



# Leading in Loading Technology



# Dutch Quality

An aerial photograph of a city harbor at sunset. The sky is a mix of orange, red, and blue. The water is dark, reflecting the city lights. In the foreground, there are several tall buildings along the waterfront, some with lights on. In the background, there are more buildings and a large ship docked at a pier. A white text box is overlaid on the left side of the image, containing the text 'Dutch Quality' and 'Details and Team work'.

## Details and Team work

To exist more than 63 years as a company it is obligatory to deliver the best quality.

To continue delivering the best quality all our competent & dedicated employees have to work together and use the best materials and equipment for all processes like a smooth running machine.

Luckily we are located in an area and country where we can find the best possible resources. In order to secure the quality everything we do is checked via a four eyes principle and supported by 24/7 services.

# Our strengths

JLA believes in customized solutions backed with 24-7 services all year through aimed to minimize customers' expense and improve operator ergonomics.

This results in a wide product range, all developed, built and tested in-house by JLA. Hence, we believe in our quality and offer 10 year guarantee on our products.

**10 year guarantee**

**Zero Emission products**

**Wide product range**

**Minimal CAPEX & OPEX**

**24/7 call out service**

**Operator friendly solutions**

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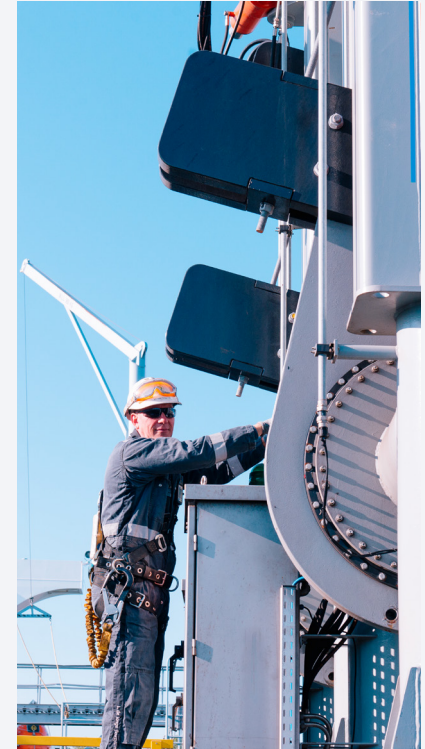
## LNG

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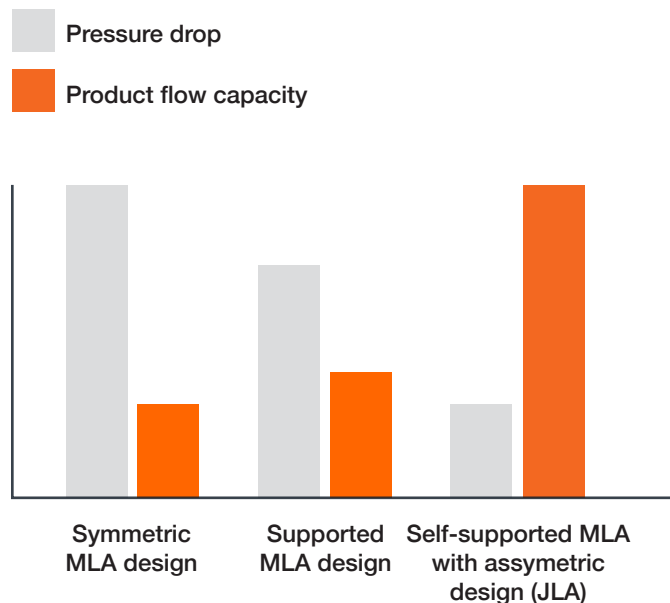
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# Why choose JLA

JLA was founded from a maintenance and operational perspective following on the request of our customers to improve existing loading equipment. In more than 35 years of experience in maintenance and servicing all brands and types of loading arms we created a new standard together with our customers. We differentiate ourselves by not only delivering high end products but a customer solution. This results in minimal costs and investments. The JLA Marine Loading Arms are designed with minimal CAPEX and OPEX. All supported by the largest 24/7 service crew in the world.

## Minimal Capex & Opex



### Maximum product flow with minimum pressure drop

#### **Self supported design**

Product line is strong enough to carry its own loads and moments

#### **Asymmetric design**

Loading arm with single inboard and single outboard with as result a minimum of 6 swivel joints.

#### **Maximum product flow capacity**

JLA loading arms allow you to maximize your product flow at minimal costs.

#### **Minimal pressure drop**

Saves significant in energy consumption for loading pump.



## **Minimal and easy maintenance**

### **Cable free design**

With rigid balancing link there is no need to lubricate or replace the cables and there is no risk of breaking of cables. Furthermore balancing cables might be regarded as lifting cables in the future requiring annual inspections.

### **Self – support**

Allows visibility on all the welds on the product pipe, because there is now supporting structure around it.

### **Zero emission**

JLA swivel joint are vacuum resistant and therefore reduced leakages close to zero.

### **Replaceable ball races**

Easy to replace ball races without need to cutoff entire male swivel joint part.

### **Fully hardened ball races**

The JLA replaceable ball races do not touch the product in the pipe, therefore they can be made of fully hardened steel which minimises the wear and tear.

### **Easy maintenance**

All equipment and parts are designed to conduct easy maintenance.

# Operator Friendly



## Easy connection

### **Two phase safety connection**

JLA allows to reconnect within seconds when MLA appears to be still under pressure or full with product.

### **Not a single wrench required**

JLA QC/DC's can be operated by hand or from radio remote control, without the need for any wrench or other tools.

### **Quick and easy ship connection**

Connection to the ship within seconds with minimal efforts.



## Easy visualisation

### **Easy to understand**

People are visually oriented, so is JLA.

### **Ergonomical design stormlock**

Designed to use minimal efforts.

### **Operator friendly visualisation**

All instructions are given with simple pictures.

# Sustainable and robust



## Environmental friendly

### **Low environmental footprint**

JLA recognizes the need to minimize the environmental footprint

### **Zero emission**

Environmental friendly



## Robust quality

### **Tested and certified**

JLA tests and certifies its equipment above market standards, witnessed by third parties

### **10 year guarantee**

JLA believes in her quality and guarantees it.

### **Long life time**

Designed for long life times

# EcoPro Marine Loading Arm

Available in diameters ranging from 4" up to 8".  
Suitable for all liquids between -50 and +200°C.

## Key info

The EcoPro  
is manually operated.

## Key features

- Cable free design with adjustable balancing link
- Self supported, lightweight design
- Only six swivel joints required
- Minimum pressure drop
- Vacuum resistant block seals
- Zero emission
- Operator friendly locking system
- Modular design suitable for container shipment
- 10 year guarantee

## Technical Details

- Manually operated
- Completely balanced, in empty or full condition
- 4" up to 8"
- - 50 °C / + 200 °C
- Suitable for all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in all materials, e.g.: Carbon Steel, Stainless Steel and Stainless Steel 316Ti

## Design standards

- OCIMF '99
- TA Löff VDI 2440
- CE (PED & ATEX)

## Transportation methods

- Modular Design for containerized transport
- Fully assembled by truck
- Fully assembled by ship



# HydroTec Marine Loading Arms

Available in diameters ranging from 6" to 20".  
Suitable for all liquids & gasses between -50°C and +200°C.

