

MINE SEES BIG GAINS FROM NEMISYS® TOOTH SYSTEM UPGRADE

PROFILE

Application: Mining

Commodity: Iron Ore

Digging Conditions: High Abrasion

Machine: Face Shovel

Make & Model: KOMATSU PC4000

CHALLENGE

- Increase productivity & machine availability
- Reduce maintenance costs
- Increase safety

ESCO SOLUTION

- ESCO Nemisys Teeth and Adapters – N1

RESULTS

- 80% longer tooth service life
- 50% faster parts installation and removal
- 50% less intermediate adapter replacements
- ‘Extremely satisfied’ with improved safety



The ESCO Nemisys system delivers impressive service life and wear metal utilization.

Nemisys®

ESCO Nemisys® Teeth Help Maximize Shovel Productivity

An iron ore mine operating a face shovel fitted with another supplier’s ground engaging tools (G.E.T.) turned to ESCO® for increased productivity and safety. Based on ESCO’s recommendation, the mine operator put the new ESCO Nemisys® points and adapters to the test in highly abrasive digging conditions. With components that the customer found to be longer-lasting, and faster and easier to install and remove, the upgrade to the new Nemisys teeth and adapters promptly helped this mine site maximize shovel availability and productivity, while keeping maintenance costs to a minimum.

After upgrading from their previous tooth and adapter system, the site foreman reported that the new Nemisys N1 teeth have delivered approximately 80% longer service life, while the frequency of the intermediate adapter replacements has been slashed in half. The on-site maintenance personnel expressed a “strong preference” for the new Nemisys system, reporting that the Nemisys teeth are approximately 50% faster to change out.

Longer service life and shorter service times equate to less maintenance interaction – minimizing personnel exposure to equipment. Paired with the system’s fully hammerless locking devices, it is no surprise that this customer is “extremely satisfied” with the improved safety provided by the Nemisys system. The conveniently integrated locks have also proven to be popular with the mine site, allowing them to reduce the number of small parts they have to manage, while eliminating the time previously spent searching for matching pins.

The end result for this early adopter of the new Nemisys system from ESCO is increased productivity, safety, and machine availability, coupled with reduced maintenance costs.

Disclaimer: Real world conditions dictate that performance of field installed products will vary. The effects of installation procedures, operating conditions, wear and tear, and maintenance can affect performance and are considered factors outside the control of ESCO.

