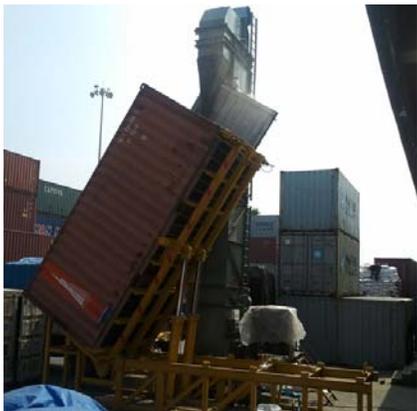




SCORPIO LINERED CONTAINER SYSTEMS

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

Most dry bulk materials in common use are invariably bagged in 25 kg., 50 kg. or 1 tonne Jumbo Bags. The filling, transportation and handling of these bags poses major problems in logistics since repeated handling is involved from manufacturing stage to usage point. Further there is major of environmental pollution due to dust during handling. Many dust control systems are ineffective due to the variables involved.

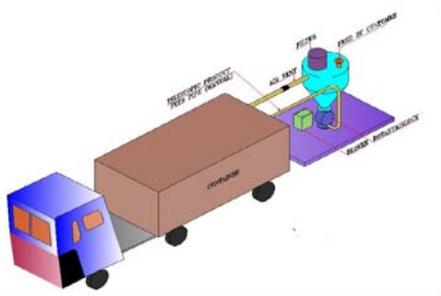


Linered Containers:

The obvious remedy to such problems in bag handling will be to eliminate bags totally and handle all dry materials in bulk. The use of standard 20 feet containers for domestic and international logistics is very common. For the dry bulk industry, it is possible to use these containers for movement of bulk material between manufacturer and user with the use of special plastic liners.

Principle: The method to use standard 20 feet containers for moving free flowing powders, pellets, flakes and granules in bulk is to have a fabricated plastic liner inserted into the container. The liner has a bulkhead at the rear of the container which has feed ports or holes for feeding material inside the liner in the container. The liner prevents the bulk material from contacting the inner sides of the container and also enables a fully sealed atmosphere for the bulk material during transport. Liners are filled both pneumatically and mechanically with the vent air during filling being filtered through a separate filter.

Once filled, container doors are closed and the containers are transported by rail, road or waterway to the destination. At the destination point, the container can be individually taken off the truck or rail platform and placed on hydraulic tilting platforms. The doors are opened and the discharge port of the linered container at the bottom of the liner bulkhead is connected to a Pneumatic Conveying System. The container is tilted by the hydraulic platform and the product flows through the Pneumatic Conveying System into the silos. The concept requires silos at both manufacturer and user end. Scorpio supplies the total system on turnkey basis from manufacturer to user end which includes silos, filling system, liners for containers, hydraulic tilting platform, silos at user end, conveying system to user silos etc. Leasing options are also available.



When the container is moved by road, it is also possible to tilt the entire prime mover (truck) with container on the hydraulic platform so that the lifting of container from truck to tilt platform is avoided. Some of the materials that can be handled by linered containers are Alumina, ABS resin, Barley, Wheat, Cattle feed, Cement, Clay, Coal, Coffee beans, Feldspar, Rock, Phosphate, Groundnuts, Milk Powder, Polyester Chips/PP/PE/Nylon, Pigments, Flour, PVC Resin, Salt, Seeds, Sugar, Soya beans, Soda Ash, Tea Leaf, Urea, Detergents, PTA, Corn, Lentils, Peas, Starch and Chemicals

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

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