## Key features

- Cable free design with adjustable balancing link
- Fully hardened replaceable cartridge swivel ball races
- Support jack bended towards ship manifold
- Vacuum resistant block seals with zero emission
- Self supported, lightweight design
- Only six swivel joints required
- Minimum pressure drop
- Operator friendly locking system
- Modular design suitable for container shipment
- 10 year guarantee

## Technical Details

- Hydraulically operated
- Dedicated hydraulic solenoid valves for each Marine Loading Arm
- Completely balanced, in empty or full condition
- 6" up to 20"
- - 50 °C / + 200 °C
- Suitable for all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in all materials, e.g.: Carbon Steel, Stainless Steel and Stainless Steel 316Ti

## Design standards

- OCIMF '99
- TA Lütt VDI 2440
- CE (PED & ATEX)

## Transportation methods

- Modular Design for containerized transport
- Fully assembled by truck
- Fully assembled by ship

### Key info

The HydroTec is hydraulically operated.



# CryoTec Marine Loading Arms

Available in diameters ranging from 6" up to 20".  
Suitable for all liquids and gasses between -196°C and + 200°C.

## Key info

Specifically designed  
for Cryogenic  
applications.

## Key features

- Hydraulic operation with smart hydraulic mechanism
- Cable free design with adjustable balancing link
- Supported structure
- Only six swivel joints required with minimal jetty loads.
- Cartridge type swivel joints
- Nitrogen dried swivel joints
- Double Ultra High Molecular weight PE Seal
- Static back-up seal
- Modular design suitable for container shipment
- 10 year guarantee

## Technical Details

- Hydraulically operated
- Dedicated hydraulic solenoid valves for each Marine Loading Arm
- Completely balanced
- 6" up to 20"
- - 196 °C / + 200 °C
- Suitable for all (petro-) chemicals, liquids and gases. Especially cryogenic applications
- 150# and 300#
- Available in all Stainless Steel and Stainless Steel 316Ti.

## Design standards

- EN 1474
- ISO 16904:2013
- OCIMF '99
- CE (PED and ATEX)

## Transportation methods

- Modular Design for containerized transport
- Fully assembled by truck
- Fully assembled by ship



# GasTec Marine Loading Arms

Available in diameters ranging from 6" up to 20".  
Suitable for all liquids and gasses between -196°C and +200°C.

## Key features

- Cable free design with adjustable balancing link
- Fully hardened replaceable cartridge swivel ball races
- Support jack bended towards ship manifold
- Provided with pressure relieve system
- Vacuum resistant block seals
- Hydraulic operation
- Supported design with single product pipe
- Only six swivel joints required with minimal jetty loads.
- Minimum pressure drop
- Zero emission
- 10 year guarantee

## Technical Details

- Hydraulically operated
- Dedicated hydraulic solenoid valves for each Marine Loading Arm
- Completely balanced, in empty or full condition
- 6" up to 20"
- - 50 °C / + 200 °C
- Suitable for all (petro-) chemicals, liquids and gases.
- up to 900#
- Available in all materials, e.g.: Carbon Steel, Stainless Steel and Stainless Steel 316Ti

## Design standards

- OCIMF '99
- CE (PED and ATEX)

## Transportation methods

- Modular Design for containerized transport
- Fully assembled by truck
- Fully assembled by ship







# Single Hose Loading Arm

The Single Hose Loading Arm is an alternative for hoses or marine loading arms. Suitable for all liquids and gasses between -50 and +200°C. Available in 3" up to 10".

## Key features

- Single product pipe with a hose connection to the ship
- Two swivel joints, vacuum resistant & Zero Emission
- No counterweight
- Minimum space on the jetty
- Easy operation and easy maintenance
- 10 year guarantee

## Technical Details

- Hydraulically, electrically or pneumatically operated
- Actuated by cylinders or winch
- 3" up to 10"
- - 50 °C / + 200 °C
- Suitable for almost all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in all materials, e.g.: Carbon Steel, Stainless Steel and Stainless Steel 316Ti and composite



# Knuckle Type Hose Loading Arm

The Knuckle Type Hose Loading Arm improves the operator ergonomics. It can be connected to the ship without a crane. Available in 3" up to 10".

## Key features

- Primary and secondary rigid arm, with hose connection
- Three swivel joints, vacuum resistant & Zero Emission
- No counterweight
- Minimum space on the jetty
- Improved operator ergonomics
- Minimized bending moment on the hose
- 10 year guarantee
- No crane required

## Technical Details

- Hydraulically, electrically or pneumatically operated
- Actuated by cylinders or winch
- 3" up to 10"
- - 50 °C / + 200 °C
- Suitable for almost all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in all materials, e.g.: Carbon Steel, Stainless Steel and Stainless Steel 316Ti and composite



# CryoTec Hose Loading Arm

The CryoTec Hose Loading Arm is specifically designed for Cryogenic applications, e.g.: Ethylene and LNG. Excellent for loading or unloading LNG Bunker Vessels at temperatures down to  $-196^{\circ}\text{C}$ .

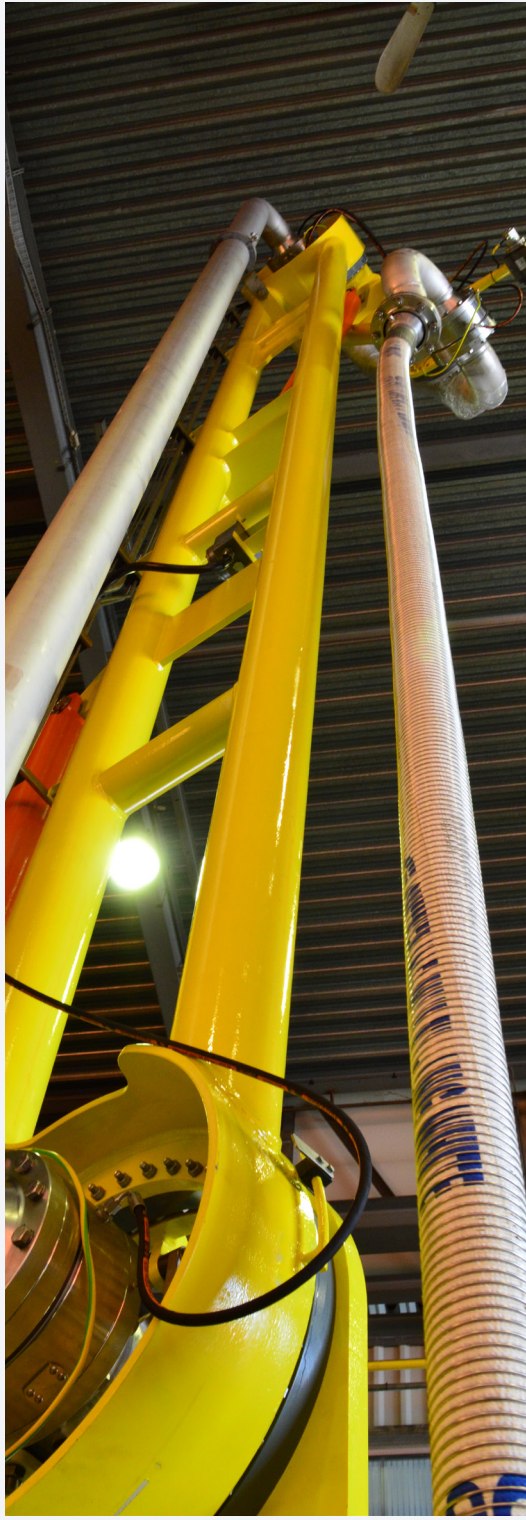
## Key features

- Primary and secondary rigid arm, with hose connection
- Supported structure to accommodate temperature variations
- No counterweight
- Minimum space on the jetty
- Improved operator ergonomics
- Minimized bending moment on the hose
- Minimum of three swivel joints
- Cartridge type swivel joints
- Nitrogen dried swivel joints
- Double Ultra High Molecular weight PE Seal
- Static back-up seal
- 10 year guarantee
- No crane required

