



WEHR

ESCO

ESCO® ToolTek™ – Installation
and Removal System for
Nemisys® Points and Adapters

ESCO® ToolTek™ system for installation and removal of Nemisys® points and adapters

One of ESCO's newest innovations is the ToolTek™ system – a collaborative effort with key mining customers to provide enhanced safety for maintenance personnel during replacement of worn Nemisys® points and adapters.

Large mining operations may replace hundreds of parts every month. While crews are well trained on replacement procedures and ESCO parts are engineered for worker safety, there is an element of risk during maintenance cycles. During replacement of parts on one bucket, a crew is exposed to hundreds of touch-points which are eliminated with the ToolTek system.



Protecting mine workers during maintenance and repair

Industry data shows many site musculoskeletal disorder (MSD) related injuries are caused while performing maintenance and repair tasks.



During replacement of parts on one bucket, a crew is exposed to hundreds of touch-points which are eliminated with the ToolTek system.



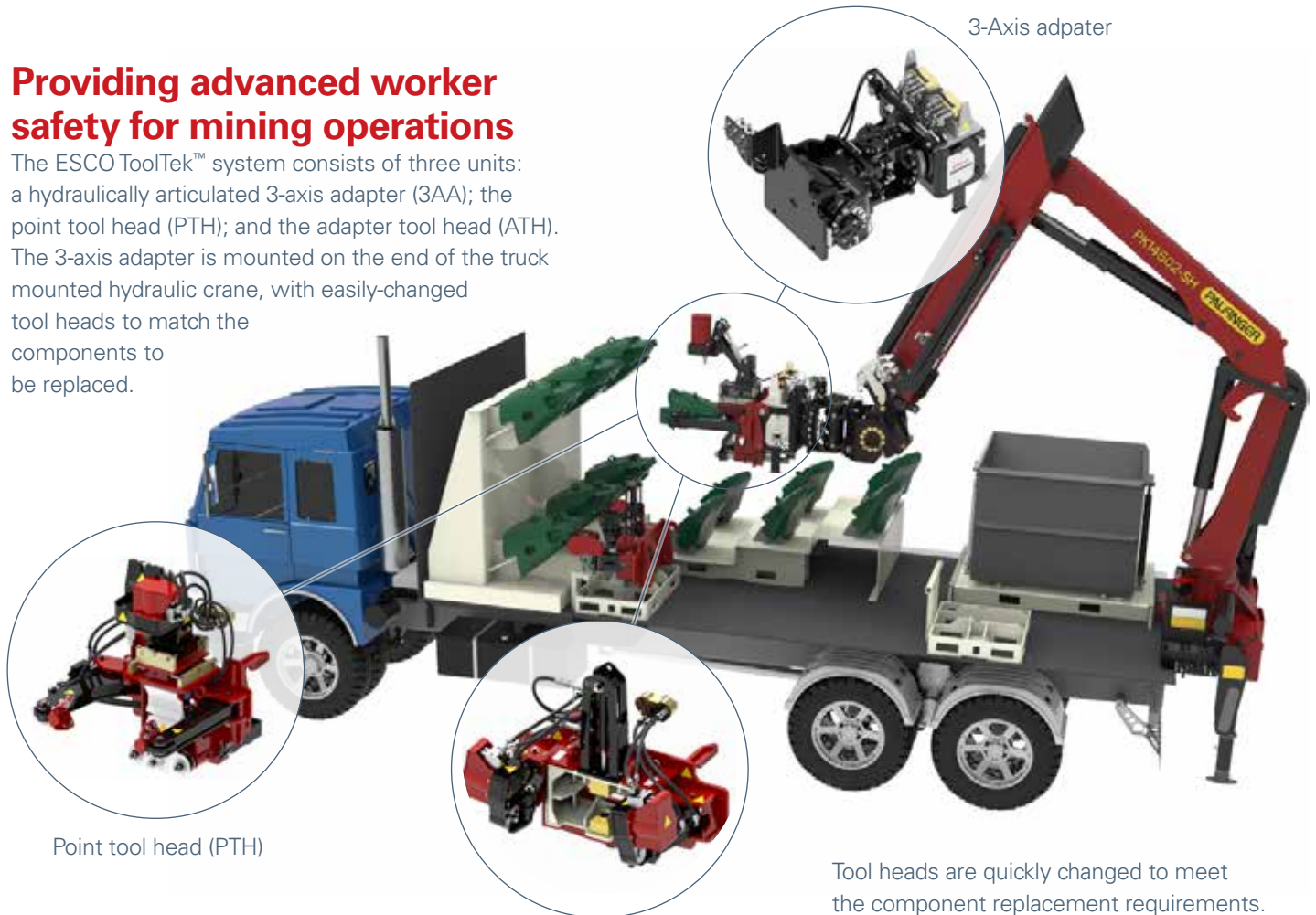
The ToolTek system is a hydraulic crane mounted tool that is remotely operated, well out of harm's way during replacement of worn components. New parts are pre-staged on racks conveniently positioned on the flatbed truck outfitted with the hydraulic crane. The truck also features a recycle bin for safer disposal of worn parts.

ToolTek system advantages

- Enhanced worker safety
- Fewer workers to replace G.E.T. components
- All required parts and tools on one truck
- Safer disposal of worn parts

Providing advanced worker safety for mining operations

The ESCO ToolTek™ system consists of three units: a hydraulically articulated 3-axis adapter (3AA); the point tool head (PTH); and the adapter tool head (ATH). The 3-axis adapter is mounted on the end of the truck mounted hydraulic crane, with easily-changed tool heads to match the components to be replaced.



3-Axis adapter

Point tool head (PTH)

Adapter tool head (ATH)

Tool heads are quickly changed to meet the component replacement requirements.

During a maintenance cycle for point or adapter replacement, the flatbed truck is positioned in front of the shovel. The ToolTek system operator stands safely to one side and uses a remote control to position the 3-axis adapter for mounting the required tool head. The operator then moves the tool head to the worn parts needing replacement.

Simplifying the removal and disposal process

With the operator well out of the way, the tool head can be precisely maneuvered to engage with the component to be removed, secure it and then disengage the locking mechanism. The worn part is then safely lifted away from the bucket and deposited in the recycle bin.

The ToolTek tool head then engages a new part from the storage rack and moves it into the correct bucket position and engages the locking mechanism. When all worn out parts are replaced, the truck hauls the scrap to a recycling depot where the bin is dumped by hydraulics

The maintenance cycle is now complete without personnel handling any of the heavy components during the replacement process.





ESCO Group LLC – A Weir Group Division
2141 NW 25th Ave,
Portland, OR 97210
USA

www.esco.weir

P3002EIQ-ENG-L1120

Copyright © 2020, ESCO Group LLC. All rights reserved.