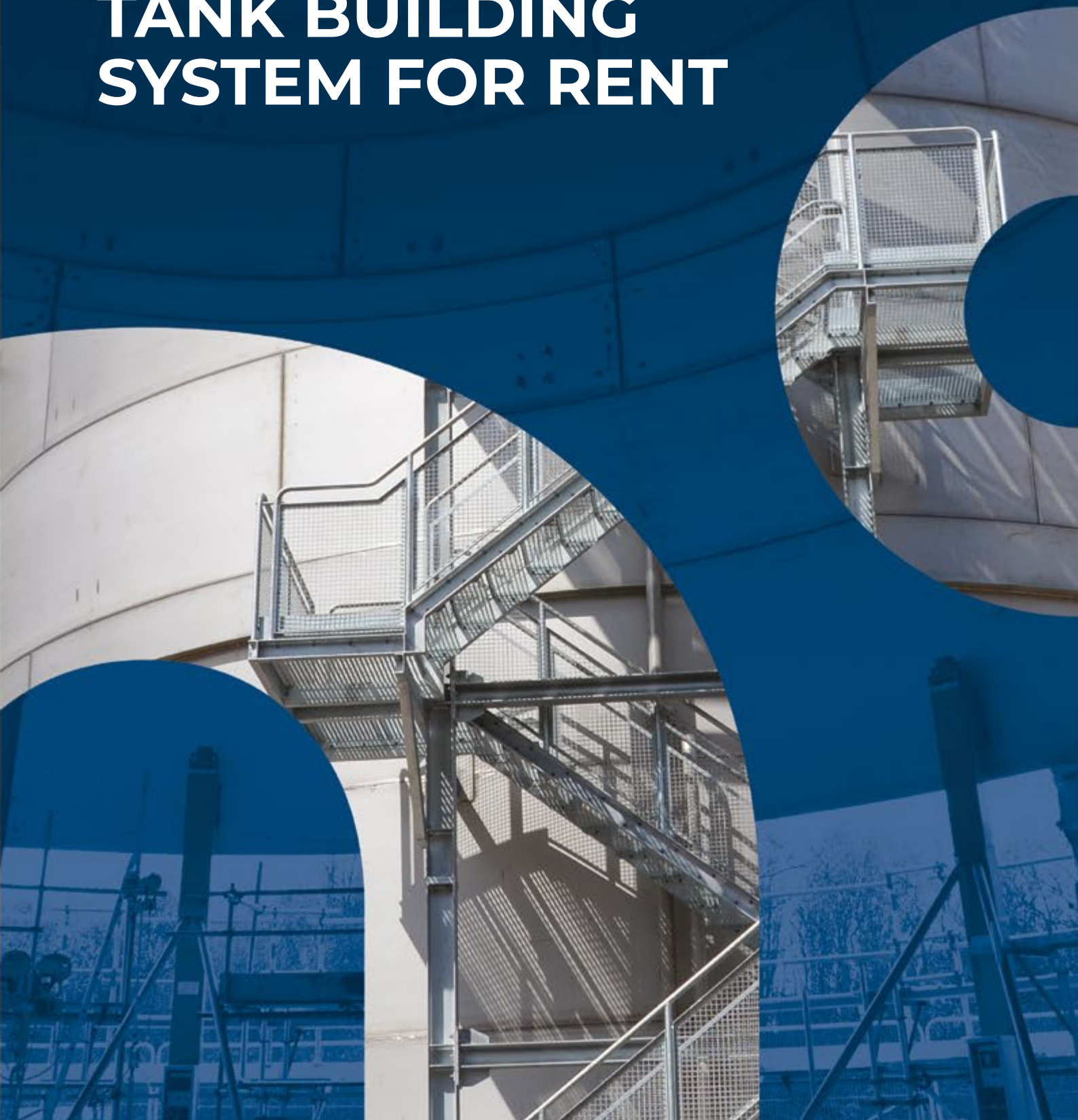


n°rdweld®

**AN INNOVATIVE
TANK BUILDING
SYSTEM FOR RENT**



ABOUT OUR TECHNOLOGY

Nordweld's Automated Tank Building System uses the "Top-Down" method of construction. All shell plates are loaded and fed individually from one location and then rotated around the tank's periphery. The system consists of 15 ton electro-mechanical Lift Jacks, Roller Beds, Trolley (optional), Tank Rotators, a Welding Station and a Tac weld / welding stand. As the tank is being constructed, it is continually rotated, with all shell joints welded, as well as the attachment of any required nozzles. The system utilizes a mechanised welding processes, designed and refined over many years of continual research and development.

