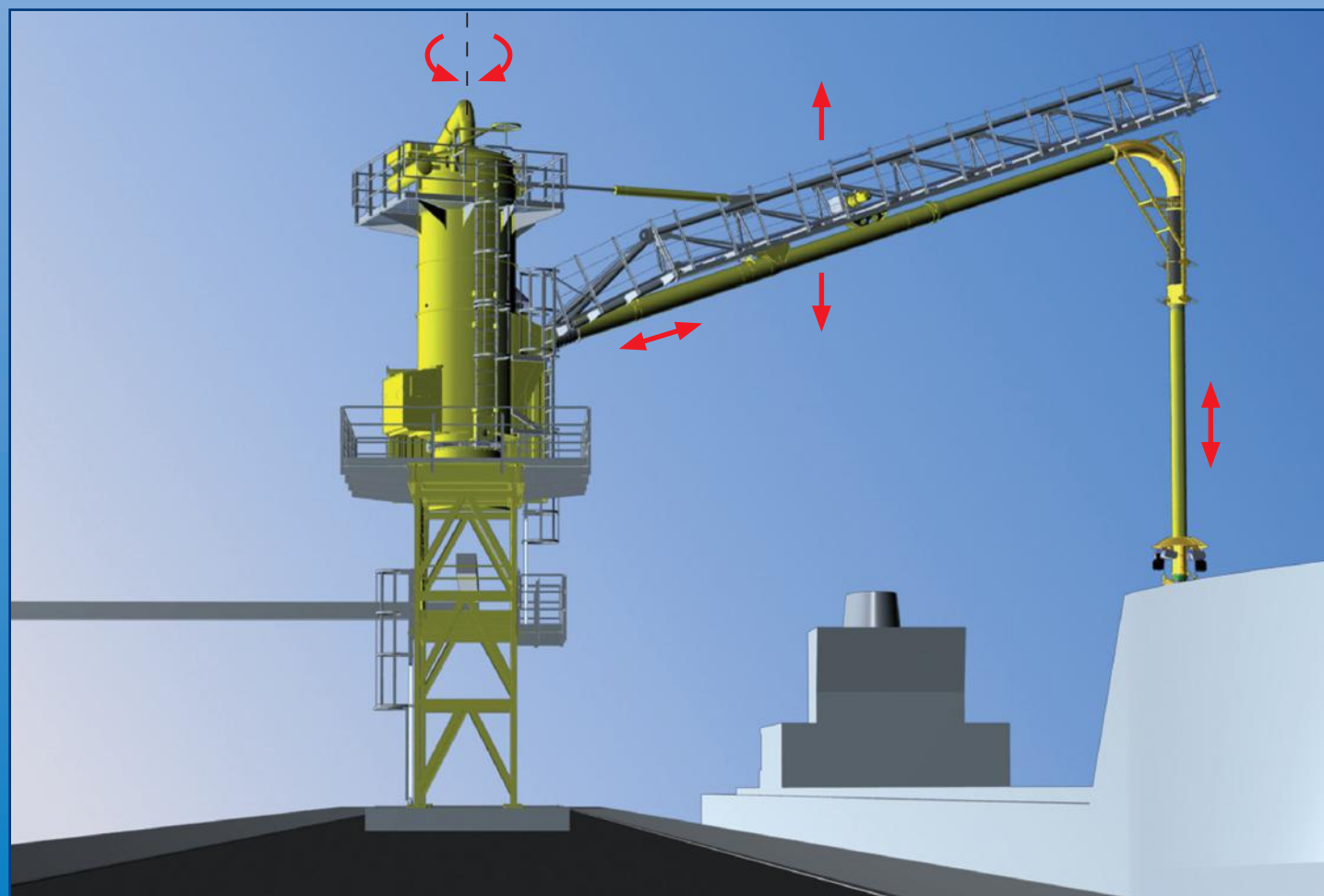




200 tons/hour
Antwerp - Belgium

VIGAN PNEUMATIC BARGE UNLOADER ON FIXED GANTRY
Capacity up to 200 metric tons/hour (on wheat)



