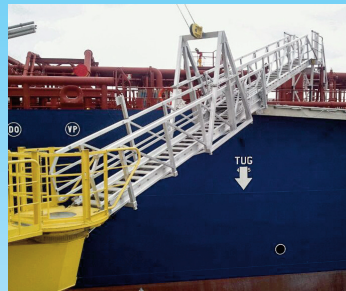


# Access Gangway Systems For safe access between ship and shore

We design, produce and deliver sophisticated Gangway Systems, which are easy to change according to customer demands. These systems are used to give personal and crew access to ship and shore. The access gangway can be fully automatic in standard execution or tailor-made to meet your requirements. Our systems are following the ships movements due to tide, loading and unloading, surge and sway and heave motions.

## We are able to integrate and deliver:

- Access Towers
- Telescopic gangways with self-levelling steps
- Electric or Hydraulic Cranes
- Fire fighting equipment
- Control cabins
- In explosion-proof execution (Ex)
- (Ex) radiographic remote control systems
- Working conditions from tropical to artic.
- Hosetower

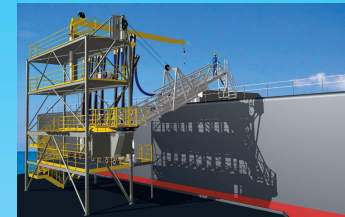


## Main Design Types:

**Column also called Tubular Type:** It can be a large tube with inside weather protected staircase or a small tubular type with outside staircase or spiral stairs.

**Structural Tower Type:** With a telescopic gangway ladder either at fixed height or moving along the tower by means of an elevator platform. The Structural Tower Elevator type can cover the largest operating envelopes from barges till ULCC.

**Riding Gangway Type:** A steel structure with a gangway riding along guide rails, driven or non driven and most of the time manoeuvred on and from the ship by a small dedicated crane.

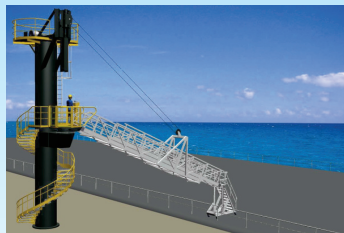


**BUITENDIJK TECHNIJK** is well experienced in explosion proof installations build according National, European (Cenelec/ATEX) and American (NEC / UL-codes) standards and thus will be able to deliver equipment for off-shore, ships and petro-chemical plants, where above mentioned standards are required. Also our Ex equipment can be delivered with Ex radiographic remote control or the required classification.

**Complete installations** can be tested on our own test facility, so factory test, inspection and full acceptance test can be done on our site prior to shipping under survey of any well known survey company (Bureau Veritas, Lloyd's register, American Bureau of Shipping, Det Norske Veritas etc.)

We also provide comprehensive, customer support including spare parts, servicing, installation, commissioning, repair and rebuild, preventive maintenance, retrofits and upgrades.

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## BUITENDIJK TECHNIJK



• SHF Cranes • Access Gangway Systems • Multi Product Hosetowers • Mechanical Engineering

Maxwellstraat 63, 3316GP Dordrecht • P.O. Box 8016 • 3301CA Dordrecht, The Netherlands • Phone +(31)78-7440000 • Email: info@buitendijk.nl • www.buitendijk.nl



# SHF - Cranes

## Designed and built according customer requirements

**BUITENDIJK TECHNIEK** is able to design, build and deliver a wide range of cranes in accordance with the most modern principles, for any application and any type of ship; jetty or hose tower also in combination with a gangway tower.

Our Cranes are used on Seagoing Ships, Ships for Inland Waterways, Dredgers, For On-and Off-Shore Use, Hose Handling on Ships or on Jetties.

Our cranes can be fixed pedestal type or travelling cranes, rack and pinion driven

They can be driven by Hydraulics or can be completely Electrical Driven and controlled according the latest technical developments.

Operation: fixed control panel and/or radio graphic remote control and/or integrated operator cabins



We also provide comprehensive, customer support including spare parts, servicing, installation, commissioning, repair and rebuild, preventive maintenance, retrofits and upgrades.



### Buitendijk Techniek

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### Complete installations

can be tested on our own test facility, so factory test, inspection and full acceptance test can be done on our site prior to shipping under survey of any well known survey company (Bureau Veritas, Lloyd's register, American Bureau of Shipping, Det Norske Veritas etc.)

### Main Design Types:

- Slewing Jib crane with movable trolley
- Luffing boom cranes, driven by cylinder or winch
- Knuckle boom cranes



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# Hose Loading Arms & Multi Product Hose Towers

## The economic alternative for loading arms

### What is a Hose Loading Arm:

A hose loading arm system consist of single swivel/composite hose combination fitted on single baseframe with winch or as multiple units installed on a steel tower structure becoming a so called hose tower.

The hose is manoeuvred by lowering-lifting the main boom with hose by means of a winch system. The sliding beam with winch and/or the knuckle boom crane can additionally be used to bring the hose flange into the right position towards the ships manifold.

### Main Characteristics:

- Hose Loading arms require less space on the jetty deck, so you can install more units at the same area
- You can load and unload different products at the same time



### Design Construction and Installation of hose loading arms and Hosetowers:

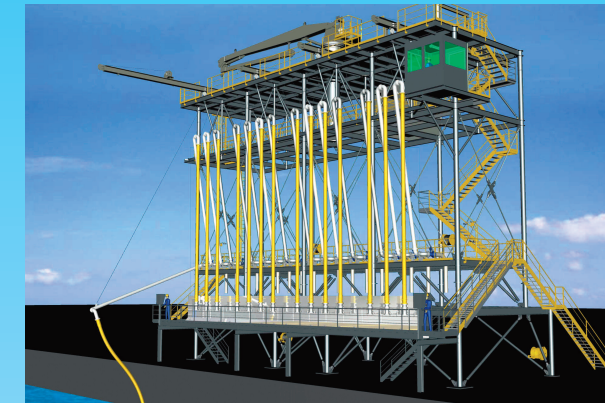
- All our products are custom designed and custom build based on customer's requirements.
- As a system integrator we are able to design, deliver and install the complete Hose Tower System as a Turn-Key Project (EPC)

### Hosetowers general:

- Diameters 3" to 12"
- Pressures classes; 150#; 300#, PN16/PN 40
- Arms made off carbon steel or stainless steel
- Hose: composite PTFE lined rubber
- Connection: flanged ANSI/DIN
- Swivel joint seals: PTFE, Viton or EPDM
- Winches; hydraulic, pneumatic or Electrical driven
- Emergency break away couplers
- Quick connect and Quick Disconnect systems (QC/DC)
- Sliding beams
- Knuckle boom crane
- Operation: fixed control panel and or radio graphic remote control. and/or operator cabins
- Control system integrated with other systems on the jetty
- Tower structure combined with access gangway systems
- Explosion proof according ATEX, IECEx or NEC
- Working conditions form tropical to artic



We also provide comprehensive, customer support including spare parts, servicing, installation, commissioning, repair and rebuild, preventive maintenance, retrofits and upgrades.



### Main Benefits:

- Compact
- You can load and unload different products at the same time
- High Output
- The vessel needs less time in port so a better occupancy of the vessel and jetty
- Reliability
- Safety
- Easy to use
- Lower price
- Requires less maintenance

