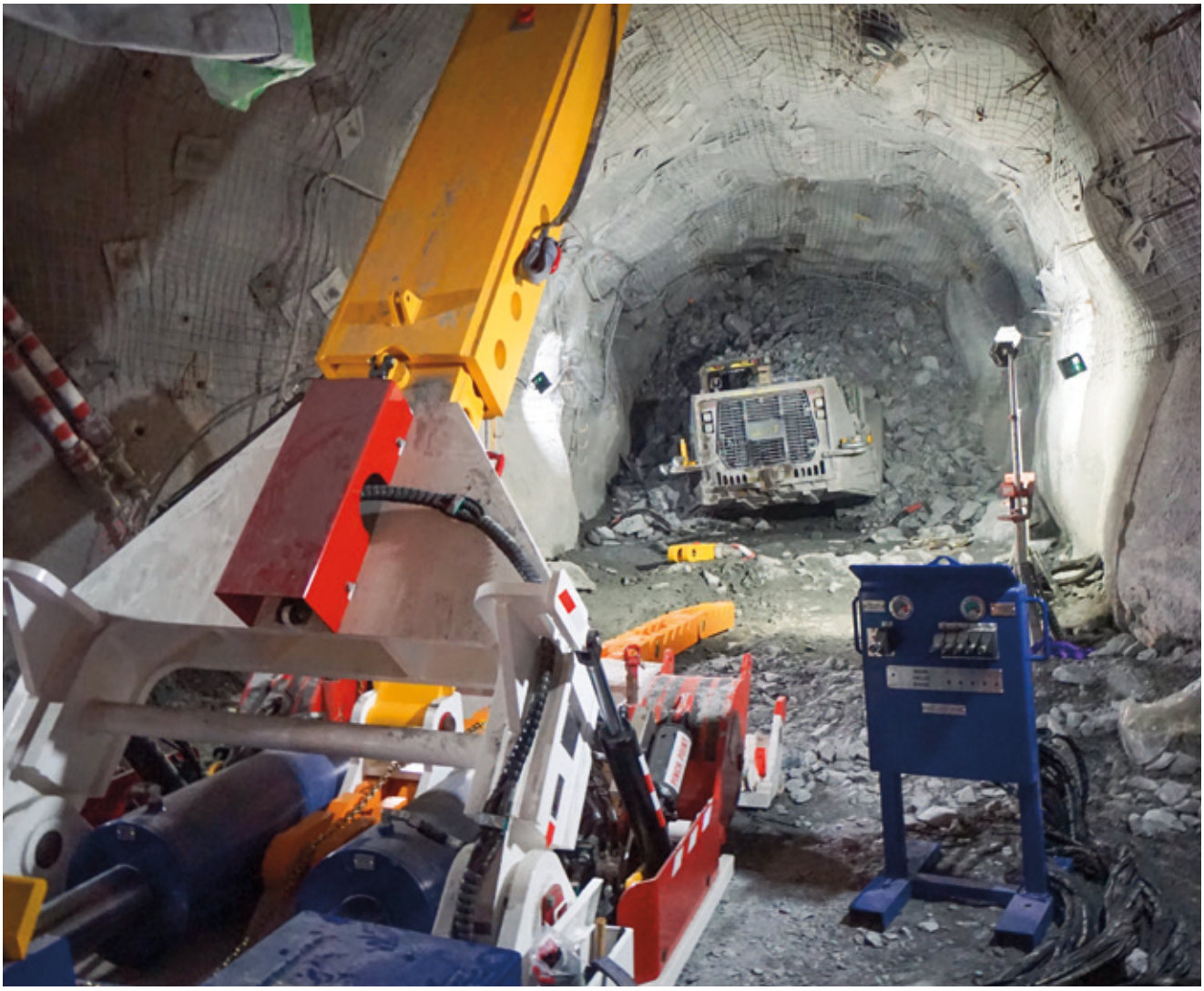
CASE STUDY 02
MACHINE EXTRACTION HARD ROCK MINE

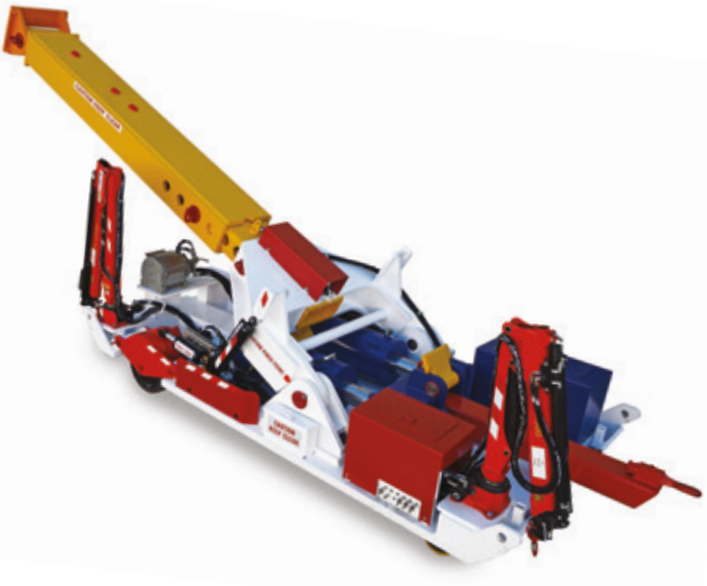
VICTORIA 2021

MED
MINE EXTRACTION DEVICE

ELPHINSTONE



SUCCESSFUL HARD ROCK MINE EXTRACTIONS

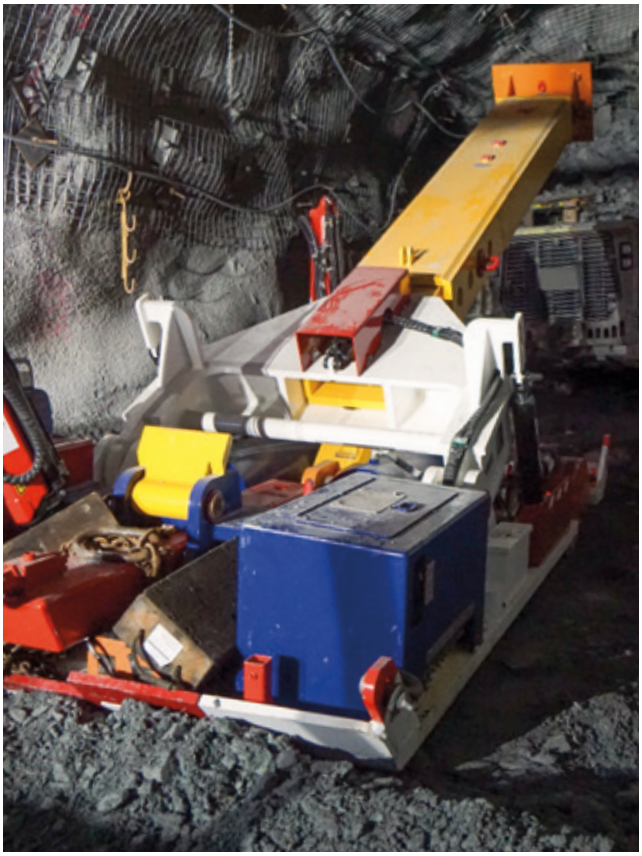


Since it was developed and released in 2002, the Mine Extraction Device (MED) has extracted hundreds of pieces of buried mining equipment proving itself as a safe, efficient and effective means to recover machines and allow continuance in production. Customer references can be provided on request.

