















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 needd 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 is can be seen on a global scale.





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





Fraser Grain Terminal Shiploader



B.C., Canada



TIMELINE 2018 - 2020



CLIENT FWS



MATERIAL Grain



CAPACITY 2000 tph



SHIPLOADER TYPE Radial quadrant

SCOPE OF WORK

· Structural and Mechanical Engineer of Record





LOCATION B.C., Canada



TIMELINE 2016 & 1997



CLIENT Krupp Canada



Material Potash



Shiploader Type Radial quadrant

SCOPE OF WORK

- Engineer for the potash conveying system
- · Design audit
- Engineer for the boom replacement



Hamilton Lake Terminal Shiploader



LOCATION Ontario, Canada



TIMELINE 2016



FWS



MATERIAL Grain



CAPACITY 1500 tph



SHIPLOADER TYPE Fixed

SCOPE OF WORK

· Structural Engineer of Record



Canpotex Portland Shiploader



LOCATION Oregon, USA



TIMELINE 2013 - 2014



CLIENT Sandvik



MATERIAL Potash



CAPACITY 6000 tph



SHIPLOADER TYPE Rail mounted

SCOPE OF WORK

· Structural Engineer of Record



Westshore Terminals Shiploader



LOCATION B.C., Canada



TIMELINE 2013 - 2018



CLIENT Sandvik



Bituminous coking coal • Structural Engineer of and thermal coal



CAPACITY 8000 tph



SHIPLOADER TYPE Rail Mounted

SCOPE OF WORK

Record



LOCATION Louisiana, USA



TIMELINE 2013



CLIENT Sandvik



MATERIAL Bituminous and Sub-Bituminous Coal



CAPACITY 6600 to 8300 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 8000 tph



SHIPLOADER TYPE Rail mounted

SCOPE OF WORK

· Structural Engineer of Record for 2 Shiploaders + trippers







LOCATION Newfoundland, CAN



Timeline 2009



CLIENT CLIENT Sandvik

and bulk limestone



SHIPLOADER TYPE Mobile hoppers

- Fabrication supervision
- · Site rehabilitation



Petrozuate Shiploader



LOCATION Venezuela

TIMELINE

2001

CLIENT

Krupp Canada



SHIPLOADER TYPE Rail mounted

SCOPE OF WORK

· Fire damage investigation and troubleshooting



llo Ship-Unloader



LOCATION llo, Peru

TIMELINE 2001

CLIENT
Krupp Canada CLIENT



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



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



San Nicolas, Aruba

TIMELINE 1997 - 2000

CLIENT
ThyssenKrupp Robins

CLIENT



Material Crude oil



SHIPLOADER TYPE Fixed

SCOPE OF WORK

- Design
- Fabrication supervision
- Erection supervision



Collahuasi Shiploader



LOCATION lquique, Chile



TIMELINE 1996 - 1999



CLIENT Krupp Canada



MATERIAL Copper concentrates



SCOPE OF WORK

- · Design audit
- Fabrication supervision Site rehabilitation



LAXT Shiploader



LOCATION California, USA



TIMELINE 1997



CLIENT CLIENT
Krupp Canada



MATERIAL Coal & petroleum coke Design audit



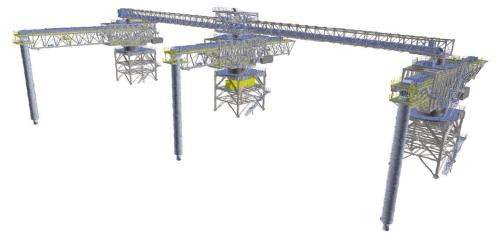
CAPACITY 9000 tph



SHIPLOADER TYPE Rail mounted

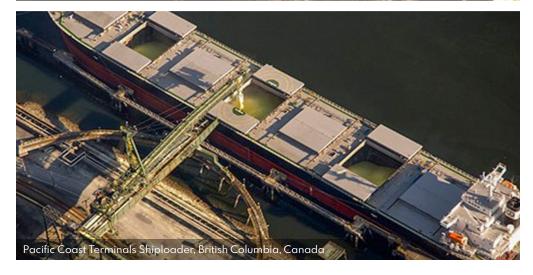
SCOPE OF WORK

- Troubleshooting the hoisting system









Contact

Calgary Office [Head Office]

MGA Engineering Inc.
Suite 2800 - 817 15th Avenue SW
Calgary, Alberta, Canada T2R OH8
Email: info@mga-ind.com
Telephone: +1 (403) 249-9870



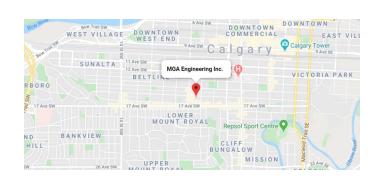
Maged Ghali, P.Eng. CEO mghali@mga-ind.com D: +1 (403) 244-9812 C: +1 (403) 615-3759



Sherief S.S. Sakla, Ph.D., P.E., P.Eng. Executive Vice President sherief.sakla@mga-ind.com D: +1 (587) 393-4147 C: +1 (201) 355-6061



Steven J. Keays, M.A.Sc., P.Eng. Vice President steven.keays@mga-ind.com D: +1 (587) 393-6690 C: +1 (587) 433-1504





CANADA

Alberta [Head Office] Suite 2800 - 817 15th Avenue SW Calgary, Alberta T2R 0H8 Telephone: +1 (403) 249-9870

British Columbia Unit 202 - 8678 Greenall Avenue Burnaby, British Columbia V5J 3M6

Québec 2828 Boulevard Laurier, Suite 734, Tour 1 Norton-Rose Québec City, Québec GIV 0B9 Telephone: +1 (587) 393-6690

USA

Florida MGA USA ENGINEERS LLC Suite #600, Office 607, 4830 West Kennedy Boulevard, One Urban Center, Tampa, Florida, USA 33716 Telephone: 1 (727) 290-2500

New Jersey MGA USA ENGINEERS LLC 1 American Dream Way East Rutherford, New Jersey, USA 07073

INTERNATIONAL

Egypt
MGA Technology
28 Samir Mokhtar St.
9th & 10th Floor Ard El Golf
Heliopolis, Cairo, Egypt
Telephone: +2 02 2418-4933

Ecuador The Scot Group (MGA Agent) Ave. Pedro Menendez Gilbert Puerto Santa Ana , Edificio The Point, Piso 26, .Ofc. 2611 Guayaquil, Ecuador

Telephone: +593 9 6877 9208

Brazil

JJ Infraestrutura e Engenharia Ltda-ME (MGA Agent) Avenida Mato Grosso 676, Anápoli Goiás, Zip Code 75.113-170, Brazil Telephone: +55 11 96630-0112

Mexico Mobina SA de CV (MGA Agent) Avenu de Los Deporters, numero 100 Fracccionamiento Tellerias Mazatlan, Sinaloa, CP 82017, Mexico Telephone: +52 669 154 9464