## Technical Details

- Hydraulically, electrically or pneumatically operated
- Actuated by cylinders or winch
- 3" up to 10"
- $-196^{\circ}\text{C}$  /  $+200^{\circ}\text{C}$
- Especially for cryogenic applications
- 150# and 300#
- Available in stainless steel





# Conventional Hose Tower

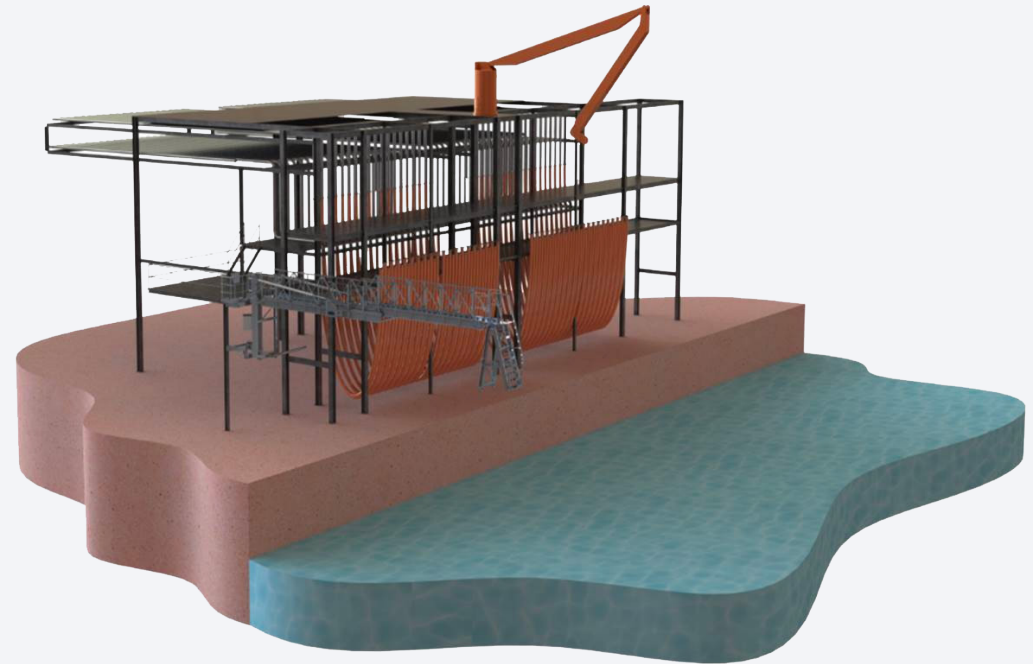
Conventional Hose Towers are used in areas where you have minimal difference in tides. Hoses are manipulated via its crane on the top deck.

## Key features

- Multiple product line connections
- Cross over connections
- Simultaneous dual ship loading
- No hoses on jetty

## Technical Details

- Hydraulically, electrically or pneumatically operated
- Actuated by winches
- 3" up to 10"
- -50°C / + 200°C
- Suitable for all (petro-) chemicals, liquids and gasses
- Up to 300#
- Available in all hose materials



# Hybrid Hose Tower

This Hybrid Hose Tower is a better solution than a conventional Hose Tower for areas with big tide difference and more economical than the Knuckle Type Hose Tower. In this case you would always need a on top crane to connect the hoses. Which takes more time to connect.

## Key features

- Single product pipe with a hose connection to the ship
- No counterweight
- Minimum space on the jetty
- Easy operation
- Easy maintenance
- Minimum of two swivel joints
- Vacuum resistant swivel joints
- Zero emission swivel joints
- 10 year guarantee

## Technical Details

- Hydraulically, electrically or pneumatically operated
- Actuated by cylinders or winch
- 3" up to 10"
- - 50 °C / + 200 °C
- Suitable for almost all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in all materials, e.g.: Carbon Steel, Stainless Steel and Stainless Steel 316Ti and composite



# Knuckle Type Hose Tower

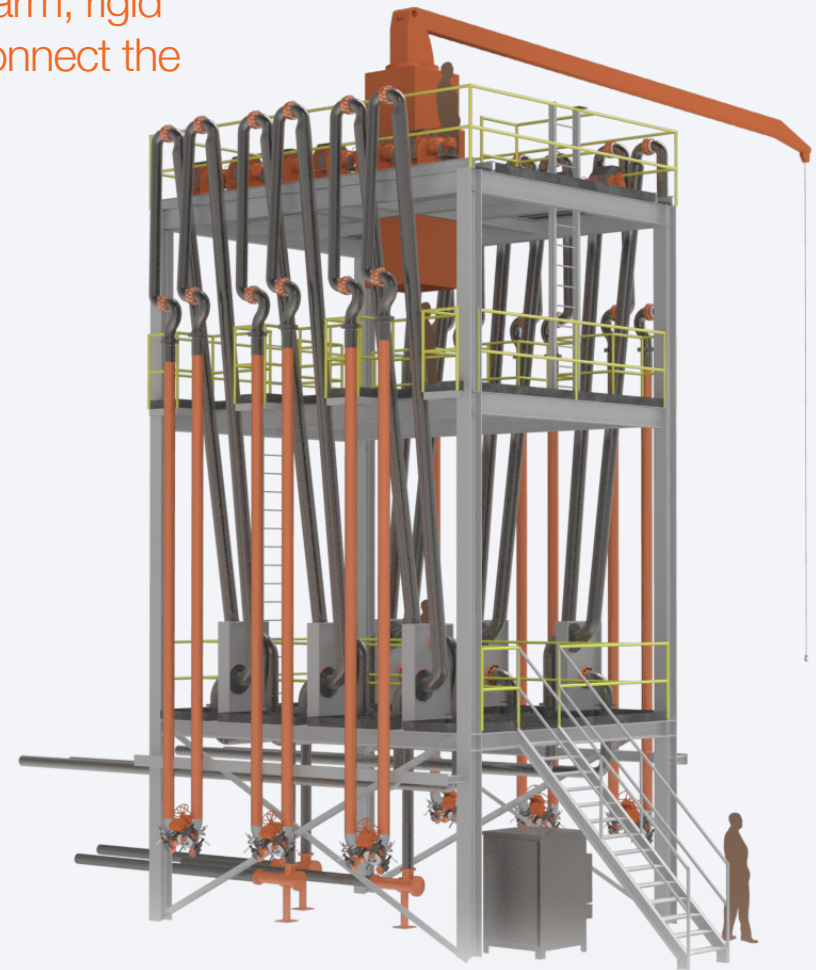
The Knuckle Type Hose Tower is an in house development for customers in areas with big tides. The loading arms consist of a rigid inboard arm, rigid outboard arm and flexible hose. This way no crane is needed to connect the hose to the ship manifold. This saves a lot of time!