The images in this document were taken during a successful extraction that occurred in an underground mine in Victoria using an MED360 (360T capacity). The buried asset has an estimated weight of more than 70 tonnes.

WARNING: Prior to any extraction it is important to assess all risks and implement the resultant control measures. As conditions change, the risks must be reassessed and new control measures implemented.

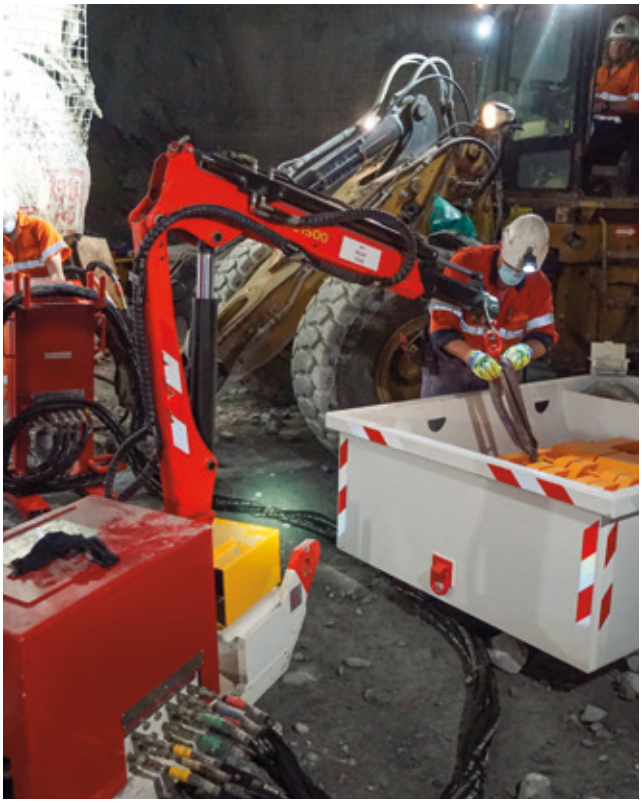
1. MED360 is being moved into place following the preparation of a solid and level base before the extraction commences.



