



PORT EQUIPMENT - SHIP LOADERS / UNLOADERS

From initial project design to complete turnkey installations
with mechanical and/or pneumatic most reliable and profitable solutions



TOWER-TYPE

PNEUMATIC SHIP UNLOADERS

from 160 to 600 tons/hour 5M



200 tons/hour

Antwerp - Belgium

TYPE 160 - 200 - 300 UP TO 600

Bulk handling of any kind of cereals, seeds, nuts, animal feedstuff, some delicate cargoes (malt rice, cocoa beans), and certain chemicals (urea).

«**Tower**» type **VIGAN machines** are particularly well suited for the unloading of coastal vessels and/or barges with a width (beam) lower than about 15 – 20 meters.

A boom up to 17-18 meters is usually sufficient to reach most of the hold openings area and to ensure efficient unloading operations.

Suction and gravity discharge into trucks or industrial plant conveyors.

Capacities: up to 600 metric tons per hour.

Many different models:

Special design according to customer's requirements;

- Rotating boom lengths up to 17-18 meters;
- Horizontal and vertical telescopic suction pipes;
- Full electric or autonomous diesel power unit.

VIGAN high pressure 3 to 4 stage centrifugal turbo-blowers

Self-cleaning filter up to 165 m²

VIGAN cast iron heavy-duty airlock

from 75 up to 400 liters per rotation with replaceable and adjustable blade cutting tips and sealing rings.

Simple and heavy-duty construction:

Special design according to customer's requirements;

- High wear resistant alloys for airlock, elbow, pipes, flexibles, ...
- Fully hot-dipped galvanized boom with rotation of more than 180°.

Special features:

- Complete range of safety devices;
- Remote control of all movements of the boom and its telescopic pipes;
- Rotation of the boom : more than 180°.

**FOR MORE INFORMATION CONTACT
WWW.VIGAN.COM**

A team of highly qualified specialists
will immediately initiate for you
a comprehensive study of your project



