



ZEKER VAN
KWINT



SINCE 1883

kwintgroep.nl

INTRODUCTION TO KWINT GROUP

KWINT Group is an industry leader in hoisting and lifting equipment characterised by outstanding levels of service performance and reliability in demanding industrial environments.

With over 125 years' experience, KWINT systems are designed to undertake your daily and most challenging hoisting, lifting, lashing and mooring applications.

Based at Groningen and with business operations in Rotterdam and Tilburg, KWINT products and services reflect our commitment to safety and quality. We are certified by multiple agencies and audited annually. In addition to ISO 9001: 2015, KWINT products are VCA compliant for safe operation, and our technicians are Amtek certified. KWINT is also a member of the Lifting Equipment Engineers Association (LEEA). Where necessary our manufacturing process and materials are certified by DNV GL.

KWINT systems are designed to support your business through their ease of use, efficiency and safe operation. Since 1883 KWINT products have been used in many applications in construction and manufacturing, shipping and transportation, as well as offshore support.

Our commitment to quality goes beyond compliance with industry standards. Experience and knowledge based on the design and installation of 100s of hoisting, lifting, lashing and mooring products ensure they 'add value' to your production and business processes.

Today, KWINT systems can be found in many industrial environments. Our philosophy "Quality with KWINT" is backed up by a commitment to customer support that is second to none. With 80 employees, we provide nationwide coverage 24 x 7.

Put your trust in KWINT, you won't be disappointed!





KWINT ROTTERDAM FACILITY

KWINT Rotterdam BV specialises in the design, engineering and manufacture of steel products and systems for hoisting and lifting. These include working baskets, gas cylinder and oxygen cylinder frames, modular system spreader bars, pipe lifters, safe towers and industrial cranes. We also offer custom engineered systems to enhance your operations.

KWINT hoisting and lifting systems provide the reliability needed to ensure your business processes and operations run efficiently. Our design team is able to support you in developing new constructions, as well as customising our products to better contribute to your manufacturing productivity. Custom engineered systems allow for even greater productivity increases. By more closely aligning the application to the specification of the hoisting and lifting system, significant savings in time and cost can be achieved. To assist you we offer services for design and engineering, including structural design, strength calculations, 2D and 3D drawings, together with quality assurance.

We can handle both small and large projects at KWINT Rotterdam. There are excellent facilities for construction works, including one hall with a lifting height up to 12 meters and a floor capacity of 4 mton per square meter. With proper consideration for weight distribution, we can easily handle units up to 50 mton. Located in the Heijlplaat, the KWINT Rotterdam facility has a 95 meter quay, allowing marine vessels to dock and mobilize equipment direct from the factory and with dedicated support services on hand.

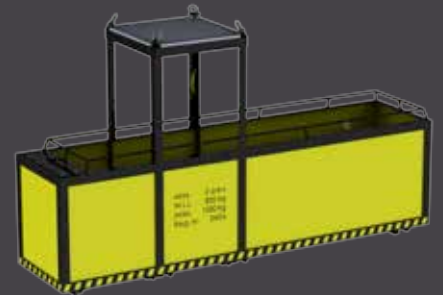
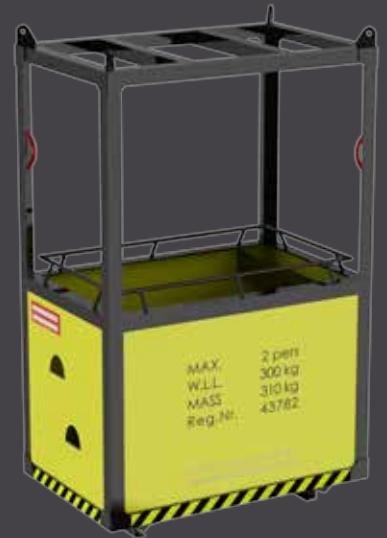
KWINT Rotterdam – hoist and lifting engineered for success



WORKING BASKETS

KWINT working baskets are designed to provide a solid and stable platform when working at heights. They are available in a range of sizes for 1, 2, 3 or 4 persons, as well as, custom-made units. For ease of use, KWINT working baskets offer a number of deployment options. The standard working baskets can be either lifted from the centre or as a "Reacher" with a lifting point in the middle, balanced with a counter weight enabling it to reach under an overhang such as a bridge, for example. As standard, the basket is equipped with toolbox storage, synthetic bumpers and optional rollers (guiding wheels).

KWINT working baskets are built to last and have a strong durable paint finish. Standard in RAL1003, other RAL colours are optional. The baskets are individually tested at 2 mtons where the standard stipulates testing at minimal 800 kg. All baskets are SGS Systems & Services Certification E.E.S.V. approved.



GAS CYLINDER AND OXYGEN CYLINDER FRAMES

Safe handling is critical when lifting and lowering gas cylinders, including oxygen, on board / off board a vessel. KWINT gas cylinder frames offer a safe, secure and efficient method of lifting and lowering gas cylinders.

