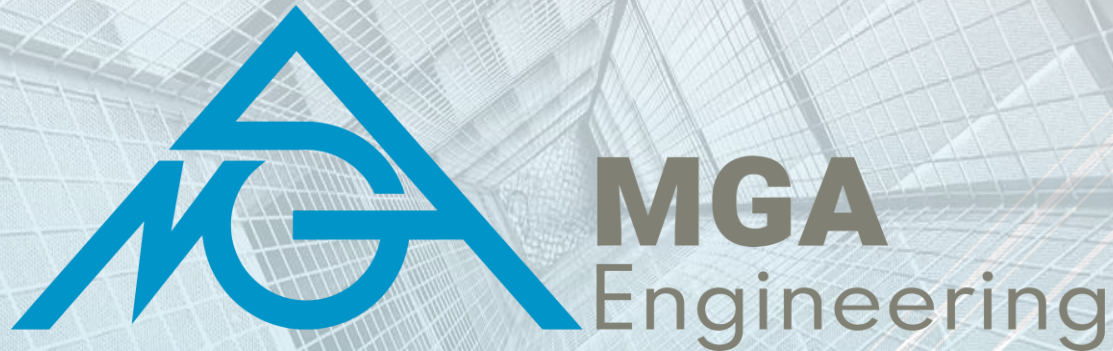


# CONVEYORS & MATERIALS HANDLING



**MGA Engineering Inc.**  
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Calgary, Alberta, Canada T2R 0H8  
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**Contact:**  
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# ABOUT MGA

MGA Engineering Inc. is a master designer of structural and mechanical systems, utilized across the globe in the marine, mining, energy, 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 owners, operators and fabricators of large-scale bulk materials handling equipment such as conveyors, ship loaders, stackers/reclaimers, crushers, storage tanks, vessels and transfer stations.

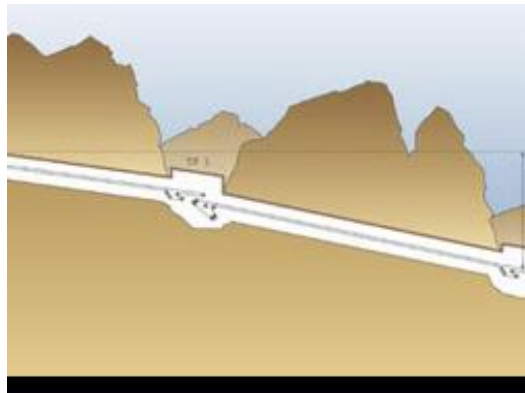
# CONTENTS

- ▶ Conveyors
- ▶ Material handling – oil sands
- ▶ Material handling – Mines
- ▶ Special structures
- ▶ Field Support and troubleshooting

MGA has worked with all major Original Equipment Manufactures (OEM) over the decades, including Takraf, Thyssen Krupp, PHB, FAM, MWS, FL Schmidt, Shinhan, and Sandvik.

CONVEYORS

# LOS PELAMBRES CHILE

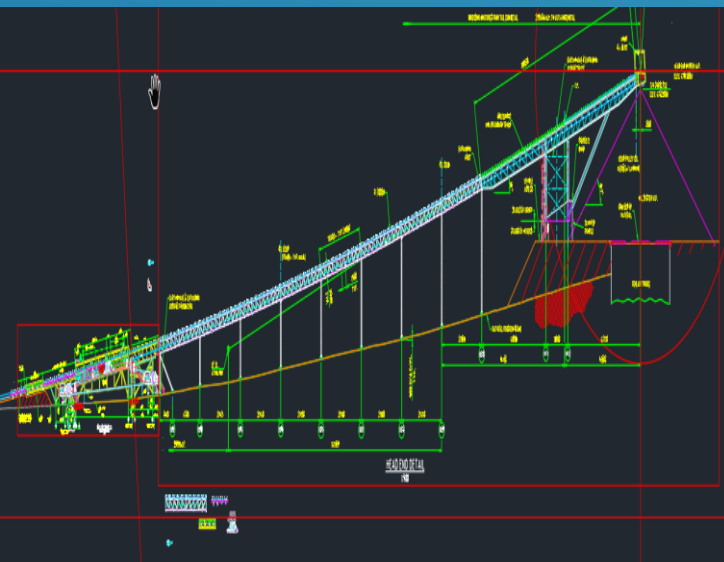
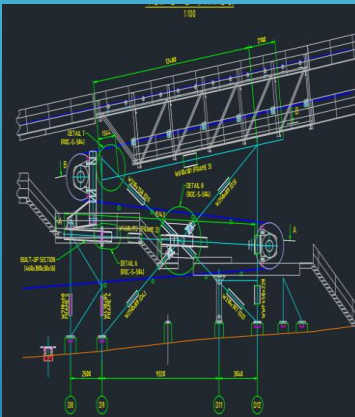
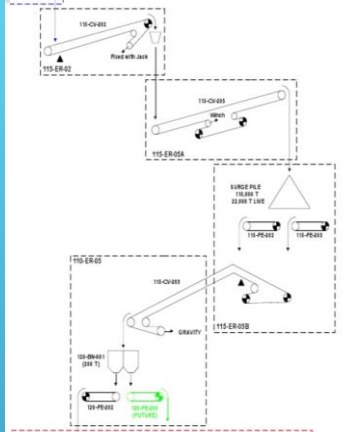


