



ROYAL
WAGENBORG



**OUR SPECIALIZED SERVICES TO
INFRASTRUCTURE**

Wagenborg is your allround partner in the fields of project logistics, transport, lifting, assembly, engineering and project management. A unique range of logistic services dedicated to the infrastructure industry.

DEDICATED TO INFRASTRUCTURE

Royal Wagenborg offers full services in heavy transport and lifting to the infrastructure business. From transport of heavy components by road, inland water or sea up to foundation setting, engineering and thorough project management. Our experienced employees can handle any challenge in transport and lifting. Discover how our services can be a solution for you.

ENGINEERING & PREPARATION



HEAVY LIFTING



HEAVY TRANSPORT



MARITIME SERVICES



ASSEMBLY & INSTALLATION



HSEQ





ENGINEERING & PROJECT MANAGEMENT

Construction of bridges is often a logistic challenge, which involves heavy and oversized components, such as bridge decks. Transporting and foundation setting of these components requires specific expertise. Our experienced project managers and engineers always find the most optimum implementation method, taking account of your operating processes and timeframe. With constant attention to practical and safe implementation. This, combined with a clear communication style and efficient project management, results in a fine project result for you as a customer.

- **Transport & lifting engineering**
- **Route surveys**
- **Lifting studies**
- **3D engineering**
- **Project management**

REFERENCES

- 1. Blauwe Klap - Assen, NL**
Load: balance towers, car bridges, bicycle bridges, balances up to 65 tonnes
Equipment: barge, inland vessel, trailers and mobile cranes up to 500 tonnes
- 2. Green Connection - Rotterdam, NL**
Load: bridge parts of 100x12x10 m and over 700 tonnes
Equipment: 2x shearlegs, 2 x 6-axle SPMTs, 2 sets 2 x 16-axle conventional trailer, 2x500 tonnes mobile crane, 500 tonnes crawler crane
- 3. Akkerwinde bridge - Sneek, NL**
Load: 32x12x16 m deck/wooden arches: 150 tonnes/2 x 300 tonnes
Equipment: 2 sets of 2 x 12-axle lines SPMTs, 4 x 250 tonnes climbing jacks, 6 mobile cranes 200 - 500 tonnes
- 4. Jan Wils bridge - Amsterdam, NL**
Load: 220 tonnes
Equipment: Barge, mobile cranes and jacking equipment
- 5. Kruisvaartbrug - Utrecht, NL**
Load: 23x16 m deck, 45 tonnes
Equipment: Inland barge, 200 and 500 tonnes mobile crane, conventional trailer
- 6. Lock Twentekanaal - Eefde, NL**
Load: 90 tonnes
Equipment: 400 tonnes crawler crane, mobile cranes, locking system, ice-breaker



Photo left: Lock Twentekanaal Eefde, NL

Royal Wagenborg operates a variety of heavy cranes up to 750 tons capacity. All of our cranes are equipped with a luffing fly jib and most of them with superlift attachment, which makes a large range of configurations possible. Of course, all our cranes are operated by skilled and experienced crane operators. We herewith offer you a full package of heavy lift services with modern equipment and a skilled project team.



HEAVY LIFTING

In infrastructure construction projects, heavy and oversized components need to be lifted. Royal Wagenborg is able to carry out such lifting projects safely and well organized. From a simple hoisting job with one hydraulic crane to a complicated project with a range of equipment - Wagenborg guarantees the flexibility and choice in vertical transport you are looking for.

