# SHIPLOADERS
# PORTFOLIO

MGA
Engineering
mgaeng.com

ENv5

Pacific Coast Terminals Shiploader, British Columbia, Canada


LAXT Shiploader, Los Angeles, California, USA

Hamilton Lake Terminal Shiploader, Hamilton, Ontario, Canada

MGA Engineering

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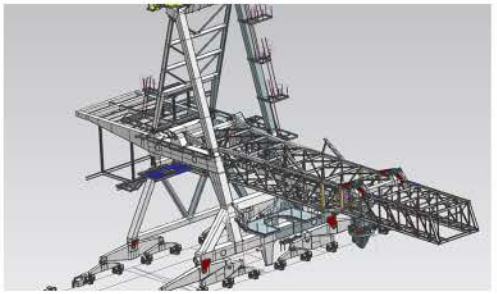
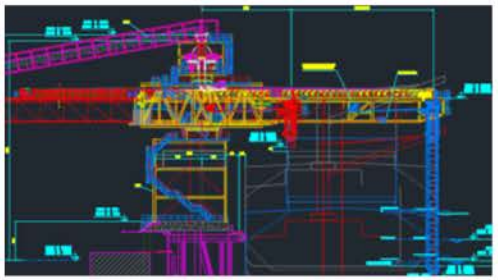




## The Company

MGA Engineering is a global leader in designing structural and mechanical systems in the infrastructure, building (commercial and industrial), mining, energy, and marine industries. Founded in 1996, MGA now staffs 65 highly experienced engineers, providing an exceptional level of technical expertise and innovative engineering solutions to commercial and industrial clients.

MGA is well versed in the intricacies of bulk material shiploader design. Leveraging state-of-the-art design and computing tools, we ensure compliance with North American and European standards. From initial project conception through detailed design, including equipment, mechanical systems, and supporting structures such as storage buildings and silos, our team meticulously addresses all design requirements, meeting the industry's standards and expectations.

## A Global Footprint

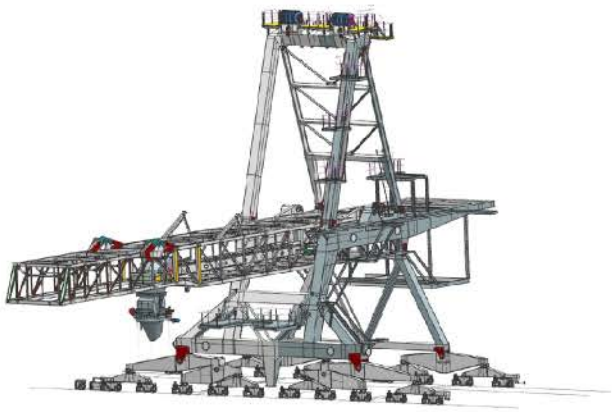
MGA's headquarters is situated in Calgary, Canada, overseeing corporate, project management, financial, and design functions. Additionally, a significant design office is located in Cairo, Egypt, serving as the operational hub for projects in Europe and Asia. MGA also maintains several smaller satellite offices across Canada and the United States (British Columbia, Quebec, Florida, and New Jersey), as well as internationally, in Mexico, Brazil, and Ecuador. Our extensive footprint of past projects and ongoing global presence underscores our commitment to delivering exceptional engineering solutions worldwide.

Citgo Aruba Oil Refinery, San Nicolas, Aruba

## The Importance of Shiploaders

Shiploaders play a critical role in the continuous loading of bulk materials like iron ore, coal, or grain worldwide, serving as indispensable assets in the global shipping industry and facilitating intercontinental trade.

Efficiency, durability, and reliability are the hallmark features of shiploaders, and our designs are crafted with these principles in mind. Furthermore, MGA has spearheaded numerous research projects aimed at enhancing shiploaders' resilience to seismic events. By ensuring their robustness, we safeguard crucial trading routes and maintain the uninterrupted flow of materials even in the aftermath of seismic activity.