System Length - 12,700 m  
 Longest Conveyor - 5,630 m  
 Drop of System - 1,300 m  
 Design Capacity - 8,700 mtph  
 Belt Speed - 6.0 m/s  
 Conveyor Width - 1,800 mm (72")  
 Belt Rating - ST 7,800  
 Idler Class - CEMA E6  
 Installed Motor Power - 10 x 2,500 kW  
 Brake System - 13 low speed discs with 2500mm diameter  
 Motor Control - Variable Frequency Drives

Conveyor Length - 2,400 m  
Lift of System - 250 m  
Design Capacity - 2,000 mtp/h  
Belt Speed - 3.9 m/sec  
Conveyor Width - 54"  
Belt Rating - ST 4,000  
Idler Class - CEMA D6  
Installed Motor Power - 2 x 1,250 kW  
Motor Control - Variable Frequency Drives



# PIERINA OVERLAND CONVEYOR-PERU



- ▶ Copper Ore
- ▶ Capacity: 8500 tph
- ▶ Belt: 72", ST2000/ST6300
- ▶ Power operating (kW):  
1500/7865/-6500

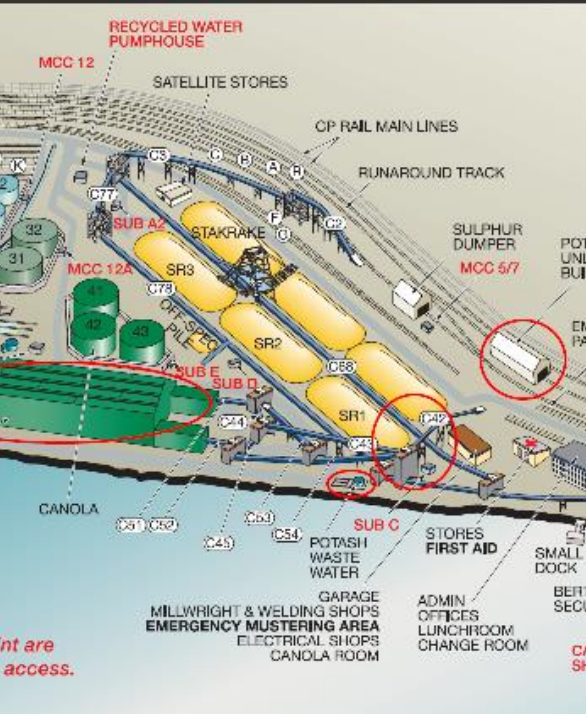
