

# NEUERO DLH Dustless Loading Head – a global solution for efficient dust suppression

## SIMPLICITY MEETS TECHNOLOGY IN DUST CONTROL

As industries face increasing environmental responsibility and stricter air quality regulations, NEUERO has responded with a forward-thinking solution that is transforming loading operations around the globe: the DLH Dustless Loading Head. Designed for versatility and efficiency, the DLH system minimizes dust emissions in both mobile and stationary applications — proving itself to be a valuable tool in the ongoing effort to improve air quality in ports, terminals, and bulk handling facilities.

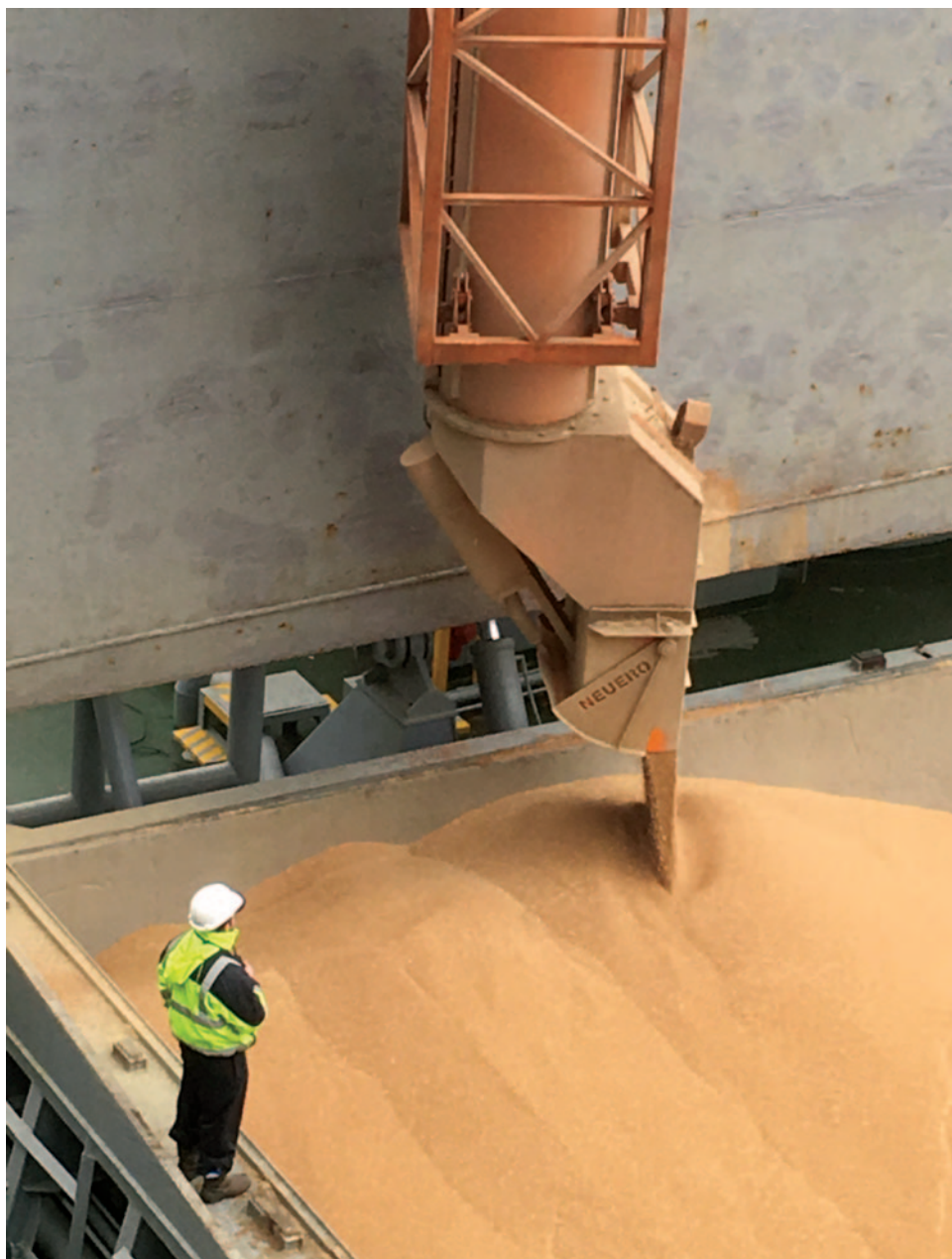
## A MODULAR SYSTEM WITH BROAD APPLICATION

The DLH system is engineered for adaptability. While the core functionality is optimized when combined with NEUERO's KIKO (kick-in/kick-out) pendular movement in mobile installations, it is a necessary key component in stationary systems, where dust suppression should not reduce efficiency and flexibility. In traditional set-ups, vertical positioning may be a secondary mode of operation. However, the DLH proves its value even here, offering mass flow performance in systems mounted on silo walls or towers. The system's hanging configuration combined with pendular movement ensures coverage of the hatch area without requiring additional horizontal travel — offering operational safety, simplicity, and efficiency.

## TECHNOLOGY BEHIND DUST REDUCTION

Dust elimination may be physically impossible due to wind displacement or product surface dust. However, NEUERO's DLH significantly reduces emissions in all loading scenarios, particularly during the critical final trimming stage. To tackle hard-to-reach corners, the rotating DLH option enables fine adjustment of the material flow angle — keeping the discharge aligned with the hatch.

At the heart of its dust-suppressing efficiency is a controlled mass flow approach. The slow, regulated material flow prevents segregation and limits dust



dispersion. Unlike systems relying solely on fast discharge and high-volume suction, the DLH prioritizes flow control, minimizing dust at the source.

## DESIGN HIGHLIGHTS

The DLH system stands out due to its intelligent, minimalistic design:

- ❖ Loading head with built-in flow-regulation valve.
- ❖ Telescopic pipe, typically two sections (three-section variants also available).
- ❖ Vertical boom equipped with hydraulic cylinders for KIKO pendular movement.
- ❖ Own winches powering all functions with robust construction and standardized components.
- ❖ Smart control system, fully developed and continuously optimized in-house.

This low-maintenance and highly efficient design ensures not only reduced dust emissions but also increased uptime, easier handling, and long-term reliability.

## PROVEN WORLDWIDE

Already implemented in multiple installations worldwide, the DLH has contributed significantly to global air quality improvements in grain terminals and bulk handling operations. With each new project, the system is refined, proving that simple solutions, when engineered with insight and care, can lead to extraordinary environmental outcomes.