

CONVEYORS PORTFOLIO



MGA
Engineering
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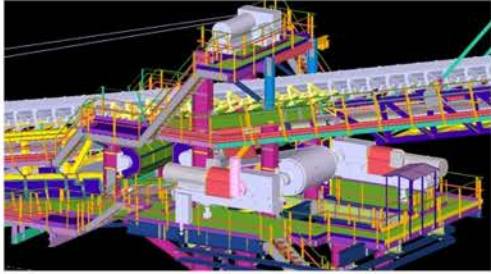
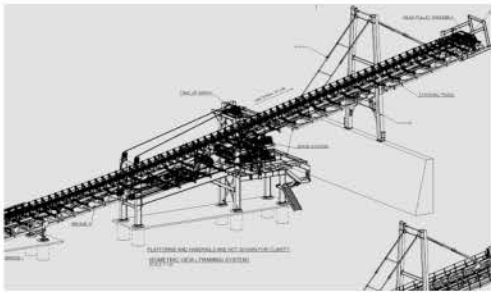
Kearl Supplemental Crusher Project (KSC), Alberta, Canada



Bloom Lake Stacker Conveyor, Quebec, Canada



Oyu Tolgoi Mine, Mongolia



Bloom Lake Stacker Conveyor, Quebec, 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 occupies a unique niche in the industry, specializing in the design of conveyors for diverse systems worldwide, with a particular focus on conveyor systems tailored for bulk materials handling in mining and port facilities. Our capabilities span the design and engineering of a wide range of structural and mechanical components, showcasing our proficiency in delivering customized solutions for efficient and reliable material transportation. This expertise encompasses high-capacity conveyors, overland conveyors, and elevated conveyors, underscoring our dedication to providing comprehensive solutions to meet various material handling needs.

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.

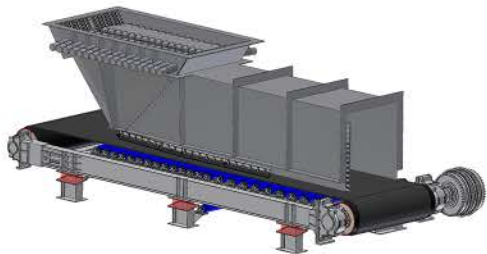




Impala Burnside Terminal Wharf Conveyor, Louisiana, USA

All Conveyor Systems

MGA Engineering boasts extensive expertise and experience in designing high-capacity conveyors, overland conveyors, and elevated conveyors for various industries worldwide. High-capacity conveyors are designed to handle large volumes of material efficiently, often used in mining and bulk material handling operations. Overland conveyors, on the other hand, are used to transport bulk materials over long distances, typically over challenging terrain or across environmentally sensitive areas. They are known for their cost-effectiveness and environmental friendliness compared to traditional truck haulage. Elevated conveyors are elevated off the ground to minimize the footprint and provide clearance for vehicles or other structures underneath. MGA's design approach ensures these conveyors are not only efficient and reliable but also meet stringent safety and environmental standards, making them ideal for demanding industrial applications.



Conveyor Project Showcase



Pierina Overland Conveyor, Peru





Barrick Pueblo Viejo PAG Waste Project

 LOCATION Dominican Republic	 MATERIAL PAG waste	SCOPE OF WORK <ul style="list-style-type: none"> • Design of the proposed 6 km OLC conveyor routing • Feasibility study, including detailed CAPEX and OPEX
 TIMELINE 2023-2024	 DESIGN CAPACITY 6,900 MTPH	
 OWNER Barrick Gold	 CONVEYOR TYPE Overland	



Kearl Supplementary Crushers ('KSC') Project

 LOCATION Alberta, Canada	 MATERIAL Oil sands	SCOPE OF WORK <ul style="list-style-type: none"> • Structural Engineer of Record for the conveyor and crusher • V-bent design & support • Converting to the European design to NA standards
 TIMELINE 2018-2020	 DESIGN CAPACITY 14,000 MTPH	
 OWNER Imperial Oil	 CONVEYOR TYPE Elevated	









