

VIGAN wears seven-league boots



Pyeongtaek – SOUTH KOREA: 1 NIV 600 - on rails with electrical cable reel.

VIGAN Engineering S.A. is a Belgian company located in Nivelles industrial area, about 30km south from Brussels, at the heart of the European Union. Mainly active in the dry bulk handling market, mostly for products from agriculture origin such as any kind of grains, oilseeds, animal feedstuffs, VIGAN equipment can also handle other free flowing products, such as biomass pellets (which are an emerging and dynamic market), fertilizers, soda ash and alumina for instance.

VIGAN manufactures a complete range of pneumatic and mechanical equipment, not only providing ship unloaders and loaders, but also managing complete turnkey projects for port terminals.

With 1,200 machines sold throughout more than 80

countries over 42 years, including 180 large size pieces of equipment of several hundred metric tonnes handling capacity, VIGAN is a most reliable and specialized company in its sector with a recognized international experience and know-how.

VIGAN is exporting more than 95% of its production with an annual sales volume of €20–30 millions.

START-TO-FINISH CUSTOMER SERVICE:

From initial project first hand ideas up to delivery of turnkey installations, VIGAN expert multi-disciplinary team supports the customer from his project development until its completion. Its project management involvement includes planning, design, engineering and manufacturing of state-of-the-art equipment with low operational costs and which are also respecting all safety and environmental requirements.

VIGAN Engineering has proven its ability to manage both the smallest details, and the total project overview to guarantee on time, on budget and to specification handover of the completed work.

ENGINEERING:

VIGAN's efforts in research & development mainly based on experience and feedback from customers continually optimize



2 NIV 600 under manufacture in VIGAN factory.

Tilbury – UNITED KINGDOM: 1 of the 2 NIV 600 - on rails with electrical cable reel (unloading wood pellets for RWE co-firing power plant).



not only the general design of the equipment but also the reliability.

For instance, VIGAN confirms its leadership and innovation spirit by introducing new technologies in pneumatic unloading, such as optimized piping systems and electronic regulation of high-speed motors.

WIDE RANGE OF EQUIPMENT:

VIGAN offers a wide range of equipment for the customer who will be able to select the most convenient solution:

- ❖ unloading and loading of any size of vessels, from small barges to post-Panamax vessels
- ❖ choice between mechanical and/or pneumatic equipment according to each project characteristics.

VIGAN equipment is individually customized to meet any specific requirements. Its units are also suitable for various applications, depending on the cargo, points of discharge and destination of cargo.

- ❖ **Mobile portable machines:** In 'suck only', 'suck & blow' or 'blow only' mode, their capacity range is 100–250tph (tonnes per hour). On quay or on vessel, with required accessories, they are very adaptable: vessel to truck, silo to train, vessel to vessel...
- ❖ **Towers and NIV ship unloaders** are designed for a range of 200–600tph for all sizes of vessels. Fixed, on tyres or rails, with electrical or diesel engine, adapted boom length and many options are available (control cabin, radio remote control, winch for bulldozer, etc.).
- ❖ **'SIMPORER' Mechanical ship unloaders** are able to discharge from 600 up to 1,500tph from big vessels (Panamax, Capesize) thanks to the twin-belt technology which is a particularly low energy consumption handling system.
- ❖ **Shiploaders:** which are designed according to the required loading capacity.

Like for unloaders, many parameters are optional, such as fixed/on tyres/on rails, height and width, boom length, loading spout type, dust control system, control cabin, static or

rotating thrower.

Moreover, thanks to highly professional relationships with its business partners specializing in complementary equipment, VIGAN is able to manage complete turnkey projects such as Grain Terminals providing pneumatic and/or mechanical ship unloaders, cranes, conveyors, weighing and bagging stations, storage silos and portable machines, as well as a proven experience to supervise engineering and civil works.

Among recent achievements were made in Pakistan (handling capacity of 1,600tph) and in Djibouti (handling capacity of 1,200tph).

IN HOUSE OWN TECHNOLOGY:

VIGAN focuses on continuous innovation and complete control of its technology such as:

- ❖ VIGAN multi-staged centrifugal TURBO BLOWER is the lung of the machine and 100% designed, manufactured and tested in its factory.
- ❖ VIGAN airlock with special design characteristics is also 100% manufactured by VIGAN.
- ❖ R&D has enabled the reduction of energy consumption to as low as 0.8Kw per unloaded tonne for pneumatic unloader models, while highest efficiency unloading rate of about 80%. The energy consumption of mechanical Simporter is the lowest of all CSUs (continuous ship unloaders) with only 0.4kW/tonne.

VIGAN Engineering is part of Van de Wiele group whose R&D annual budget is around €35 millions.

LATEST COMMISSIONED EQUIPMENT

One 1 NIV 400 on rails and electrical cable reel in the Port of Pyeongtaek in South Korea for unloading grain from big vessels (illustration on previous page) to quay conveying system.

The RWE co-firing plant in Tilbury (United Kingdom) recently replaced two existing ship unloaders (bucket type for coal) by two VIGAN NIV 600 on rails and electrical cable for wood pellets handling.