

Power Boost technology for vacuum tankers

Kotte Landtechnik offers Power-Boost technology for its vacuum tankers. The unrivalled technology increases filling levels, pressures and offers agitating functions.

Filling

A powerful NW 200 centrifugal pump fills the slurry tanker quickly and to almost full levels. Installed on the tank's front end, the pump is driven mechanically by the tractor's pto whereas the hydraulic drive compressor is used only to draw the liquid up to the centrifugal

pump. Supply is through a T-fitting on the right or left side of the tank's front end or through the suction pipe, which is coupled with an adapter pipe to the T-fitting. Again, supply is from either side of the tank's front end.



Tanker with top-mount agitation / application pipe



The pto-driven centrifugal pump



The three-way valve controls agitation and application

Spreading

The centrifugal pump also used to pressurize the liquid for application. Controlled by a three-way valve, the slurry is pumped through an external pressure pipe to the distributor. The application pressure may be as high as 3 bar, which is required for high-quality application, in particular from trailing hoses and when working at widths of

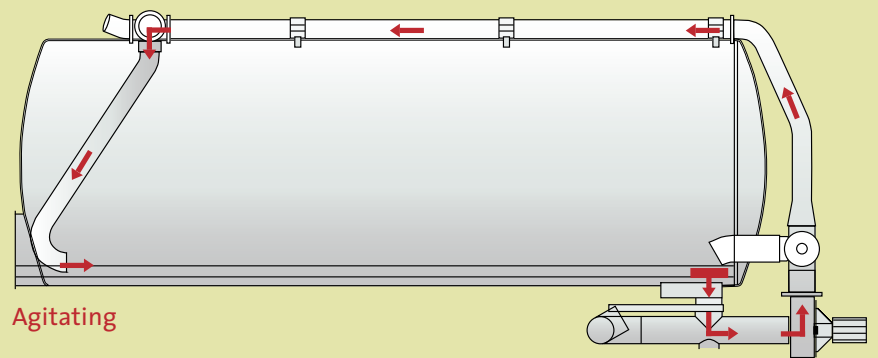
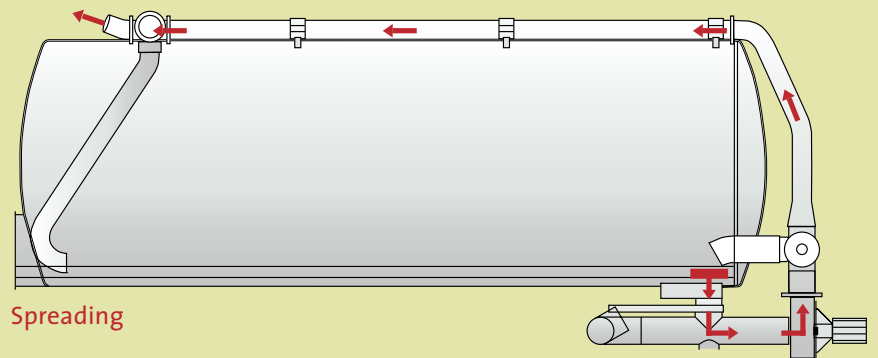
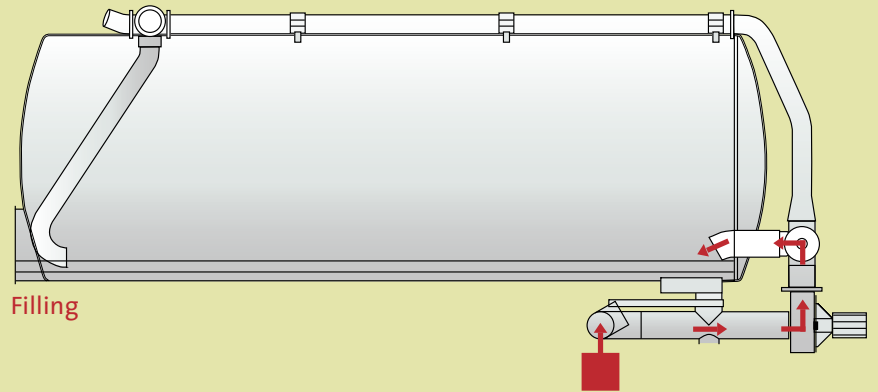
21 m and more. The secret behind this Power-Boost technology is the mechanical centrifugal pump, which always supplies an adequate flow of oil to drive the distributors. This way it is possible to operate the distributors in parallel with the centrifugal pump on vacuum-filled tankers.

Agitating

Power-Boost technology is also used to agitate the slurry inside the tank to avoid sedimentation.

Benefits of Power-Boost technology

- offers three functions:
Filling - applying - agitating
- a NW 200 centrifugal pump boosts filling rates and levels on vacuum tankers
- flexible supply through a T-fitting on the right or left side of the machine
- the pump pressurizes the system to up to 3 bar from a 0.5 bar operating pressure
- allows centrifugal pump and distributors work in parallel
- agitation prevents sediments
- no macerator required, not vulnerable to solid matter - saving costs due to wear
- supply via combination of centrifugal pump and suction pipe for from either side at front end. No extra pump required inside suction pipe
- sump ensures thorough emptying



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