



GET

# **HENSLEY XS - MINING SOLUTIONS**

Strength. Durability. Performance. Productivity



**KOMATSU**  
*Driven by your success*



# HENSLEY EXTREME SERVICE



## EXTREME STRENGTH

### High performance, lasting value

Construction operations worldwide depend on the safe, cost effective performance of Hensley Ground Engaging Tool (GET) systems. The XS System of GET uses strength, durability, performance and productivity to the extreme.

We know what it takes for construction equipment to run efficiently and cost effectively. Our engineers analyzed how these machines operate, and designed a system with a wide range of safe, economical and hard-working solutions. Years of research and testing have helped us create one of the most productive, cost effective and user friendly systems available.

## A SYSTEM SO GOOD IT'S PATENTED

Hensley Engineering has created a unique GET. System. The XS System is patent protected and offers an impressive list of benefits:

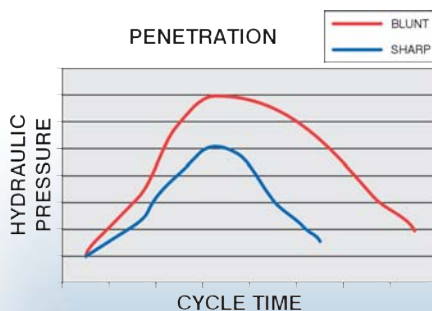
- Better penetration
- Consistent hardness through the tooth
- High strength design
- Reusable fastener
- Less "throw away", more usable steel
- Fast tooth change out
- Reversible tooth
- Mechanical adapter wearcap in large sizes



## EXTREME DURABILITY

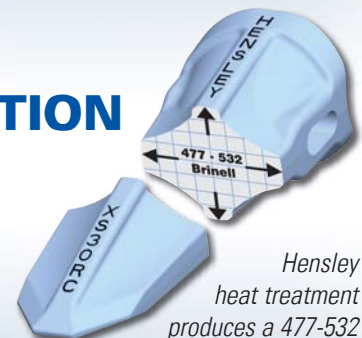
### Hardness right to the core

XS System teeth are manufactured to a higher standard. All XS System teeth are heat treated to meet critical specifications for strength and durability, not only on the surface but right to the core.



## BETTER PENETRATION REDUCES CYCLE TIMES

The XS System's streamlined design and self-sharpening teeth contribute to better penetration. This reduces cycle times, requires less hydraulic pressure, and improves fuel consumption and overall production.

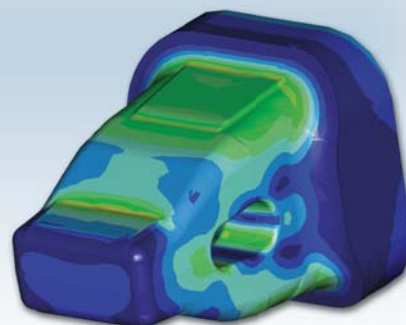


*Hensley heat treatment produces a 477-532 Brinell level of hardness throughout the tooth.*

## EXTREME PERFORMANCE

The greater the nose, the longer lasting the system

We've got the right 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.



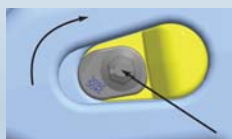
### STEP 2

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



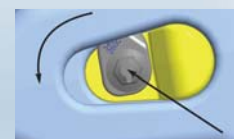
### STEP 3

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

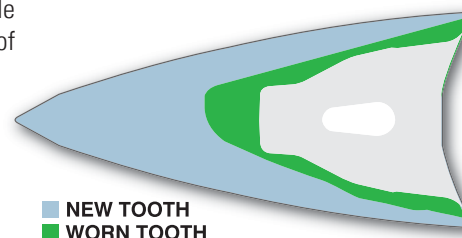
Higher consumption ratio, 60% consumable steel

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 11.4kg tooth with a 40% consumption ratio yields 6.8kg of scrap material when the tooth wears out. A 11.4kg tooth with a 60% consumption ratio would only scrap 4.6kg 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%.



## XS2 TOOTH STYLES

### EXCAVATOR AND LOADER TEETH

Designed for virtually every application

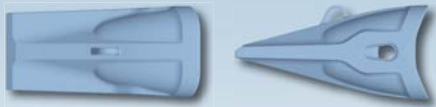
From loose dirt and crushed concrete to the most abrasive mining applications, the high quality steel and unique design of the XS2 System minimizes downtime and maximizes productivity. From hydraulic excavators to loaders, the XS2 System improves safety and reduces costs. Below is our current listing of square nose style teeth, and more styles are under development.