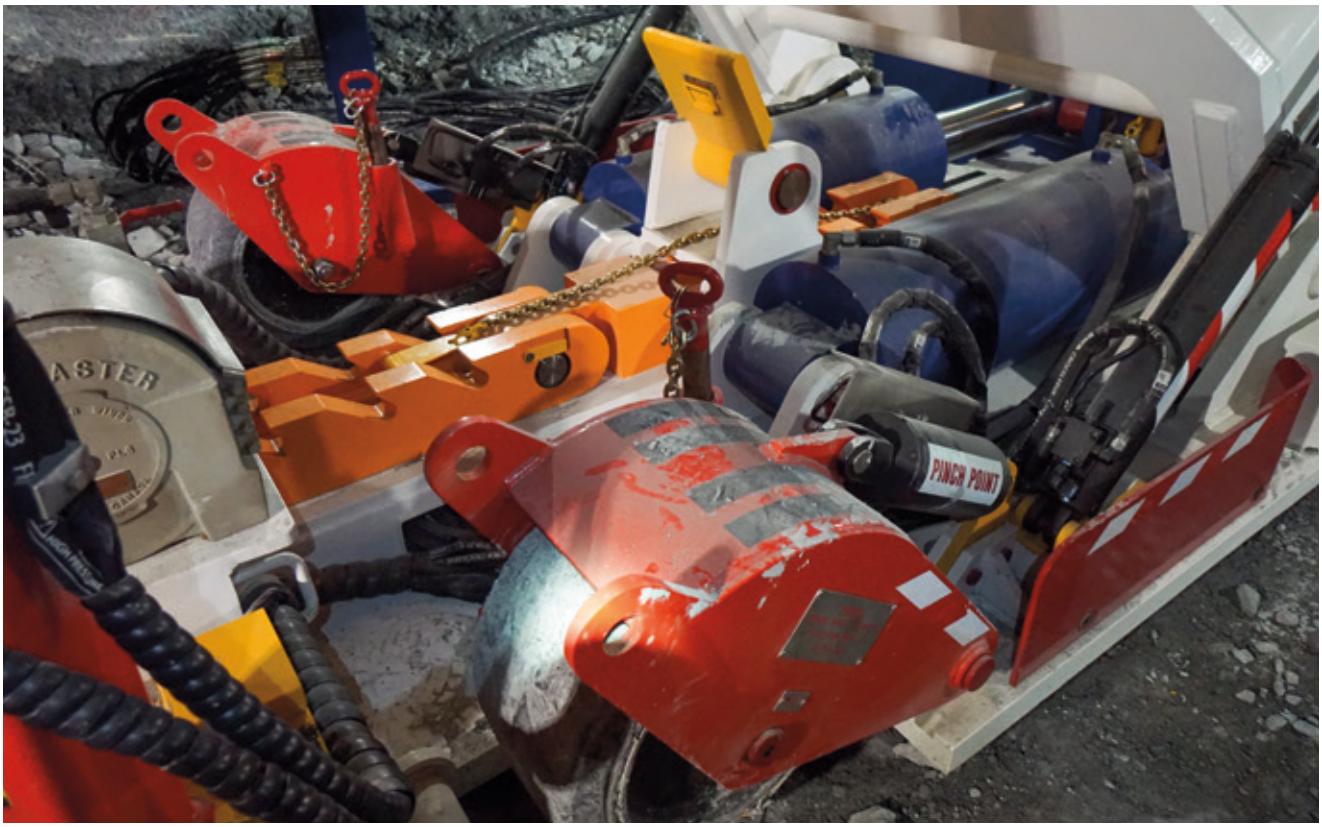
2. The MED360 is positioned over the prepared base.

