



YOUR BUSINESS PARTNER
IN MINING AND PROCESS SOLUTIONS

SUCCESSFUL PROJECT HIGHLIGHTS - 2023

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MANHATTAN VOTED AS ONE OF SOUTH AFRICA'S TOP MINING SERVICE PROVIDERS

4 years running

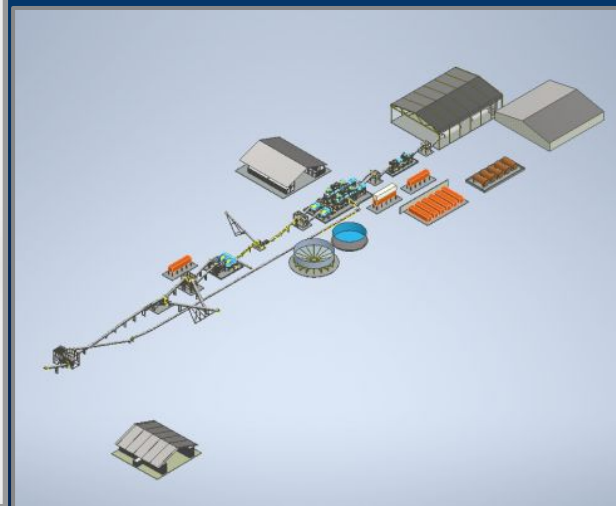


YOUR BUSINESS PARTNER IN MINING AND PROCESS SOLUTIONS

TWO-STAGE 150 TPH LITHIUM DMS PLANT - 600 TPH Front End, Drying and packing stations, MCC units, Turnkey Design & Supply from ROM to Packaged Final Product



Concept Development, Laboratory Testwork. Design and Manufacture. Logistics, Installation and Commissioning.



Civil and Geotechnical Design
Project Management
Electrical Design and Installation

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25 000TPM TURNKEY GOLD PLANT – ZIMBABWE



Turnkey Design
Procurement
Engineering
Shipment, Installation & Commissioning

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25 000TPM TURNKEY GOLD PLANT – ETHIOPIA



Turnkey Design
Procurement, Engineering, Shipment
Installation & Commissioning

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TURNKEY PLATINUM PROCESSING PLANTS



- Assessed and audited by Manhattan metallurgical and design team
- Manhattan provides services in test work, design, construction and implementation of projects in the PGM sector, with process plants customised specifically to the ore-body
- Manhattan also implements plant modifications to increase recovery and throughput, design and construction of mining infrastructure and electrical and control systems to optimise process and operations

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TURNKEY COAL PLANTS – DESIGN REFURBISH OR MANUFACTURE NEW



Assessed and audited by Manhattan processing and design team

- 50tph Wash Plant - 100tph Drum Plant - 200tph Wash Plant
- Bradford Breaker Crushing Plants
- Drum Separator Plants
- HMS – Jigging – Spiral plants

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ALLUVIAL GOLD PLANT – PLANT AUDIT, SUDAN



Inspected
Secured samples for metallurgical tests
Presented proposal and recommendations on process improvements

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16 X 30 FT SAG MILL – URANIUM, SOUTH AFRICA



Refurbishment
Logistics, Installation and Commissioning

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TANTALITE PLANT – MOZAMBIQUE



Dismantle
Design, Refurbish and Manufacture
Re-engineer
Project Management
Logistics, Installation and Commissioning

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4MVA STANDBY POWER PLANT - GOLD, SOUTH AFRICA