# Shiploader Project Showcase


Port of Sept-Ile Pointe-Noire Quai No. 35, Sept-Îles, Quebec, Canada

## Fraser Grain Terminal Shiploader

**Location**
B.C., Canada

**Timeline**
2018 - 2020

**Client**
FWS

**Material**
Grain

**Capacity**
2,000 tph

**Shiploader Type**
Fixed (x3)

**Scope of Work**
- Structural and Mechanical Engineer of Record

## Pacific Coast Terminals Shiploader

**Location**
B.C., Canada

**Timeline**
2016 & 1997

**Client**
Krupp Canada

**Material**
Sulpher & Potash

**Capacity**
5,000 tph

**Shiploader Type**
Radial quadrant

**Scope of Work**
- Engineer for the sulpher conveying system
- Design audit
- Engineer for the boom replacement

## Hamilton Lake Terminal Shiploader

**Location**
Ontario, Canada

**Timeline**
2016

**Client**
FWS

**Material**
Grain

**Capacity**
1,500 tph

**Shiploader Type**
Fixed

**Scope of Work**
- Structural Engineer of Record

## Westshore Terminals Shiploader

**Location**
B.C., Canada

**Timeline**
2015 - 2019

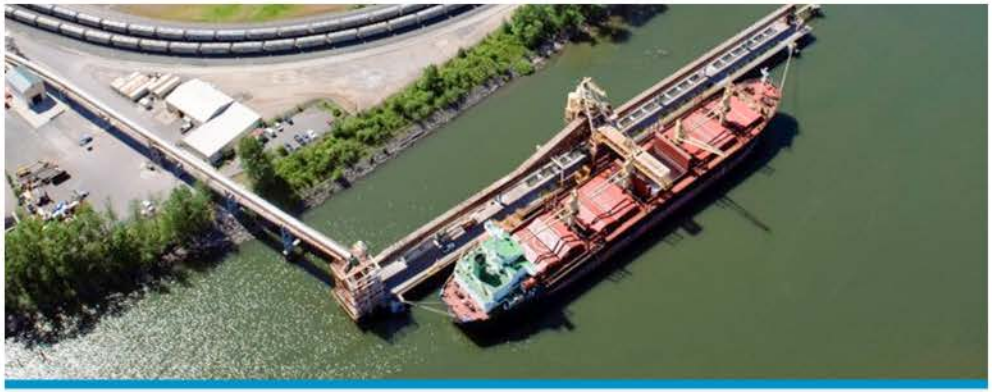
**Client**
Sandvik

**Material**
Bituminous coking coal and thermal coal

**Capacity**
8,000 tph

**Shiploader Type**
Rail Mounted

**Scope of Work**
- Structural Engineer of Record



## Canpotex Portland Shiploader

Location
Oregon, USA

Timeline
2013 - 2014

Client
Sandvik

Material
Potash

Capacity
6,500 - 8,600 tph

Shiploader Type
Rail mounted

Scope of Work
- Structural Engineer of Record

## Impala Burnside Terminal Shiploader

Location
Louisiana, USA

Timeline
2011 - 2013

Client
Sandvik

Material
Bituminous and Sub-Bituminous Coal

Capacity
6,600 to 8,300 tph

Shiploader Type
Rail mounted

Scope of Work
- Structural Engineer of Record

## Port of Sept-Ile Pointe-Noire Quai No. 35

Location
Quebec, Canada

Timeline
2012 - 2014

Client
Sandik

Material
Iron Ore

Capacity
8,000 tph

Shiploader Type
Rail mounted

Scope of Work
- Structural Engineer of Record for 2 Shiploaders + trippers

## Vale Long Harbour Offloading Mobile Hoppers

Location
Newfoundland, CAN

Timeline
2011-2012

Client
Sandvik

Material
Bulk nickel concentrates and bulk limestone

