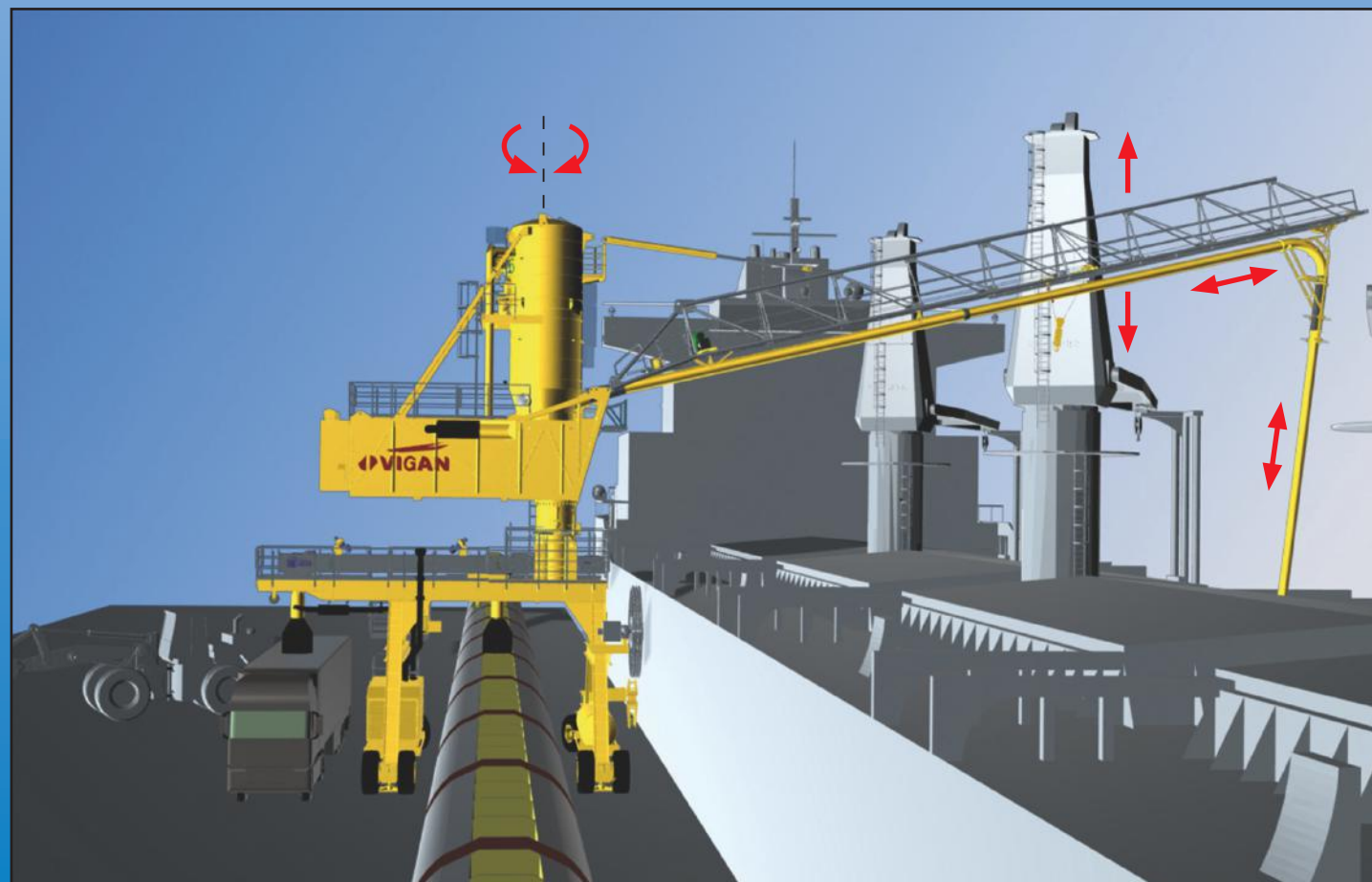




300 tons/hour / 250kW  
DJENDJEN - Algeria

**VIGAN SHIP UNLOADER NIV 300 Tph/250kW :**  
on self-propelled gantry on tires with diesel generator  
discharging cereals into conveyor and trucks.



