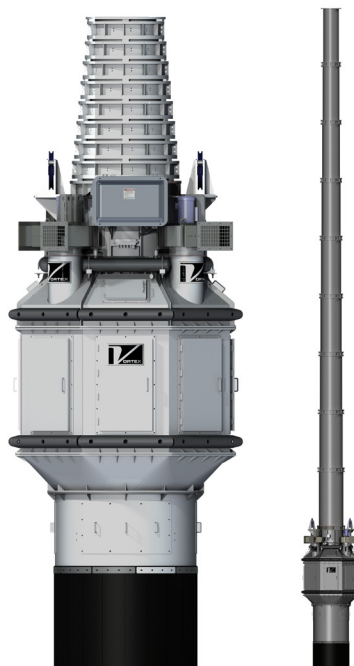


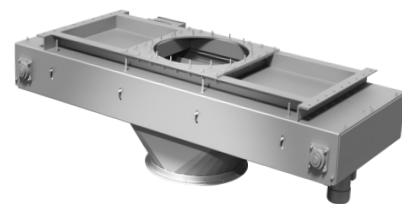
SOLIDS & BULK HANDLING COMPONENTS



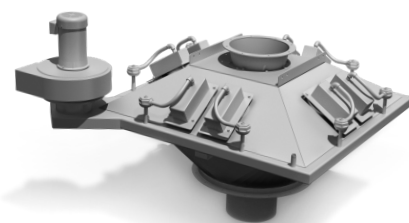
CONE-IN-CONE LOADING SPOUTS



TUBE-IN-TUBE LOADING SPOUTS



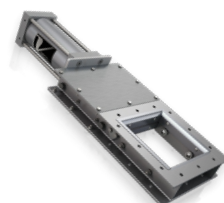
POSITIONERS



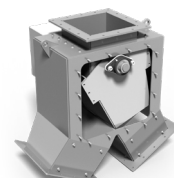
INLINE FILTRATION



AERO SLIDES™



GATES



DIVERTERS



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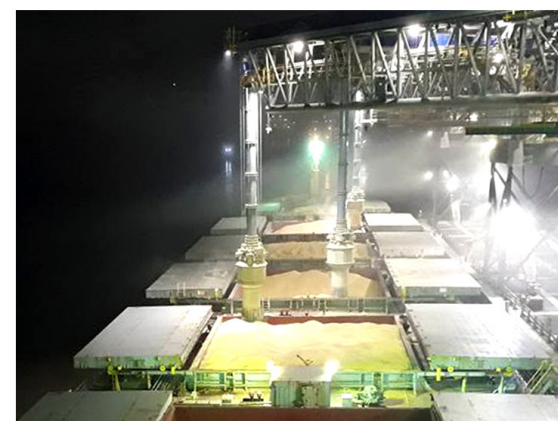
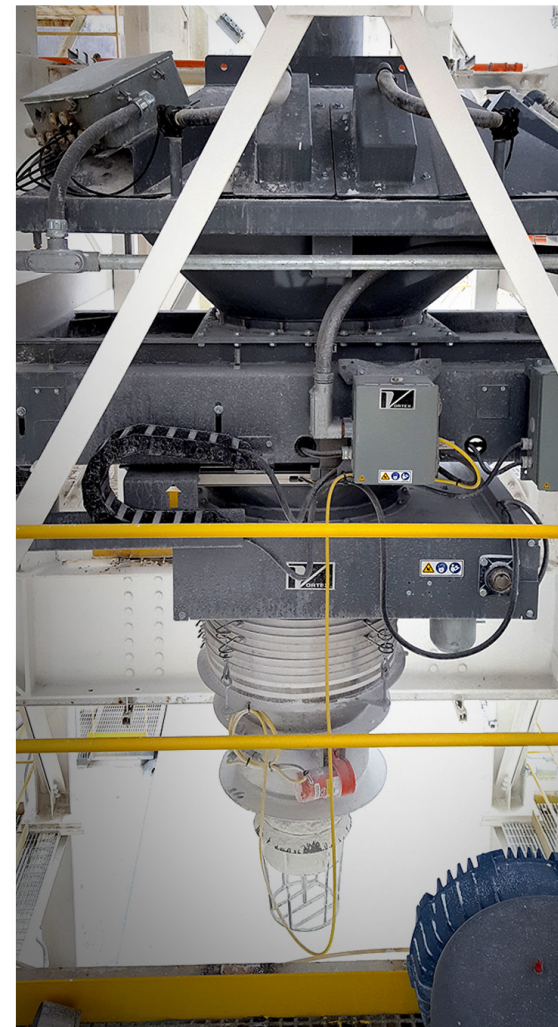
LOADING SOLUTIONS

