

FEATURE WEAR RESISTANCE

The Nemisys, ESCO's first integrated mining lip, shroud and three-piece tooth system.

Helpful Nemisys

After switching to ESCO's Nemisys system, an iron ore mine saw immediate efficiency improvements. By **Tess Ingram**

An iron ore mine that recently upgraded its ground-engaging tools to the ESCO Nemisys system maximised shovel availability and productivity, while keeping maintenance costs to a minimum.

ESCO's Nemisys teeth and adaptors were installed on a Komatsu PC4000 face shovel to help battle highly abrasive digging conditions at the mine.

According to ESCO, the site foreman reported that the Nemisys N1 teeth had delivered approximately 80% longer service life, while the frequency of the intermediate adaptor replacements has been slashed in half.

Onsite maintenance personnel expressed a "strong preference" for the Nemisys system, reporting that the Nemisys teeth were approximately 50% faster to change out.

"Longer service life and shorter service times equate to less maintenance interaction

– minimising personnel exposure to equipment," ESCO said.

"The conveniently integrated locks have also proven to be popular with the minesite, allowing them to reduce the number of small parts they have to manage, while eliminating the time previously spent searching for matching pins."

The mine reported 80% longer tooth service life, 50% faster parts installation and removal and 50% less intermediate adaptor replacements.

Nemisys is ESCO's first integrated mining lip, shroud and three-piece tooth system and offers four sizes to fit large excavators, draglines and cable shovels.

The system is suitable for all classes of excavators, ranging from 250 tonnes to the ultra-class 800t units. It was designed to create a better fit between the system's components.

Hammerless locking devices on the teeth



The mine reported 80% longer tooth service life with the Nemisys system.

and shrouds were also designed to increase wear life and reliability, while enhancing operational safety.

ESCO is based in Oregon in the US, while the company's Asia-Pacific offices are based in Brisbane, Queensland.



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