MORE THAN 200 HIGH CAPACITY EQUIPMENT



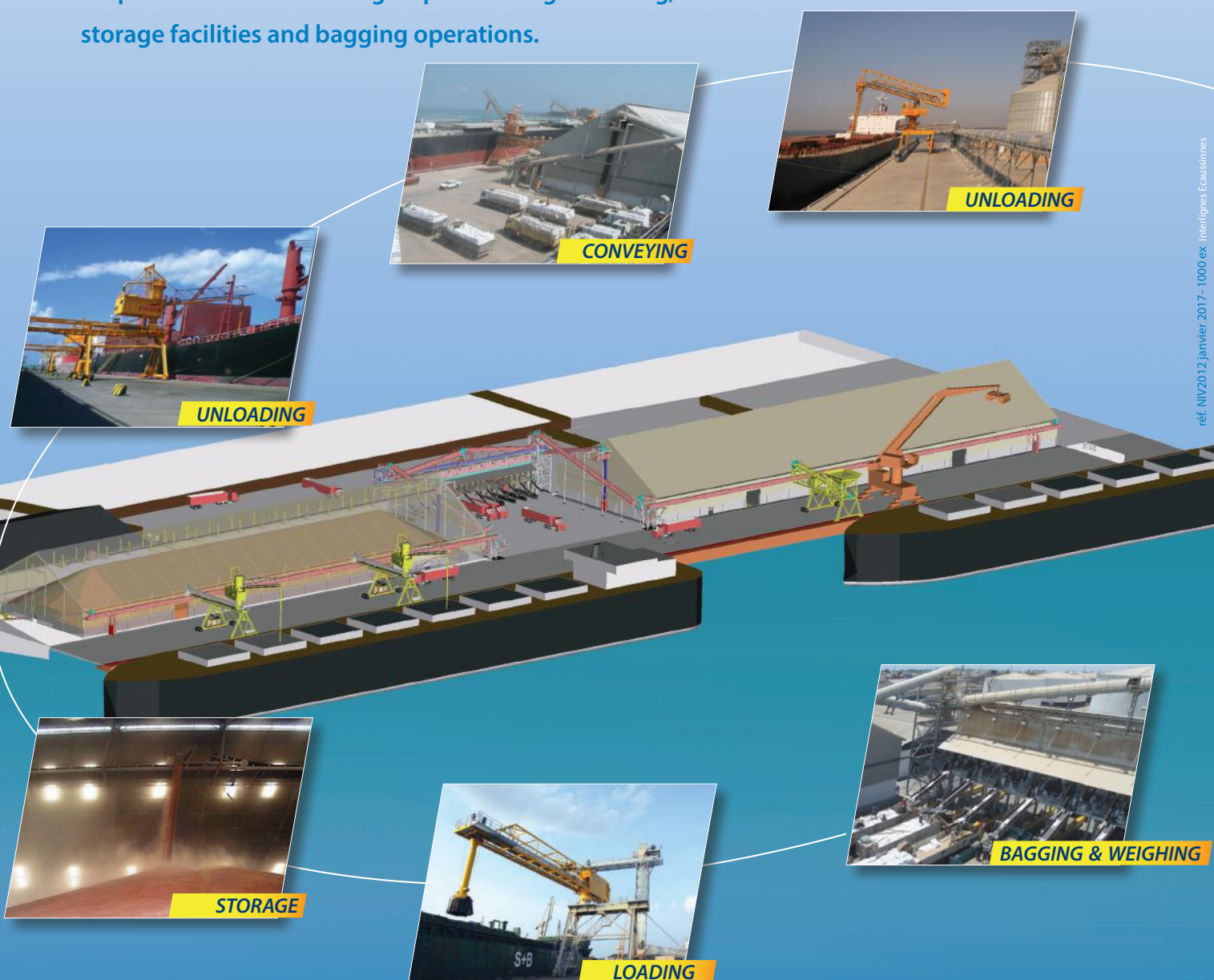
ENGINEERING S.A.

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.



réf. NIV2012 Janvier 2017 - 1000 ex. Intelliges Ecoussines



**PORT EQUIPMENT - SHIP LOADERS / UNLOADERS**

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



**NIV**

**PNEUMATIC SHIP UNLOADERS**

Pneumatic on gantry  
from 200 up to 800 tons/hour

270°

7M



## VIGAN NIV PNEUMATIC SHIP UNLOADER - PRINCIPLE OF OPERATION

## HUNDREDS OF WORLDWIDE REFERENCES



600 tons/hour - on rails  
JAZAN - Saudi Arabia



600 tons/hour - on rails  
DUNKIRK - France



300 tons/hour - on tires  
BEJAIA - Algeria



2,200 tons/hour - 4 machines on tires  
ALEXANDRIA - Egypt

**Bulk handling of most free flowing materials (density usually between 0.5 and 0.9)** such as all kind of cereals, seeds, nuts, animal feed stuffs, delicate cargoes (malt 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.

