



# Atlanta

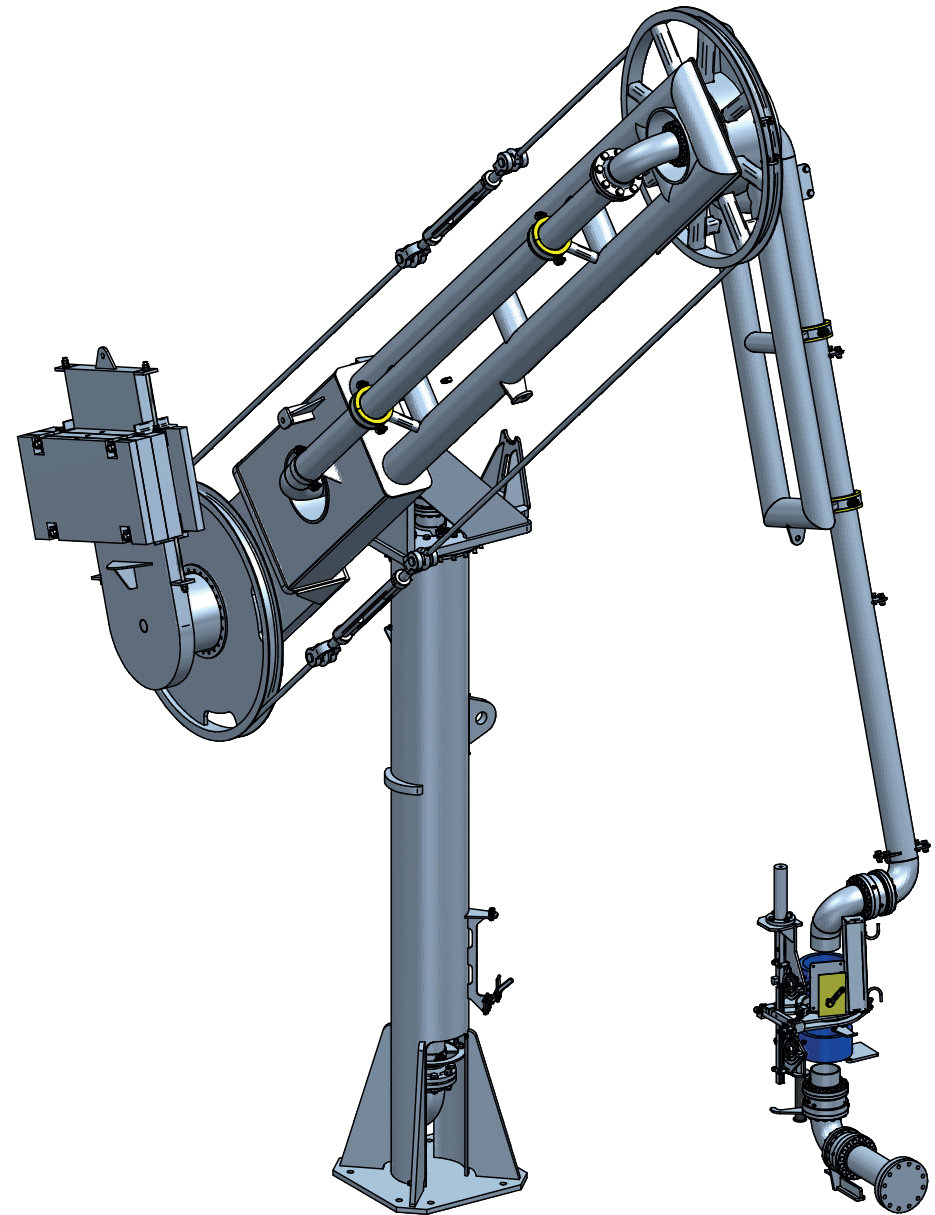
## Marine loading arms

The Atlanta marine loading arm transfers liquid or gaseous products to and from ocean going or inland waterway tankers.

This marine loading arm features a separate support construction which is placed in balance through a cable pantograph system with 2 separate counterweights.