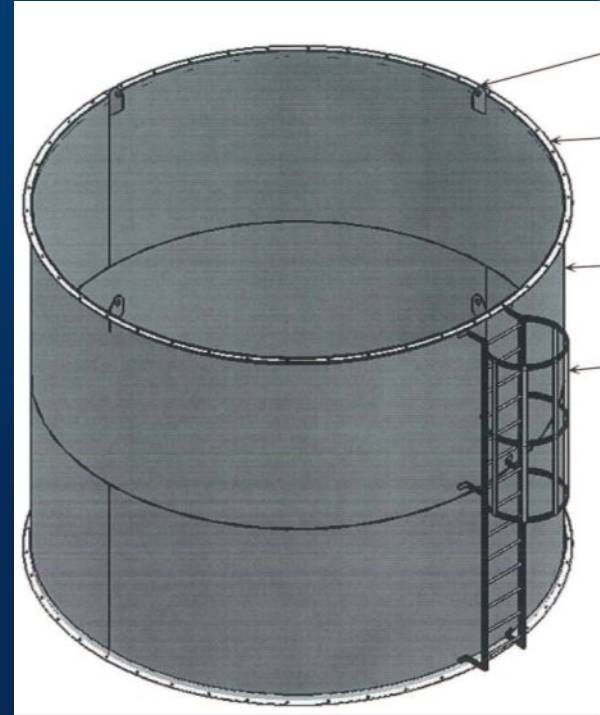
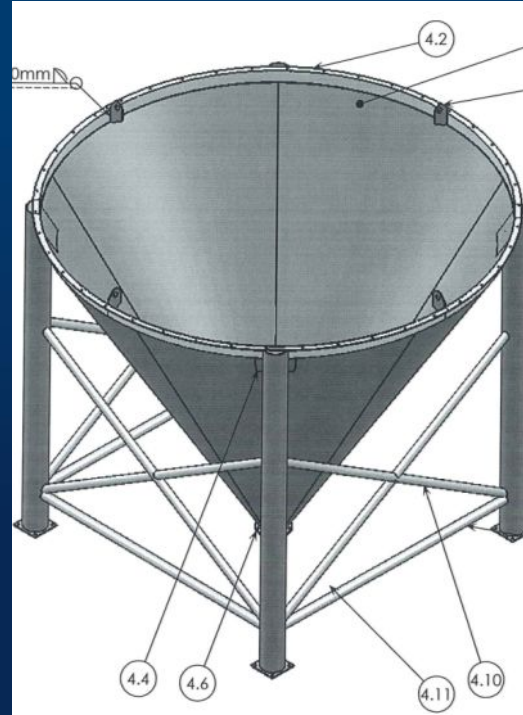
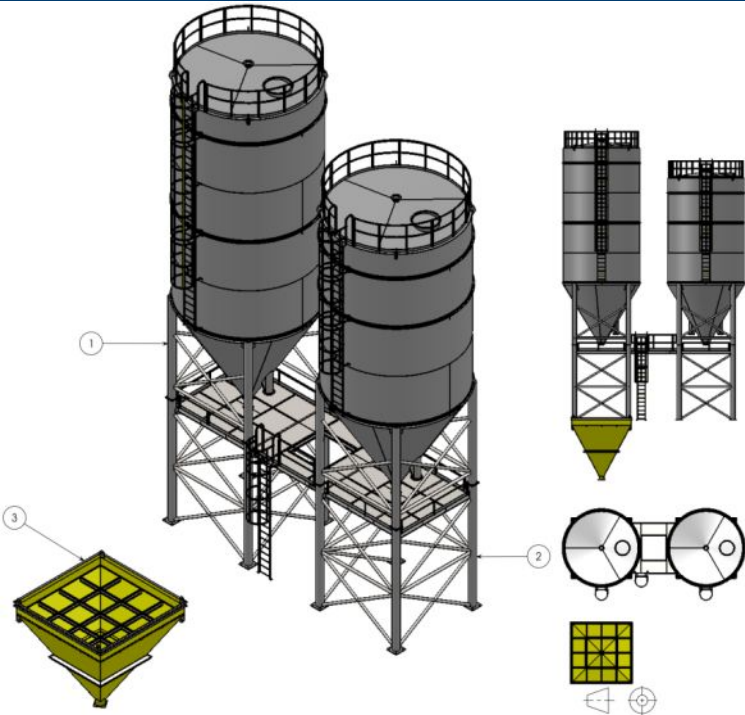


Turnkey Supply
Project Managed
Manufactured
Installed & Commissioned

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SILOS - SODIUM SULPHATE & AMMONIUM SULPHATE, SOUTH AFRICA



Design and Manufacture
Project Management
Logistics, Installation and Commissioning

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9x12 FT BALL MILL - CHROME, ZIMBABWE



Re engineering / Refurbishment of Ball Mill
Liner Installation
Logistics, Installation and Commissioning

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UNDERGROUND GOLD MINE – SOUTH AFRICA



UNDERGROUND MINING , PROCESS PLANT, HEAP LEACH AND GEOLOGY MANAGEMENT

Feasibility Study

Resource upgrade, and detailed plant design for a 300 000 tpa turnkey operation.

Underground development – shafts refurbishment, infrastructure, Mining machinery acquisition, Process Plant construction, TSF construction and commissioning.