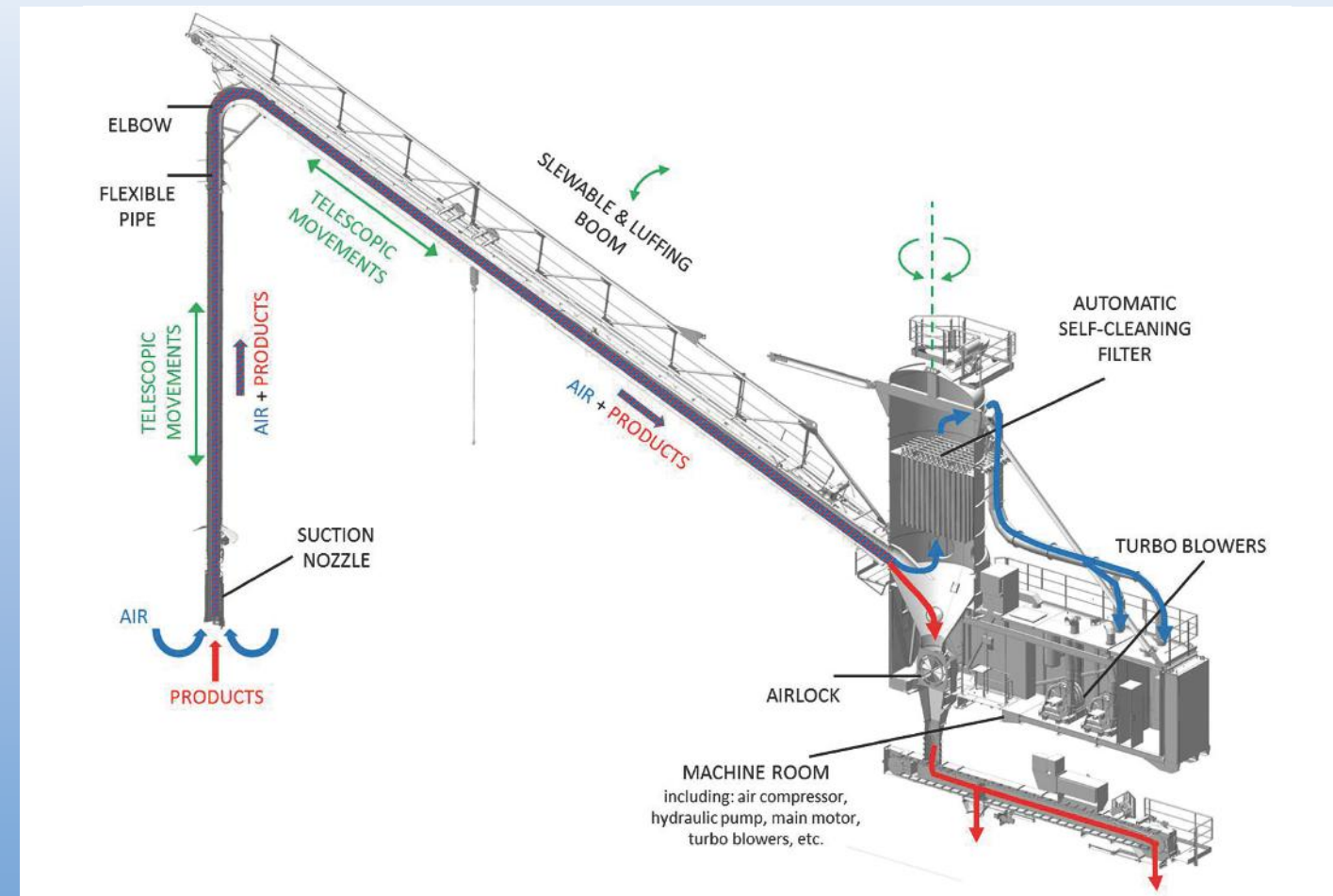
**Capacities:**  
up to 800 metric tons per hour per suction pipe.

### Key Features

- Project management from A to Z, from design to manufacturing;
- Fully customized 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 blower(s) and frequency inverter;
- Self-cleaning filter by air compressor with jet pulse system, from 68m<sup>2</sup> to 400m<sup>2</sup> 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 (standardized 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,...)



