

## Lower your cost per ton with the Nemisys® system

#### Proven and efficient

With over 750 installations worldwide, ESCO Nemisys lip and G.E.T. system is field proven to lower operating cost per ton.



#### Increased machine availability

- Superior alloys and optimized system profile result in longer-lasting components
- Simple, intuitive locks provide safer, faster parts replacement
- Reliability and wear life unmatched in the industry keeps machines operating with minimal downtime

#### Lower maintenance costs

- Proprietary alloy, increased lip protection and large bearing areas extend operating intervals
- Longer lasting and more reliable G.E.T. reduces planned and unplanned service events
- Quick and easy parts replacements by fewer crew members, with no hot-work required

#### Lower total parts expense

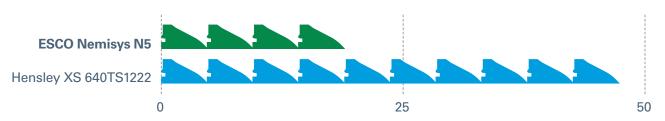
- Longer lasting and more reliable G.E.T. results in fewer parts purchased versus competitors
- Fewer parts purchased reduces mine site inventory to ship, stock and manage



## **Case study: G.E.T production performance**

Based on over 21M metric tons of production data by a PC5500 Hydraulic Face Shovel at a major Copper Mine, Brazil

#### Tooth consumption per MM ton



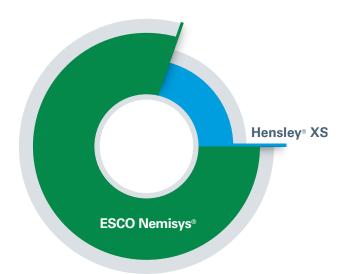
### **Tooth consumption**

#### Hensley XS 640TS1222

- 44 teeth per MM ton
- 3 unplanned stoppages for G.E.T. failure every MM ton

#### **ESCO Nemisys N5**

- 17 teeth per MM ton
- Zero unplanned stoppages for G.E.T.



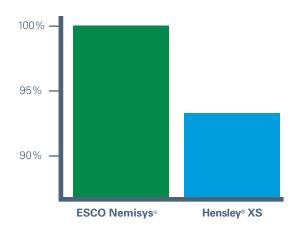
#### Machine availability

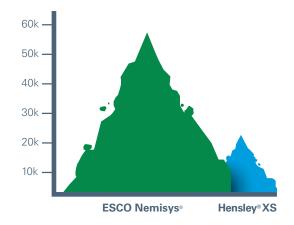
#### ESCO Nemisys system

• 1.0M metric tons produced per hour of required maintenance

#### Hensley XS system

 0.22M metric tons produced per hour of required maintenance





#### Reliability

#### ESCO Nemisys system

• Zero G.E.T. losses per 1M metric tons produced

#### Hensley XS system

• Three G.E.T. losses per 1M metric tons produced

#### **Tons moved**

#### **ESCO Nemisys system**

• Average tons moved per G.E.T. component: 57,388 metric tons

#### Hensley XS system

• Average tons moved per G.E.T. component: 22,527 metric tons



## Data confirms ESCO provides exceptional savings per each million metric tons of production:

- 155% more tons moved per tooth
- 66% fewer parts consumed
- 56% reduction in G.E.T. expense
- 77% less G.E.T.- related downtime
- 100% elimination of shutdowns due to G.E.T. loss

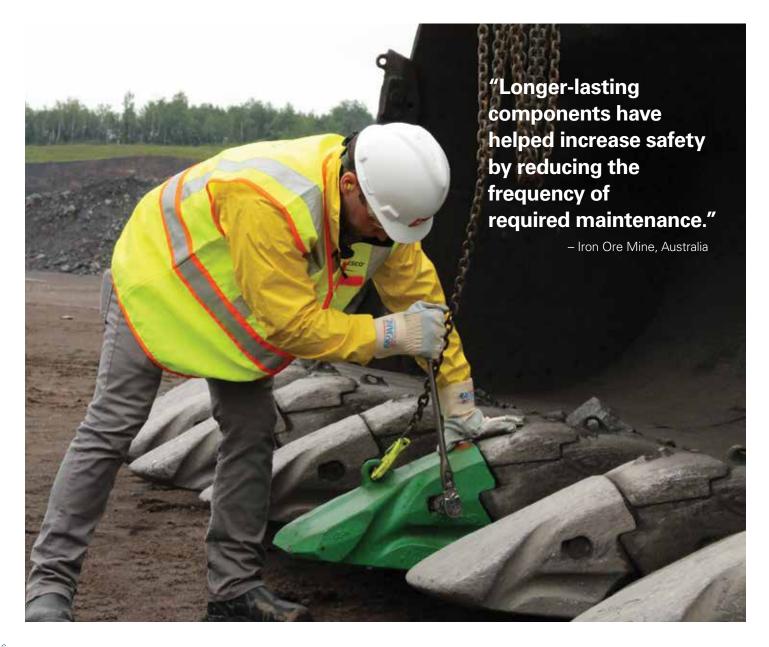


Data contained in this document is based on actual field performance at a Brazilian copper mine and is for comparison purposes only and does not constitute a guarantee. Installation, operating conditions, wear and tear and maintenance are factors outside the control of ESCO and will affect product performance. Hensley is a registered trademark of its respective company and is not affiliated in any way with ESCO Group LLC.

