/sharp contour design gives better penetration, reducing cycle times and overall wear on tires and machine
- Complete shroud changes in minutes rather than days. The Hensley J-Bolt Edge System gives you increased wear life, greater productivity and faster change outs.
- Can be used with buckets that have ejector plates.

**LHD EDGE SYSTEM**  
**WELD-ON SYSTEM FOR LHD TRAMS**

The patented cast alloy lip shrouds provide maximum protection for bucket lips used on LHD [load-haul-dump] tram loaders.

- The Hensley weld-on lip shrouds offer extra material in high wear areas
- Sharp contour design for better penetration, reducing cycle times and overall wear on tires and machine
- Versatility to fit several different bucket widths
- Constructed of harder alloy for longer wear life
The XS tooth system will improve the digging and loading performance of your earthmoving machines. The streamline profile increases penetration and material flow to ensure you get the most from your digging attachments. With XS systems, machine operators are properly equipped to maximize payloads and improve cycle times. With proper installation and maintenance, end users can realize improvements in fuel consumption and costs per ton. Most importantly, XS systems are safer and easier to maintain.

**EASY INSTALLATION**

**QUICK CHANGE-OUT**

The simple and intuitive fastening system makes the XS tooth system one of the best and most reliable solutions on the market today. With an XS system, it takes just minutes to change teeth.

**STEP 1**

Place tooth onto adapter, always observing proper safety procedures.

**STEP 2**

Insert fastener, making sure it is in the unlocked position.

**STEP 3**

Rotate the pin locking shaft clockwise 90° to lock teeth into position.

**EXTREME DURABILITY**

**HARDNESS RIGHT TO THE CORE**

XS teeth are built to the highest standard. All XS system parts are heat treated to meet critical specifications for strength and durability, not only on the surface but right to the core.

**EXTREME PRODUCTIVITY**

**HIGHER CONSUMPTION RATIO**

60% CONSUMABLE STEEL

XS teeth maximize consumption ratios without unnecessary bulk providing longer wear life, improved performance and less throw away.
### EXCAVATOR AND LOADER TEETH
FOR EVERY APPLICATION

XS tooth systems are available for every application. The high quality steel and unique designs minimize downtime, increase productivity, and reduce costs. Tooth changes are quick with reduced maintenance; components are specially designed to withstand extreme impacts and high abrasion.

#### EXCAVATOR

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<th>ROCK CHISEL</th>
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<td>Designed for better penetration and long wear life</td>
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<td>Offers longer life penetration of corners</td>
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#### LOADER

<table>
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<td>Abrasion resistance with great penetration</td>
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<td></td>
<td>Made for high abrasion with medium impact</td>
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<td>Maximum wear material and strength</td>
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The TS system is the total solution for extreme mining applications. Featuring a hammerless design and full protection between components for increased wear life and greater material flow. Components are specially designed to deliver maximum penetration and faster cycle time. Hensley’s high quality steel and unique designs reduce downtime and increase productivity. Tooth change out is quick and maintenance free. Most importantly, TS systems are safe and easy to maintain.

**EXTREME PERFORMANCE**
**MAXIMIZE YOUR PRODUCTION**

**TS INSTALLATION**
**TS PSL PIN**

**STEP 1**
Insert pin into adapter.

**STEP 2**
Install Tooth onto adapter.

**STEP 3**
Rotate and lock pin.
- A) Rotate pin clockwise 200°
- B) Verify all 3 engraved markings are aligned

**STEP 4**
Click confirms locked position.

**ROTONAX**
**INTERMEDIATE ADAPTERS**

TS solutions utilize the innovative and reusable Rotomax fastening system to reduce maintenance and downtime.

- Rotomax features a takeup function to help ensure a tight fit against lip. Simple rotation of 180° makes the Rotomax fastener simple to maintain.
TS SYSTEM TEETH  
DESIGNED FOR EVERY APPLICATION

The TS system is specially designed to withstand extreme impacts and high abrasion. The high quality casting and unique designs minimize downtime, increase productivity, and reduce costs. The TS system is safer and a more reliable wear solution for increasing machine performance.

