



Advantages of Welgro SMARTbulk over a conventional trailer during the various process steps

During start-up

- ✓ Direct truck control from the touchscreen; engine on/off, PTO on/off and speed control.
- ✓ When the PTO is switched on, the following functions are automatically activated:
 - Blower relief valve open, pressureless start-up
 - Air change automatically to 100% tank pressure
 - PTO to highest rpm to pressurise tank as quickly as possible
 - PTO automatic speed control based on tank pressure

During discharge

- ✓ Ease of use (intuitive) / driver convenience
- ✓ GPS location recognition for correct delivery address
- ✓ Silo/hose matching by image recognition
- ✓ Simplifying the discharge process (less experienced driver can still discharge well)
- ✓ Use of the display shows how the process is progressing
- ✓ Faster and more convenient discharges
- ✓ Accurate and repeatable discharge floor and air change setting; selected setting remains constant due to self-steering system

During shutdown

- ✓ When the PTO is switched off, the following functions are automatically activated:
 - ✓ Blower relief valve open
 - ✓ When the full system is switched off:
 - ✓ Automatic tank venting activated. If system is not switched off manually then it will automatically switch off (and vent tank) at speed > 10 km/h

Welgro SMARTbulk with handheld and Cloud

- ✓ Expansion to handheld with app (Android) and connection to the SMARTbulk Cloud
- ✓ All order information is displayed on the handheld
- ✓ Smart features to prevent incorrect discharges
- ✓ Digital recording of both operational and technical discharge data
- ✓ Closing the compound feed chain
- ✓ Remote and real-time monitoring
- ✓ Maintenance optimisation based on user data



Welgro SMARTbulk data link API

- ✓ Digitally linking the SMARTbulk Cloud platform with customer systems (ERP, TMS)
- ✓ Real-time data link via a secure API web service
- ✓ Standardised API according to Open Trip Model 5

Welgro SMARTbulk advanced silo recognition

- ✓ Based on order-cell match by GPS Geofencing, only compartments for this location are released
- ✓ Welgro SMARTbulk features the function to verify that the correct silo is connected using image recognition
- ✓ Reduce incorrect discharge occurrence and thus save costs

Safety

- ✓ Automatic tank venting > 10 km/h
- ✓ Quick-closing feature by pressing black rotary knob (all compartments close immediately)
- ✓ Logging of all discharge events

Advantages of Welgro SMARTbulk system in a nutshell

- ✓ Cost reduction: prevents incorrect discharges, and discharges faster
- ✓ Reduced driver dependence: specialist knowledge included in WSB system
- ✓ All order information is displayed on the handheld
- ✓ Closed feed chain: Digital recording of both operational and technical discharge data
- ✓ Better feed quality in the silo by discharging with the correct settings
- ✓ Preventive maintenance (on trailer and complete system) based on user data
- ✓ Reduction of CO2 emissions: fuel savings through automatic up and downshifting of the PTO



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