The frames come in standard sizes for 2, 4, 6, 8 or 12 cylinders (or bottles); custom frames are also available. The cylinders are locked in the frames and secured in position with a restraining bar. For ease of loading / offloading cylinders an optional opening ramp can be fitted to the frame. The frames come with solid eyes on the top for lifting from above, and feature forklift pockets beneath for ease of handling on the vessel and quayside.

Where space or other project considerations prevent dedicated cylinder storage space, the robust construction of KWINT cylinder frames allows it to be used as a cylinder's storage holder during the voyage.



SPREADER BARS, MODULAR SYSTEM

KWINT offers a modular approach to the supply of spreader bars with safe WLL (working load limit) ranging from 10 mtons to 250 mtons. We recognise that the spreader bar is a significant investment and will be used on multiple lifting projects. The ability to use the heads and sections in different configurations is not only a highly efficient use of your KWINT spreader bar, but it also enables a safer lift too.

KWINT modularity allows the initial spreader bar with head sections, to be adapted by using one or more exchangeable components. These include intermediate sections available in a range of lengths: 0,5 meter, 1,0 meter, 2,0 meter and 4,0 meter. All sections can be connected to each other, allowing the spreader bar to be readily configured for the next job. The sections are easily connected with standard nuts and bolts, enabling the total reconfiguration to be accomplished within a few hours.

KWINT spreader bars are precision manufactured at the KWINT Rotterdam facility and easily transported in a standard 20 feet container, or truck. All welding seams are mpi tested and the spreader bar comes with a KWINT Factory certificate.



SAFE TOWER

The KWINT Safe Tower is an innovative solution to the problem of how to safely stack ballast counterweights for truck mounted, mobile cranes without the need for a cherry picker platform. The Safe Tower is a mast mounted on the counterweight frame. It allows the crane driver to safely stack counterweights without fear of falling. The driver wears a safety harness connected to the Safe Tower mast by two prestressed lifelines, combining safety with maximum freedom of movement.

The Safe Tower is available with a hand winch, a hydraulic cylinder with a hand pump or a hydraulic cylinder with an electric pump for ease of deployment.



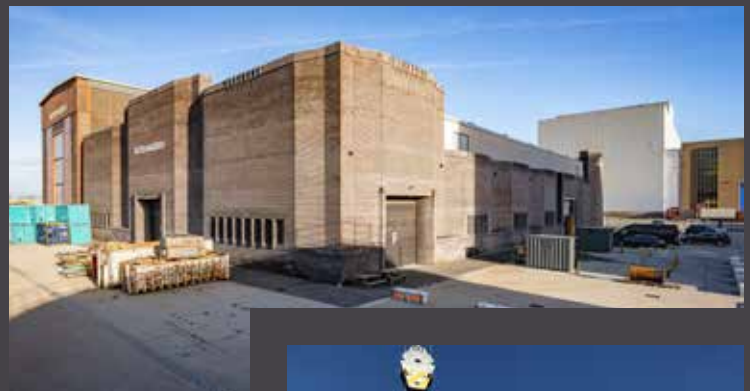


PIPE LIFTING SYSTEM

The KWINT pipe lifting system is a safe method of handling pipe up to 10,000 kg both onshore and offshore. Based on a custom-made spreader bar, it is a hoisting tool that uses hydraulically activated hooks to grip the pipe at both ends during lifting. Pipes can only be lifted horizontally. The pipe lifting system is wirelessly controlled from a safe distance either on the ground or from the crane operator's cabin. Sensors monitor the position of the spreader bar on the pipe and the hooks will only grip when positioned correctly. Other sensors report when the hooks are in the open or locked position.

The electrically-activated sensors and hydraulic hooks are supplied by a battery pack mounted on the pipe lifter frame. The pipe lifter comes with a twin battery set allowing one battery to be charged while the other is operating the pipe lifter.

Locations where the pipe lifters have been deployed have shown an increase in the number of pipes lifted by up to 50% within the working shift and without the need for additional workers on the ground enabling safer and simpler pipe handling.





INDUSTRIAL CRANES

As a specialist in lifting and hoisting systems, KWINT Rotterdam offers a comprehensive selection of industrial cranes. Designed for simple workshop applications to customized structures of communicating crane systems, to entire manufacturing automation implementations, almost anything is possible depending on your needs and ideas.