#### EXCAVATOR

**SYL**

**Standard:**

General applications



**HD**

**Heavy Duty:**

General application and longer wear life



**SD**

**Chisel:**

General purpose tooth designed for penetration



**UT**

**Twin Tiger:**

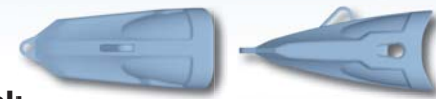
Offers longer life penetration of corners



**RC**

**Rock Chisel:**

Designed for better penetration and long wear life



**SC**

**Short:**

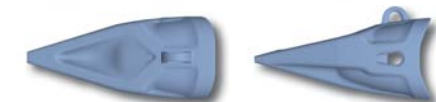
High impact application and prying



**TV**

**Tiger:**

Offers best penetration in tight material



#### LOADER



**RPX**

**Rock Penetrator Heavy:** More material for longer wear life



**RPHL**

**Rock Penetrator Long:** Offers longer wear life

# XS2 SERIES RECOMMENDATIONS

## COMPLETE SERIES FOR EXCAVATORS AND LOADERS

Maximising performance in severe applications

Always use the Extreme Service recommended series when your machine is designed for severe applications. Selecting a series that is too small for your machine or application will likely result in product failure.

SERIES	STANDARD / HEAVY DUTY		EXTREME SERVICE	
	START	END	START	END
XS85	88,633	119,115	66,475	89,337
XS115	119,115	187,654	89,337	140,741
XS122*	119,115	187,654	89,337	140,741
XS145	187,654	269,983	140,741	202,487
XS152*	187,654	269,983	140,741	202,487
XS250	269,983	351,540	202,487	263,655
XS252*	269,983	351,540	202,487	263,655
XS340	351,540	444,528	263,655	362,880
XS342*	351,540	444,528	263,655	362,880

BASED ON MACHINE OPERATING WEIGHT (KILOGRAMS)

\*Square nose style

SERIES	STANDARD / HEAVY DUTY		EXTREME SERVICE	
	START	END	START	END
XS85	71,578	90,266	57,262	72,213
XS115	90,266	112,039	72,213	89,631
XS122*	90,266	112,039	72,213	89,631
XS145	112,039	133,812	-	-
XS152*	112,039	133,812	-	-

BASED ON MACHINE BREAKOUT FORCE (KILOGRAMS)

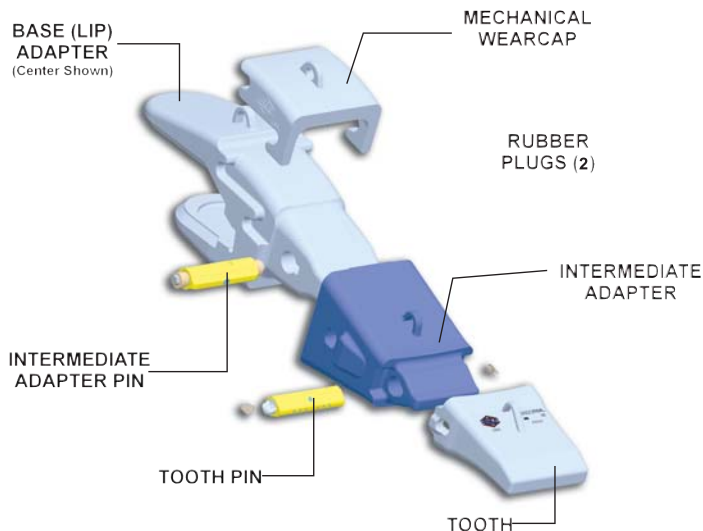
\*Square nose style



# TS SYSTEM FOR DRAGLINES & LARGE HYDRAULICS

## TS SERIES TEETH

Specially designed for ease of installation and penetration



TS Series	Dragline Bucket	Excavator Class
TS 922	14 to 54 m³	400 ton
TS 1122	42 to 76 m³	500 ton
TS 1222	50 to 115 m³	800 ton

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 cycles.

Hensley's high quality steel standards and uniquely engineered XS2 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
- Unique high-strength design
- Low profile shape for reduced stress

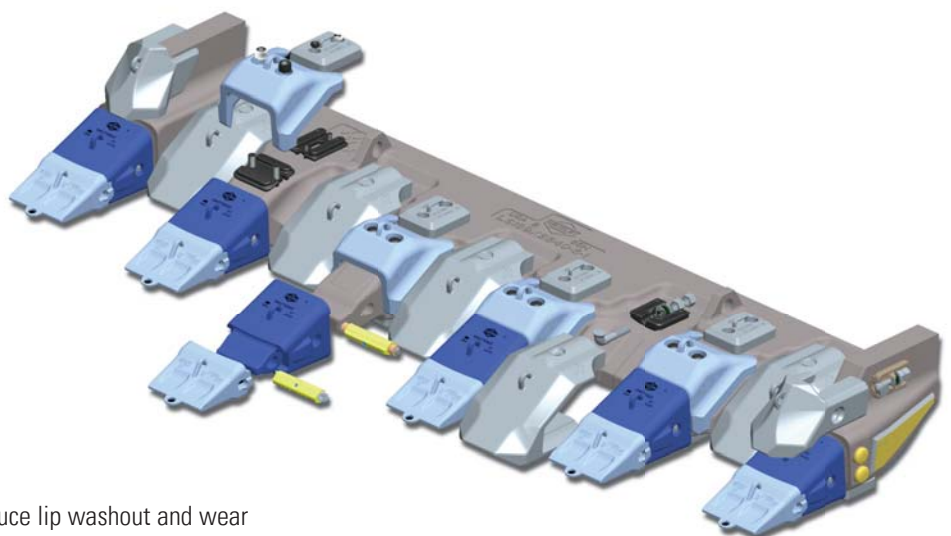
- Unique high strength design allows for smooth material flow
- Multiple tooth styles available
- Enhance breakout

## CAST LIPS

Available in  
414cm, 429cm & 511cm

To achieve the highest levels of productivity, attachments must be designed smart and built strong.