## Increase site safety with the Nemisys® system

#### Engineered to reduce exposure to injury

- Keep your crew away from crusher maintenance through superior locking systems that keep teeth and shrouds on the lip
- Safer installation and removal with Integrated pry points and compatibility with the ESCO SecureLift™ system
- Longer lasting alloy for fewer parts replacements and less exposure for maintenance personnel.
- Faster and easier replacement: all teeth and adapters feature the same fully hammerless lock that use standard hand tools



## Over 750 installations worldwide

The Nemisys lip system is helping mines across the globe increase productivity and lower their cost per ton through best-in-class tooth and shroud retention, faster and safer replacement and improved lip coverage. As confirmation of its value and reliability, over 2 out of every 3 users of the Nemisys system have already elected to install Nemisys products on additional machines at their site.





## Longer-lasting, more reliable

The Nemisys® system features a reliable integral locking system, proprietary alloy, and streamlined geometry – working in tandem to lower your cost per ton by reducing G.E.T. - related downtime and extending the life of your bucket.



## Increased lip protection and productivity

Fewer lip rebuilds and lower maintenance costs

The shrouds and adapters are engineered to protect more of the Nemisys lip leading edge, extending the service life between lip rebuilds by up to 70%. Improved wear metal placement increases shroud life by up to 30%. The contoured profile promotes material flow for more efficient loading to reduce cycle times and increase production.





## Pick the best tool for the job

The Nemisys® system is available with a wide range of tooth shapes, adapter types and shroud duty classes to match your digging conditions.



Standard, XHD and wear-cap adapters



Standard and XHD shrouds

#### Sizing guide

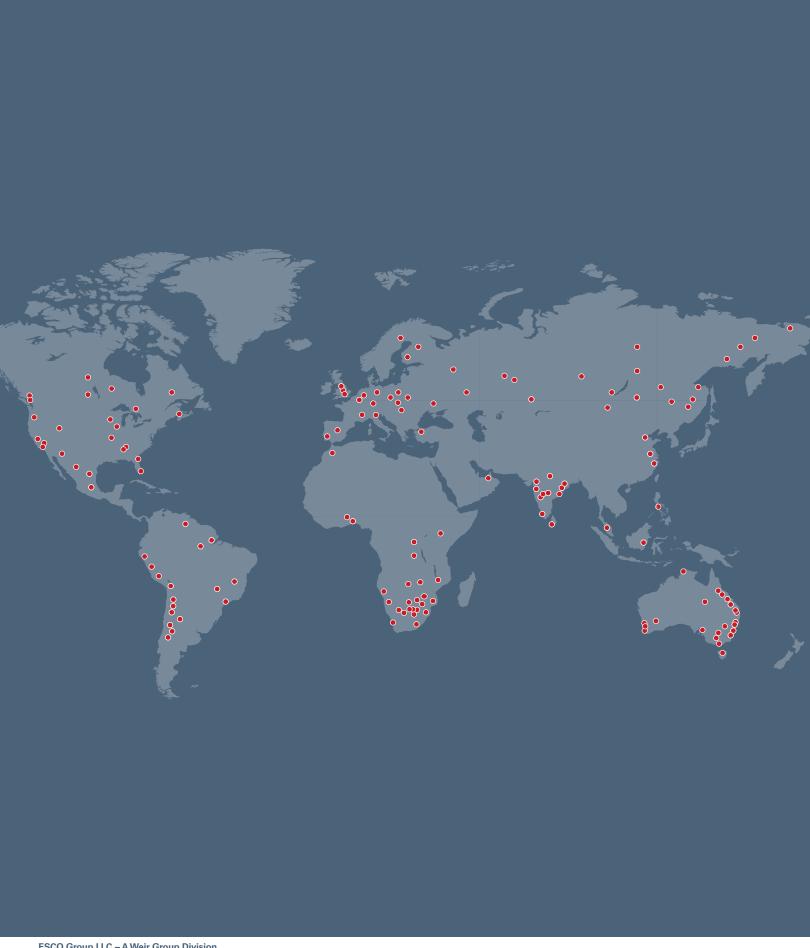
The Nemisys system is available in five sizes to better match machine break out force.

Machine Class for Nemisys System								
MACHINE CONFIGURATION	350 TON		500 TON		600 TON		800 TON	
	Std-Duty	XHD	Std-Duty	XHD	Std-Duty	XHD	Std-Duty	XHD
Mining Hoe	N95	N1	N3	N5	N3	N5	N5	N7
Face Shovel	N95	N1	N3	N5	N5	N5	N5	N7

**Note:** The table above provides conservative nose sizing guidance based on all global mining applications. Please consult with your ESCO representative to ensure the Nemisys product is correctly applied to your application.

# "Excellent for maintaining sharpness as they wear." - Coal Mine, North America





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