3. The tow slings and other equipment are moved into position.

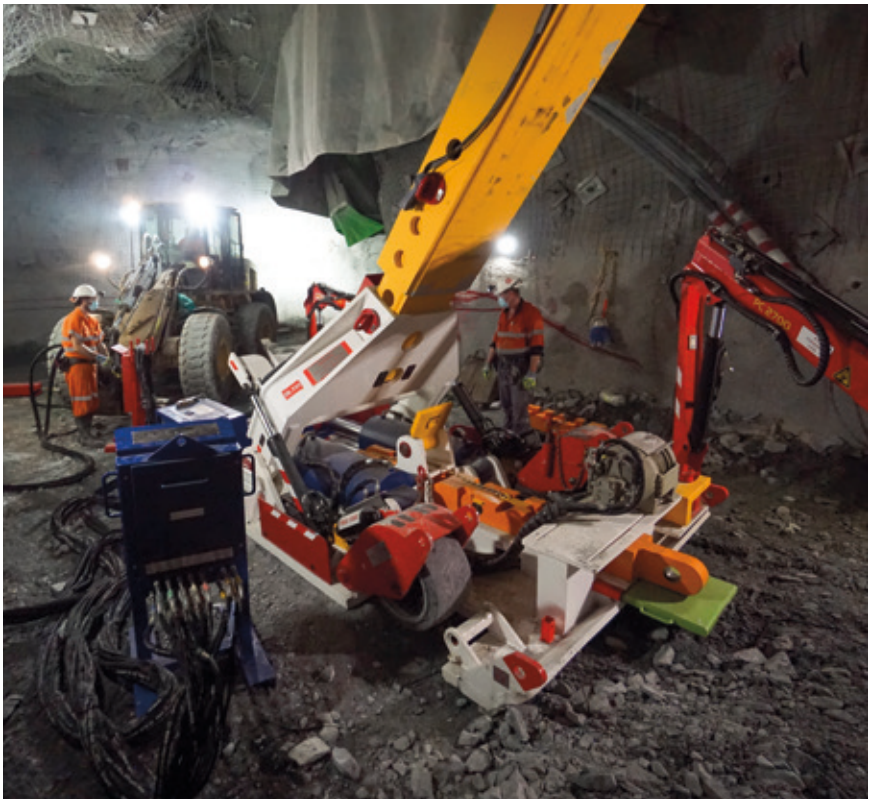
4. The connecting racks are attached to the machine using D-shackles and slings.



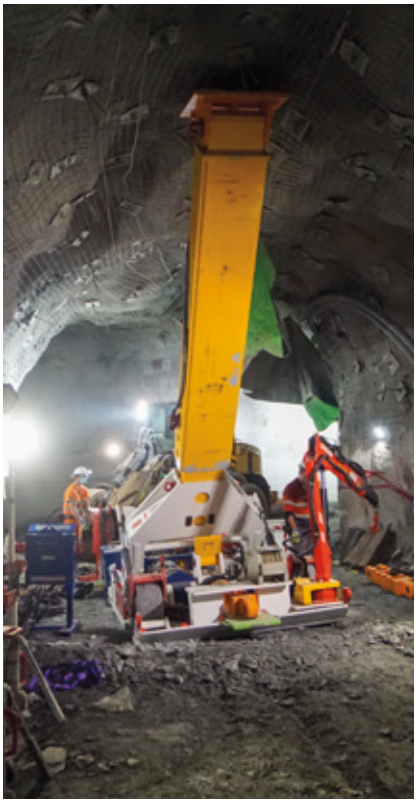
5. The engineered racks are lifted into place using the rear Hiab (Hiabs are only available on the MED360).



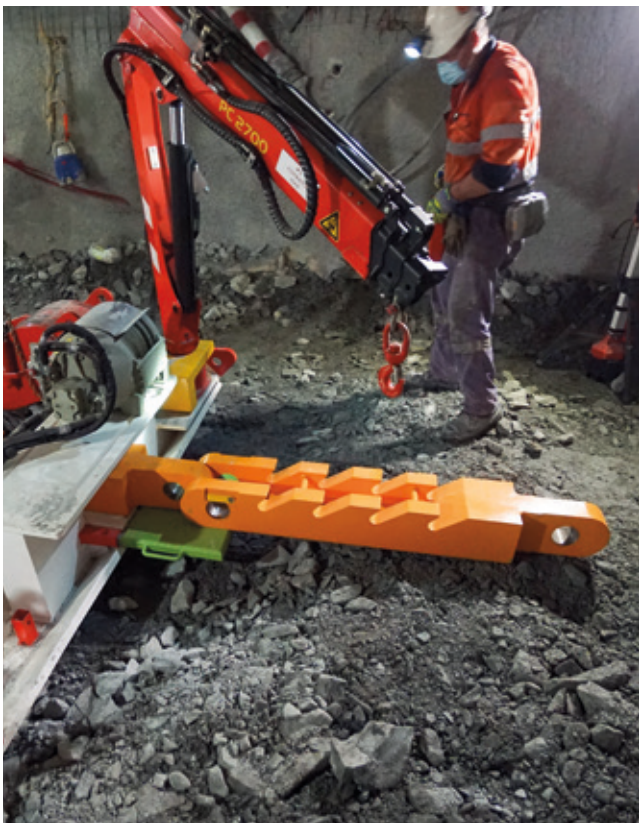
6. Image of the racks being assembled and pulled through the MED into position using the winch.