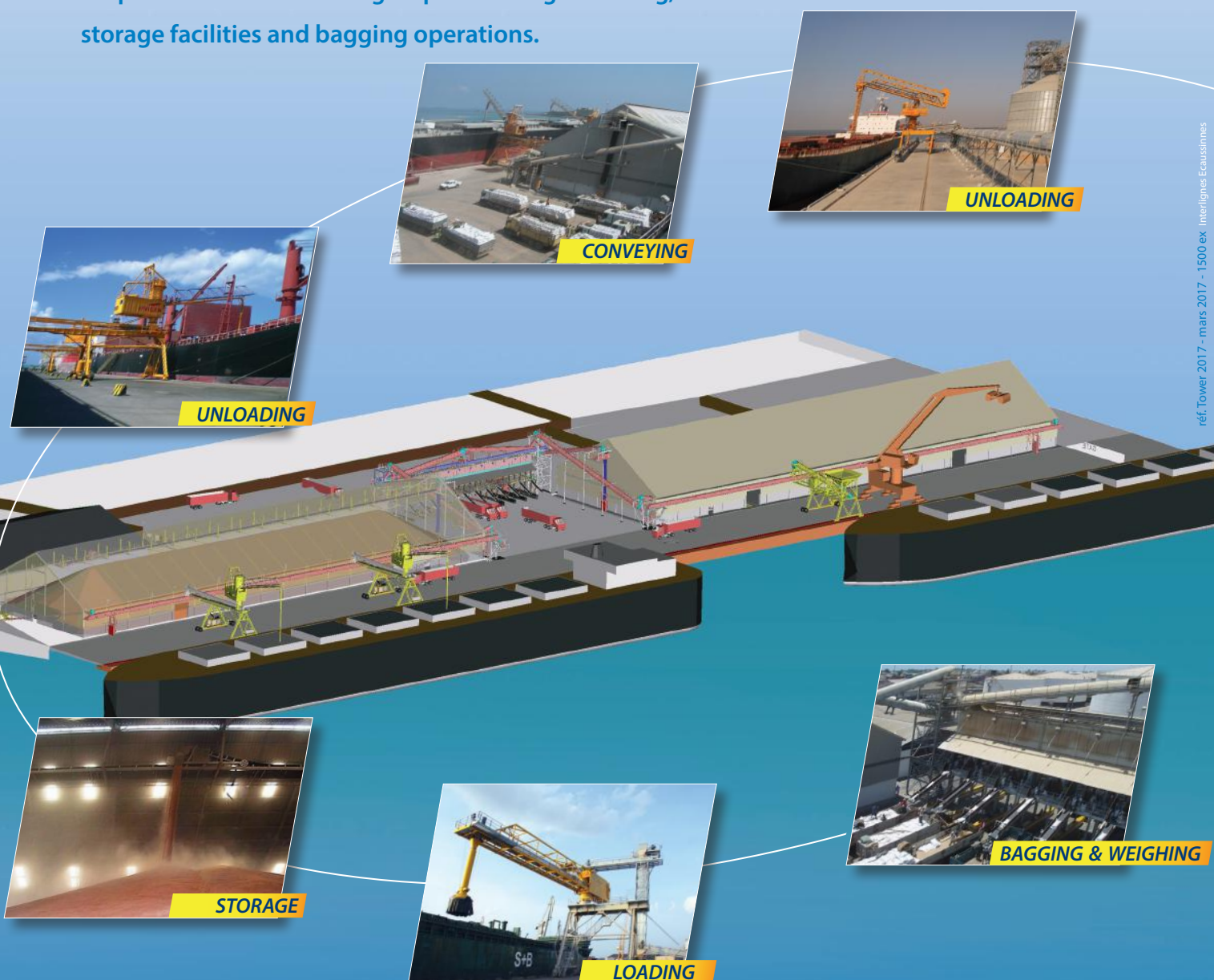
ENGINEERING S.A.