- Streamlined design for better penetration
- Engineered of high quality 55H material steel for superior strength and wear resistance
- Mechanical wearcap for added lip protection and quick replacement
- Full protection in between components to reduce lip washout and wear
- J-bolt shroud for easy and safe installation and replacement
- TS Series adapters and teeth for safe and easy installation and replacement
- Available for the 500 ton to 800 ton class hydraulic excavators



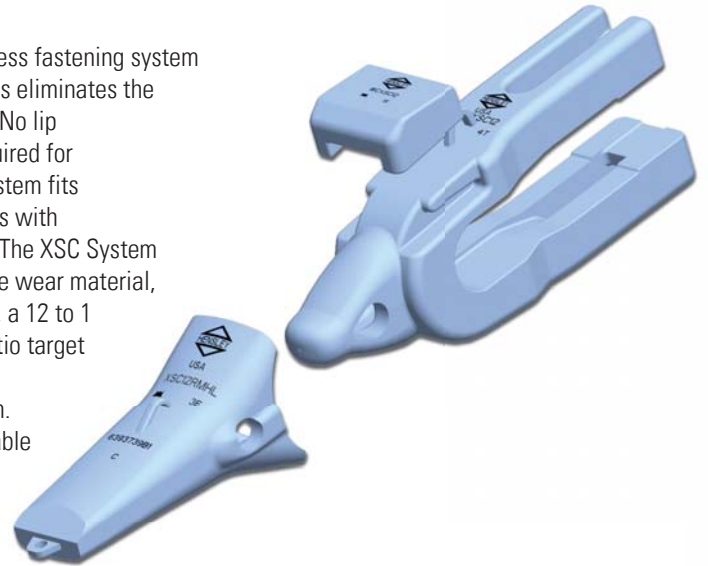
# XSC CABLE SHOVEL SYSTEM

## XSC SYSTEM

Safe and easy to install in the field



Hensley's hammerless fastening system for Whisler adapters eliminates the need for hammers. No lip modification is required for installation. The system fits existing Whisler lips with standard adapters. The XSC System features high usable wear material, high dipper fill rate, a 12 to 1 tooth-to-adapter ratio target and a cost-saving reusable pin system. It is currently available for WH-8 and WH-10 and WH-12.



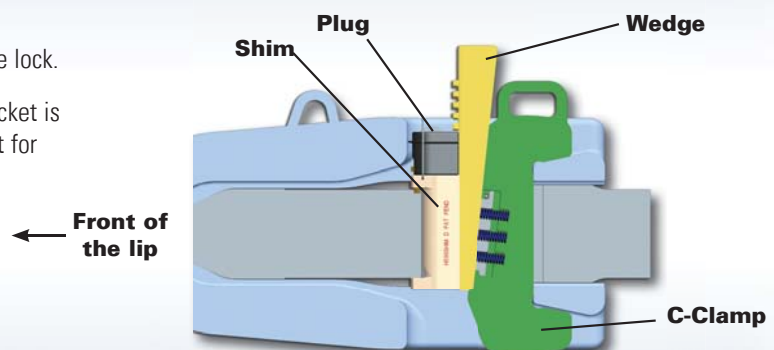
## HAMMERLESS FASTENING SYSTEM FOR WHISLER ADAPTERS

### System Features:

- Safe and easy – no hammer needed for installation or removal.
- No lip modification required. Fits existing Whisler lips with standard adapters.
- Quicker adapter change-out.
- Available for WH-10 and WH-12.
- Eliminates need to work under dipper to remove lock.
- The newly designed adapter nose and tooth pocket is engineered to create a tight tooth-to-adapter fit for extended 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.
- Lip Shrouds
  - Hammerless design
  - Safe and easy installation and removal

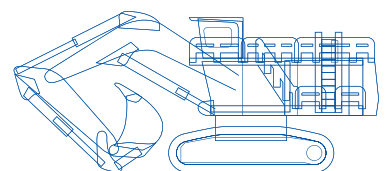


**Cross-section of complete assembly.**



**GET**

Safety First! Hensley Industries recommends that you use a soft-faced hammer and ANSI (Z87.1) approved eye protection when using our products.



**FOR MORE INFORMATION:**

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**New Zealand-** Ph: 0800 566 2878 | Web: [www.komatsu.co.nz](http://www.komatsu.co.nz)  
**New Caledonia-** Ph: 24 25 10

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