## Key features

- No crane required
- Quicker connection time
- Multiple product line connections
- Cross over connections
- Minimal bending moments on the hoses
- Minimal space required
- Simultaneous dual ship loading
- No hoses on jetty

## Technical Details

- Hydraulically, electrically or pneumatically operated
- Actuated by cylinders or winch
- 3" up to 10"
- - 50 °C / + 200 °C
- Suitable for almost all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in all materials, e.g.: Carbon Steel, Stainless Steel and Stainless Steel 316Ti and composite



# Integrated Hose Tower

It is possible to fully integrate everything into your Hose Tower such as: gangways, cranes, piping, pigstations, safety showers, CCTV, flood lighting etc.

## Key features

- Gangway integrated into the Hose Tower
- Multiple product line connections
- Cross over connections
- Minimal bending moments on the hoses
- Minimal space required
- Simultaneous dual ship loading
- No hoses on jetty
- Minimal wear and tear on hoses
- Optimized operator ergonomics

## Technical Details

- Hydraulically, electrically or pneumatically operated
- Actuated by winches
- 3" up to 10"
- - 50 °C / + 200 °C
- Suitable for all (petro-) chemicals, liquids and gasses
- Up to 300#
- Available in Carbon Steel and Stainless Steel







# Standard Hose Reel

Ideal for vapour capturing from ships at temperatures from -50 up to +100°C.  
Available in 2" up to 10".

## Key features

- Electric, pneumatic or hydraulic operation
- Flexible and wide working range
- Minimal wear and tear on hoses
- Improved operator ergonomics
- Minimal space required and minimal jetty loads
- Vacuum Resistant Swivel Joint
- Zero Emission Swivel Joints according to TA Luft VDI 2440



## Technical Details

- Hydraulically, electrically or pneumatically operated
- Actuated by winch
- 1" up to 10"
- - 50 °C / + 200 °C
- Suitable for almost all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in all materials, e.g.: Carbon Steel, Stainless Steel and Stainless Steel 316Ti and composite
- Integrated pigstations, flame arrestors and piping

# Telescopic Hose Reel

The pneumatic sliding beam makes connections easier.  
Ideal for vapour capturing from ships at temperatures from  
-50 up to +100°C. Available in 2" up to 10".

## Key features

- Minimal bending moments on the hoses
- Minimal space required
- Minimal wear and tear on hoses
- Optimized operator ergonomics
- Easy (accessible) greasing
- Easy (accessible) maintenance
- Vacuum Resistant Swivel Joint
- Zero Emission Swivel Joints according to TA Luft VDI 2440

## Technical Details

- Hydraulically, electrically or pneumatically operated
- Actuated by winch
- 1" up to 10"
- - 50 °C / + 200 °C
- Suitable for almost all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in all materials, e.g.: Carbon Steel, Stainless Steel and Stainless Steel 316Ti and composite
- Tracing and insulation



# Double Hose Reel

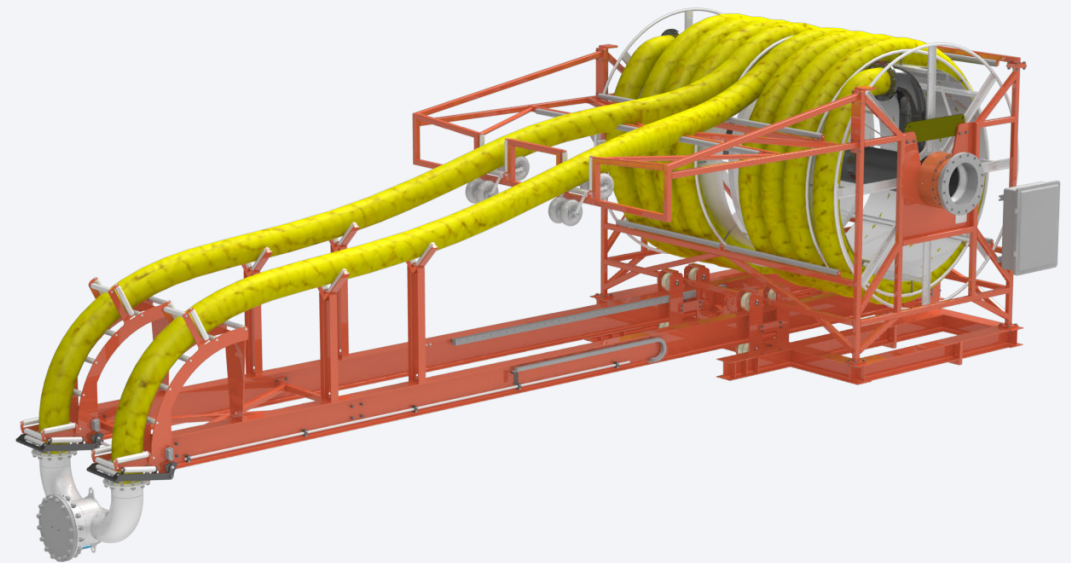
Ideal for vapour capturing in large volumes from ships at temperatures from -50 up to +100°C. Available in 2" up to 10".

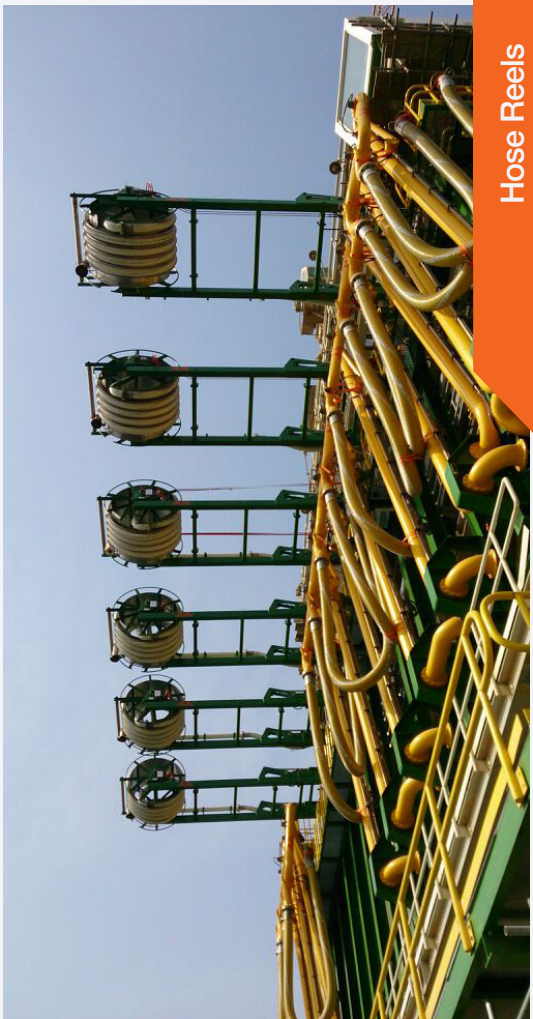
## Key features

- Minimal bending moments on the hoses
- Minimal space required
- No hoses on jetty
- Minimal wear and tear on hoses
- Optimized operator ergonomics
- Easy (accessible) greasing
- Easy (accessible) maintenance
- Vacuum Resistant Swivel Joint
- Zero Emission Swivel Joints according to TA Luft VDI 2440

## Technical Details

- Hydraulically, electrically or pneumatically operated
- Actuated by winch
- 1" up to 10"
- - 50 °C / + 200 °C
- Suitable for almost all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in all materials, e.g.: Carbon Steel, Stainless Steel and Stainless Steel 316Ti and composite





Hose Reels



# Gangway Bridge

The column has a turnable platform at a fixed height which can be reached by access stairs mounted to the side of the main structure.