- **Mobile cranes up to 700 tons lifting capacity**
- **Crawler cranes up to 750 tons lifting capacity**
- **300 tonnes sheerleg**
- **Flexible configuration options**
- **Engineering**
- **Project management**

REFERENCES

- 1. Ooievaardersbrug - Schiedam, NL**
Load: 41,45 x 6,25 m and 55 tonnes
Equipment: 200 and 400 tonnes mobile crane, inland vessel
- 2. Behelfsbrücke - Bochum, D**
Load: Bridge: 340 tonnes and temporary bridge: 54 tonnes
Equipment: 750 tonnes crawler crane, 400 tonnes mobile crane, truck
- 3. Voorsterbrug - Zwolle, NL**
Load: 42 beams of 42 x 2 x 1,5 m and 110 tonnes
Equipment: 500 tonnes crawler crane, 90 tonnes mobile crane, 5 x dolly combination
- 4. RORO bridge - Emden, D**
Load: bridge deck 45 x 25 m and 210 tonnes
Equipment: 300 tonnes sheerleg, barge
- 5. Friesenbrücke - Weener, D**
Load: bridge 25 meters and 130 tonnes
Equipment: 300 tonnes sheerleg, tug, pontoon
- 6. Leeghwaterbrug - Alkmaar, NL**
Load: 20 x 14,7 x 1 m deck and 94 tonnes
Equipment: 500 and 700 tonnes mobile crane



Photo left: Behelfsbrücke - Bochum, D

Extensive practical experience of our skilled engineers and project managers, combined with our state-of-the-art transport equipment, enables us to develop the best transport solutions for you. This often includes performing detailed route surveys to identify any possible bottlenecks along the way and countering these with safe and effective solutions. And then our transport specialists can start...



HEAVY TRANSPORT

In the infrastructure industry heavy components, prefabricated modules and structural elements are being constructed at large scales. Royal Wagenborg is able to take care of transporting these heavy units with our modular trailers. Our transport specialists take care of project preparation, engineering, project management and realization.

- **Modular trailers**
- **100 tons boiler bridge**
- **SPMTs (Self Propelled Modular Trailers)**

REFERENCES

- 1. Blalobrug - Zwolle, NL**
Load: 51x7,5x7 m, 100 tonnes
Equipment: 2 x 6-axle SPMT, 2 x 200 tonnes mobile cranes
- 2. Railway bridge - Gevelsberg, D**
Load: 2 bridge parts 12x5,2 m and 145 tonnes
Equipment: 6-axle SPMT 4-file, 200 and 250 tonnes mobile cranes, support construction and jacking equipment
- 3. Kruisvaartbrug - Utrecht, NL**
Load: bridge deck 23x14 m and 45 tonnes
Equipment: Inland barge, 200 and 500 tonnes mobile crane, conventional trailer
- 4. Railway viaduct - Vught, NL**
Load: 2.300 tonnes concrete part
Equipment: 96-axle SPMT's
- 5. Railway bridge - Viersen, D**
Load: 2 concrete decks 940 tonnes and 960 tonnes
Equipment: 2 x 40 axle lines SPMT, support structure, 4 x 500 tonnes jacking equipment, 900 m2 steel plates
- 6. Railway bridge - Naumburg, D**
Load: 73,6 x 18 x 9,5 m and 800 tonnes
Equipment: CC 3800 crawler crane, 48-axle SPMT's, 4 modular steel layers, supporting constructions

Photo left: Kruisvaartbrug - Utrecht, NL





MARITIME SERVICES

Wagenborg specializes in transport by water. With our experienced people, we have an answer for every maritime logistics challenge. With our tugs up to 71 ton BP, pontoons with a deadweight of 20,000 DWT, a 300 tonnes sheerleg and multipurpose dry cargo vessel in a range from 2.000 - 23.000 DWT we have acquired an excellent international reputation in special transports, such as bridge components.

- 170 multipurpose vessels
- 1.700 - 23.000 DWT
- Ice classed vessels
- Geared - non geared vessels
- 11 pontoons (inland and seagoing)
- 660 - 20.000 DWT
- Tugs up to 71 tonnes BP
- 300 tonnes sheerleg