SPOUTS, FILTERS, POSITIONERS & ACCESSORIES

Vortex Loading Solutions are specifically designed to capture fugitive dusts, prevent material waste, ensure plant and environmental safety, and accelerate the loading process. Featuring in-line maintenance capabilities and high-quality materials of construction, Vortex Loading Solutions are also designed for long-term reliability and reduced maintenance costs.

From loading spouts to countless accessories, Vortex offers a complete line of versatile components designed to improve loadout efficiencies and lend automation to your dry bulk process. That's why over the last 5 years, more than 1,500 Vortex Loading Solutions have been supplied - and today, can be found on six of the seven continents.

With more than 300 years of combined experience in the dry bulk material handling industries, clients can be assured Vortex application engineers will provide the best solutions for even the most difficult loading applications.





Model No. GRXX

TRUCK & RAIL LOADING

When filling trucks and railcars, loadout speed is the primary concern. For optimal loadout speeds and performance, the Vortex Loading Spout can be used in tandem with accessories specifically designed to accelerate the loading process.

KEY FEATURES:

- Cone-in-cone spout design
- Open or enclosed loading capabilities
- Outer sleeve to retain fugitive dusts
- In-line filtration system at the inlet to collect fugitive dusts by means of a vacuum pull
- Reverse pulse jets to purge collected dusts back into the load
- Single- and dual-axis positioners to allow approximated pulls
- Remote control pendants for operator safety
- Optional level-sensing probe. In open loading applications, this automates the spout retraction process to prevent material build-up in the spout. In enclosed loading applications, this triggers an automated command to halt material flow once the vessel is filled to a specified level.
- Option of installing a Vortex process gate above. When used in conjunction with a Vortex material flow control assembly, this allows material metering through the spout.
- Optional anti-friction liners and/or vibrators mounted at the outlet scavenger. Purpose is to prevent product bridging during loadout.
- For enclosed loading applications, outlet scavenger seats into the hatch to prevent dusting to atmosphere
- For enclosed loading applications, optional hatch adaptors can be easily removed and interchanged
- For open loading applications, optional dustless loading skirt encompasses the material pile to prevent dusting to atmosphere



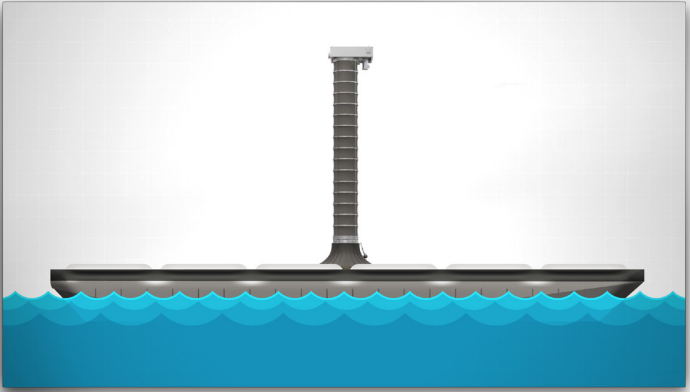
Model No. GRXX

STOCKPILE LOADING

When stockpiling dry materials, dust containment is the primary concern. When used in tandem with an inlet filtration system and a dustless loading skirt, the Vortex Loading Spout is specifically designed to retain fugitive dusts and prevent dusting to atmosphere.