## Key features

- Manual or Hydraulic
- Telescopic
- Aluminium
- Customized sizes, for small to medium sized vessels



### Telescopic Bridge

Bridge follows ship movement automatically



### Integrated control panel

Combine everything you want to control in one panel

# Gangway Tower

The Gangway Tower has a telescopic gangway that vertically moves along the tower by means of a lift platform.

## Key features

- Manual or Hydraulic
- Telescopic
- Aluminium
- Customized sizes, for small to medium sized vessels
- Lift to multiple levels



### Ergonomic ladder

Easy ergonomic ladder



# Top Loading Arm

Top Loading Arms are used to load trucks or trains from the top.  
Suitable for all liquids and vapours between -50 and +200°C.  
Available in diameters 2" up to 8".

## Key features

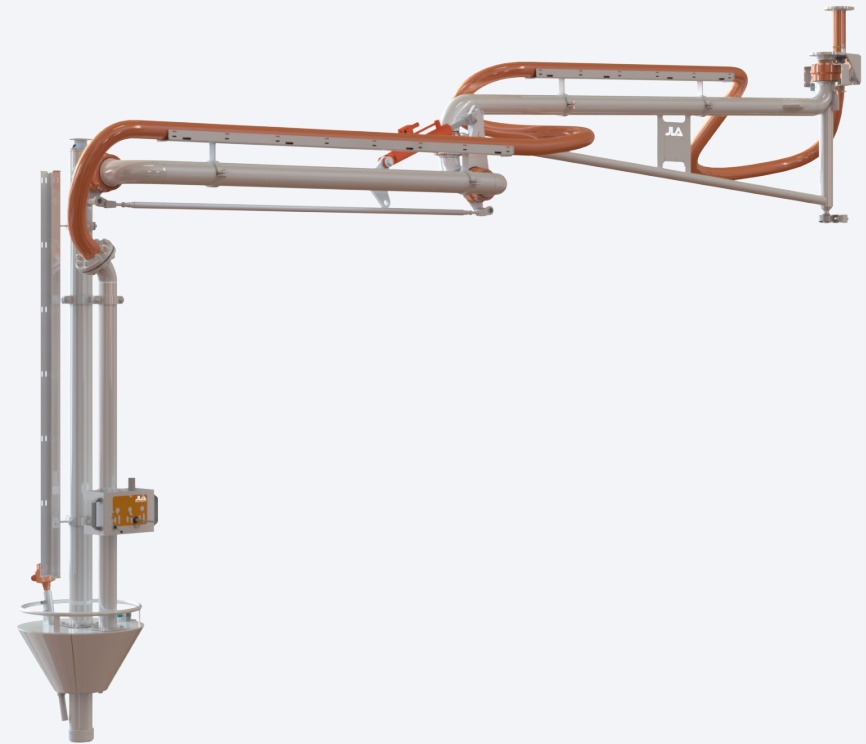
- Balanced by counterweight or spring balanced
- Vacuum resistant swivel joints with Zero Emission
- Optional with pneumatical or hydraulical operation

## Technical Details

- Manually, pneumatically or hydraulically operated
- 2" up to 8"
- - 50 °C / + 200 °C
- Suitable for almost all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in carbon steel and stainless steel.

## Design standards

- TA Lüft VDI 2440
- CE (PED & ATEX)



# Bottom Loading Arm

The bottom loading arms are applied to load or unload trucks and trains by connections at the bottom of the vehicle. For all liquids and vapours between -196 and +200°C. Available in diameters 2" up to 6".

## Key features

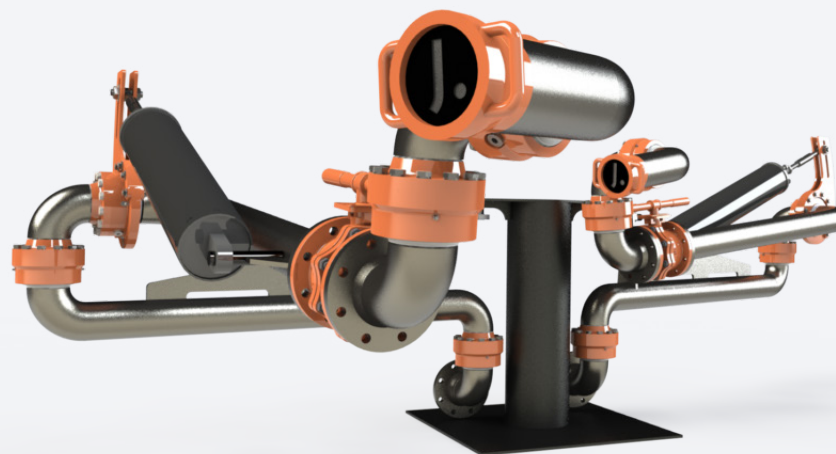
- Balanced by counterweight or spring balanced
- For (un)loading at the rear and side of the truck and train
- Vacuum resistant swivel joints with Zero Emission

## Technical Details

- Balanced by spring or counterweight
- Manual, pneumatic or hydraulic operation
- Available in 2" up to 6"
- 150# and 300#
- suitable for all liquids and gasses between -196 and +200°C
- In carbon steel or stainless steel.

## Design standards

- TA LÜFT VDI 2440
- CE (PED & ATEX)

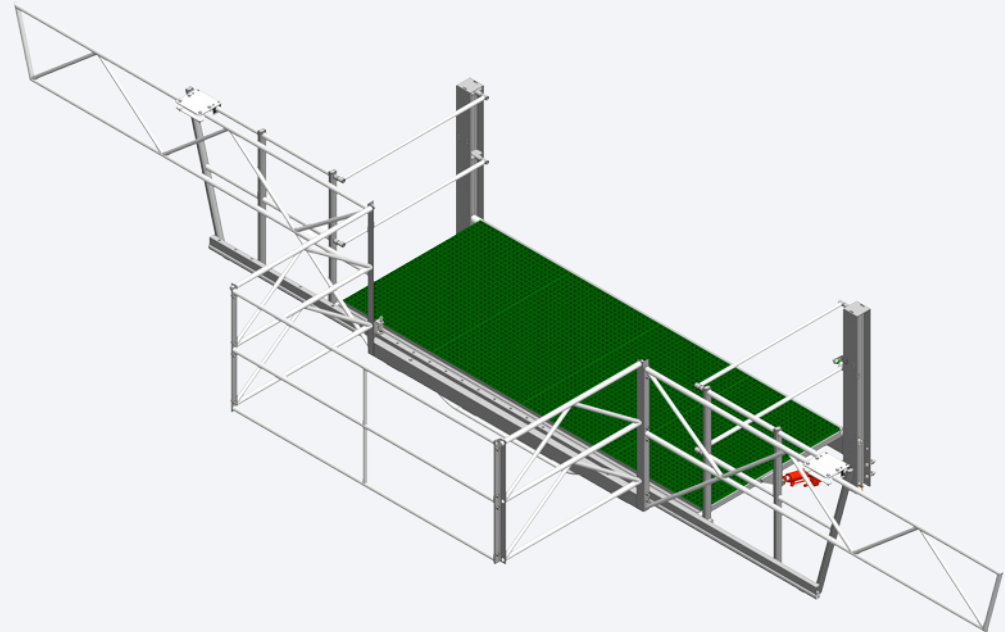


# Folding stairs & safety cages

Safe reliable and robust access.