Rue de l'Industrie, 16 • 1400 Nivelles • Belgium
Phone: +32 67 89 50 41 • Fax: +32 67 89 50 60
www.vigan.com • info@vigan.com

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.



PORT EQUIPMENT - SHIP LOADERS / UNLOADERS

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



PNEUMATIC BARGE UNLOADERS

from 160 to 600 tons/hour 5M



200 tons/hour

ANTWERP - Belgium



250 tons/hour

DHAKA - Bangladesh



250 tons/hour

BATANGAS - Philippines



400 tons/hour

SÈTE - France

Bulk handling of any kind of cereals, seeds, nuts, animal feedstuff, some delicate cargoes (malt rice, cocoa beans), and certain chemicals (urea). Density usually between 0.5 and 0.9. Other products can be discharged on demand (please send us a sample).

VIGAN Pneumatic Barge Unloaders are particularly well suited for the unloading of coastal vessels and/or barges with a width (beam) lower than about 15 – 20 meters.

Suction and gravity discharge into trucks or industrial plant conveyors.

Capacities: up to 600 metric tons per hour.

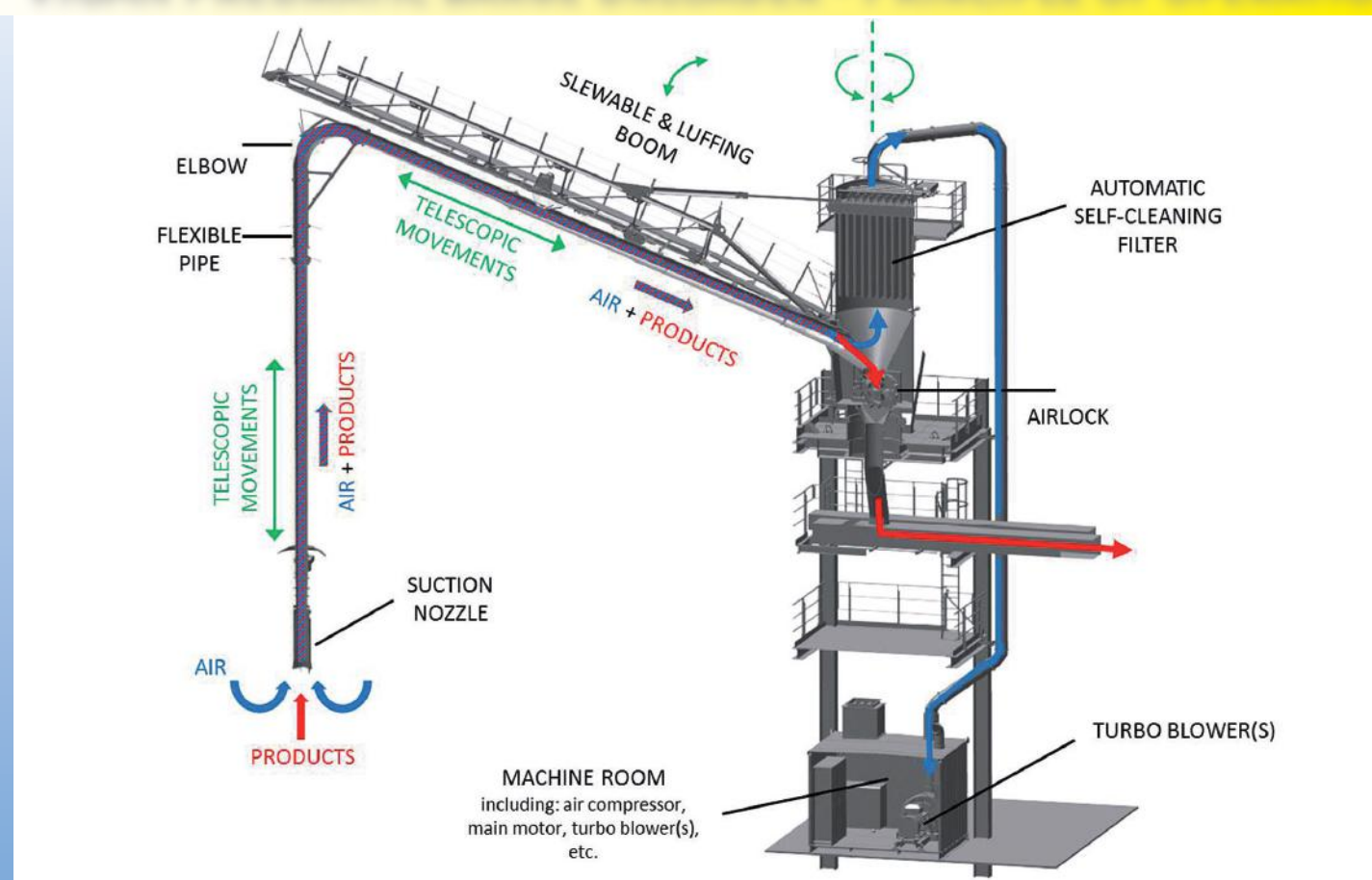
Key Features

- Project management from A to Z, from design to manufacturing;
- Generally mounted on a fixed gantry, although mobile systems are possible;
- Simple and heavy-duty construction: high wear-resistant alloys for airlock, pipes, flexibles and elbow (in NiHard cast iron);
