



# **SCORPIO BULK TRUCKS**

## ***Economize Transportation Costs!***

*Providing Cutting Edge Technology and Application Engineering Expertise in Bulk Solids Handling Systems*

**SCORPIO BULK TRUCKS** are used to haul a major amount of dry bulk material across large distances from supplier to user for industries such as Food, Minerals, Cement, Chemicals, Petrochemicals etc. Proper logistics can lead to low inventories. Silos at user plant can be filled in a few hours (Bulk Truck capacities range from 4 to 30 tonnes per hour depending on material characteristics like bulk density, particle size distribution, air retention / permeability etc.)

The cost per tonne of transporting these materials by using this method of dry bulk tankers is almost 30% cheaper than carrying the materials in bags. The major advantages of dry bulk transportation in tankers are:

1. Dust free and loss free handling
2. Elimination of bags and bag handling
3. Large tonnages can be transported
4. Automatic unloading to silos using pressurized air
5. Minimal manpower usage (one man can load and unload up to 100 TPH of most materials)

Scorpio manufactures the Bulk vessels to IS2825 standards. They are mounted on Ashok Leyland or TELCO chassis. Non-lubricated air compressors facilitate pneumatic unloading of vessels to silos located at the destination

Some of the materials that can be handled in the Bulk Trucks are:

### **POWDERS:**

Synthetic resins, compounds, and fertilizers.

All kinds of powders such as wheat flour, starch, food stuffs, salt, medicines detergents and agricultural chemicals.

### **GRANULES:**

Synthetic resin pellets such as polyvinyl chloride, ABS, polystyrene, polyethylene and nylon.

Quicklime, carbide, coke and aggregate.

Various kinds of cereals such as rice, wheat and bran.

All kinds of granules such as various foodstuffs, medicines, animal feeds, fertilizers, detergents and agricultural chemicals.



## TELESCOPIC LOADING SPOUTS

**Scorpio Telescopic Loading Spouts** or Telescopic Loading Chutes are used to gravity load dry bulk powders into open or closed road tankers, rail cars or onto open land. The principle of operation of the equipment ensures that such loading of powdery materials is done in an entirely dust free environment.

- The equipment consists of a series of collapsible cones contained within an outer flexible bellows covering. When in the lifted position, the inner cones and outer bellows collapse into each other. When in the extended position and ready to feed the material, these cones and bellows lower and extend out.
- In the extended position, the bottom of the unit which is lined with soft and durable sealing material on the outside fits snugly on the tanker hatch and makes a seal with it.
- The lifting and lowering of the inner cone and outer bellows is done through a 3 point wire suspension system driven by a brake geared motor. Upper and lower limit switches are provided to stop the spout at pre-determined extended and retracted positions.
- A built-in level sensor in the discharge portion senses powder as the level inside the tanker increases and the control system enables signals from the level sensor to shut off feed to the unit and to activate the lifting mechanism.
- Provision is available within the unit to seal the bottom as the unit lifts to prevent any dust within the unit to escape as the seal is broken between the tanker and the unit.
- For open discharge arrangement, onto open land to form a material heap, the spout is lowered first to the ground and overlapping flap seals on the discharge housing form a closed column between the overhead silo and the ground.



*To best select the Model and capacity of Bulk Tankers and Telescopic Loading Spouts for your specific application, please return the enclosed questionnaires duly filled-in.*

**SCORPIO offers state-of-the-art equipment and complete turnkey systems in:**

- In-plant Bulk Handling
- Dense & Dilute Phase Pneumatic Conveying Systems
- Open Truck Unloaders
- Container Tilting Unit for filling and discharge
- Bag Slitting Machines
- FIBC (Big Bag) Filling and Discharge Systems
- Bulk Transportation
- Central Vacuum Cleaning Systems
- Weighing and Batching
- Silos and Silo Discharge
- Port Bulk Handling
- Ship Loading / Unloading Systems (Pneumatic)

**We also offer consultancy in the design and Engineering of Bulk Solids Handling System.**

For further information, please contact

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