# UJINA ROSARIO TRANSITION PROJECT COLLAHAUSI-CHILE



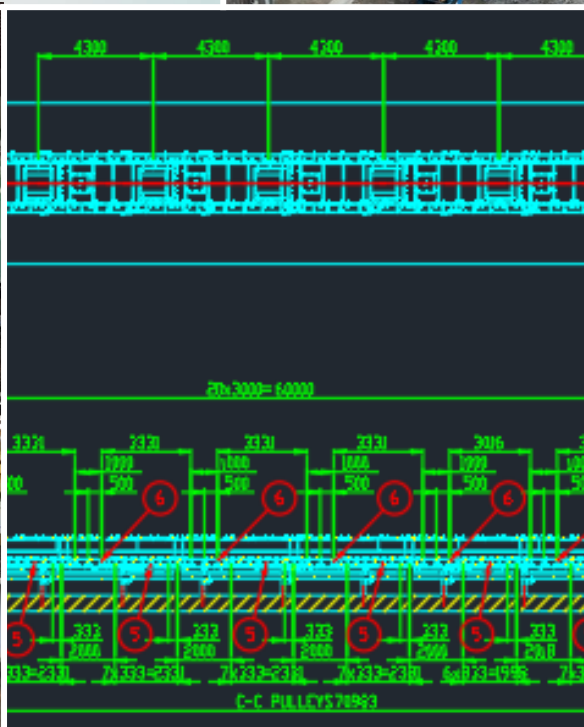
- ▶ Technical support for the overland conveyor
- ▶ Tripper design trouble shooting
- ▶ Drive design audits



# OYU TOLGOI MINE MONGOLIA SANDVIK



- ▶ Engineers of Record for the Structural and Mechanical systems
- ▶ 4,000 mtpH
- ▶ 1829mm belt



# PACIFIC COAST TERMINALS/KS POTASH CONVEYING SYSTEM-SANDVIK

9/25



# SEPT-ILES HARBOUR CONVEYORS POINT NOIRE QUAI NO 35

- ▶ Materials: Iron ore
- ▶ Capacity: 8,000 tph
- ▶ Speed: 3m/s
- ▶ Length: 371 and 225m

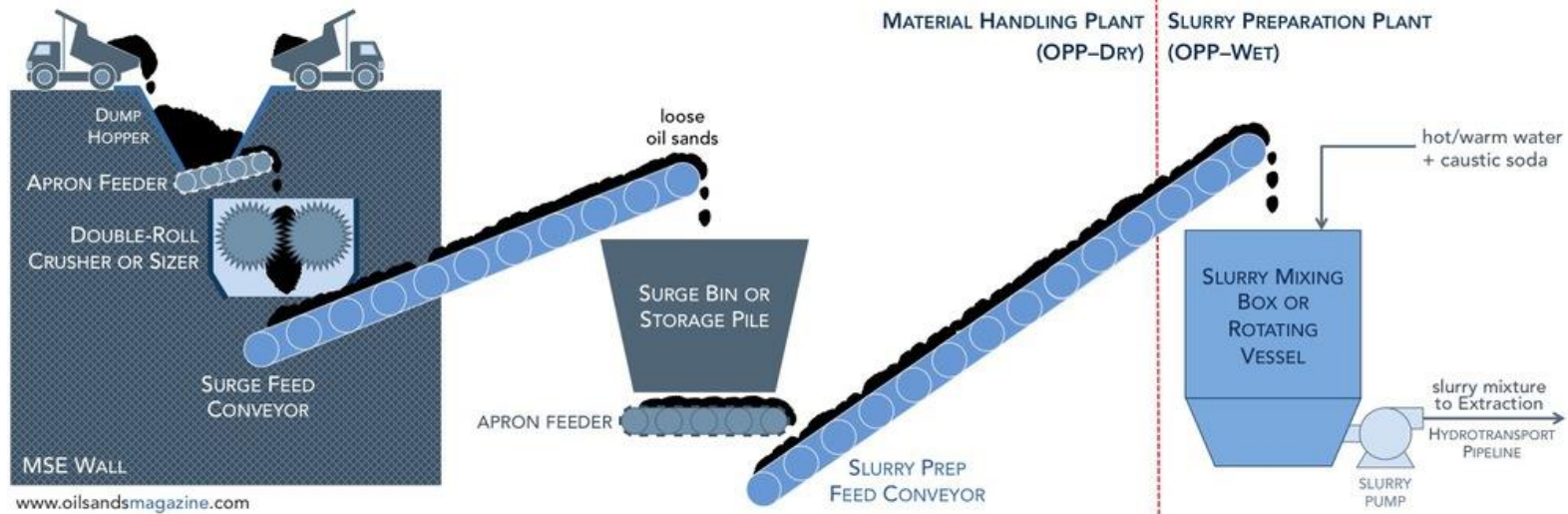


# MINING IN SOUTH AMERICA BULK MATERIAL HANDLING

# MATERIALS HANDLING OILSANDS

A series of several parallel white lines of varying lengths, slanted diagonally upwards from left to right, located in the bottom right corner of the slide.