CAST LIP TEETH

**RML**
**ROCK CHISEL**
Designed for better penetration and long wear life

**RXL**
**STANDARD**
Standard applications

**MA**
**CHISEL**
General purpose tooth designed for penetration

**H**
**SHORT**
High impact application and prying

**TAP**
**TIGER**
Designed for better penetration

**TAPS**
**TWIN TIGER**
Offers longer life penetration of corners

J-BOLT SHROUDS

GENERAL

Available for hydraulic excavators, loaders and LHD tram buckets, Hensley’s J-Bolt Lip Shrouds offer a quick and effective solution to add wear protection. Mechanically attached shrouds are made from a harder alloy achieving greater wear and abrasion resistance than weld-on shrouds.

- The Hensley J-Bolt Lip Shrouds are a mechanical system for quick, safe and easy assembly.
- Higher hardness than weld-on shrouds for longer wear life.
- Currently available for 2” [51mm] through 6-1/4” [159mm] lips.
- Mechanical system is self-tightening to the lip, reducing wear.
- Shroud changes are quick, and downtime reduced.
- Safe installation and removal.
The XSC tooth system will improve the digging and loading performance of your rope shovel machines. The streamline profile increases penetration and material flow to ensure you get the most from your equipment. With the XSC system machine operators are properly equipped to maximize payloads and improve cycle times. With proper installation and maintenance, end users can realize improvements in fuel consumption and lower costs per ton. Most importantly, XSC tooth system is safer and easier to maintain.

**HAMMERLESS INSTALLATION**

**WHISLER 10 & WHISLER 12**

**STEP 1**
Gauge Lip - Ensure the lip is within specification for proper install and does not require rebuild. Check both the horizontal and vertical axis.

**STEP 2**
Position Adapter - Using proper equipment and safety procedures, move adapter onto the lip.

**STEP 3**
Insert c-clamp and shim.

**STEP 4**
Insert wedge from the top and turn shim shaft clockwise to 400 ft./lb. torque.

**EXTREME DURABILITY**

**HARDNESS RIGHT TO THE CORE**

XSC teeth are built to the highest standard. All XSC system parts are heat treated to meet critical specifications for strength and durability, not only on the surface but through hardened.

**STREAMLINE PROFILE**

**INCREASED MATERIAL FLOW**

The unique profile increases penetration and material flow. Improving machine efficiency, reducing fuel consumption, and cost per ton.
ROPE SHOVEL TEETH
FOR EVERY APPLICATION
The XSC tooth system is specially designed to help withstand extreme impacts and high abrasion. The high quality castings and unique designs minimize downtime, increases productivity, and reduces costs. Hensley XSC tooth system provides a safer and more reliable wear solution for increasing machine performance.

ROPE SHOVEL

RMHL
HEAVY DUTY
Standard heavy application and longer wear life

RM
STANDARD
Overall applications

RMX
CHISEL
Standard application tooth designed for penetration

TS
SHORT
High impact application

S
SHORT
High abrasion application

SD
ROCK CHISEL
Designed for better penetration and long wear life

XSC12 INSTALLATION
XSC12 PSL PIN

STEP 1
Insert pin into adapter.

STEP 2
Install Tooth onto adapter.

STEP 3
Rotate and lock pin.
A) Rotate pin clockwise 200°
B) Verify all 3 engraved markings are aligned

STEP 4
Click confirms locked position.

XSC127 INSTALLATION
XSC127 PIN

STEP 1
Place tooth onto adapter, always observing proper safety procedures.

STEP 2
Insert fastener, making sure it is in the unlocked position.

STEP 3
Rotate the pin locking shaft clockwise 90° to lock teeth into position.

ROPE SHOVEL TEETH
FOR EVERY APPLICATION
The XSC tooth system is specially designed to help withstand extreme impacts and high abrasion. The high quality castings and unique designs minimize downtime, increases productivity, and reduces costs. Hensley XSC tooth system provides a safer and more reliable wear solution for increasing machine performance.