- Fully customized according to customer request and site specifications, easier and more compact solution than VIGAN «NIV» pneumatic ship unloaders, flexible design;
- Low energy consumption (0.6 Kw/h per ton unloaded), thanks to the direct drive of VIGAN high pressure multi-stage centrifugal turbo blower(s) and frequency inverter;
- Self-cleaning filter by air compressor with jet pulse system up to 165m²;
- A boom up to 17-18 meters is usually sufficient to reach most of the hold openings area and to ensure efficient operations;
- Hydraulic luffing of the boom (optional);
- Remote control of all movements of the boom and the telescopic pipes;
- Complete range of safety devices: complete accesses by stairs for operators (standardized on our machines), lighting for night work, anti-explosion devices (ATEX zones)...
- Well adapted to urban areas thanks to low dust and noise emissions

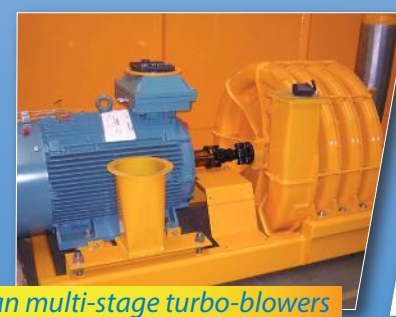
Optional devices:

- Operator's cabin;
- Winch for lifting a bulldozer;
- Noise insulation (cabin, nozzle, pipes, HMI,...)
- PLC Siemens program;

VIGAN PNEUMATIC BARGE UNLOADER - PRINCIPLE OF OPERATION



EXAMPLES OF OPTIONAL DEVICES



Vigan multi-stage turbo-blowers



Vigan airlocks



Vigan elbow



Operator's cabin



Winch for lifting a bulldozer (up to 6T)