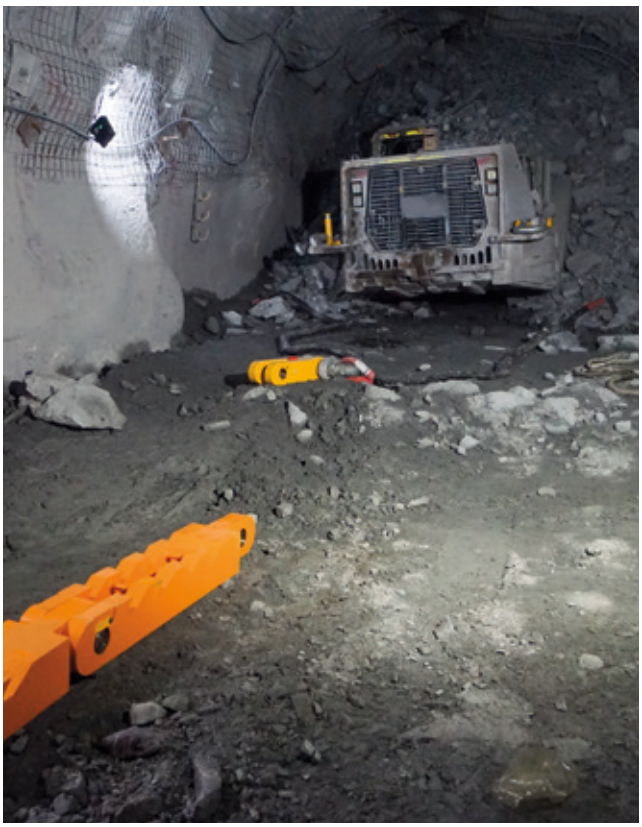
7. The control station and hydraulic hoses are moved into position and connected. In this case the auxiliary implement controls on an IT loader are used to operate the MED.