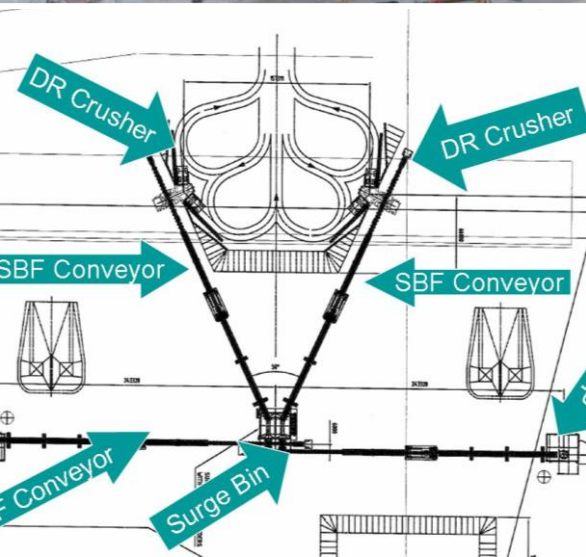
12/25

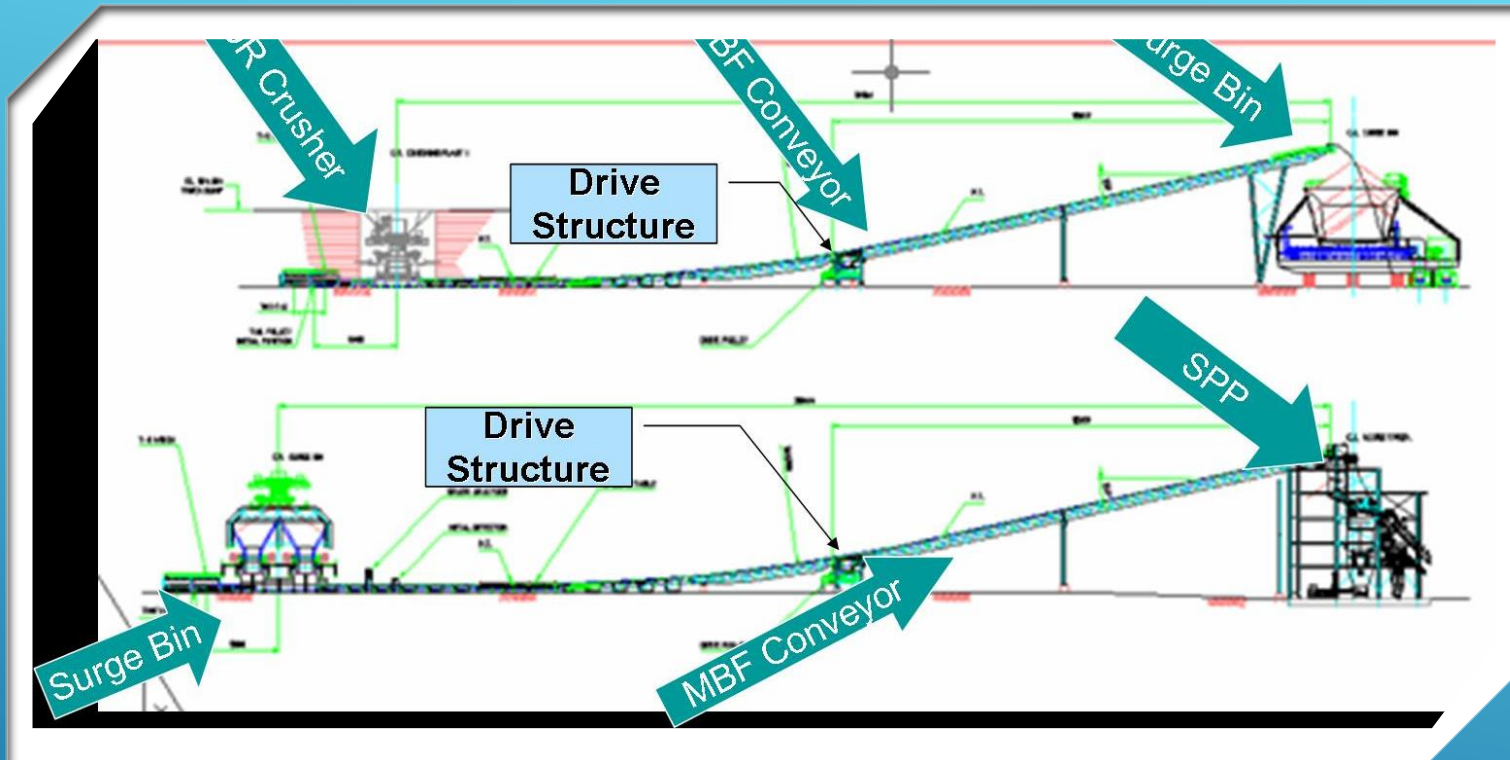


# INSTALLATION LAYOUT

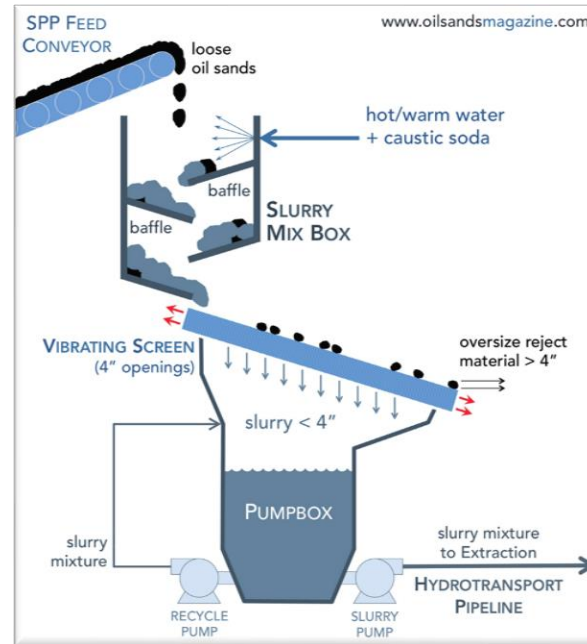


