MINING PRODUCTS

IT'S A BIG WORLD
LET'S MOVE IT!
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For more product details and contact information, please visit our website.
EXTREME STRENGTH/PERFORMANCE
THE STRONGER THE NOSE, THE LONGER LASTING THE SYSTEM

We’ve got the right tooth shape for all your application needs. The XS² System has a unique square nose design that combines strength and durability with a one-piece, hammerless pin for quick, safe installation and maintenance. The XS² System nose has a design that reduces areas of stress concentration under load.

EASY INSTALLATION, QUICK CHANGE-OUT

Easy and quick installation and replacement is a great advantage of the XS² System. It just takes minutes to change teeth. Simply unlock the fastener with a socket wrench, remove the worn tooth, put on a new tooth and you’re ready to go back to work.

STEP 1
As shown, place tooth onto adapter, always observing proper safety procedures.

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

STEP 3
To lock, use the correct size socket, rotate the pin locking shaft 90° clockwise to finish the installation.

STEP 4
When removing the fastener, use the correct size socket to rotate the pin-locking shaft 90° counter-clockwise.

EXTREME PRODUCTIVITY
HIGHER CONSUMPTION RATIO, 60% PLUS CONSUMABLE STEEL

XS² System teeth are designed for maximum strength and consumption ratios without unnecessary bulk. XS² teeth remain sharp and penetrate longer, so you can work longer.

The Tooth Consumption Ratio for ground engaging tools indicates the percentage of available wear material on the whole tooth. The greater the ratio, the better the value because more of the tooth is used and less is thrown away.

For example, a 25 lb. tooth with a 40% consumption ratio yields 15 lbs. of scrap material when the tooth wears out. A 25 lb. tooth with a 60% consumption ratio would only scrap 10 lbs. of material.

Bottom line, the XS² System gives you longer life, improved performance and less waste.

The XS² RC style tooth shown here offers a consumption ratio of 60%.
Hensley’s hammerless fastening system for Whisler adapters eliminates the need for hammers. No lip modification is required for the installation. The system fits standard Whisler lips. The XSC System features high usable wear material, a 12 to 1 tooth-to-adapter ratio target and a cost-saving reusable pin system. It is currently available in WH-10 and WH-12 sizes.

HAMMERLESS FASTENING SYSTEM FOR WHISLER ADAPTERS & TOOTH SYSTEM

System Features:
- Safe and easy - no hammer needed for installation or removal.
- No lip modification required. Fits standard Whisler lips.
- Quicker adapter change out.
- Hammerless adapter fasteners available for WH-10 and WH-12.
- Eliminates need to work under dipper.
- The newly designed adapter nose and tooth pocket is engineered to create a tight tooth-to-adapter fit for extended wear life and greater efficiency.

System Benefits:
- Adapter
  - Tooth to adapter ratio – 12 to 1 Target
- Tooth
  - High usable wear material
  - High dipper fill factor
  - Reusable pin system
  - Multiple tooth styles available
  - Tooth design helps material flow away from adapter to prolong adapter life.
TS SYSTEM FOR DRAGLINES AND HYDRAULIC EXCAVATORS
SPECIALY DESIGNED FOR EASE OF INSTALLATION AND PENETRATION

To achieve the highest levels of productivity, consider using Hensley cast lips for your next lip replacement or new bucket.

- Available in multiple wear packages (wear package 4A shown)
- Streamlined design for better penetration
- Manufactured of high quality steel for superior strength and wear resistance
- Mechanical wearcap added for lip protection and quick replacement
- Full protection in between components to reduce lip washout and wear
- J-bolt shrouds are designed for easy and safe installation and removal
- TS Series teeth and adapters are designed for safe and easy installation and replacement
- Available for the 500 ton to 800 ton class hydraulic excavators

CAST LIPS
AVAILABLE IN 163”, 169” & 201” SIZES

The more work you throw at Hensley TS Series teeth and adapters, the more you will appreciate their value in your operation. Components are specially designed to deliver maximum penetration and faster cycle times. Hensley’s high quality steel standards and uniquely engineered TS System design minimizes downtime, maximizes productivity and is designed for virtually every application.

- Totally hammerless design
- Reusable intermediate adapter pin and tooth pin
- Stabilizer on nose for tighter tooth-to-adapter fit
- Low profile shape for reduced stress
- Multiple tooth styles available

<table>
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<tr>
<th>TS Series</th>
<th>Dragline Bucket</th>
<th>Excavator Class</th>
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<tr>
<td>TS 922</td>
<td>14 to 54 m³</td>
<td>400 ton</td>
</tr>
<tr>
<td>TS 1122</td>
<td>42 to 76 m³</td>
<td>500 ton</td>
</tr>
<tr>
<td>TS 1222</td>
<td>50 to 115 m³</td>
<td>800 ton</td>
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WEAR PROTECTION

J-BOLT SHROUDS-GENERAL

Hensley’s J-Bolt Lip Shrouds offer a quick and effective solution to add wear protection. Available for hydraulic excavators, loaders and LHD tram buckets. Some simple welding is required for the installation of the mounting base to the lip. The shrouds are mechanically attached by glue to the base making installation, removal and replacement as easy as turning a socket. 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.

BIMETALLIC

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.

Available in a variety of shapes and sizes, these products are easily installed, and can be cut or bent prior to welding to provide customized protection for areas of high wear.

