

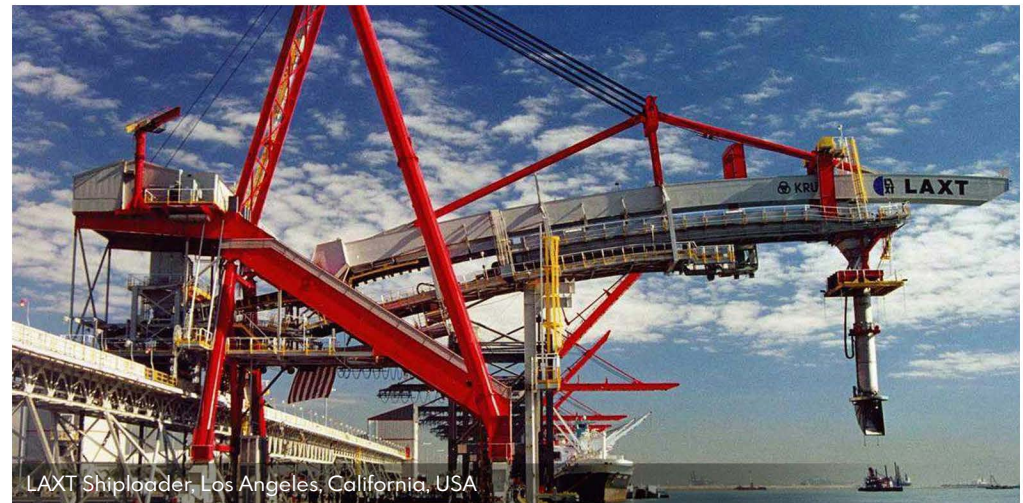


# SHIPLOADERS PORTFOLIO





Pacific Coast Terminals Shiploader, British Columbia, Canada

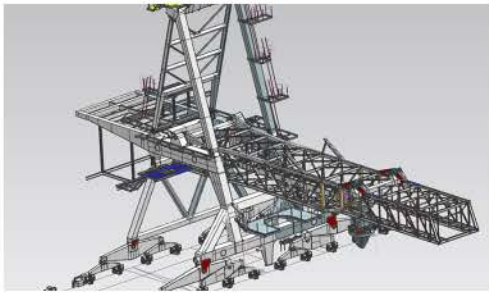


LAXT Shiploader, Los Angeles, California, USA



Hamilton Lake Terminal Shiploader, Hamilton, Ontario, Canada





## The Company

MGA Engineering is a master designer of structural and mechanical systems deployed across the globe 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 requirements needed for designing a bulk material shiploader. Using state of the art design and computing tools, MGA completes work compliant with North American and European standards. From initial project conception via Design Basis Memoranda, through Front End Engineering and Design (FEED) studies to detailed design of the ship loader, equipment, mechanical systems, as well as any other structures needed for the port (storage buildings, silos, foundations, etc.), MGA's team meets the design needs of the industry.

## A Global Footprint

MGA's head office is located in Calgary, Canada, and entails corporate, finance, project management and design functions. A large design office resides in Cairo, Egypt, and also serves as the base of operation for projects in Europe and Asia. MGA also operates several smaller satellite offices across Canada, the United States of America, and internationally (British Columbia, Quebec, Florida, New Jersey, Mexico, Brazil and Ecuador). Our footprint of past projects and active presence worldwide can be seen on a global scale.



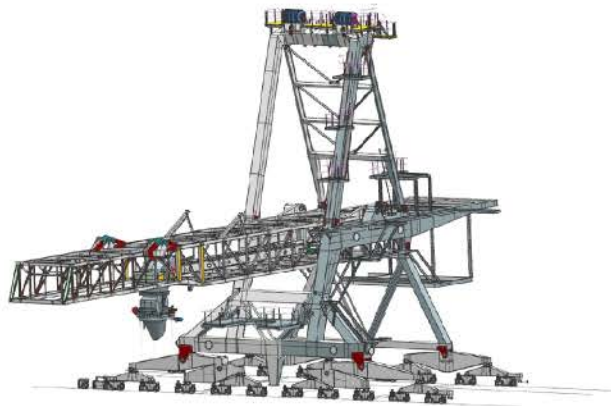


Citgo Aruba Oil Refinery, San Nicolas, Aruba

## The Importance of Shiploaders

Throughout the world, shiploaders are used for continuous loading of bulk materials, such as iron ore, coal, or grain. They are essential to the global shipping industry and vital for the inter-continental exporting of bulk materials.

Efficiency, durability and reliability are words that we associate with shiploaders, and our designs are governed by those very principals. Additionally, MGA has led several research projects specifically aimed at improving shiploaders' resilience to seismic events, so that crucial trading routes and the flow of materials is not interrupted following a seismic event.