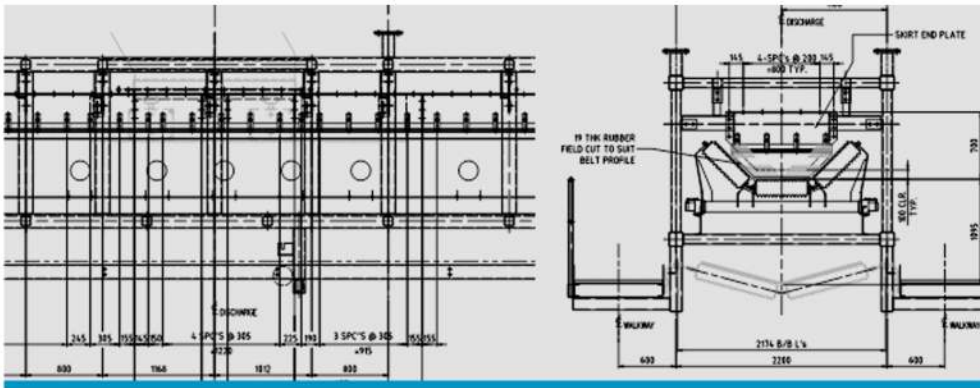
CST Coal Mine Conveyor Assessment

 LOCATION Alberta, Canada	 MATERIAL Coal	SCOPE OF WORK <ul style="list-style-type: none"> • Assessment of the damaged conveyor bents. • Develop a plan to mitigate further damage and repair
 TIMELINE 2021-2022	 DESIGN CAPACITY 1,000 MTPH	
 OWNER CST Coal Canada	 CONVEYOR TYPE Elevated	






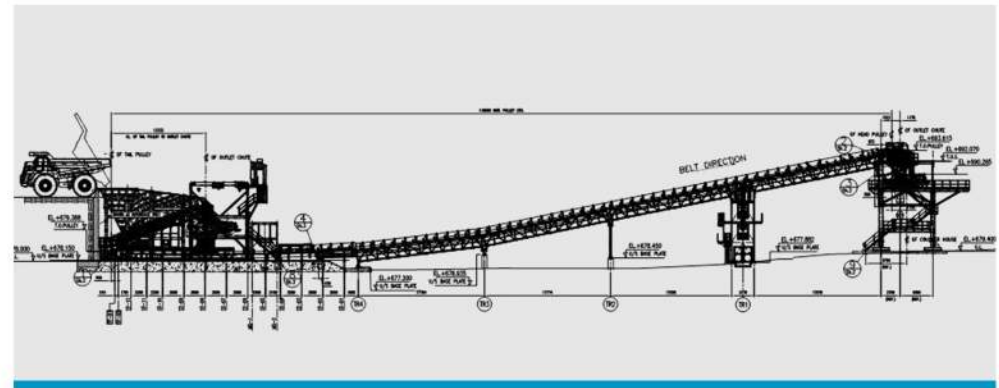
Pacific Coast Terminals Potash Conveyor System

 LOCATION B.C., Canada	 MATERIAL Potash	SCOPE OF WORK <ul style="list-style-type: none"> • Structural Engineer of Record • Audit of the structural design of nine conveyor systems, five transfer towers, chutes and buildings
 TIMELINE 2015-2017	 DESIGN CAPACITY 5,000 MTPH	
 OWNER Pacific Coast Terminals Co. Ltd.	 CONVEYOR TYPE Pipe	



MFT Tailings Centrifuge F/S Plant Conveyor

- | | | |
|--|---|---|
|  LOCATION
Alberta, Canada |  MATERIAL
MFT Cake | SCOPE OF WORK
• Structural engineering support |
|  TIMELINE
2013-2014 |  DESIGN CAPACITY
2,660 MTPH | |
|  OWNER
Syncrude |  CONVEYOR TYPE
Elevated | |