8. Boom and head plate positioned into the roof of the tunnel.

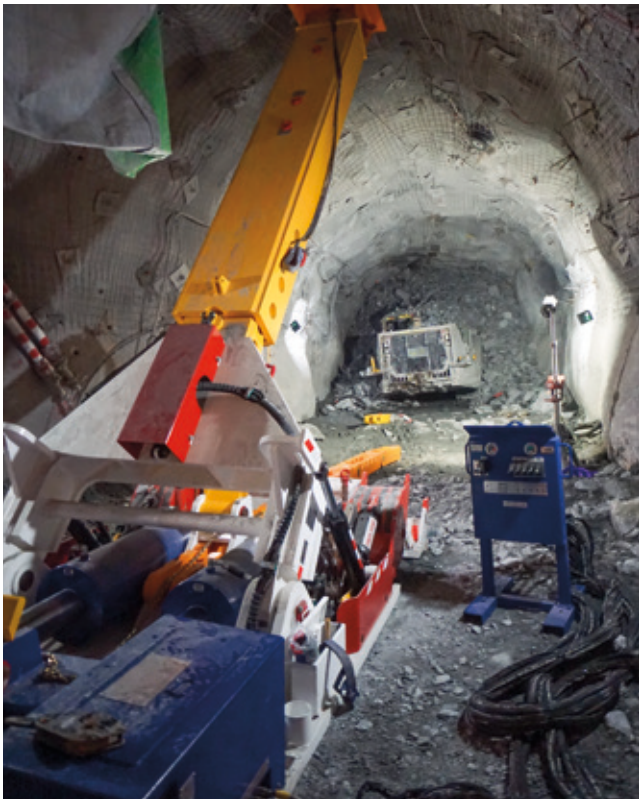


9. Racks are being located and pinned together using the front Hiab. (Hiab cranes are only available on the MED360).

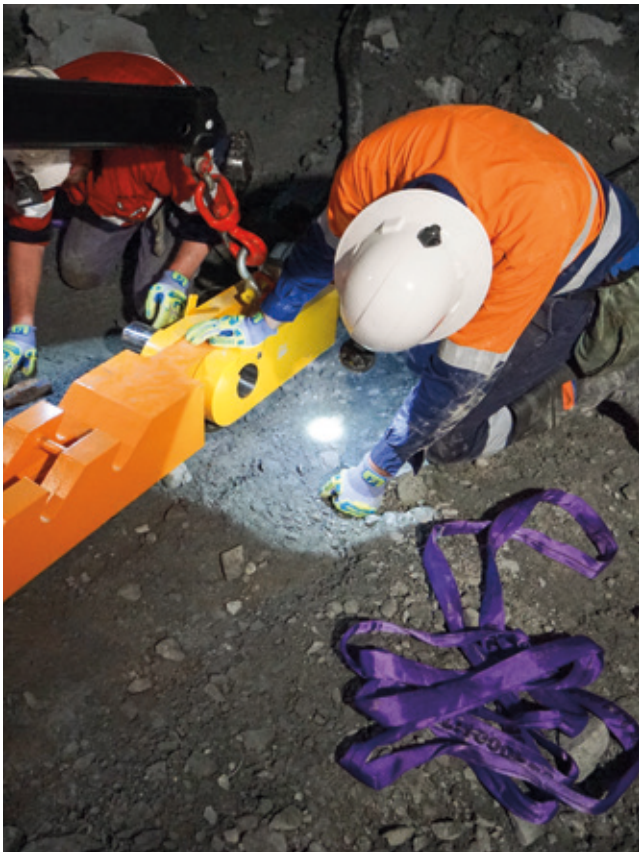


10. Tow sling is secured to the buried asset using rated 'D-shackles' and tow slings.

11. Tow slings have been secured to the connecting link.

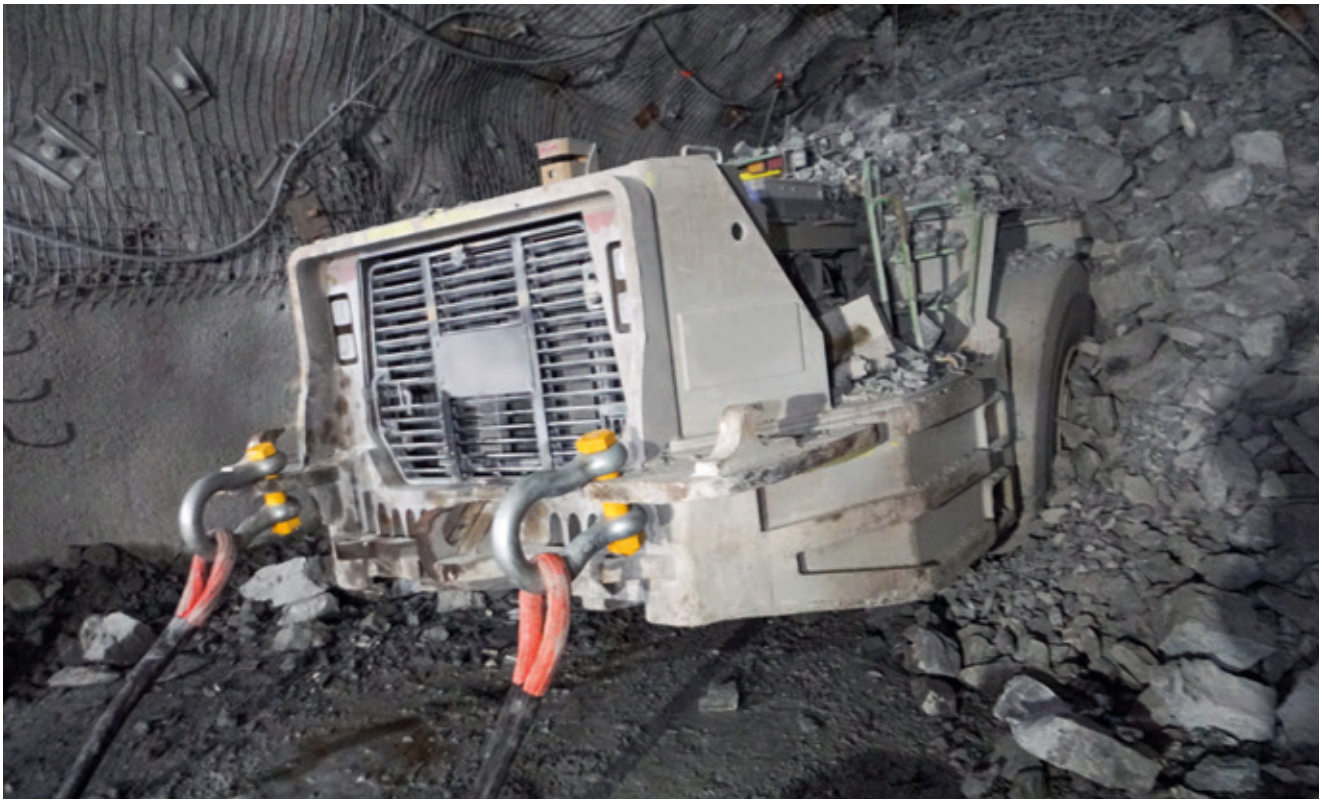


12. View of the buried asset from the rear of the MED360.

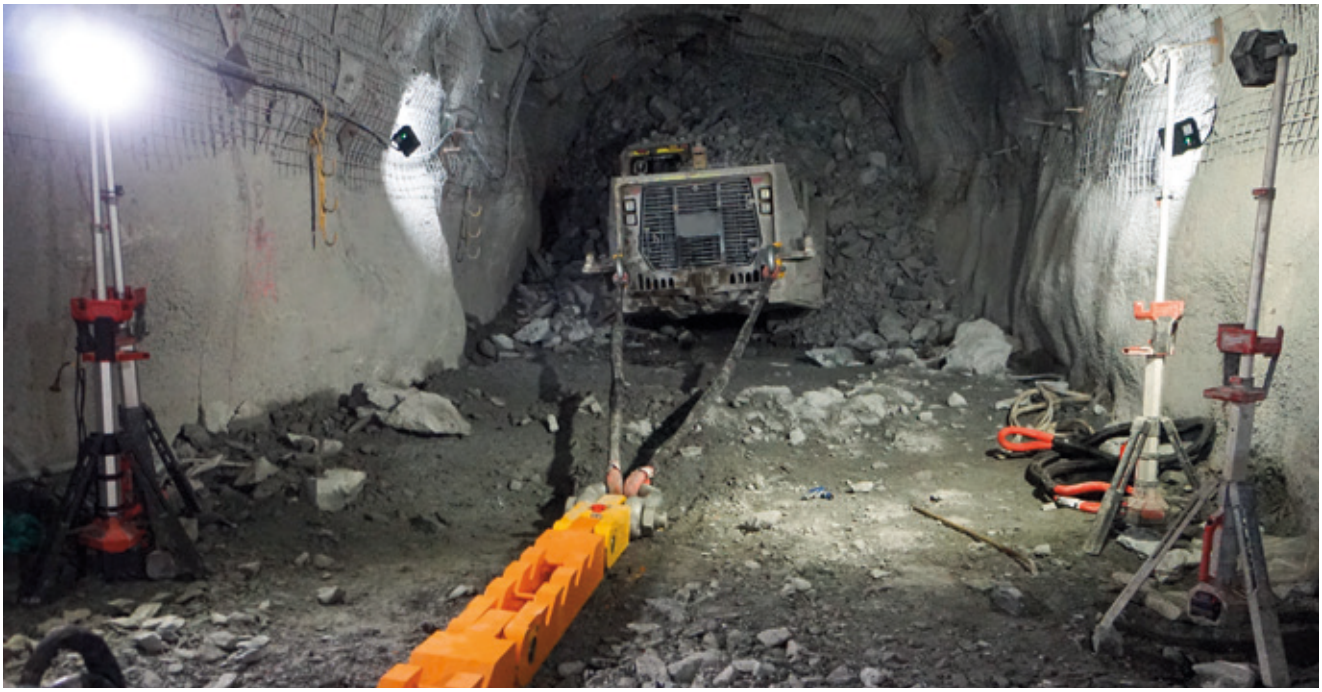


13. The connecting link is secured to the pulling rack using the load pin.

14. The MED360 is ready to commence the bedding in process and subsequent extraction.



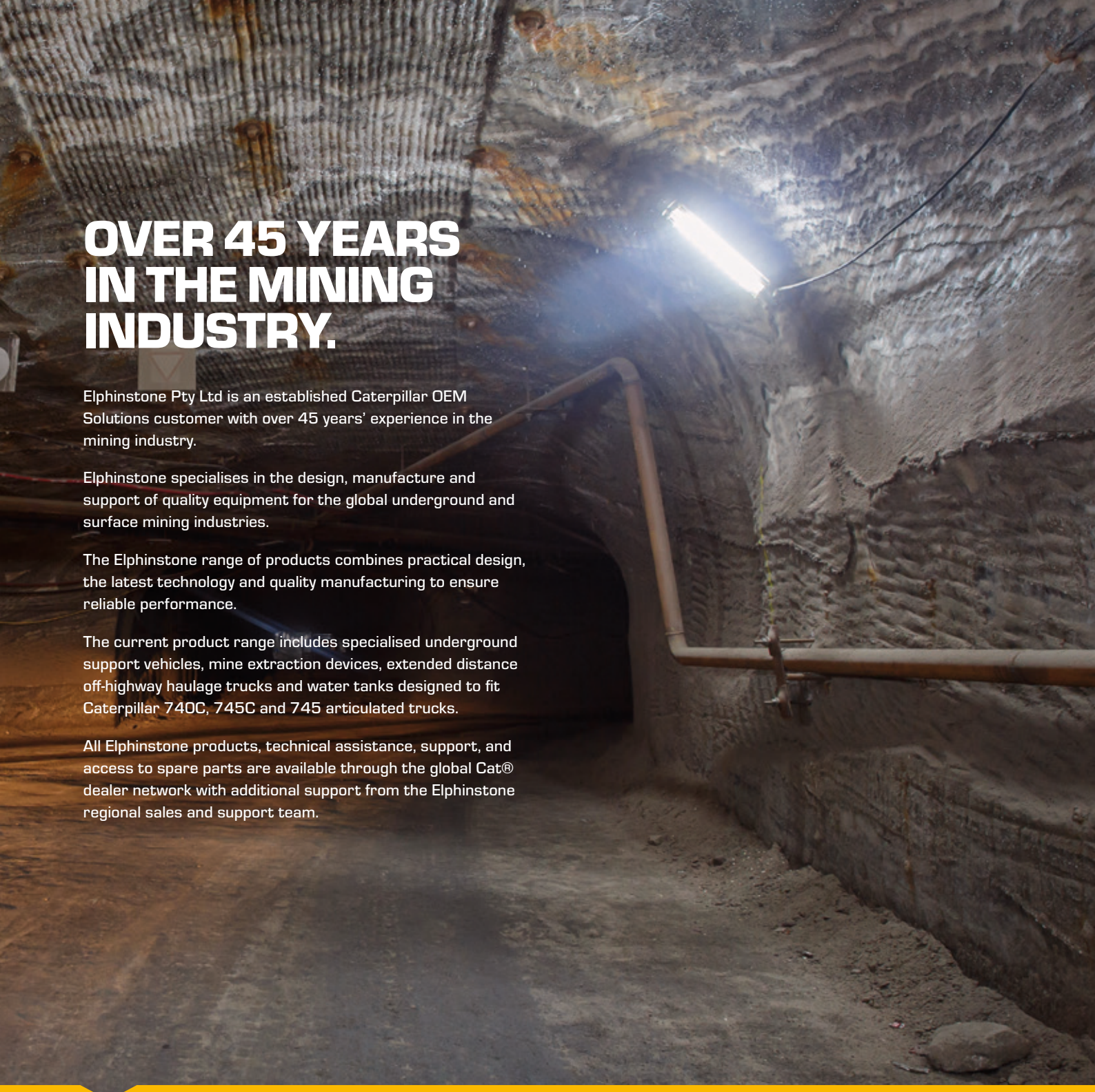
15. The tow slings are attached to the 'D-shackles' and readied for the machine extraction.