Acoustic insulation of filter, tower, piping, suction nozzle

FULLY CUSTOMIZED EQUIPMENT

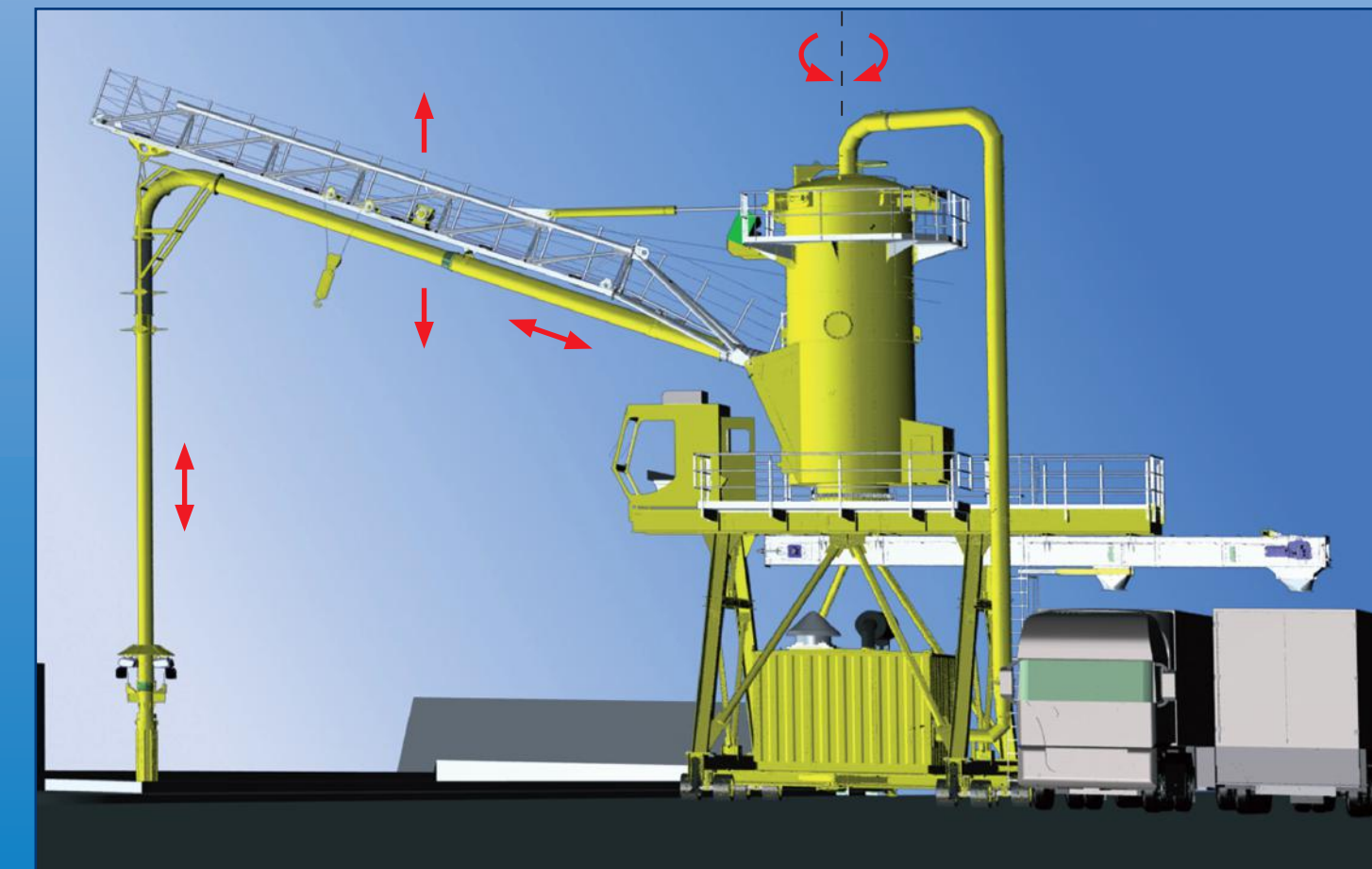


300 tons/hour

Amirabad - Iran

PNEUMATIC BARGE UNLOADER OF 300 TPH

Mounted on a mobile tractable gantry



RELIABILITY AND EFFICIENCY