# SURGE FACILITY CNRL HORIZON





# MATERIAL MOVEMENT CNRL HORIZON



# SLURRY PUMP BOXES

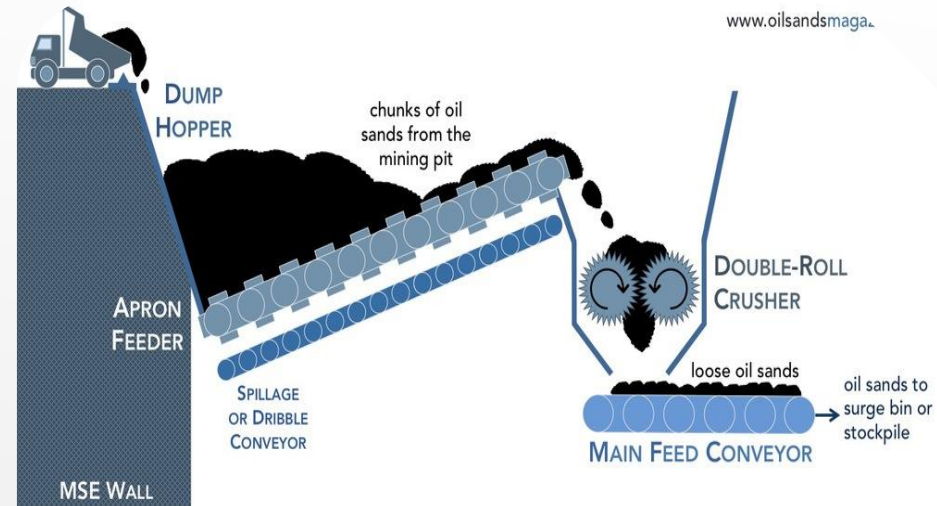
# PRIMARY SEPARATION CELLS

# MATERIALS HANDLING MINES

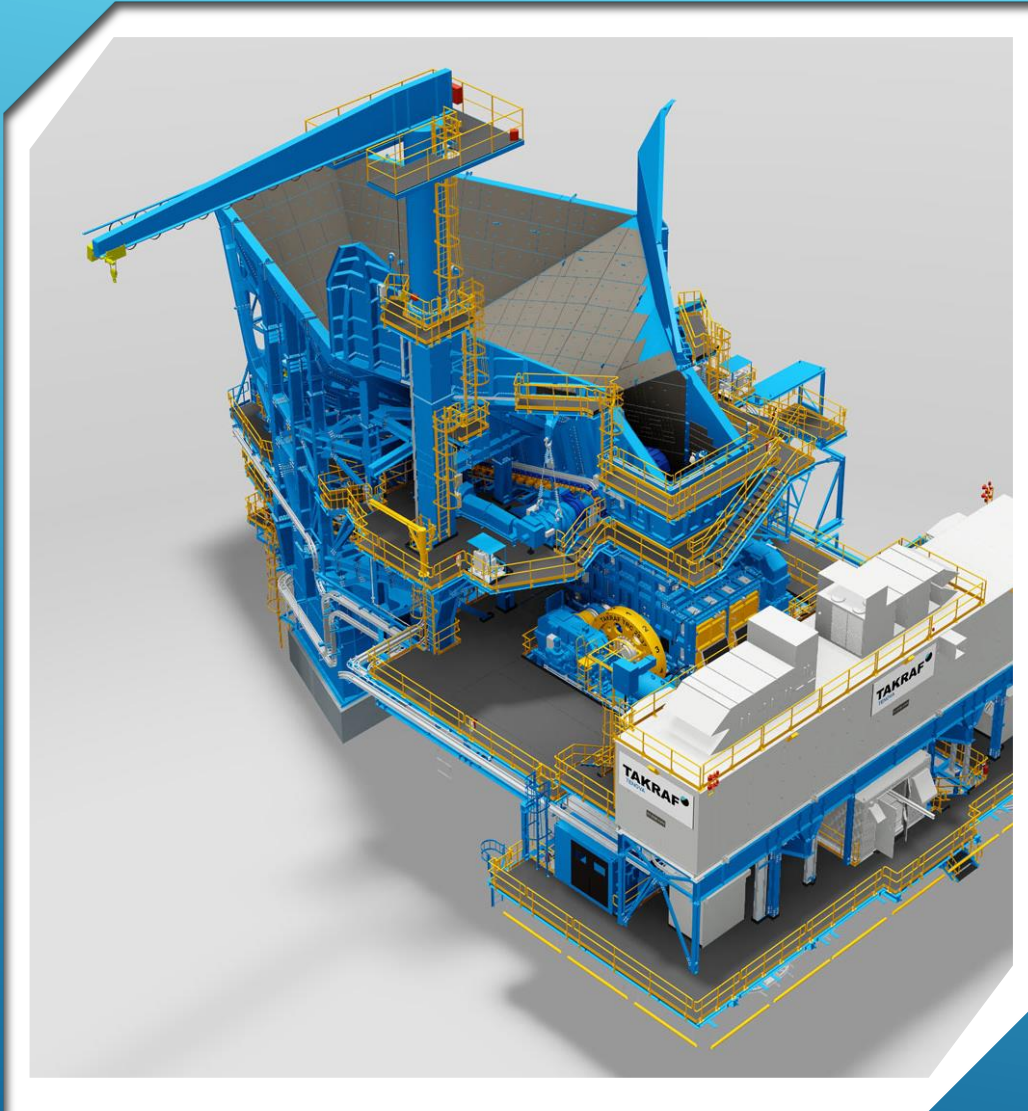


