



# SHIPLOADERS PORTFOLIO





Pacific Coast Terminals Shiploader, British Columbia, Canada

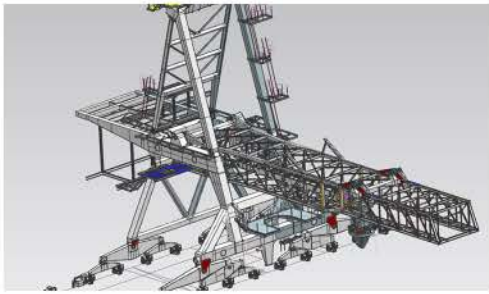


LAXT Shiploader, Los Angeles, California, USA



Hamilton Lake Terminal Shiploader, Hamilton, Ontario, Canada





## The Company

MGA Engineering is a 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.



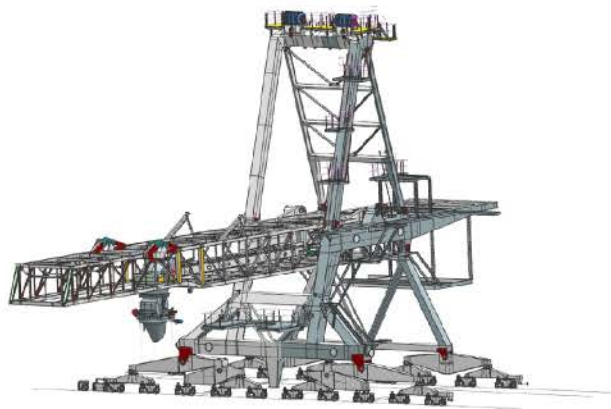


Citgo Aruba Oil Refinery, San Nicolas, Aruba

## 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.







Port of Sept-Île Pointe-Noire Quai No. 35, Sept-Îles, 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 Sulphur	SCOPE OF WORK • Engineer for the sulphur conveying system • Design audit • Engineer for the boom replacement
 TIMELINE 2016 & 1997	 CAPACITY 5000 tph	
 CLIENT Krupp Canada	 SHIPLoader TYPE Radial quadrant	



## 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	





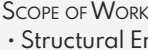






## Westshore Terminals Shiploader

 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 Offloading Mobile Hoppers

 LOCATION Newfoundland, CAN	 MATERIAL Bulk nickel concentrates and bulk limestone	 SCOPE OF WORK • Design audit • Fabrication supervision • Site rehabilitation
 TIMELINE 2011-2012	 CAPACITY 2200 tph	
 CLIENT Sandvik	 SHIPLOADER TYPE Mobile hoppers	



## Petrozuate Shiploader

 LOCATION  
Venezuela

 SHIPLOADER TYPE  
Rail mounted


SCOPE OF WORK  
• Fire damage investigation and troubleshooting


 TIMELINE  
2001

 CLIENT  
Krupp Canada




## Ilo Ship-Unloader

 LOCATION  
Ilo, Peru

 SHIP UNLOADER TYPE  
Rail mounted

SCOPE OF WORK  
• Structural evaluation of seismic damage  
• Structural design criteria - seismic provisions

 TIMELINE  
2001

 CLIENT  
Krupp Canada




## Aimcor Shiploader


 LOCATION  
Texas City, USA


 MATERIAL  
Petroleum Coke

SCOPE OF WORK  
• Repair and rehabilitation  
• Redesign, detailing and fabrication, erection and commissioning supervision

 TIMELINE  
2001 - 2003

 CAPACITY  
2500 tph

 CLIENT  
Oxbow/Aimcor

 SHIPLOADER TYPE  
Radial quadrant




## Hovensha Shiploader


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

 MATERIAL  
Petroleum coke

SCOPE OF WORK  
• Design  
• Fabrication supervision  
• Erection supervision

 TIMELINE  
1998 - 2001

 SHIPLOADER TYPE  
Radial quadrant

 CLIENT  
Krupp Canada










## Citgo Aruba Oil Refinery Shiploader

 LOCATION San Nicolas, Aruba	 MATERIAL Crude oil	SCOPE OF WORK <ul style="list-style-type: none"> <li>• Design</li> <li>• Fabrication supervision</li> <li>• Erection supervision</li> </ul>
 TIMELINE 1997 - 2000	 SHIPLoader TYPE Fixed	
 CLIENT ThyssenKrupp Robins		









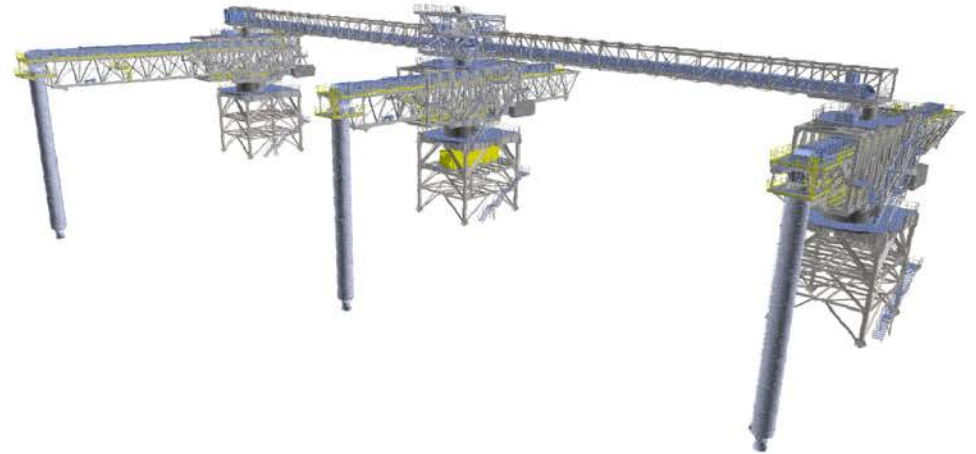
## Collahuasi Shiploader

 LOCATION Iquique, Chile	 MATERIAL Copper concentrates	SCOPE OF WORK <ul style="list-style-type: none"> <li>• Design audit</li> <li>• Fabrication supervision</li> <li>• Site rehabilitation</li> </ul>
 TIMELINE 1996 - 1999	 SHIPLoader TYPE Radial quadrant	
 CLIENT Krupp Canada		



## LAXT Shiploader

 LOCATION California, USA	 MATERIAL Coal & petroleum coke	SCOPE OF WORK <ul style="list-style-type: none"> <li>• Design audit</li> <li>• Troubleshooting the hoisting system</li> </ul>
 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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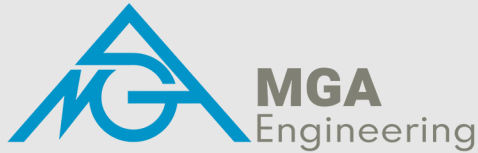
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