REFERENCES

- 1. Friesenbrücke - Weener, D**
Load: 25 m and 130 tonnes
Equipment: 300 tonnes sheerleg, tug, pontoon
- 2. Hilter Schleusen-Brücke, D**
Load: 2 x 43 m in length and 100 tonnes
Equipment: 300 tonnes sheerleg, pontoon and mobile crane
- 3. Swing bridge, Simpson Bay - Sint Maarten, SX**
Load: 450 tonnes
Equipment: Sheerlegs, seagoing vessel, skidding and jacking equipment
- 4. Bokfjord bridge, Kirkenes, N**
Load: 120 x 13,8 x 19,6 m, 760 tonnes
Equipment: 48-axle SPMT's, pontoon, seagoing tug, jacking equipment, modular tower supports
- 5. Dalsfjord bridge - Dale, N**
Load: 11 bridge parts, total 2.500 tonnes
Equipment: Pontoon, tug
- 6. Centrale As - Burgum, NL**
Load: 2 bridge parts: 200 tonnes and 260 tonnes
Equipment: 300 tonnes sheerleg and tug

Photo left: Bokfjord bridge - Kirkenes, N





ASSEMBLY & INSTALLATION

In addition to the heavy transport and lifting work, Royal Wagenborg has several pieces of equipment for handling, offloading and positioning of heavy components. Especially with loads weighing several hundreds of tons, it is essential to have an absolute guarantee concerning weight and center of gravity. Wagenborg's electronic weighing systems is exactly designed for this purpose. Our lifting gantry systems, jacking systems and skidding systems are ideally suited for maneuvering heavy components in narrow places.

- **Jacking system**
- **Weighing system**
- **Skidding system**
- **500 tonnes hydraulic lifting gantry**

REFERENCES

1. **Railway bridge - Bremervörde, D**
Load: 53 x 7,9 x 6,5, 280 tonnes
Equipment: LR1400 crawler crane, skidding and jacking equipment, supporting cranes (mobile cranes)
2. **Akkerwinde bridge - Sneek, NL**
Load: 32x12x16 m. Deck / wooden arches: 150 tonnes/2x300 tonnes
Equipment: 2 sets of 2x12-axle lines SPMTs, 4x250 tonnes climbing jacks, 6 mobile cranes 200 - 500 tonnes
3. **Lage Erfbrug - Rotterdam, NL**
Load: 2 x deck 125 tonnes
Equipment: Barge, inland vessel, 500 and 650 tonnes mobile crane
4. **Jan Schaefer brug - Amsterdam, NL**
Load: 2 x 200 tonnes bridge part
Equipment: Pontoon, tugs
5. **Catharinabrug - Leiden, NL**
Load: bridge foundations 7 tonnes
Equipment: 80 tonnes mobile crane
6. **Green Connection - Rotterdam, NL**
Load: bridge parts of 100x12x10 m and over 700 tonnes
Equipment: 2x shearlegs, 2 x 6-axle SPMT, 2 sets 2 x 16-axle conventional trailer, 2 x 500 tonnes mobile crane, 500 tonnes crawler crane