## Key features

- Standard 3, 4, 5 & 6 step configuration or custom >6 step
- Self supported design with HD safety chains. Non self supported available
- 230kg working load capacity
- Self leveling non-slip step treads through the working range
- Working range of -40° to +45° from the platform to the vehicle
- Parks out of the way at approx. 80°
- Safety hand rails at 1100mm min. height from the step tread surface
- Mid rails and toe rails
- Easy grab operating handles
- HD safety chains
- Standard foot lock
- Extra length end step
- Easy adjustable tension springs assists movement
- Pneumatic or hydraulic systems available for larger units
- Available in aluminum, stainless steel and galvanized carbon steel, primed or painted
- Standard tread widths in mm: 610, 800, 915, 1220, 1525, 1830
- Modular construction for ease of installation, maintenance and repair
- Padded leading edge to help protect top of vehicle
- Available horizontal tracking models for maximum miss-spot situations with optional track lock



## Technical Details

- Typical standard size of 1220mm x 1830mm x 800mm for tank truck. OA height 1100mm
- Typical standard size of 2440mm x 2440mm x 800mm rail car. OA height 1100mm or custom size to suit each application
- Full height or top only for some rail cars
- Available in aluminium, stainless steel or carbon steel
- Full floor covering with lift up inspection panels in aluminum, stainless steel and GRP



Land Loading Equipment



# Ship-to-Ship LNG Bunkering

Ship-to-ship bunkering can take place at different locations: Along the quayside, at anchor or at sea. It is the most common bunkering method used for bunkering seagoing vessels with HFO and MGO.

The capacity of bunkering vessels can range from 1,000 to 10,000 m<sup>3</sup>. Because of size limitations in some ports, only smaller bunkering vessels will be able to operate in the port area.

## Advantages

Compared with other bunkering methods, the flexibility of ship-to-ship bunkering is high with respect to capacity and bunkering location. Because the bunker vessels are moored alongside LNG-fuelled ships, this bunker method could permit simultaneous cargo handling if approved by the relevant authorities, such as the port authority.



# Shore-to-Ship LNG Bunkering

Another bunkering method is shore-to-ship, whereby LNG is either bunkered directly from an (intermediary) tank or small station, or from an import or export terminal.

Pipelines from the terminal to the quay are needed if the LNG terminal is not directly situated at the berth.

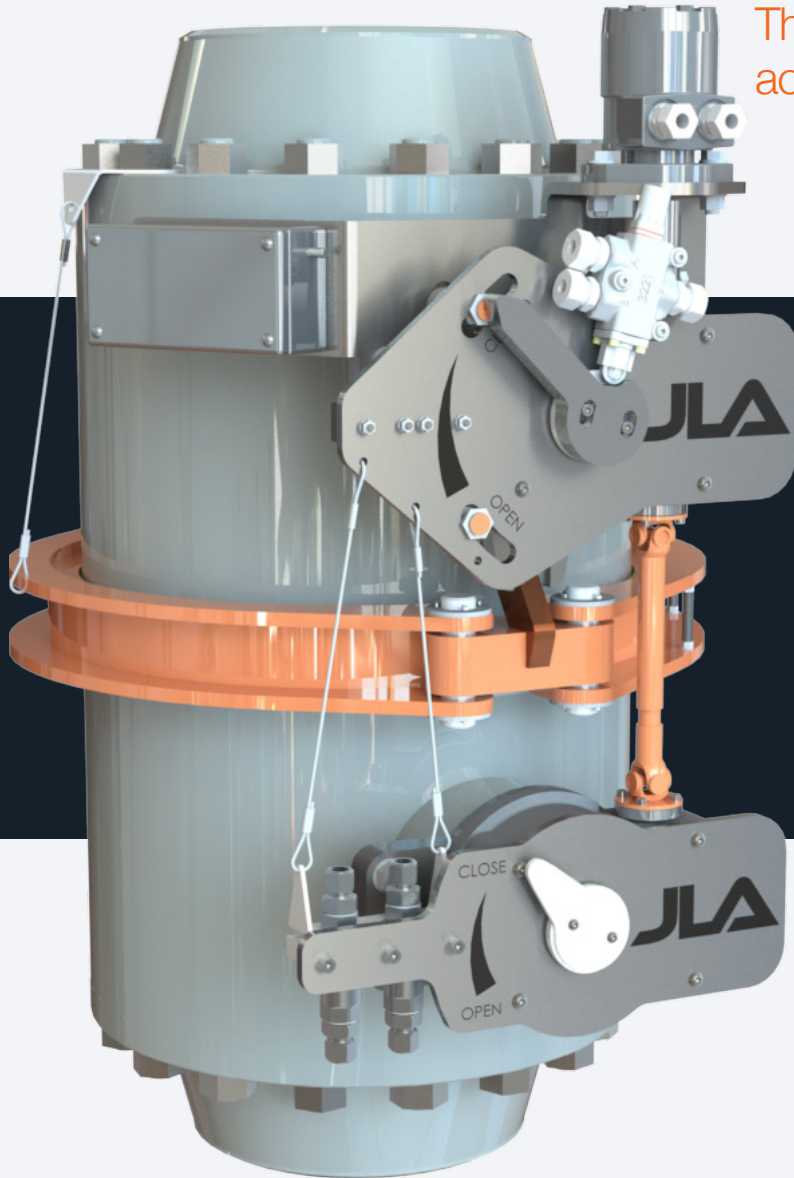
## Advantages

Shore-to-ship bunkering is generally a good option for ports with stable, long-term bunkering demand, especially in the case of co-use of LNG by other consumers. Because the pipeline and the loading arm arrangement are fixed, a larger hose can be installed to increase the bunkering rate (up to 3,000 l/min), leading to significantly shorter bunkering times.



# Emergency Release System

The Emergency Release System (ERS) is designed to accommodate a safe release of the ship in case of emergency.



## Key features

- For Marine Loading Arms
- Hydraulic & Mechanical lock
- Suitable for JLA but also all other brands and types
- Provided with two ball valves
- Simultaneously closing ball valves
- Separate cylinder for break ring
- Possibility to use ball valves as product valves
- Tested for 15 years operation
- 10 year guarantee

## Technical Details

- Visual indication of ball valve position
- Hydraulically driven ball valves
- Separate hydraulic actuated cylinder for ERS ring
- Triggered by range monitoring alarm system or manually
- 6" up to 20"
- - 196 °C / + 200 °C
- Suitable for almost all (petro-) chemicals, liquids and gases
- 150# and 300#
- Available in Carbon Steel, Stainless Steel and SS 316Ti

# QC / DC

Connection to the ship in less than 30 seconds.

