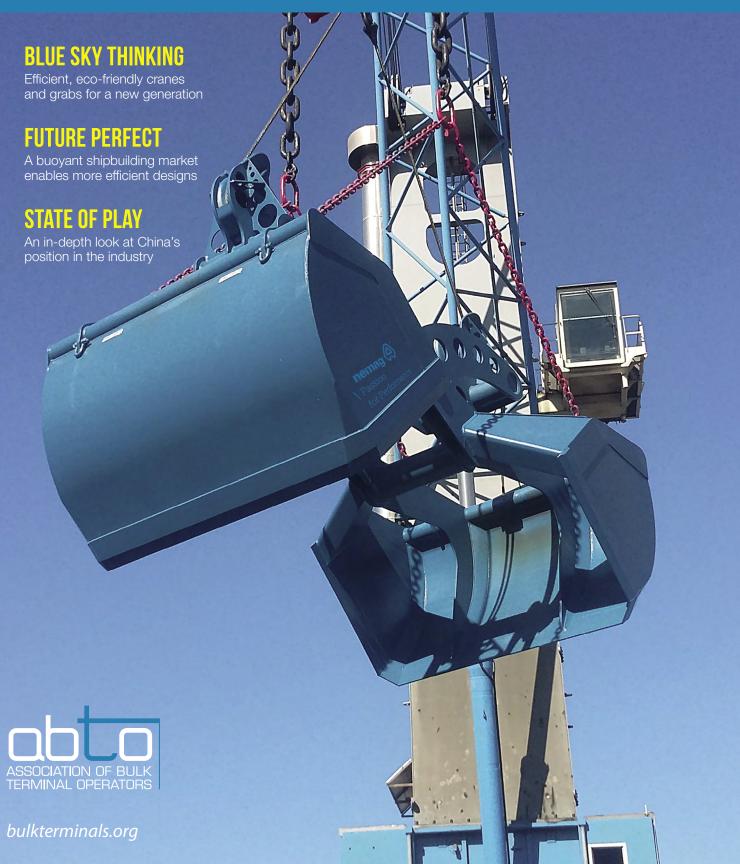


THE OFFICIAL MAGAZINE OF THE ASSOCIATION OF BULK TERMINAL OPERATORS



MARTIN: V-PLOW DESIGN DELIVERS

COMPANY NEWS

The global leader in bulk handling conveyor accessories has redesigned one of its most popular tail protection devices to be a lighter-weight, modular unit delivered in a compact package for improved safety and convenience.

"The re-engineered Martin® V-Plow HD achieves the gains with no compromise in performance, while delivering a weight reduction of about 48%," explains conveyor products manager Dave Mueller. While the previous welded design's largest dimensions were 445 x 965mm, the new modular design's widest component is less than 203mm and the longest is approximately 788mm.

"The result is a package that fits most local delivery trucks and can be easily carried by workers to sites that may have accessibility issues, with the components assembled as they are installed to reduce the risk of injury," Mueller says.

"Tail pulley protection is essential to efficient conveyor operation, but because of their size, the components can be cumbersome to ship and install," Mueller continues.

Mueller further points out that, once the previous design was delivered, getting it to the installation point could be a challenge with potential safety issues. Often workers needed to carry the oddly-shaped box by hand up several flights of stairs, through corridors, or to areas with limited

accessibility. Workplace injuries caused by lifting, carrying and falling/dropped debris are among the most prevalent.

The Martin V-Plow HD prevents tail pulleys from becoming fouled and damaged by spillage traveling on the return side of the conveyor belt. Fugitive material commonly migrates from the cargo side to the return side during normal operation.

If this spillage reaches the tail pulley, two things can happen. One is lumps getting caught between the pulley and the belt, gouging and damaging both the belt and pulley face. The other is spillage being crushed by the pressure between the pulley and the belt, adhering to the pulley face and the return side of the belt, causing pulley slippage and fouling of idlers along the system.

The Martin V-Plow HD glides on the return side of the conveyor belt using a hinge system, deflecting any fugitive debris off of the belt. Replaceable blades are available in 60 Shore A durometer nitrile rubber or long-wearing 90 Shore A durometer urethane and the unit can be ordered with specialised chemical resistant or high-temperature blades.





THE V-PLOW HD HUB MOUNTS CAN BE WELDED OR BOLTED TO THE HANGER BARS. © 2021 MARTIN ENGINEERING



THEV-PLOW HD PREVENTS TAIL PULLEYS FROM BECOMING DAMAGED BY SPILLAGE ON THE RETURN SIDE OF THE BELT. © 2021 MARTIN ENGINEERING

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