Main advantages of Nordweld Tank Building System:

- All parts of the system are made of high quality materials. They meet all necessary international safety requirements and are designed to work in tough environmental conditions.
- Fast delivery and simple transport logistics directly to any global location in a 20ft High Cube shipping container.
- Can be used regardless of the tank base material.
- High efficiency - 50% reduced working time when compared to traditional tank building methods.
- High Cost reduction – no onsite crane required and scaffolding costs eliminated.
- All work is done from one location at ground level and can be performed in limited workspaces.
- High accuracy of all tank specifications maintained at every stage during the building process.
- Different mechanized welding methods can be used – MIG/MAG, PAW, GTAW, SAW.
- The Nordweld system simplifies modern tank production and enhances end results.



COMPONENTS

The system consists of 15 ton electro-mechanical Lift Jacks, Roller Beds, Trolley (optional), Tank Rotators, a Welding Station and a Tac weld / welding stand.

Lift Jack

Lift Jacks are used to erect tanks of larger diameter when building in a top-down method. Our Electro-Mechanical jacks have a lift height of 2600mm. The supplied lift jack is CE marked and tested with a 25 ton dynamic load.

Can be equipped with a wheel trolley designed to build tanks from coil.



Tack weld stand

The stand is equipped with a track which enables a totally autonomous mechanized welding process of both the vertical and horizontal weld seams. It is also possible to use this device to fillet weld required stiffening rings to the outer shell. It can be used with all common industrial welding methods designated by the customer.



Tank rotator

Our specially designed continuous Tank Rotator system, unique within the tank building industry, ensures fast and efficient building process. The rotator operates directly from the main base platform in a continuous motion allowing feeding of the material and welding to be carried out safely.



Welding station

The welding station is built from the supplied scaffolding components and is covered with a top and side panel curtain. It protects both the operator and the welding equipment from hazardous weather conditions, when work is being performed on the exterior of the tank.



COMPONENTS

Roller bed

The roller bed supports the tank during erection, and allows the tank to be rotated.

Scaffolding brackets can also be attached to any interior or exterior working platforms.

Maximum load: 5 tons.



Container

The equipment is delivered in a 20ft HC transport container. The equipment is placed in specially designed interior racks, which makes the transport and delivery very cost-efficient, and also ensures the customer receives the system ready to work.

For quick and safe handling of the equipment onsite, the transport rack can be pulled directly out of the container ensuring faster loading and unloading times.



TANK ERECTION



REALISATIONS

UK

WHITE WATER SILO 5000 M³

In 2017 our equipment was used for a project in the UK.

The silo was 16.3m in dia., 25m in height and with a total weight of 89 metric tons.

Base material: Duplex stainless steel 1.4462 and austenitic stainless steel 1.4404.

Welding method: Mechanized MIG/MAG (solid wire and FCW)

Our standard system was used, i.e. built on a roller bed using lift jacks, tank rotators, tack weld stand and our mechanized system for welding of circumferential and vertical joints, and for the welding of stiffening rings.

Stairs and platforms were delivered by our business partner - TLC.



STORAGE TANKS FOR JUICE

Brazil

Since 2017 we are helping to erect steel storage tanks throughout Brazil. The tanks are predestined to store orange juice – one of the main export goods of Brazil. Those built with our system vary in size, but the most common are over 28m high, 18-21m in diameter, and 200 metric tons of weight.

Base Material: Duplex stainless steel LDX 1.4162

Welding method: Plasma (PAW), TIG

Steel storage tanks are being built with material either fed from the coil or using prefabricated steel sheets. By using lift jacks equipped with Wheel Trolley's there is no need of welding lifting beams to the shell. Internal surface of tanks are grinded and polished to a maximum of Ra 0.8.



OUR QUALITIES

We are focused on **delivering high-quality** product that not only meet the requirements of our clients but also go beyond current trends. We never cease to search for **new inspirations and solutions**. We **understand the value of time** and money, therefore we provide a complete product that does not require any additional equipment like cranes or scaffoldings. **Trustworthy technology, and safe and reliable equipment** are a guarantee of our clients' satisfaction and trust which is our top priority.



**Innovation
& Experience**



**Mutual Respect
& Customer Satisfaction**



**Constant Growth
& New Solutions**



Nordweld in numbers

25+

years of experience within the tank building sector

1

20 ft container includes enough components to erect 18 meters in diameter / 200 tons tank

50%

even that much money and time can be saved in comparison to traditional construction method

700

tons and 50 meters in diameter is the maximum size of a tank that can be built with our system



WE WORK ALL OVER THE WORLD



n°rdweld.

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