200 tons/hour

Douala - Cameroon



175 tons/hour

Willebroek - Belgium



150 tons/hour

Patras - Greece

FULLY CUSTOMIZED EQUIPMENT

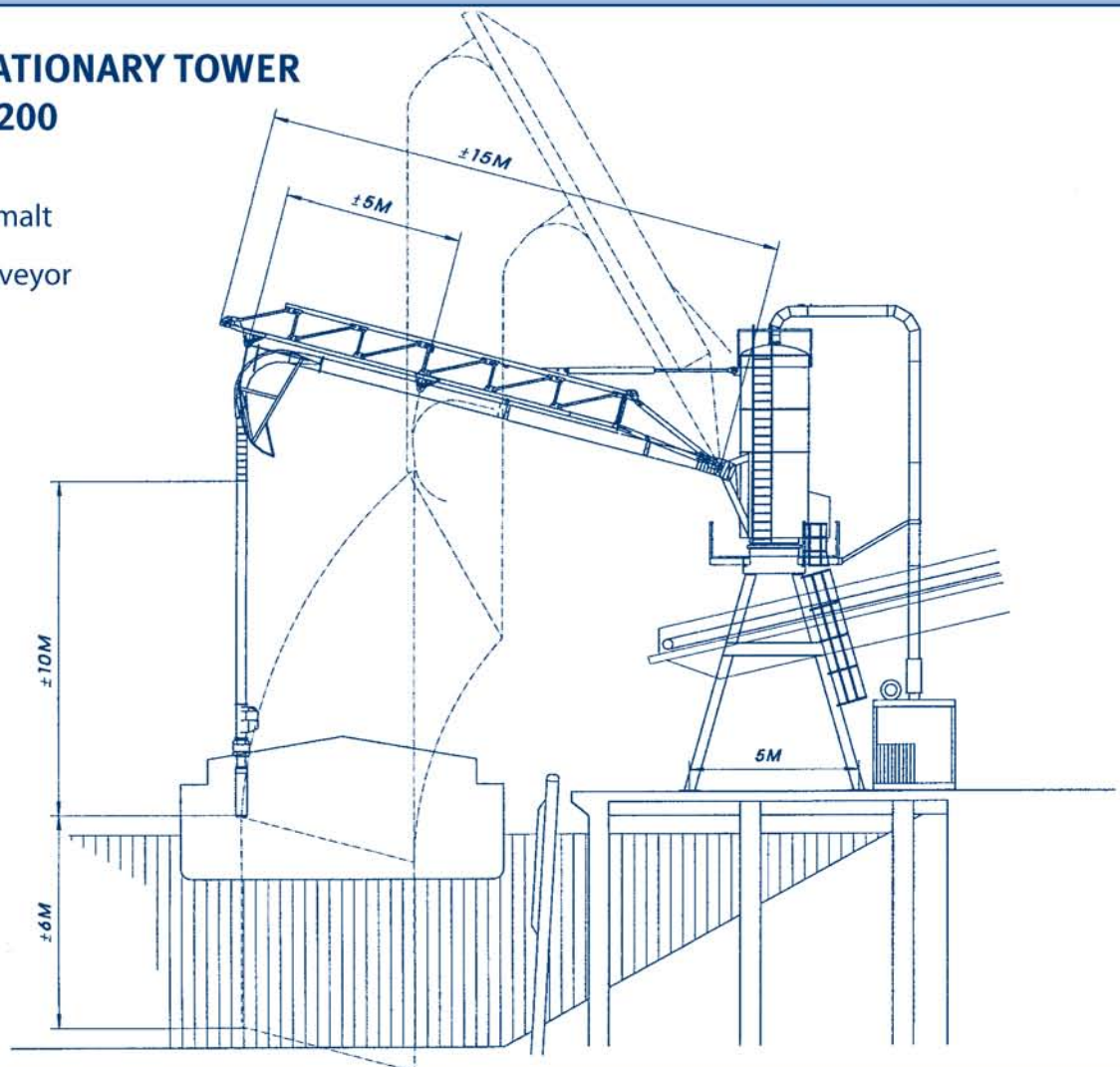


150 tons/hour (malt)

S'Hergtogenbosch - Netherlands

VIGAN STATIONARY TOWER TYPE NIV 200

Discharging malt
on a belt conveyor



**WORLDWIDE REFERENCES
AMONG LARGEST AGRI-BUSINESS COMPANIES**

VIGAN TOWER-TYPE PRINCIPLE

VERY SIMILAR TO NIV

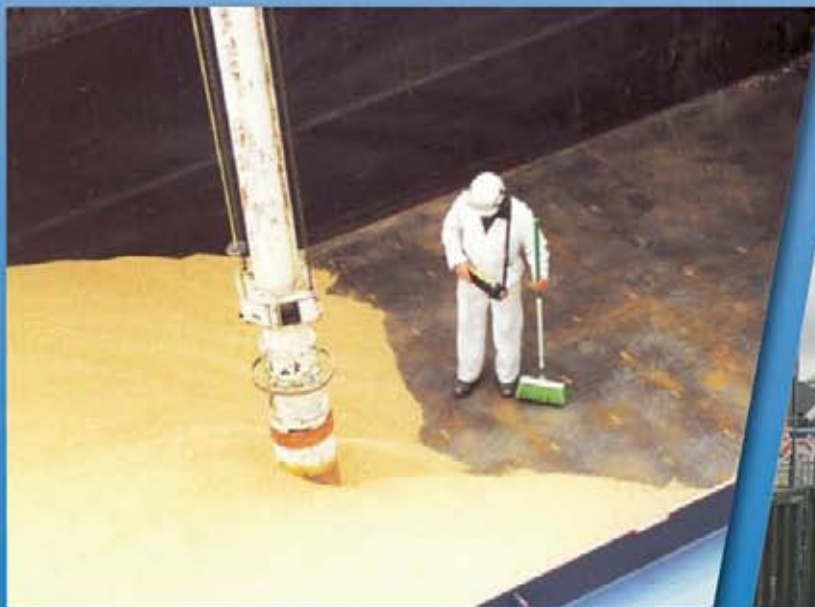


Vigan airlocks



Vigan multi-stage turbo-blowers

SOME ADVANTAGES OF CONTINUOUS UNLOADING



- One single operator also during all cleaning
- Safe working conditions
- Environment-friendly : no dust

- Complete hold coverage
- High average efficiency
- Low energy consumption (0.6—0.8 KW/t)

