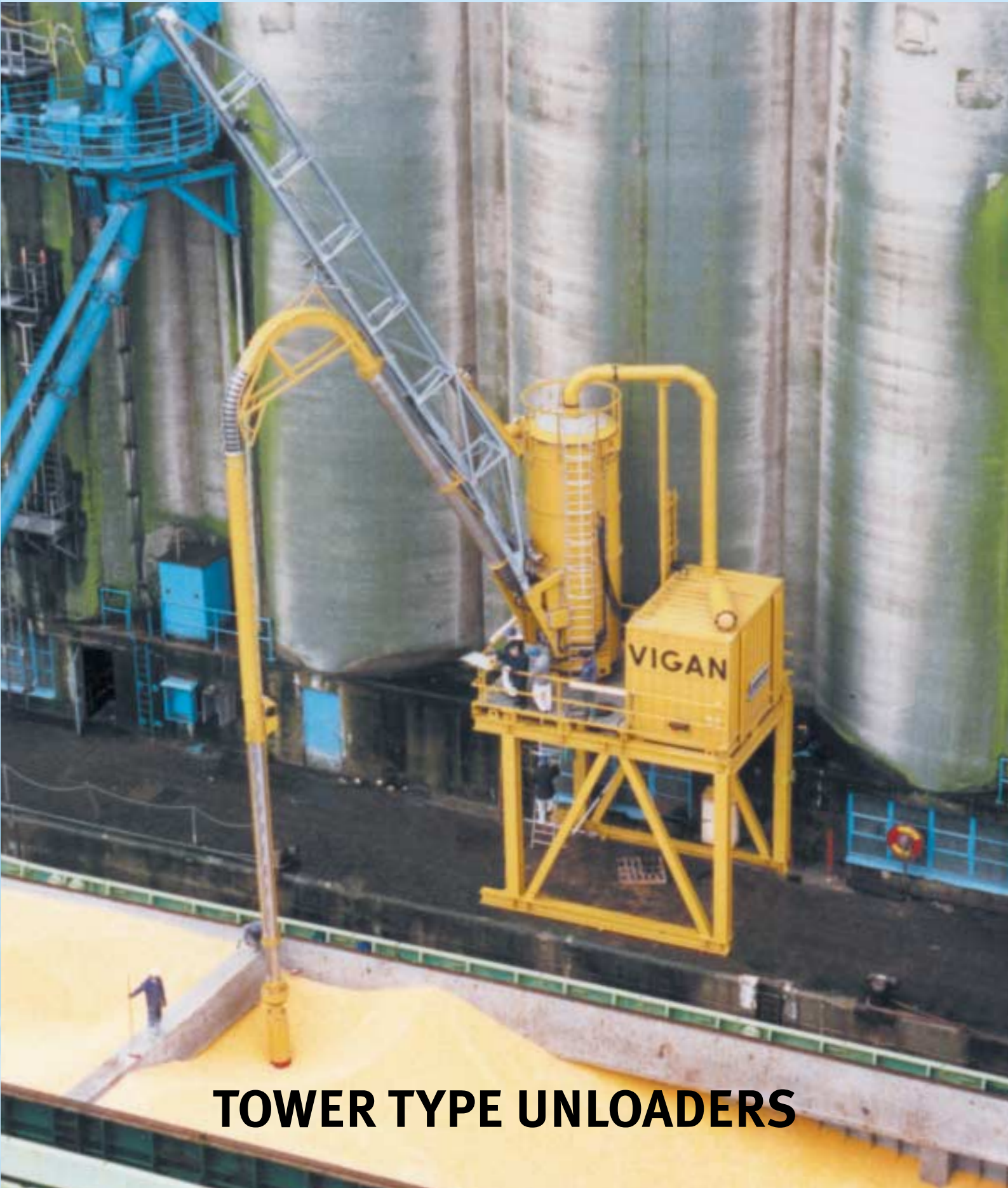




**Ships and Barges
Loading / Unloading
Ports and Silos Equipments**



TOWER TYPE UNLOADERS



Type 110 - 160 - 200 - 300 up to 500

Bulk handling of any kind of cereals, seeds, nuts, animal feed stuffs and also delicate cargoes like malt, rice, cocoa beans...