Capacity
2,200 tph

Shiploader Type
Mobile hoppers

Scope of Work
- Design audit
- Fabrication supervision
- Site rehabilitation

## Petrozuate Shiploader

Location
Venezuela

Timeline
2001

Client
Krupp Canada

Material
Petroleum Coke

Capacity
1,000 - 5,000 tph

Shiploader Type
Rail mounted

Scope of Work
- Fire damage investigation and troubleshooting

## Ilo Ship-Unloader

Location
Ilo, Peru

Timeline
2001

Client
Krupp Canada

Ship Unloader Type
Rail mounted

Scope of Work
- Structural evaluation of seismic damage
- Structural design criteria - seismic provisions

## Aimcor Shiploader

Location
Texas City, USA

Timeline
2001 - 2003

Client
Oxbow/Aimcor

Material
Petroleum Coke

Capacity
2,500 tph

Shiploader Type
Radial quadrant

Scope of Work
- Repair and rehabilitation
- Redesign, detailing and fabrication, erection and commissioning supervision

## Hovensa Shiploader

Location
St. Croix, U.S.V.I

Timeline
1998 - 2001

Client
Krupp Canada

Material
Petroleum coke

Shiploader Type
Radial quadrant

Scope of Work
- Design
- Fabrication supervision
- Erection supervision


## Citgo Aruba Oil Refinery Shiploader

Location
San Nicolas, Aruba

Timeline
1997 - 2000

Client
ThyssenKrupp Robins

Material
Crude oil

Shiploader Type
Fixed

Scope of Work
- Design
- Fabrication supervision
- Erection supervision

## Collahuasi Shiploader

Location
Iquique, Chile

Timeline
1996 - 1999

Client
Krupp Canada

Material
Copper concentrates

Capacity
1,500 tph

Shiploader Type
Radial quadrant

Scope of Work
- Design audit
- Fabrication supervision
- Site rehabilitation


## LAXT Shiploader

Location
California, USA

Timeline
1997

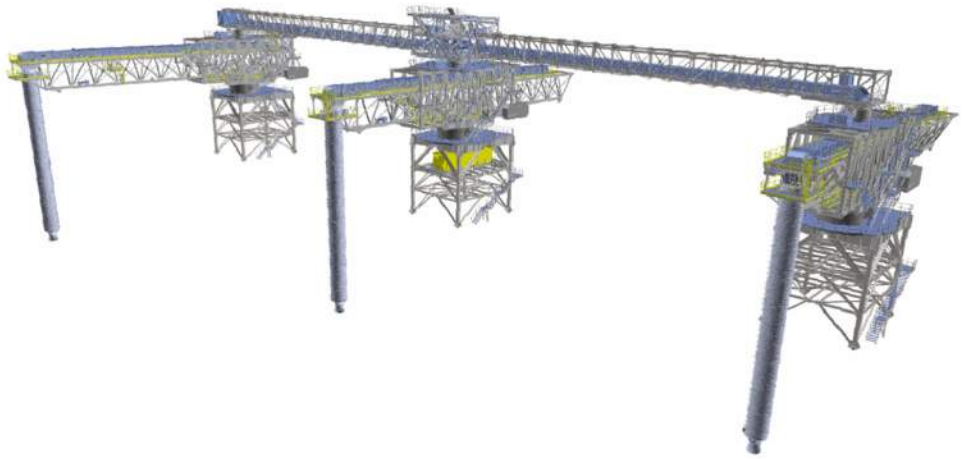
Client
Krupp Canada

Material
Coal & petroleum coke

Capacity
9,000 tph

Shiploader Type
Rail mounted

Scope of Work
- Design audit
- Troubleshooting the hoisting system



Hovensa Shiploader, St. Croix, US Virgin Islands

Impala Burnside Terminal Shiploader, Darrow, Louisiana, USA

Pacific Coast Terminals Shiploader, British Columbia, Canada

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