

THE COMPANY

MGA Engineering Inc. is a master designer of structural and mechanical systems utilized across the globe in the marine, mining, infrastructure, and building sectors. Founded in 1996, the firm is headquartered in Calgary, Canada, and operates regional offices in Canada, USA, and Egypt. Throughout the decades, MGA has lent its expertise to asset owners & operators, and equipment manufacturers. MGA's portfolio of projects spans the globe, with a historical emphasis on the Americas, and a new focus on emerging markets in Africa, South East Asia, and Oceania.

THE BUSINESS GROUPS

The Mining and Port Groups focus on bulk material handling equipment, surface facilities, and service infrastructure.

The Building Group concentrates on industrial facilities, terminals, commercial & multimodal buildings.

The Infrastructure Group caters to rail, roads, bridges, civil works & utilities, water and sanitation projects.

THE EQUIPMENT

Bulk transfer

- Transport crawlers
- Single-boom spreaders
- Stacker and reclaimers
- Mobile stacking bridges
- Bucket wheel reclaimers
- Ship loaders & unloaders
- Grab type ship unloader
- Bucket chain /wheel excavators
- Scraper, drum, and portal reclaimers
- Portal & bridge-type scraper reclaimers

Bulk treatment

- Granulators
- Crushing plants
- Hard rock sizers
- Belt linear screens
- Slurries plant and tailings
- Vacuum belt filters for dewatering
- Primary separation & flotation cells
- Roll crushers and double roll crushers
- Breakers and high-pressure grinding rolls

Water and Sanitation

- Intakes & outfalls
- Desalination plants
- Pump and lift stations
- Force mains & siphons
- Storage and reservoirs
- Drainage and stormwater
- Pipelines and distribution
- Metering and lift stations
- Sewage collection systems
- Treatment (potable, grey and waste)

Bulk transport

- Apron feeders
- Belt feeders
- Belt conveyors
- Pipe conveyors
- Tube conveyors
- Steel belt conveyors
- Mobile conveyor bridges
- In-plant conveyor systems
- Mobile transfer conveyors

Facilities and buildings

- Pipe racks
- Storage pits
- Process piping
- Steel structures
- Tanks and reservoirs
- Wagon / truck loading
- Wagon unloading / trippers
- Rapid train load-out stations
- Pressure vessels and bullets

Infrastructure

- Port facilities
- Roads and bridges
- Grain handling facilities
- Foundations (buildings)
- Foundations (equipment)
- Aquatic and recreation facilities
- Pedestrian bridges and walkways



EXPERTISE

Structural Engineering

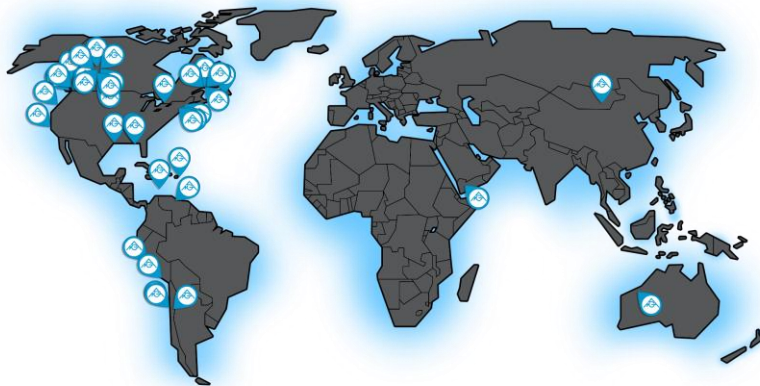
- Welding
- Stability studies
- Dynamic analysis
- Large-span structures
- Metal fatigue assessment
- Design of plate structures
- Finite Element Analysis (FEA)
- Design for extreme conditions
- High and low temperature design

Mechanical Engineering

- Machine design
- Dynamic loading
- ASME pressure vessels
- API 620/650 storage tanks
- API 579 fit-for-purpose analyses
- Process plant pipe stress analysis
- Piping design and equipment layout
- TC44 / CSA B626 portable tank design

A GLOBAL FOOTPRINT

The company's head office in Calgary (Canada) entails corporate, finance, lead engineering and project management functions. Design and engineering reside principally in the company's Cairo (Egypt) office. Regional offices are located in Quebec (Canada), New Jersey and Florida (United States), with plans for expansion across Canada (Toronto and Vancouver) as well as into Brazil and Ecuador by the end of 2020.

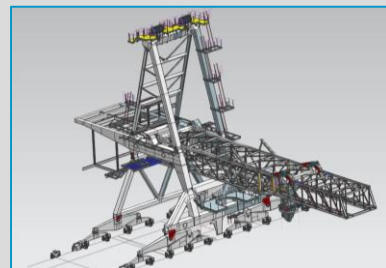
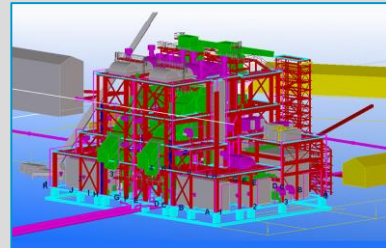
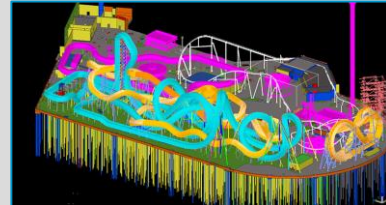
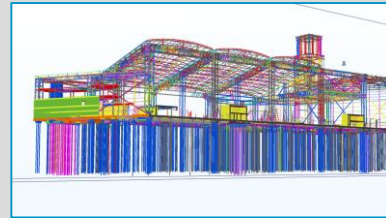


Building Engineering

- Building layouts
- Civil infrastructures
- Steel superstructures
- Static and mobile roofs
- Deep underground utilities
- Vibration & seismic systems
- Piping, HVAC and electrical layouts
- Foundations, concrete and masonry

Asset development

- Code compliance
- Project management
- Modularization studies
- Standard development
- Estimate development
- Construction oversight
- Procurement and logistics
- DBM, FEED and Detail Design
- Concept and feasibility studies



CONTACT

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