Free and non-free flowing materials

Specially suited for barges and coaster vessels

Suction and gravity discharge into trucks or industrial plant conveyors.

Capacities: up to 400 metric tons per hour.

Quick and clean unloading operations:

- no spillage: totally enclosed design.
- no dust: automatic self-cleaning filter.
- no noise: acoustic insulation.

Wide variety of models:

- Special design according to customer requirements.
- Various rotating boom lengths up to 25 metres.
- Horizontal and vertical telescopic suction pipes.
- Full Electric or autonomous Diesel power unit.

VIGAN high pressure 3 to 4 stages centrifugal turbines.

Self cleaning filter up to 165 m² with air compressor to ensure maximum reliability.

VIGAN cast iron heavy duty airlock from 75 up to 800 litres per rotation with replaceable and adjustable blade cutting tips and sealing rings.

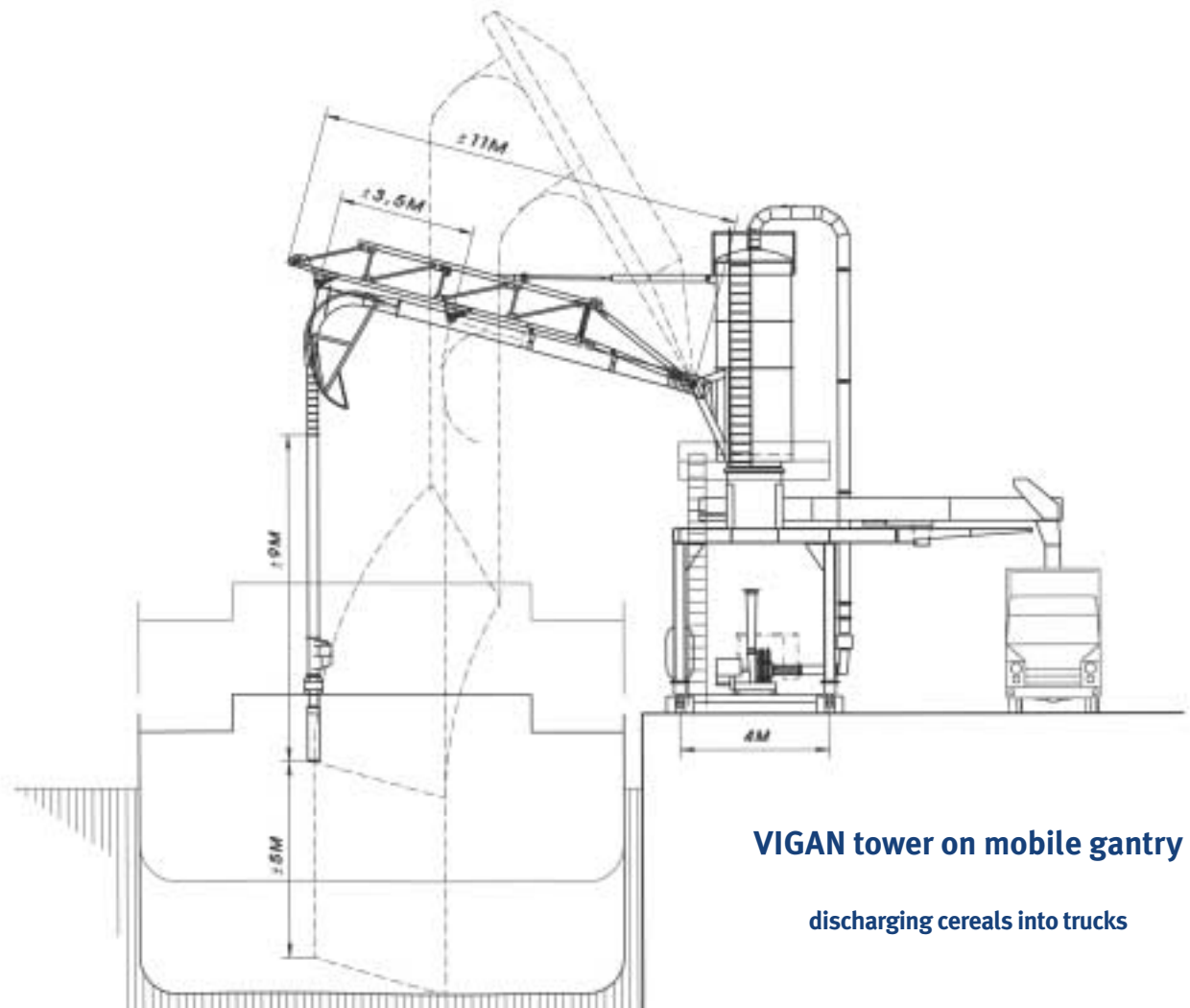
Special features like:

- fully hot-dipped galvanised boom.
- complete range of safety devices.
- remote control of all movements of the boom and of the telescopic pipes.
- rotation of the boom: more than 180°.

**For more informations
contact VIGAN**

a team of highly qualified specialists
will immediately initiate with you
a comprehensive study of your project.





VIGAN tower on mobile gantry

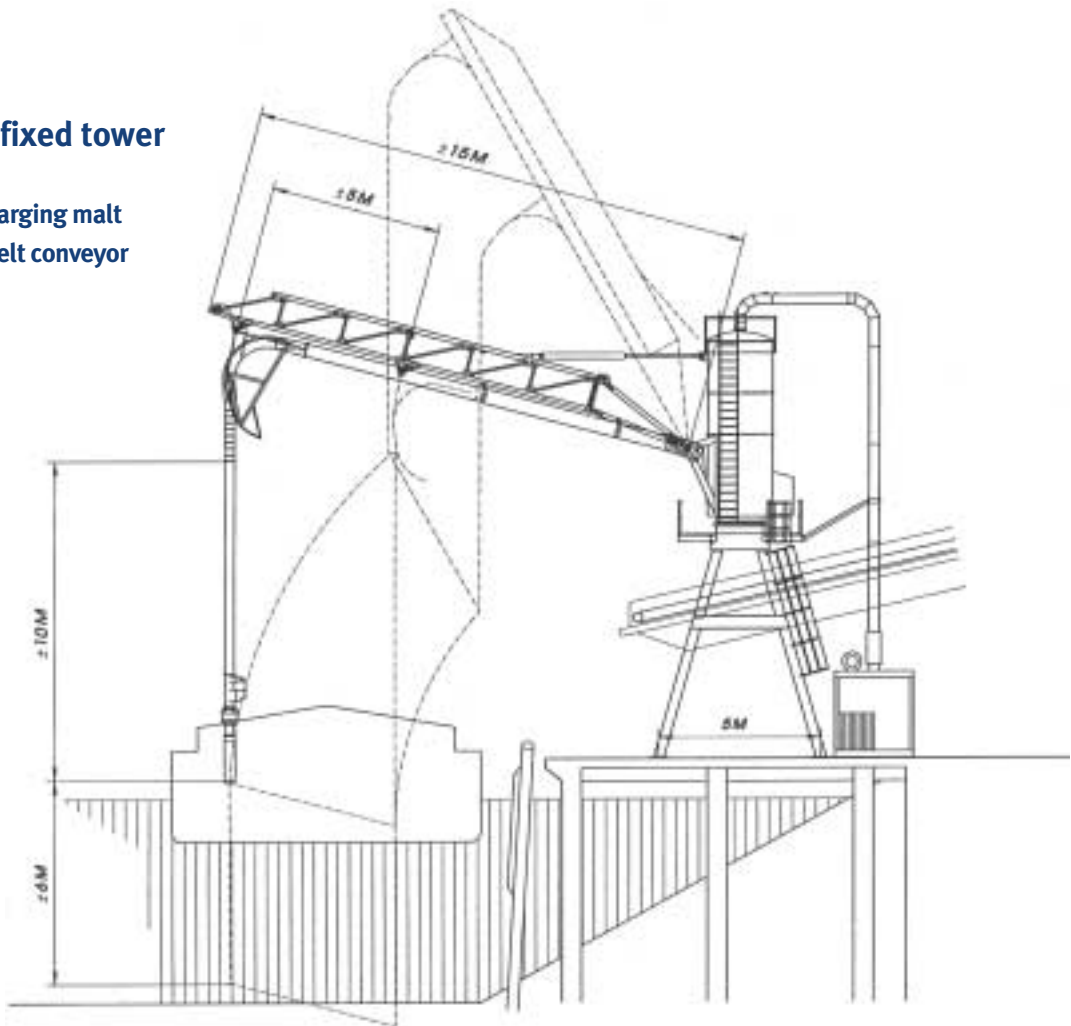
discharging cereals into trucks

**Complete technical description
available upon request**

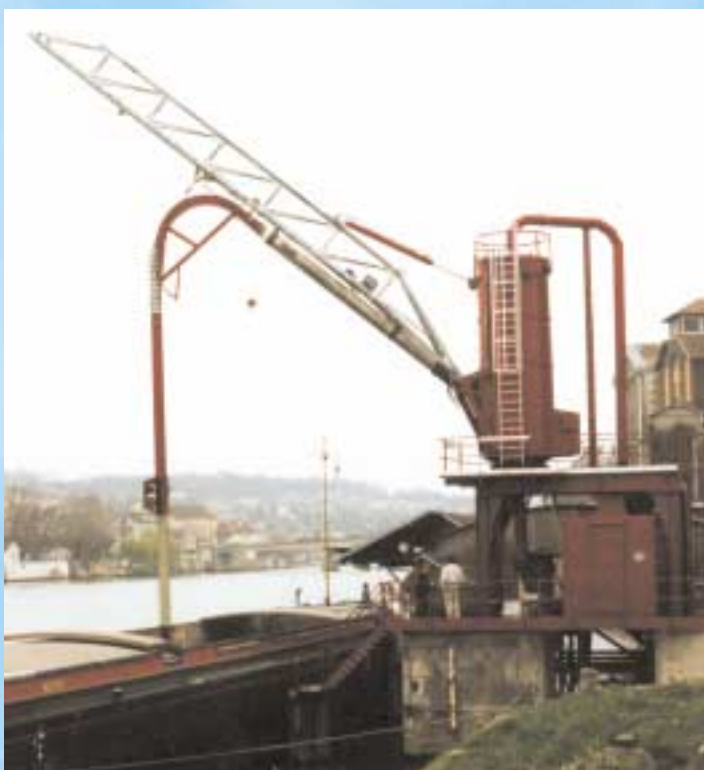


VIGAN fixed tower

discharging malt
on a belt conveyor



**World wide references among
largest agri-business companies**



VIGAN: your partner in Bulk Handling

VIGAN PORTABLE MACHINES

Unloading and loading of all types of vessels.

Bulk handling: agro industries and storage facilities.

Capacities: up to 250 metric tons per hour.

Many special accessories for all working conditions:
for highest reliability and maximum operational efficiency.



VIGAN SHIP UNLOADERS

Self-propelled gantries for any vessel size up to post Panamax

Capacities: up to 600 metric tons per hour (up to 1,200 metric tons/hour with 2 suction pipes).

Various designs:

- on rails, on rubber wheels or stationary;
- Diesel engine or electrical motor;
- boom length up to 30 metres;
- loading trucks, wagons, wharf conveyor, ...

Special options:

- winch for bulldozer or front loader;
- cutting suction nozzle for non free flowing products like soy bean meal, ...
- noise reduction (acoustic insulation) and many others.

50 pages fully detailed catalogue with world wide references

VIGAN SHIP LOADERS

All types of product and vessel sizes

Capacities: adapted to customers requirements.

Fully customised with many options such as stationary or self-propelled gantries, rotating and/or telescopic boom, telescopic loading spout, dust reduction, control cabin, ...



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