### Features

- Swivel joint model 4-2ST (sandwich model)
- Separate support construction in carbon steel
- Product pipe in carbon steel or stainless steel
- Balance of inboard and outboard arm in each position by 2 separate counterweights through pantograph system
- Low maintenance, lightweight cable pantograph system
- Easy exchange of seals without dismantling loading arm and without auxiliary equipment
- Easy overhaul of complete swivel joint without the need of dismantling the loading arm and without auxiliary equipment
- Hydraulic operation
- Bridging of large operating range
- Limited dead weight
- The separate support construction guarantees overall same nominal bore through the complete loading arm
- Comes with separate ball bearings
- Hydraulic and mechanical locking of the arm in resting position
- Suitable for chemically aggressive products
- High and low temperature application
- High and low pressure application
- Dimensions: 6" - 16" (DN150 - DN400)



#### Wiese Europe bvba

Smederijstraat 16  
2960 Brecht  
Belgium

+32 3 633 16 10  
info@wiese-europe.com  
www.wiese-europe.com



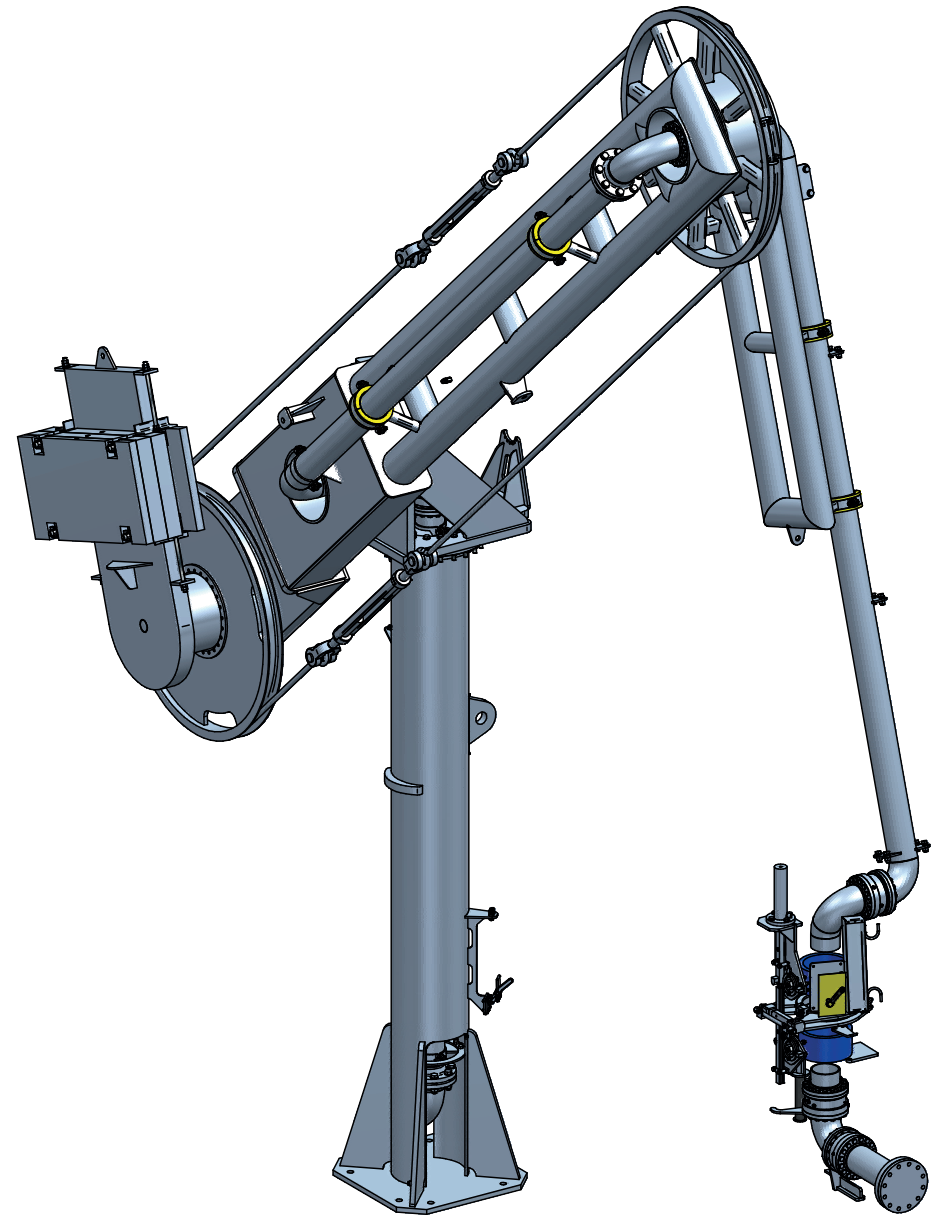


# Atlanta

## Marine loading arms

### Options

- Hydraulic operation
- Manual/hydraulic QCDC (Quick Connect-Disconnect Coupler)
- Manual/hydraulic shut off valve
- Insulation flange
- Vacuum breaker
- Purge/drain
- ERC (Emergency Release Coupler)
- Piggyback vapour return line
- Radio remote control
- Alarm range system
- Tracing and/or insulation
- Position monitoring system



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Belgium

+32 3 633 16 10

info@wiese-europe.com  
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# Barca