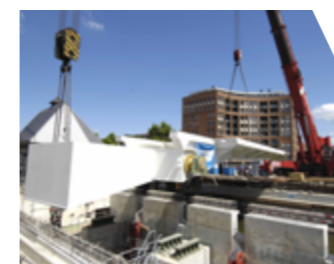


Photo left: Akkerwinde brug - Sneek, NL

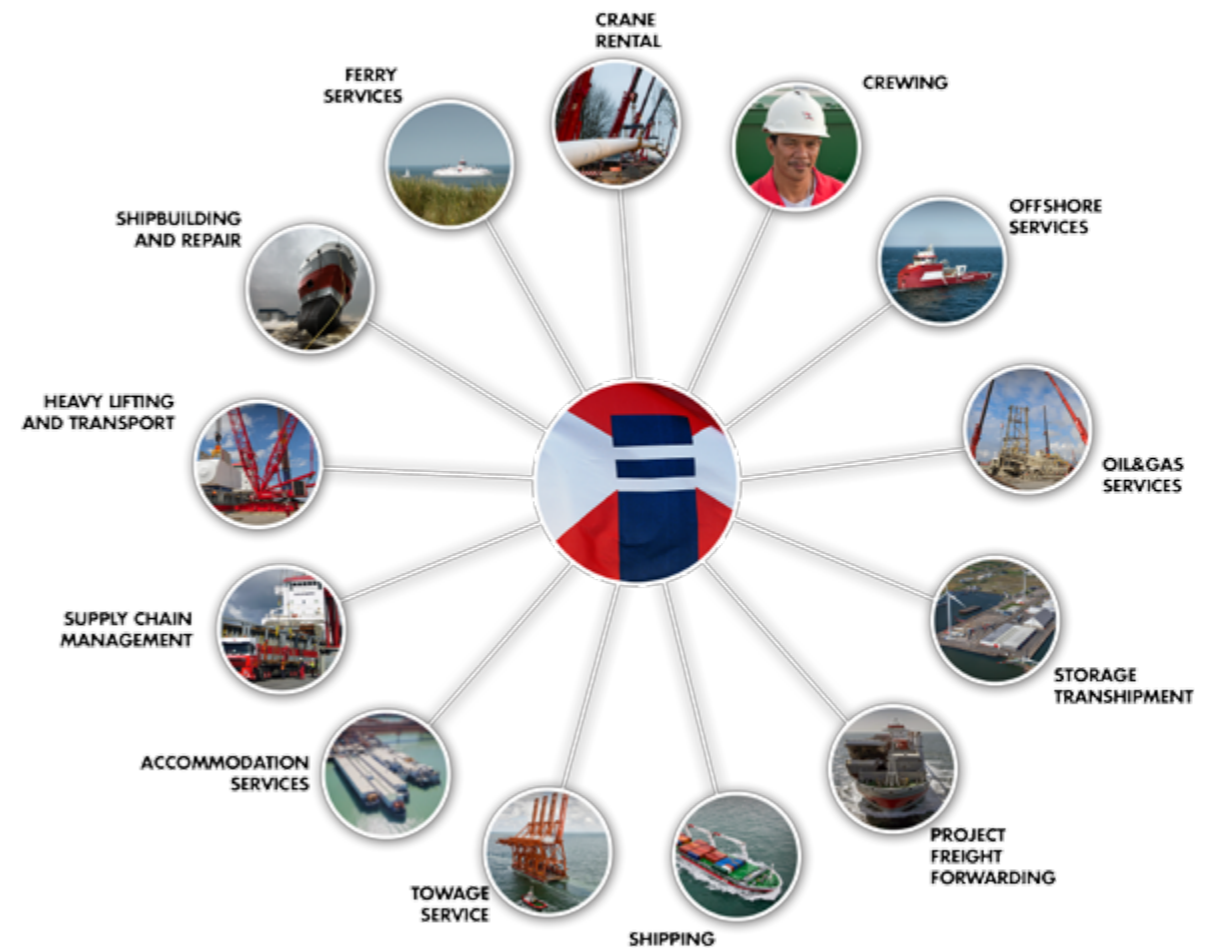
Wagenborg is all about people. After all, our employees come up with and realize the solutions for your heavy transport and lifting challenges. This often takes place in changing and challenging circumstances. That's why we take care to provide for good and safe work conditions, only send our employees out with certified equipment and deal in a responsible manner with work related risks during all our activities.

We pursue an active policy to prevent accidents and absence by stimulating awareness about safety and safe behavior. We pay a lot of attention to the education and training of our employees. Our people perform their duties in an adequate and safe manner.

ROYAL WAGENBORG & HSEQ

As one of the oldest and largest logistic companies in the Netherlands, Royal Wagenborg has always been a pioneer and today, the company continues to be at the forefront of developments. Wagenborg undoubtedly forges its own path, offering a unique range of logistic services dedicated to the power industry. Wagenborg was established in 1898 and employs 3,000 people. As a family owned and managed company we consider family values and social responsibility to our employees, customers, environment and other stakeholders important and do not compromise on this subject.

- ISO 9001 certified
- ISO 14001 certified
- VCA-P certified
- AEO certified
- OHSAS 18001 certified
- VVT
- FPAL





sign of solutions

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