KEY FEATURES:

- Cone-in-cone spout design
- Outer sleeve to retain fugitive dusts
- In-line filtration system at the inlet to collect fugitive dusts by means of a vacuum pull
- Reverse pulse jets to purge collected dusts back into the load
- Remote control pendants for operator safety
- Optional level-sensing probe to automate the spout retraction process & prevent material build-up in the spout
- Optional dustless loading skirt encompasses the material pile to prevent dusting to atmosphere
- Optional anti-friction liners and/or vibrators mounted at the outlet scavenger. Purpose is to clean residual materials from the spout's outer sleeve prior to retraction.



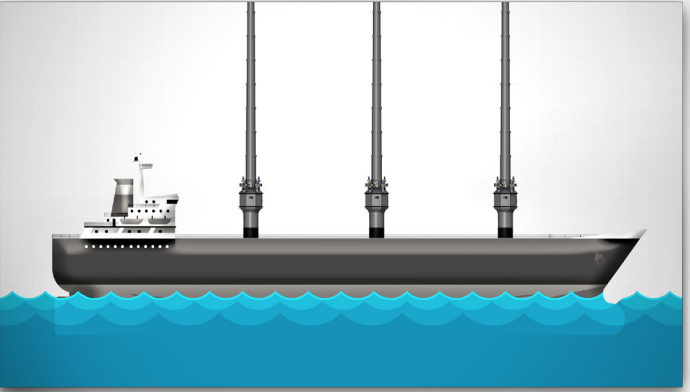
Model No. GRXX

BARGE LOADING

When loading dry materials into barges, travel distance, product dispersion and loadout speed are of primary concern. For optimal performance, the Vortex Loading Spout can be used in tandem with accessories specifically designed to create loading process efficiencies.

KEY FEATURES:

- Cone-in-cone spout design.
- Fabric sleeve to retain fugitive dusts.
- In-line filtration system at the inlet to collect fugitive dusts by means of a vacuum pull.
- Optional in-line filtration system at the outlet. Can be used as a stand-alone filter, or in conjunction with an inlet in-line filtration system. Purpose is to better collect fugitive dusts in spouts with greater travel distance.
- Reverse pulse jets to purge collected dusts back into the load.
- Optional spin loader or trimming spoon, each to be mounted at the outlet scavenger. The purpose of a spin loader's disc-shaped vane is to evenly disperse light-weight product over a large surface area. The purpose of a trimming spoon is to rotate around the outlet scavenger, in order to disperse large material quantities over a large surface area.
- Remote control pendants for operator safety & programmed spout commands.
- Material level-sensing device complements the spout's auto-raise feature to automate the retraction process, avoid material build-up in the spout & prevent overfilling. Once the vessel is filled to a specified level, the material level sensing device triggers an automated command to halt material flow.
- Option of installing a Vortex process gate above. When used in conjunction with a Vortex material flow control assembly, this allows material metering through the spout.
- Optional dustless loading skirt encompasses the material pile to prevent dusting to atmosphere.



Model No. GRXX

SHIP LOADING

When loading dry materials into bulk cargo ships, travel distance and loading efficiency are of primary concern. For optimal loadout speeds and performance, the Vortex Telescopic Loading Spout can be used in tandem with accessories specifically designed to accelerate the ship loading process.

KEY FEATURES:

- Tube-in-tube spout design
- In-line filtration system at the outlet to collect fugitive dusts by means of high-volume exhaust blowers
- Remote control pendants for operator safety
- Optional level-sensing probe to automate the spout retraction process & prevent material build-up in the spout
- Optional dustless loading skirt encompasses the material pile to prevent dusting to atmosphere
- Optional anti-friction liners and/or vibrators mounted at the outlet scavenger. Purpose is to clean residual materials from the spout's outer sleeve prior to retraction.

OTHER ACCESSORIES:

- For enclosed loading applications, optional self-sealing discharge unit seals off the outlet scavenger to prevent dusting to atmosphere between loading cycles
- Material sampling systems to test product quality at the point of loadout.
- Metal detection systems to alert for product contamination.