## Marine loading arms

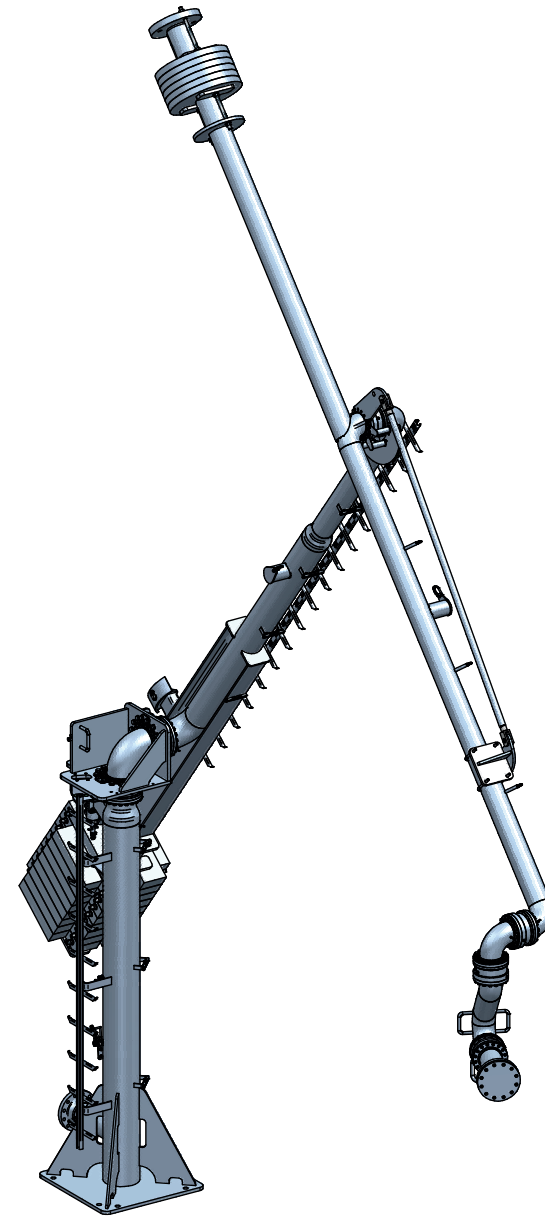
The Barca marine loading arm transfers liquids or gaseous products, to and from barges or coasters. This marine loading arm features a self-bearing construction that is balanced through two single adjustable counterweights.

### Features

- Swivel joint model 3-2ST
- Product pipe in carbon steel or stainless steel
- Overdimensioned swivel joint design to support the forces acting on the loading arm
- Two single adjustable counterweights balance the inboard and outboard arm in each position
- Effortless manual operation
- Mechanical locking of the arm in resting position
- Suitable for chemically aggressive products
- High and low temperature application
- High and low pressure application
- Dimensions: 6" - 8" (DN150 - DN200)

### Options

- Manual QCDC (Quick Connect-Disconnect Coupler)
- Manual shut off valve
- Insulation flange
- Vacuum breaker
- Purge/drain
- Other options are available upon request



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Smederijstraat 16  
2960 Brecht  
Belgium

+32 3 633 16 10  
info@wiese-europe.com  
www.wiese-europe.com





# Minerva

## Marine loading arms

The Minerva marine loading arm transfers liquid or gaseous products to and from ocean going or inland waterway tankers. This loading arm features a self-bearing construction which is placed in balance through a cable pantograph system with 2 separate counterweights.

### Features

- Swivel joint model 3-2ST
- Product pipe in carbon steel or stainless steel
- Overdimensioned swivel joint design to support the forces acting on the loading arm
- Two separate counterweights balance both the inboard and outboard arm through a pantograph system
- Low maintenance, lightweight cable pantograph system
- Easy exchange of seals without the need of dismantling the loading equipment and without auxiliary equipment
- Effortless manual operation
- Bridging of large operating range
- Limited dead weight
- Mechanical locking of the arm in resting position
- Small space requirements
- Suitable for chemically aggressive products
- High and low temperature application
- High and low pressure application
- Dimensions: 6" - 10" (DN150 - DN250)

### Options

- Hydraulic operation
- Manual/hydraulic QCDC (Quick Connect-Disconnect Coupler)
- Manual/hydraulic shut off valve
- Insulation flange
- Vacuum breaker
- Purge/drain
- ERC (Emergency Release Coupler)
- Piggyback vapour return line
- Swivel joint model 4-2ST
- Tracing and/or insulation



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Smederijstraat 16  
2960 Brecht  
Belgium

+32 3 633 16 10  
info@wiese-europe.com  
www.wiese-europe.com