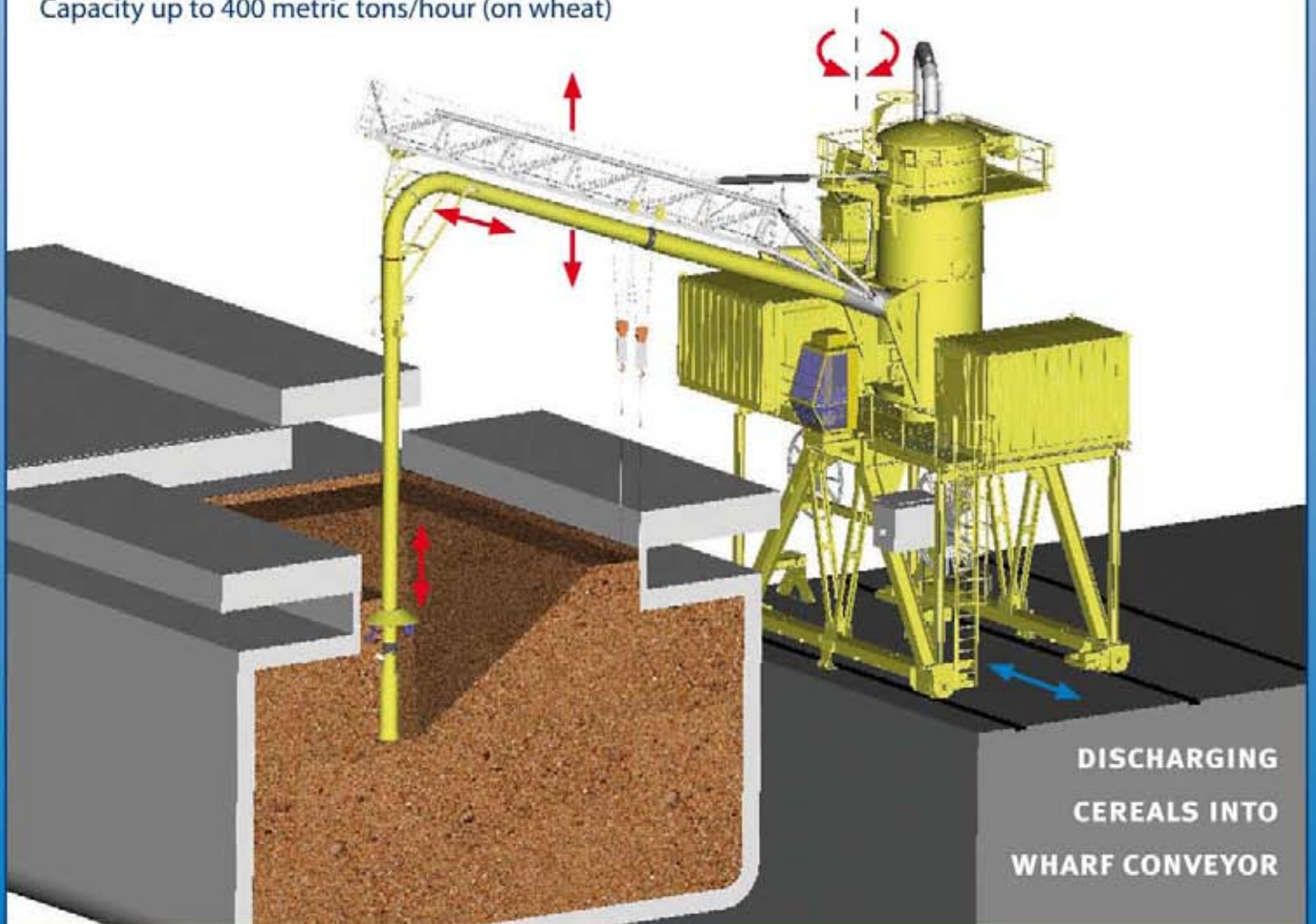


400 tons/hour

Sète - France

VIGAN TOWER TYPE NIV 400 ON RAILS

Capacity up to 400 metric tons/hour (on wheat)



DISCHARGING
CEREALS INTO
WHARF CONVEYOR



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MANUFACTURES BULK MATERIALS HANDLING SOLUTIONS MAINLY:

- ◆ Mobile pneumatic conveyors or vacuators or grain pumps
- ◆ Pneumatic continuous barge unloaders and mechanical barge loaders
- ◆ Mechanical and pneumatic continuous ship unloaders for vessels up to post-Panamax
- ◆ Mechanical loaders for any size of ships

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