Vigan multi-stage turbo-blowers



Vigan airlocks



Vigan elbow

## EXAMPLES OF OPTIONAL DEVICES



Operator's cabin



Winch for lifting a bulldozer

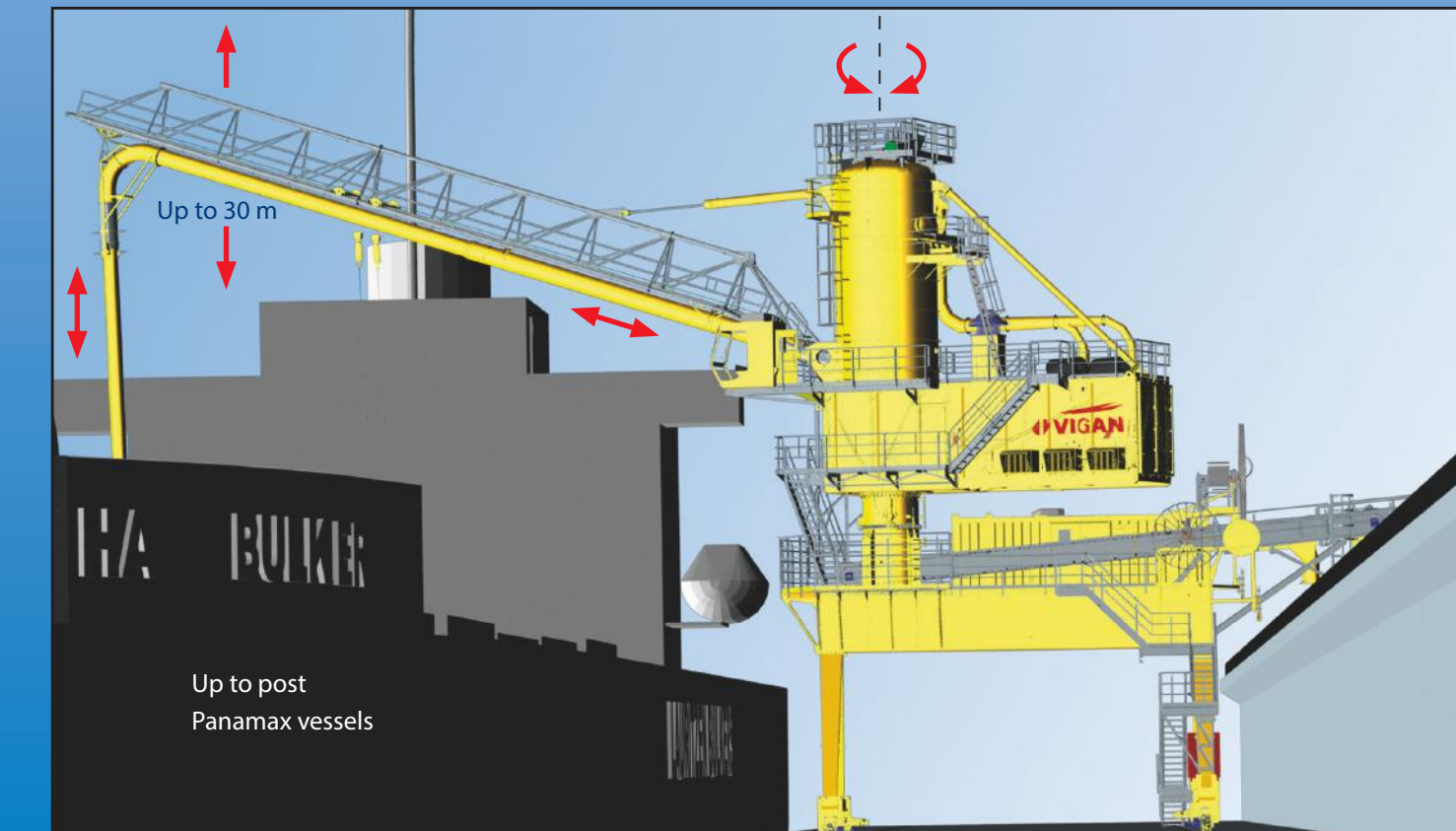


Full steering for gantry on tyres



600 tons/hour  
TAICHUNG- Taiwan

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



**RELIABILITY AND EFFICIENCY**