ROPE SHOVEL

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HEAVY DUTY
Standard heavy application and longer wear life

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Overall applications

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CHISEL
Standard application tooth designed for penetration

TS
SHORT
High impact application

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High abrasion application

SD
ROCK CHISEL
Designed for better penetration and long wear life

XSC12 INSTALLATION
XSC12 PSL PIN

STEP 1
Insert pin into adapter.

STEP 2
Install Tooth onto adapter.

STEP 3
Rotate and lock pin.
A) Rotate pin clockwise 200°
B) Verify all 3 engraved markings are aligned

STEP 4
Click confirms locked position.

XSC127 INSTALLATION
XSC127 PIN

STEP 1
Place tooth onto adapter, always observing proper safety procedures.

STEP 2
Insert fastener, making sure it is in the unlocked position.

STEP 3
Rotate the pin locking shaft clockwise 90° to lock teeth into position.
Hensley has you covered when it comes to wear protection. Hensley provides complete wear solutions to fit your needs. Hensley’s wear solutions come in various sizes, shapes, and hardness maximizing your production while protecting your investment. These products feature a high chromium white iron metallurgically bonded to a mild steel backing plate. The white iron has a hardness of at least 700 Brinell and provides incredible abrasion resistance while the mild steel backing plate is easily weldable with minimal preparation.

**BIMETALLIC**  
**HARDNESS RIGHT TO THE CORE**

Hensley’s Bimetallic Wear Resistant Products are designed to protect your equipment from impact and high abrasion, reduce your maintenance costs, and keep your machines and attachments running for longer periods of time.

### PRODUCTS
- Chocky Bars
- Wear Buttons
- Bolt Protectors
- Skid Bars
- Wear Bars
- Grizzly Bars

### APPLICATIONS
- GET Adapters
- GET Wear Caps
- Bucket Protection
- Crusher Liners
- Conveyor Chutes
- Feeder Deck Plates
- Grizzly Screens

### FEATURES
- Abrasion Resistance
- Impact Protection
- Simple Installation
- Easily Weldable
- Many Applications
- Custom Fit
- Reduce Maintenance
- Extend Work Cycles
WEAR PROTECTION

WELD-ON HEEL SHROUDS  
SUPERIOR PROTECTION
Hensley Weld-on Bucket Heel Shrouds are designed to protect high wear areas such as the corner edges on excavator, loader, and face shovel buckets. These cast Heel Shrouds are 300+ Brinell and provide superior wear protection.

REVERSIBLE VERTICAL SHROUD  
SUPERIOR PROTECTION
Designed for loaders and excavators, reversible vertical shrouds are to be used on both sides of the bucket for added protection. These wear parts eliminate the need for weld-on shroud mounts and are interchangeable in any position, allowing operators to fully utilize these components and maximize wear life.

J-BOLT SHROUDS  
GENERAL
Available for hydraulic excavators, loaders and LHD tram buckets, Hensley’s J-Bolt Lip Shrouds offer a quick and effective solution to add wear protection. Mechanically attached shrouds are made from a harder alloy achieving greater wear and abrasion resistance than weld-on shrouds.

- The Hensley J-Bolt Lip Shrouds are a mechanical system for quick, safe and easy assembly.
- Higher hardness than weld-on shrouds for longer wear life.
- Currently available for 2” [51mm] through 6-1/4” [159mm] lips.
- Mechanical system is self-tightening to the lip, reducing wear.
- Shroud changes are quick, and downtime reduced.
- Safe installation and removal.

WEAR BARS  
PROTECTING YOUR INVESTMENT
All wear bars are made from high quality steel and are completely through hardened to 500 Brinell having the optimal combination of hardness, abrasion resistance and toughness. Wear bars are used as protection on buckets, in crushers, in dump truck bodies, and in a broad range of other applications where impact and wear protection is required. To top off all of these benefits, our customers typically report that Hensley wear bars are even more “welding friendly” than most competitive bar alternatives, even those of significantly lower material grade.