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APPLICATIONS

- Weld-on Adapters and Wear Caps
- Dragline Bucket Protection
- Excavator Bucket Protection
- Conveyor Chute Liners
- Feeder Deck Plates
- Quarry and Mining Grizzly Screens
- Truck Bed Liners

For more product details and contact information, please visit our website.
WELD-ON SHROUDS

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.

<table>
<thead>
<tr>
<th>WELD-ON HEEL SHROUD</th>
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<tr>
<td>ES66972HX</td>
<td>45 lbs /20.4 kg</td>
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<tr>
<td>ES66973HX</td>
<td>28.5 lbs / 12.9 kg</td>
</tr>
<tr>
<td>ES66974HX</td>
<td>22.30 lbs / 10.1 kg</td>
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<tr>
<td>ES66975HX</td>
<td>84 lbs / 38.1 kg</td>
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<tr>
<td>ES66977HX</td>
<td>187 lbs / 84.9 kg</td>
</tr>
<tr>
<td>1386551MHX</td>
<td>38.2 lbs / 17.3 kg</td>
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</tbody>
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**WEAR PROTECTION**

**LHD (J-BOLT & WELD-ON EDGE 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.

Hensley also offers and weld-on edge system for LHD tram loaders.
- 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.
- Can be used with buckets that have ejector plates.

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For more product details and contact information, please visit our website.
Hensley offers a complete line of direct replacement parts for mining G.E.T., and a wide selection of replacement parts for OEMs to be used with Hensley excavator buckets and most other bucket brands. We also offer our Dura brand as a high quality and low cost alternative.

**SIDECUTTERS**
Hensley J-bolt style wing shrouds are designed to protect your bucket and improve productivity. The J-bolt design makes for quicker installations and removals.

**LIP SHROUDS**
Hensley has a wide range of universal lip shrouds available in weld-on, and J-bolts styles for virtually any machine.

**CAST CORNER SHROUDS**
Hensley offers a large selection of weld-on corner shrouds that can be easily added to any bucket subject to this type of wear.
VERTICAL SHROUDS
Hensley offers a large selection of vertical shrouds with different styles and sizes to match a wide range of equipment.

BIMETALLIC
Equip your machines and attachments with Bimetallic wear products to protect from impact and high abrasion.

WEAR STRIPS
Horizontal and vertical wear strips offer abrasion resistance to your bucket. Made of harder alloy, use them to protect the inside and outside of your bucket.

BOLT-ON WEAR RUNNERS
Hensley wear runners extend equipment life. Designed for end-to-end or side-to-side positioning on all high-wear areas, they provide continuous protection against severe abrasion. Fast, easy change-out is made possible by the weld-on base and bolt-on runner design.
Even in the most extreme conditions, Hensley wear protection products deliver exceptional performance and value. Easy to assemble and install, Hensley products for wheel loaders reduce downtime and maximize productive uptime.

**LIP SHROUDS**
Without lip shrouds the leading edge of the bucket is exposed to constant abrasive wear. Hensley has a wide range of J-bolt style lip shrouds for virtually any machine.

**WING SHROUDS**
Wing shrouds protect the cheek plates of buckets. Hensley offers a large line-up of J-bolt style wing shrouds in several sizes to match a wide range of equipment.
BOLT-ON WEAR RUNNERS
Hensley wear runners extend equipment life. Designed for end-to-end or side-to-side positioning on all high-wear areas, they provide continuous protection against severe abrasion. Fast, easy change-out is made possible by the weld-on base and bolt-on runner design.

VERTICAL SHROUDS
Vertical shrouds protect the cheek plates of excavator and loader buckets. Hensley offers a large selection of vertical shrouds with different styles and sizes to match a wide range of equipment. Proprietary systems are available to retrofit any bucket and offer the convenience of a pin-on system that offers easy replacement. Universal weld-on shrouds and direct replacements are also available.

OPTIONAL WEAR PROTECTION:

SEGMENTS & TOP COVERS
A full line available which consists of both rolled and cast steel versions of loaders lip protection for the major loader manufactures. The combination of bottom and top lip protections is provided by both segments and top covers.

LAMINTE®
Laminite® delivers the ultimate protection against impact and high abrasion in some of the harshest conditions. The result: reduced maintenance and less downtime.
Hensley’s extensive line of ripper and edge protection systems offers a range of hard-working solutions for large dozers.

**BOLT-ON EDGES**
A complete line of cast, bolt-on edge systems feature harder steel for longer life, and the best combination of impact and abrasion resistance. Available in both cast and rolled steel.

**SHANK GUARDS**
Mechanically attached lower ripper shank protection for mid to large size dozers.

**TUNGSTEN CARBIDE AVAILABLE**
Use carbide to increase the wear protection for cast or rolled steel blades and end bits.

**RIPPER TEETH**
Multiple tip options available to maximize penetration.

**END BITS**
Standard or heavy duty bits available in cast or rolled steel.

**RIPPER SHANKS**
Complete Ripper Shanks are available for Komatsu and Cat dozers and other mid to large size dozers.

**WELD-ON NOSES & LOWER SEGMENTS (NOT SHOWN)**
For repairs of damaged or broken ripper shanks.
For more product details and contact information, please visit our website.
Safety First! Hensley Industries recommends that you use a soft-faced hammer and ANSI (Z87.1) approved eye protection when using our products.

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