16. Tension is applied to the tow slings and the extraction process commences.

More Information
If you require further information on the Elphinstone range of MED products, please visit www.elphinstone.com or the contact email addresses provided.

Machine Sales: MEDsales@elphinstone.com
Product Support: MEDproductsupport@elphinstone.com
Part Sales: MEDparts@elphinstone.com



OVER 45 YEARS IN THE MINING INDUSTRY.

Elphinstone Pty Ltd is an established Caterpillar OEM Solutions customer with over 45 years' experience in the mining industry.

Elphinstone specialises in the design, manufacture and support of quality equipment for the global underground and surface mining industries.

The Elphinstone range of products combines practical design, the latest technology and quality manufacturing to ensure reliable performance.

The current product range includes specialised underground support vehicles, mine extraction devices, extended distance off-highway haulage trucks and water tanks designed to fit Caterpillar 740C, 745C and 745 articulated trucks.

All Elphinstone products, technical assistance, support, and access to spare parts are available through the global Cat® dealer network with additional support from the Elphinstone regional sales and support team.

MED Extraction Case Study

For more complete information on Elphinstone products, dealer services, and industry solutions, visit www.elphinstone.com or contact your local Cat® dealer.

Material and specifications are subject to change without notice. Featured machines in photos may include additional equipment.

Made in Australia for export.

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