## Key features

- Suitable on all brands of Marine Loading Arms
- Hydraulic operation
- Two phase safety connection
- One size fits all
- Simultaneous operated clamps
- 10 year guarantee
- Three versions: Manual, Hydraulic and Hose

## Technical Details

- Hydraulically operated
- 6" up to 20"
- - 50 °C / + 200 °C
- Suitable for cryogenic applications
- 150# and 300#

## Design standards

- OCIMF '99
- TA Lüft VDI 2440
- CE (PED & ATEX)



# Swivel Joints

For smooth rotation and long life time with minimum & easy maintenance.

## Key features

- Fully hardened Replaceable Cartridge ball races
- Minimum brinelling
- Vacuum Resistant with Zero Emission with minimum leakage
- Minimum rotation resistance
- Able to withstand maximum forces and loads
- Maximum reliability and minimum maintenance expenses
- Tested for 15 years daily operation
- 10 year guarantee

## Technical Details

- 2" up to 20"
- - 50 °C / + 200 °C
- Suitable for almost all (petro-) chemicals, liquids and gases. Especially cryogenic applications
- 150#, 300# and 600#
- Available in all Carbon Steel Stainless Steel including Stainless Steel 316Ti.

## Design standards

- OCIMF '99
- TA LÜFT VDI 2440
- CE (PED & ATEX)

## Zero Emission

With this knowledge and expertise JLA designed a swivel joint that is vacuum resistant. This assures significantly less downtime, higher efficiency of the loading arms, less maintenance expenses, higher life time expectancy and minimum leakage.

The JLA swivel joints have Zero Emission according to TA LÜFT VDI 2440.



# Cryogenic Swivel Joints

Specifically designed for cryogenic applications such as LNG & Ethylene.

## Key features

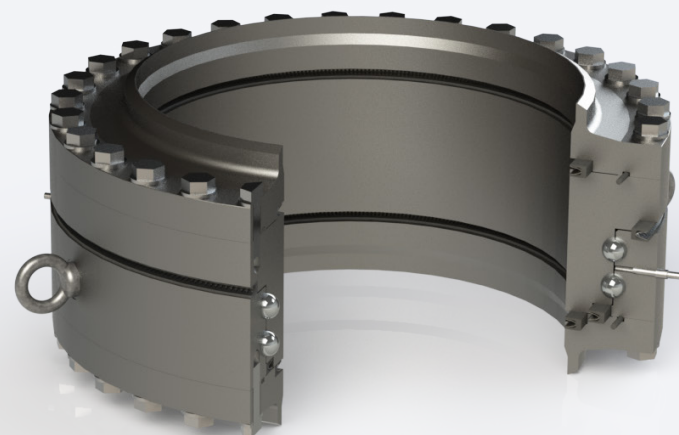
- Cartridge Type Swivel Joint
- Two nitrogen dried ball races
- Extra large bearing balls for low peak stress
- Ultra high molecular weight PE Seal
- Static Back-up Seal
- External Wiper seal
- Minimum rotation resistance
- Maximum reliability and minimum maintenance expenses
- Tested for 30 years daily operation
- 10 year guarantee

## Technical Details

- 2" up to 20"
- - 196 °C / + 100 °C
- Suitable for cryogenic applications
- 150#, 300#
- Available in all Stainless Steel including Stainless Steel 316Ti

## Design standards

- EN 1474
- ISO 16904:2013
- OCIMF '99
- CE (PED and ATEX)



# Hydraulic Power Unit

The Hydraulic Power Unit provides hydraulic pressure to the jetty equipment.  
Suitable for Marine Loading Arms, Hose Towers, Gangways and all other JLA products.

## Key features

- Suitable for operation in Hazardous Area
- With operator friendly indication and operation
- Low maintenance
- Provided in wheather proof enclosure
- 10 year guarantee

## Technical Details

- Electrically driven
- – 50 °C / + 100 °C
- Provided in stainless steel enclosure
- Certified for operation in hazardous area's

## Design standards

- OCIMF '99
- CE (PED & ATEX)



# Control System

JLA offers integrated control systems for all top site equipment on the Jetty.

## Key features

- One control panel for all equipment on the jetty
- Suitable for operation in hazardous area
- Suitable for SIL classification Level 1,2 & 3
- PLC integrated in control panel or standalone cabinet

## Technical Details

- Customized for each application
- Suitable for Hazardous Areas
- Suitable for SIL
- Provided in stainless steel cabinet
- Standalone or wall mounted

## Design standards

- OCIMF '99
- Local applicable E&I norms
- CE (ATEX)
- EMC



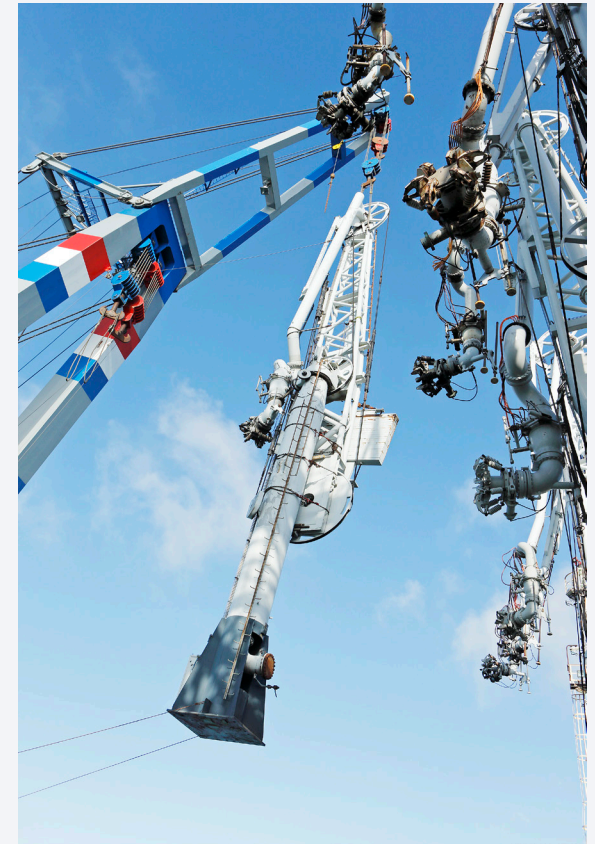
# After Sales Service

More than 30 years ago we initially started with brand independent servicing on all types of loading arms with JLS loading arm service which is a company within the J. de Jonge Group.

During the 30 years we gained a lot of knowledge of all wear parts, defaults and operational advantages. Since this company grew very steady we now have more than 42 service engineers who are able to provide optimal and 24/7 worldwide call-out service. This is a huge advantage when you buy our JLA products, because we are able to always provide the necessary service when needed.

## JLS can assist with

- Breakdown failure prevention
- Parts of all brands in stock
- 20 fully-equipped service vehicles available
- Yearly (preventive) maintenance
- 24/7 On-call service
- Management of client (specific) stock
- Maintenance on gangways





loading arm  
service

## Daughter Company

JLS loading arm service B.V. is a 100% daughter company within the J de Jonge Group and is responsible for the service and warranty in cooperation with JLA.

