Pneumatic Ship Unloaders

Offers agri-bulk Materials handling Solutions mainly:

- Portable grain pumps
- Pneumatic continuous barge unloaders
- Pneumatic continuous ship unloaders for vessels up to post-Panamax
- Mechanical continuous ship unloaders for vessels up to post-Panamax
- Mechanical loaders for any size of barges and ships

VIGAN capabilities include also complete turnkey projects for port terminals including ship unloading & loading, storage facilities and bagging operations.

VIGAN ship unloader NIV 300 Tph/250kW : on self-propelled gantry on tires with diesel generator discharging cereals into conveyor and trucks.
Bulk handling of most free flowing materials (density usually between 0.5 and 0.9) such as all kinds of cereals, seeds, nuts, animal feed stuff, delicate cargoes (e.g. rice, cocoa beans), certain chemicals (dense soda ash, urea or alumina), wood pellets,… but also slightly compacted products such as soy bean meal (SBM). Other products can be discharged on demand (please send us a sample).

Many different models can be designed according to the customer’s requirements: gantry type (stationary, self-propelled on rubber wheels or on rails), unloading capacity, boom length (up to 30m), diesel/electrical power unit and many special optional devices.

Unloading of any size of ships from barges to the largest bulk carriers or tankers (up to post Panamax size).

Discharging into a wide range of bulk transport equipment: trucks, wagons, wharf conveyors, elevators, etc.

Capacities:
- up to 800 metric tons per hour per suction pipe.

Key Features:
- Project management from A to Z, from design to manufacturing;
- Fully customised according to customer request and site specifications;
- Simple and heavy-duty construction: high wear-resistant alloys for airlock, pipes, flexibles and elbow (in NiHard cast iron);
- Low energy consumption (0.7 Kw/h per ton unloaded), thanks to the direct drive of VIGAN high pressure multi-stage centrifugal/turbo blowers and frequency inverters;
- Self-cleaning filter by air compressor with jet pulse system, from 60m² to 400m² depending on the capacity needed and the product unloaded;
- Hydraulic luffing of the boom;
- Remote control of all movements of the boom and the telescopic pipes;
- Complete range of safety devices: complete accesses by stairs for operators (standardised on our machines), lighting for night work, anti-explosion devices (ATEX zones),…
- Environment friendly: low dust emission thanks to vacuum system and automatic self-cleaning filter.

Optional devices:
- Operator’s cabin;
- Winch for lifting a bulldozer;
- Full steering system for gantry on tyres;
- Siemens PLC;
- Noise insulation (cabin, nozzle, pipes, HMI,…)

RELIABILITY AND EFFICIENCY

HUNDREDS OF WORLDWIDE REFERENCES

VIGAN ship unloader NIV 600 TPH/500 kW on self-propelled gantry on rails with cable reel, discharging cereals into wharf conveyor