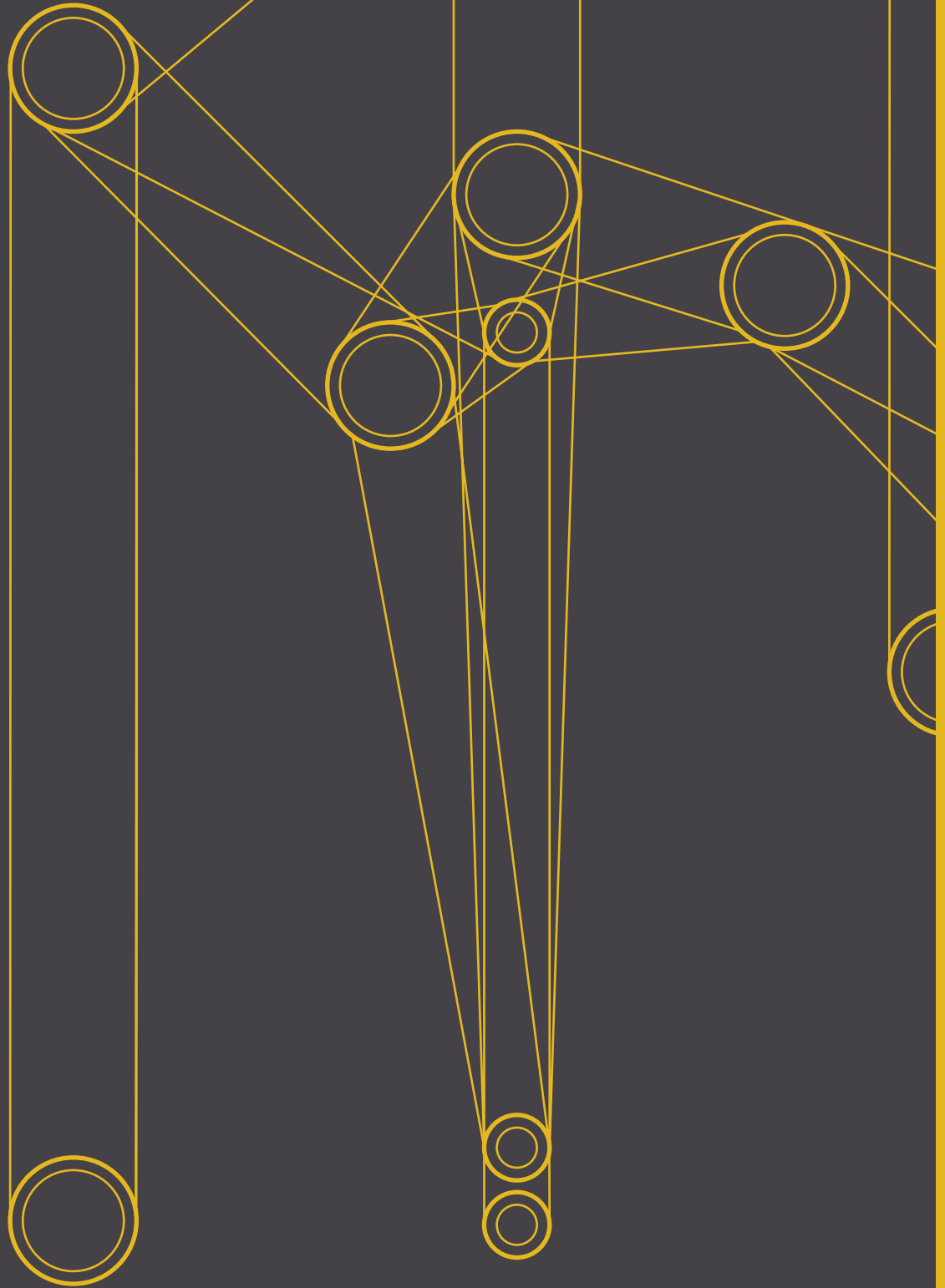
Crane capacities range from 500 kg to 200 mtons working load limit (WLL). Our cranes are custom-made to suit your application. For internal cranes, the precise dimensions of the crane are dictated by the size of building. For external cranes, the span width can be significantly larger and usually has less lifting capacity, typically less than 100 mtons.

KWINT's expertise lies in engineering the crane for optimum construction stiffness.

KWINT Rotterdam cranes include:

- **overhead cranes** - running on a track and often used to move large objects within a factory building. KWINT designs, manufactures and supplies these cranes completely tailored to your application and with the appropriate certification.
- **gantry cranes, part gantry cranes, mobile gantry cranes** - both fixed and portable, the gantry crane is a highly flexible lifting resource for moving loads safely in a factory environment.
- **column cranes** - a fixed installation, the column crane construction means it is ideal for moving very heavy loads and with few moving parts is highly reliable. For greater operational flexibility, the boom can be designed to rotate allowing loads to be moved through an arc. In addition, the boom can be made telescopic for greater reach.

In addition to outstanding service performance, KWINT Rotterdam cranes are the result of many years' experience and knowledge of crane construction and service. They offer low cost-of-ownership through high reliability and low maintenance costs. All cranes are installed using certified personnel and include KWINT quality assurance, certified processes and guaranteed availability of original parts.



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