## Shiploader Project Showcase









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





## Fraser Grain Terminal Shiploader

	LOCATION B.C., Canada		MATERIAL Grain	SCOPE OF WORK • Structural and Mechanical Engineer of Record
	TIMELINE 2018 - 2020		CAPACITY 2000 tph	
	CLIENT FWS		SHIPLOADER TYPE Radial quadrant	








## Pacific Coast Terminals Shiploader

	LOCATION B.C., Canada		MATERIAL Potash	SCOPE OF WORK • Engineer for the potash conveying system • Design audit • Engineer for the boom replacement
	TIMELINE 2016 & 1997		SHIPLOADER TYPE Radial quadrant	
	CLIENT Krupp Canada			



## Hamilton Lake Terminal Shiploader

	LOCATION Ontario, Canada		MATERIAL Grain	SCOPE OF WORK • Structural Engineer of Record
	TIMELINE 2016		CAPACITY 1500 tph	
	CLIENT FWS		SHIPLOADER TYPE Fixed	



## Canpotex Portland Shiploader

	LOCATION Oregon, USA		MATERIAL Potash	SCOPE OF WORK • Structural Engineer of Record
	TIMELINE 2013 - 2014		CAPACITY 6000 tph	
	CLIENT Sandvik		SHIPLOADER TYPE Rail mounted	












## Westshore Terminals Shiploader

	LOCATION B.C., Canada		MATERIAL Bituminous coking coal and thermal coal		SCOPE OF WORK • Structural Engineer of Record
	TIMELINE 2013 - 2018		CAPACITY 8000 tph		
	CLIENT Sandvik		SHIPLOADER TYPE Rail Mounted		










## Impala Burnside Terminal Shiploader

	LOCATION Louisiana, USA		MATERIAL Bituminous and Sub-Bituminous Coal		SCOPE OF WORK • Structural Engineer of Record
	TIMELINE 2011 - 2013		CAPACITY 6600 to 8300 tph		
	CLIENT Sandvik		SHIPLOADER TYPE Rail mounted		










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

	LOCATION Quebec, Canada		MATERIAL Iron Ore		SCOPE OF WORK • Structural Engineer of Record for 2 Shiploaders + trippers
	TIMELINE 2012 - 2014		CAPACITY 8000 tph		
	CLIENT Sandik		SHIPLOADER TYPE Rail mounted		



## Vale Long Harbour Processing Plant Shiploader

	LOCATION Newfoundland, CAN		MATERIAL Bulk nickel concentrates and bulk limestone		SCOPE OF WORK • Design audit • Fabrication supervision • Site rehabilitation
	TIMELINE 2009				
	CLIENT Sandvik		SHIPLOADER TYPE Mobile hoppers		




## Petrozuate Shiploader

 LOCATION  
Venezuela

 TIMELINE  
2001

 CLIENT  
Krupp Canada

 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  
2500 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		MATERIAL Crude oil	SCOPE OF WORK • Design • Fabrication supervision • Erection supervision
	TIMELINE 1997 - 2000		SHIPLOADER TYPE Fixed	
	CLIENT ThyssenKrupp Robins			



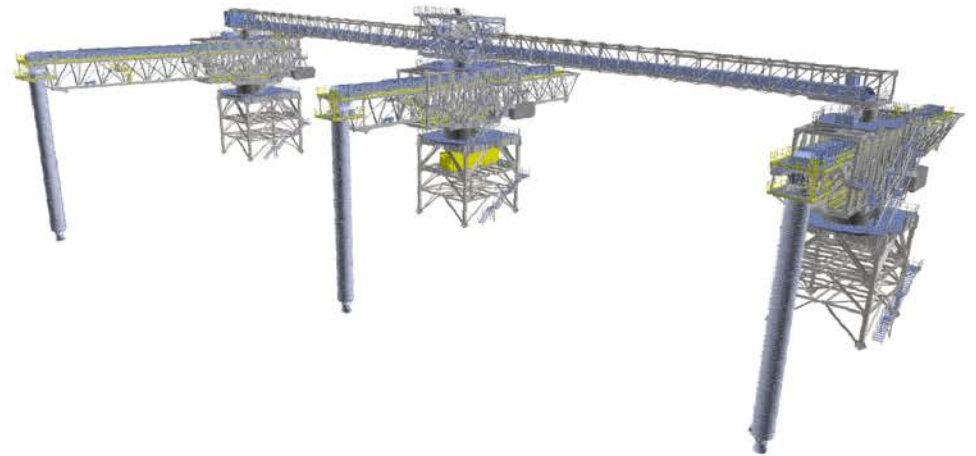
## Collahuasi Shiploader

	LOCATION Iquique, Chile		MATERIAL Copper concentrates	SCOPE OF WORK • Design audit • Fabrication supervision • Site rehabilitation
	TIMELINE 1996 - 1999		SHIPLOADER TYPE Radial quadrant	
	CLIENT Krupp Canada			



## LAXT Shiploader

	LOCATION California, USA		MATERIAL Coal & petroleum coke	SCOPE OF WORK • Design audit • Troubleshooting the hoisting system
	TIMELINE 1997		CAPACITY 9000 tph	
	CLIENT Krupp Canada		SHIPLOADER TYPE Rail mounted	







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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