

MECHANIZED CLEANING UNDER CONVEYOR BELT

Large-scale mining operations rely on conveyor belts to transport ore from the extraction point to the surface, as well as from the mine shaft to the processing plant. During operation, material spillage frequently occurs, particularly beneath the head and tail pulleys. Over time, this spilled ore accumulates and can compromise the continuous operation of the conveying system.

When buildup comes into contact with the moving belt or support rollers, it increases resistance and places additional strain on the system. This leads to accelerated wear of components and higher maintenance costs.

DOK-ING MINING provides an effective solution to this issue with machines XLPD, XLP H4, and the NRE Dozer. With a compact design and a maximum height of just 850 mm, the machines can access confined spaces beneath operating conveyor belts to remove accumulated material. The remote-control capability enhances safety by allowing operators to manage the machines from a secure distance.

Equipped with a 0.6 m³ bucket and a maximum lifting capacity of 2 tonnes, the XLPD, XLP H4, and the NRE Dozer offer a powerful yet compact solution for conveyor belt maintenance.

The machines are deployed globally to resolve the previously described issue. The most extensive application has been in potash mines in Saskatchewan, Canada, where the XLPD effectively removes material buildup beneath conveyor belts. By doing so, it ensures uninterrupted belt operation and maintains full visibility of all conveyor components, significantly supporting maintenance teams in detecting worn or damaged system parts.

In Chile, the XLPD has also established a strong presence in mines throughout the country. There, it has become a vital asset in the specialized industrial cleaning services sector.

The image shows the XLPD operating at Mosaic's K3 potash mine, clearing accumulated material from beneath an active conveyor system.



Slika 1 XLPD cleaning under conveyor belt