Millennium Mine Expansion Conveyor

- | | | |
|---|---|---|
|  LOCATION
Alberta, Canada |  MATERIAL
Oil sands | SCOPE OF WORK
• Structural Engineer of Record for the 97 m transfer conveyor with magnetic separator |
|  TIMELINE
2013 |  DESIGN CAPACITY
1,200 MTPH | |
|  OWNER
Suncor Energy |  CONVEYOR TYPE
Elevated | |



Port of Sept-Îles Pointe-Noire Quai No. 35

- | | | |
|---|---|--|
|  LOCATION
Quebec, Canada |  MATERIAL
Iron ore | SCOPE OF WORK
• Structural and Mechanical Engineer of Record for two rail mounted shiploaders with trippers and wharf conveyors |
|  TIMELINE
2012-2014 |  DESIGN CAPACITY
8,000 MTPH | |
|  OWNER
Port of Sept-Îles |  CONVEYOR TYPE
Wharf | |



Minera Antucoya Overland Conveyor

- | | | |
|--|---|--|
|  LOCATION
Chile |  MATERIAL
Copper ore | SCOPE OF WORK
• Structural and Mechanical Engineer of Record for two conveyors
• Detailed design, drawings, construction support |
|  TIMELINE
2012-2014 |  DESIGN CAPACITY
6,000-9,000 MTPH | |
|  OWNER
Antofagasta PLC |  CONVEYOR TYPE
Overland | |



Impala Terminals Burnside Wharf Conveyor

 LOCATION Louisiana, USA	 MATERIAL Coal	SCOPE OF WORK <ul style="list-style-type: none"> • Engineer of Record for the structural design and analysis • Integration of mechanical system
 TIMELINE 2011-2013	 DESIGN CAPACITY 6,600-8,300 MTPH	
 OWNER Impala Terminals Burnside, LLC.	 CONVEYOR TYPE Wharf	









Oyu Tolgoi Mine Conveyor

 LOCATION Alberta, Canada	 MATERIAL Copper ore	SCOPE OF WORK <ul style="list-style-type: none"> • Foundation design • Technical engineering support • Drive support assessment • Ore Tripper design trouble shooting
 TIMELINE 2009-2014	 DESIGN CAPACITY 7,200 MTPH	
 OWNER Rio Tinto Group	 CONVEYOR TYPE Elevated	



Bloom Lake Stacker Conveyor

 LOCATION Quebec, Canada	 MATERIAL Crushed iron ore	SCOPE OF WORK <ul style="list-style-type: none"> • Engineer of Record for the structural design and analysis for the 80 m long conveyer with 16 m lift
 TIMELINE 2011-2012	 DESIGN CAPACITY 15,000 MTPH	
 OWNER Quebec Iron Ore Inc.	 CONVEYOR TYPE Stacker	



Los Pelambres Overland Conveyor System


 LOCATION Chile	 MATERIAL Copper ore	SCOPE OF WORK <ul style="list-style-type: none"> • Structural Engineer of Record for 12.7 km long overland conveyor system
 TIMELINE 2008, 2000	 DESIGN CAPACITY 8,700 MTPH	
 OWNER Minera Los Pelambres	 CONVEYOR TYPE Overland	



Ujina-Rosario Transition Overland Conveyor

 LOCATION
Chile

 TIMELINE
2003-2005

 OWNER
Mina Doña Ines de
Collahuasi

 MATERIAL
Copper ore


 DESIGN CAPACITY
8,500 MTPH

 CONVEYOR TYPE
Overland

SCOPE OF WORK
• Structural Engineer of
Record for the 3.2 km
overland conveyor



Pierina Mine Overland Conveyor

 LOCATION
Peru

 TIMELINE
2000

 OWNER
Barrick Gold

 MATERIAL
Gold ore

 DESIGN CAPACITY
2,000 MTPH

 CONVEYOR TYPE
Overland

SCOPE OF WORK
• Structural Engineer of
Record for the 2.4 km
overland conveyor

Ujina-Rosario Transition Overland Conveyor, Chile





Los Pelambres Overland Conveyor System, Chile



Kearl Supplementary Crushers ('KSC') Project, Alberta, Canada



Impala Terminals Burnside Wharf Conveyor, Louisiana, USA

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