GROUSER BARS  
HARDNESS RIGHT TO THE CORE
Hensley Grouser Bars are 500 HB quality, extremely shock and wear resistant; providing the optimum solution for crawler tractors working on hard and abrasive rock surfaces. Their special design will ensure quick, easy, and economical welding and provide superior penetration capabilities; restoring traction and improving fuel economy. Grouser Bars are available in the length of 3 meters [10 feet] and can be cut to requested size upon request.
Hensley offers an extensive line of blades and end bits for all makes and models of dozers. Blades and end bits are fabricated using cast alloy or through-hardened carbon steel to exacting specifications to meet the demanding needs of earth moving applications. With innovative solutions and high quality materials, Hensley blades and accessories are engineered to deliver maximum performance and long lifespan with the lowest cost.

**Extreme Endurance**

_**Built to Stand Up to the Application**_

Hensley manufactures cast alloy dozer edges and end bits for the toughest construction and mining applications. Hensley’s 3E alloy steel provides excellent wear characteristic with superior impact resistance.

- Superior design – added material into the high wear areas
- Same standard mounting bolt pattern with rolled steel blades
- Hensley’s 3E alloy steel is through-hardened for maximum durability
- Longer wear life with fewer change outs to lower maintenance costs

**Rolled Steel**

_Hardness Right to the Core_

Hensley manufactures a complete line of rolled steel edges and end bits for all makes and models of dozers. All the edges are through-hardened to give the best wear life and protection against breakage in high impact applications.

- Available standard, heavy duty and extra heavy duty options
- Edges and end bits help to protect the main blade assembly
- Through-hardened blades provides long wear life improving productivity
- Carbide impregnated blades for extreme-abrasion, moderate-impact applications

**Cast Alloy**

_Solution for Tough Applications_

Hensley manufactures cast alloy dozer edges and end bits for the toughest construction and mining applications. Hensley’s 3E alloy steel provides excellent wear characteristic with superior impact resistance.

- Available standard, heavy duty and extra heavy duty options
- Edges and end bits help to protect the main blade assembly
- Through-hardened blades provides long wear life improving productivity
- Carbide impregnated blades for extreme-abrasion, moderate-impact applications
Hensley offers an extensive line of half-arrow segments, top covers, base edges, cutting edges and wear plates for all makes and models of wheel loaders. Top covers and wear plates are fabricated using cast alloy; base edges and cutting edges are through hardened carbon steel. Half-arrows are available in both cast alloy and through hardened carbon steel. All loader blades are made to exacting specifications to meet the demanding needs of earth moving applications. With innovative solutions and high quality materials, Hensley blades and accessories are engineered to deliver maximum performance and a long lifespan with the lowest cost.

**EXTREME ENDURANCE**
**BUILT TO STAND UP TO THE APPLICATION**

Every manufacturer has unique bolt pattern for their loader edges. Hensley manufactures OEM, aftermarket and custom design rolled steel loader edges to fulfill the customer requirements. All of the edges are through hardened to give the best wear life and protection against breakage in high impact applications.

- Base edges, half arrow edges and bolt on cutting edges
- Edges help to improve penetration and protect the main edge of the bucket
- Through-hardened blades provides long wear life improving productivity
- Carbide impregnated blades for extreme-abrasion, moderate-impact applications

**ROLLED STEEL**
**HARDNESS RIGHT TO THE CORE**

**CAST ALLOY**
**SOLUTION FOR TOUGH APPLICATIONS**

Hensley manufactures cast alloy loader edges and segments for the toughest construction and mining applications. Hensley’s 3E alloy steel provides excellent wear characteristic with superior impact resistance.

- Half arrow edges and segments, wear plates and top covers
- Superior design – added material into the high wear areas
- Improved bucket penetration and optimized material flow
- Hensley's 3E alloy steel is through-hardened for maximum durability
- Long wear life with fewer change outs to lower maintenance costs
Since 1947, Hensley Industries, Inc. has dedicated itself to providing superior products and service across the globe. Hensley's continuous commitment to safety, quality, reliability and our customers enables us to help those in the field every day.

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