After Sales Service



# References

## Specification

Size:	8 inch
Quantity:	7 x HydroTec
Material:	Carbon Steel
Accessories:	ERS, QCDC & electrical tracing
Operation:	by Hydraulic Power Unit, controlled by PLC Control System with radio remote control
Applications:	Fuels
Delivery date:	Q4 2017

In 2017 JLA received the order for this new storage terminal in Greece. The Loading Arms are equipped with the newest JLA options and with zero emission swivel joints. The 7 JLA Marine Loading Arms have been delivered well within the agreed time schedule and have been installed successfully.

The 7 HydroTec Marine Loading Arms are operated on three different berths to handle three ships simultaneously.

The project was executed successfully with smooth cooperation between JLA, the contractor and the end user. JLA is proud of its contribution to this esteemed new storage facility in Greece.



HydroTec Series

## Specification

Quantity	5 fully integrated hosetowers
Capacity	40 knuckle type loading arms, 5 vapour return reels and 6 MLA
Sizes	6, 8, and 10 inch
Delivery date	Q2 2014

Jubail Chemicals Storage and Services Company (JCSSC) is a joint venture between SABIC and Royal Vopak.

The newly build 568,000 cbm tank terminal in the King Fahd Industrial Port is located in Al-Jubail and serves one of the biggest petrochemical complexes in the world. The terminal is connected via 5 Births which are equipped with 5 fully integrated hosetowers containing an average of 36 hose loading arms, 21 x 12 inch Marine Loading arms, 25 x vapour recovery hose reels and 5 x measure booms. JLA was responsible for the complete engineering, construction and installation on site

The terminal is built using state of the art technology and is fully equipped to comply with all international and local safety, security, health and environmental regulations and requirements.



Hose Towers

# Meet our partners

## Europe

### Italy

Genios  
Via Turchia 4/M  
96100 Siracusa

### Belgium/France

JLS loading arm service BVBA  
Polderdijkweg 8  
2030 Antwerpen

### Greece

Inmartek LTD  
Fragoklissias Str. Building B  
Marousi  
151 25 Athens

### Germany

J de Jonge GmbH  
Max – Ernst – Straße 4  
D-50354 Hürth

### Turkey

Petrong  
Petrong Koç Towers  
Çankaya / Ankara

## Middle east & Africa

### Oman

Arabian Pearl Petroleum  
Services LLC  
122, Mabela Post Box: 586  
Sultanate of Oman

### Saudi Arabia

J de Jonge flowsystems LLC  
Lot 4 Block 01  
35792  
Jubail 2

### Iran

Namvar Karan Negar Co (NKN)  
No.6, Seif Alley, Sharifi Manesh  
St., Andarzgoo Blvd.  
Tehran

### Kuwait

Petroleum Equipment Technology Co. WLL  
Industrial Area, Plot # 75 – Ahmadi  
P.O. Box: 10237  
Shuaiba – 6543 Kuwait

## Asia & Pacific

### South Korea

BNK  
Centum IS Tower 1711  
Centumbukdae-ro 60  
Haeundae-gu, Busan

### South East Asia

United Western Technologies Pte Ltd  
of Blk 33, Bangkit Road  
679974# 12-02, Chestervale.  
Singapore

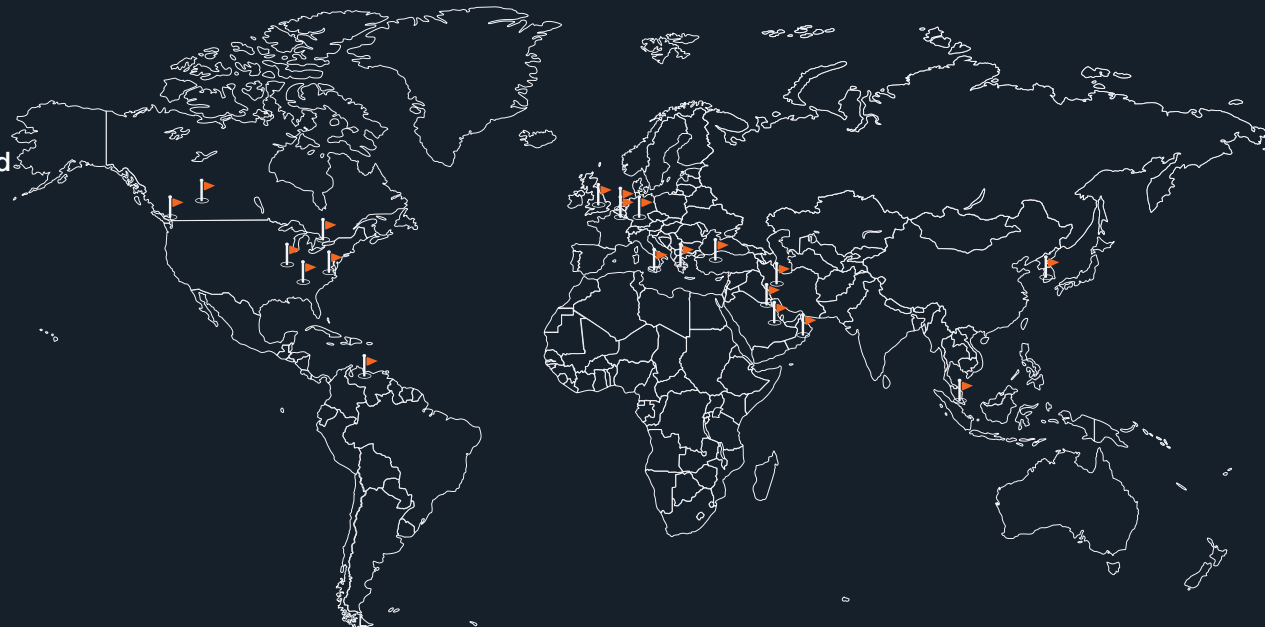
## Americas

### USA & Canada

Novaflex  
449 Trollingwood Rd.  
Haw River, NC 27258

### Venezuela

X-caret  
Calle El Carmen, Piso 10, Ofc 10-C,  
Los Dos Caminos  
Caracas



# Facilities

The head office of JLA is located at the same premises as J. de Jonge Group B.V; in Vlaardingen in the middle of the Port of Rotterdam. The engineering, prefabrication workshop, assembly hall, test facilities and warehousing are all located here. The supporting departments e.g.: management, sales, finance, logistics and HR are all in the same head office building.

JLA has full access to all the group's facilities. The total production capacity at the facility in Vlaardingen is available at > 6.000 m2 as workshop space.

J. de Jonge Group has bought a new piece of land in the middle of the Port of Rotterdam to accommodate and further stimulate the growth of the group. The land covers more than 30.000 m2. An interesting fact is that it has its own 150 meters long quay as own harbor. The Port Authorities will have no jurisdiction here. JLA can have its own ships mooring at its quay at any given time, which is ideal for testing and transportation purposes.

Besides workshops in Vlaardingen, J. de Jonge Group has workshops available for JLA in Antwerp, Amsterdam and Al Jubail in Saudi Arabia as well.

It is a requirement for J. de Jonge that all those facilities have direct access to waterways. For customers nearby JLA can pick up new loading arms directly by floating crane and transport and install them directly from the water onto the jetty at the respective customers' site.



# JLA Loading Technology B.V.

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3134 KG Vlaardingen  
The Netherlands

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+31 10 248 5800

## General

[info@jla.nl](mailto:info@jla.nl)

## Commercial

[sales@jla.nl](mailto:sales@jla.nl)