- ▶ SHOP DRAWING
- ▶ PRODUCTION
- ▶ FABRICATION
- ▶ SUPERVISION

# SURGE BINS



# CRUSHING PLANTS



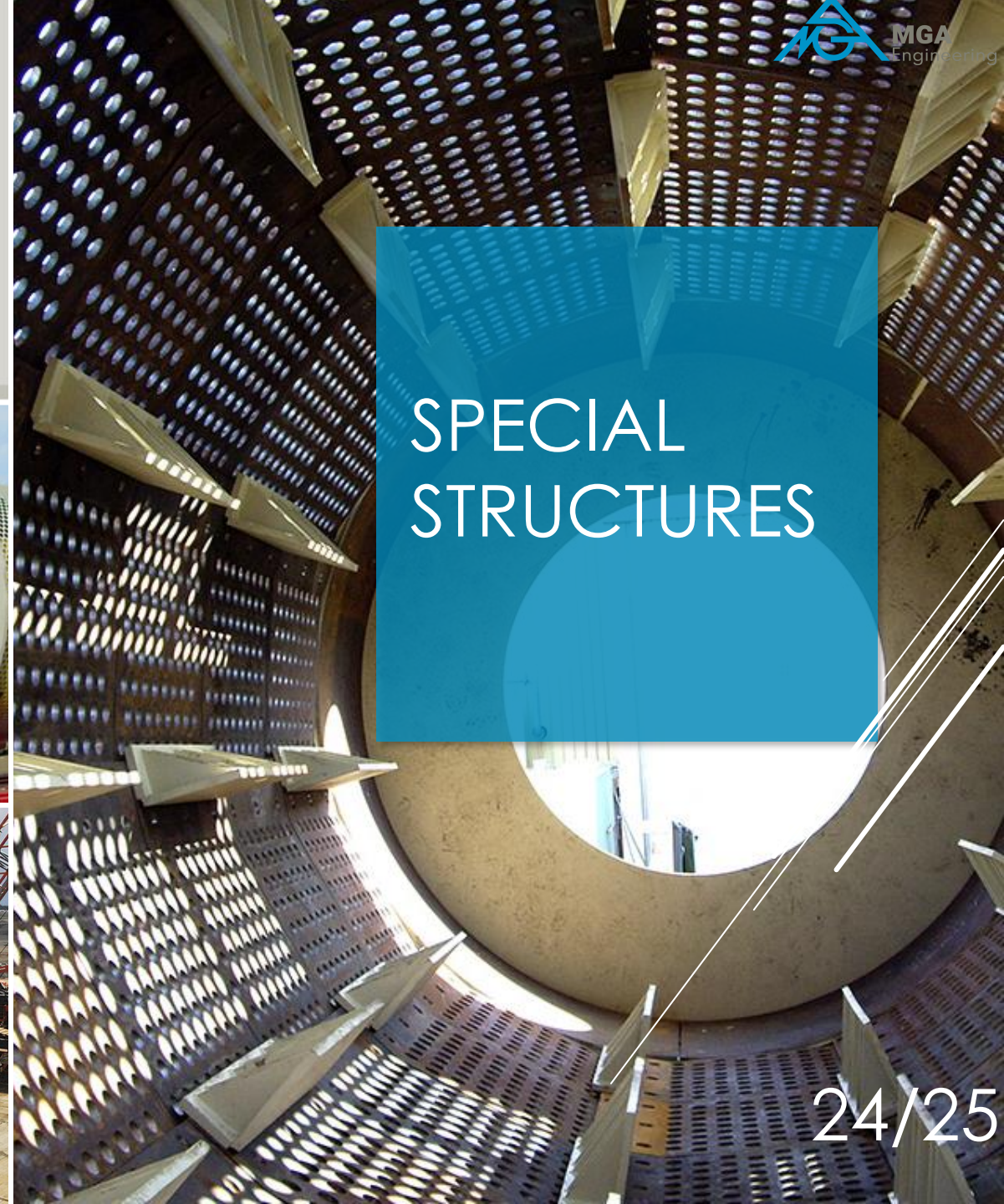
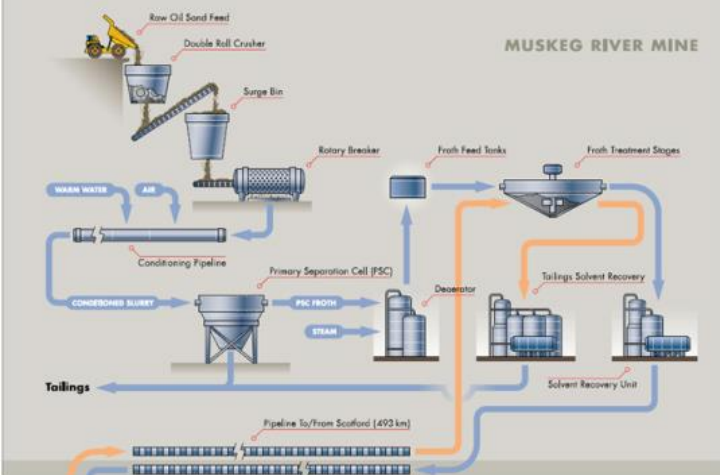
# HOPPERS



# HOPPER INSTALLATION



# MATURE FINE TAILINGS CENTRIFUGING PLANT



# SPECIAL STRUCTURES

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