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CRUSHING PLANT - DIAMONDS, ZIMBABWE



Design and Manufacture
Project Management
Logistics, Installation and Commissioning

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DESANDING PLANT – BEACH SAND RECLAMATION, MOZAMBIQUE



Design
Engineering and Manufacturing
Supply

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VARUNO DIAMOND MINE – SOUTH AFRICA



3 600 000 tpa Diamond Operation

6 x 40t ADT's, 6 x CAT 966 Front End Loaders, 1 x 475 Komatsu Dozer, 1 x D9 Cat Dozer, 1 x D10 Cat Dozer, 3 x Excavators (30-85t), 3 x Trommel – Spyder / Warrior Mobile In-Pit Screens, with mobile de-sanders

6 x Rotary Pan Plants

30 tph Dense Medium Separation Plant

Modular X-Ray Recovery Plant

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LYCIUM DIAMOND MINE – SOUTH AFRICA



1,800,000 tpa Process Plant and Mining Operation Development

Trommel Screens, De-sander Units, Mobile In-Pit Screens

Rotary Pan Plants

4 x 40t ADT's, 4 x 966 Front End Loaders, 2 x D9 Dozers, 1 x 330D Excavator

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OCTO DIAMOND MINE – SOUTH AFRICA



4 800 000 tpa Process Plant and Mining Operation Development
Trommel Screens, De-sander Units, Mobile In-Pit Screens
13 Rotary Pan Plants
7 x 40t ADT's, 7 x 966 Front End Loaders, 2 x D9 Dozers, 2 x D10 Dozers, 385 & 365 Cat Excavators
30 TPH Dense Medium Separation Plant
Modular 8 unit X-Ray Recovery plant

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SIMUS DIAMOND MINE – SOUTH AFRICA



2 400 000 tpa Process Plant and Mining Operation Development
Trommel Screens, De-sander Units, Mobile In-Pit Screens
Rotary Pan Plants

4 x 40t ADT's, 4 x Front End Loaders, 1 x D9 Dozer, 1 x D10 Dozer, 2 x 330D Excavators

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2 300 000 TONS PER ANNUM DIAMOND MINE – ZIMBABWE



Construction of a 2 300 000 tpa Process Plant
65 tph Dense Medium Separation Plant
Screening Plant
X-Ray Recovery

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MATERIALS HANDLING – GHANA



Structural Design and Manufacture
Project Management
Commissioning

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876 000 TONS PER ANNUM DIAMOND PROCESS PLANT – TANZANIA



864,000 TPA Diamond Process Plant

Design, Construction, Shipment and Implementation

Scrubbing, Mobile Rotary Pan and Screening Plants

Design, Construct, Install, Commission, Logistics Support, and Management Infrastructure

Development

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DIAMOND PLANT – AFRICA



200t/h Dense Medium Separation Diamond Recovery Plant
Scrubbing, DMS, XRay recovery
Turnkey Supply, Installed and Commissioned

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MATERIALS HANDLING – COAL, SOUTH AFRICA



Pit to surface stockpile Project - Designed, Manufactured, Installed and Commissioned
1000 t/h Overland and Spreader Conveyor System, 600 t/h Garland Conveyor System

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PROCESS SOLUTION – URANIUM, AFRICA



Ball Mill to Process Pyrolusite
Turnkey Supply and Refurbishment, Installed and Commissioned

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MODULAR X-RAY PLANT- DIAMONDS, AFRICA



Designed, Manufactured, Installed and Commissioned
8 XRay Units
Sort Room with Drying and Glove Box facilities

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7 000 000 TONS PER ANNUM SCREENING PLANT – AFRICA



Designed, Manufactured, Installed and Commissioned

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864 000 TONS / AN. CRUSHING, DIAMOND DMS & XRAY RECOVERY PLANT – AFRICA



Turnkey Supply: Designed, Engineered, Installed and Commissioned
After Sales Support

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THICKENER FEED TANKS – GOLD, SOUTH AFRICA



Turnkey Supply
Designed, Manufactured, Installed and Commissioned

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300 000 TONS PER ANNUM MODULAR GRAVITY GOLD PLANT – AFRICA



Turnkey Supply: Designed, Manufactured, Installed and Commissioned

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PLATINUM PROCESSING PLANT – AFRICA



Turnkey Supply: Materials Handling, Crushing and Screening
Designed, Manufactured, Installed and Commissioned

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5MVA STANDBY POWER PLANT - CHROME, SOUTH AFRICA



Turnkey Supply:
Project Managed, Manufactured, Installed & Commissioned

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IN-PIT SCREENING PLANTS - DIAMONDS, SOUTH AFRICA



Supply of 6 in-pit screening plants
Project Management, Logistics and Commissioning

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MILL DISMANTLING & REFURBISHMENT – SOUTH AFRICA AND GHANA



Platinum, Gold, Chrome

4 x 5.2MW, 32 x 16ft SAG Mills, 3 x 2.6MW, 16 x 22ft Ball Mills

Turnkey Project: Refurbishment, Logistics, Sea Freight, Installation and Commissioning

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4MVA COPPER SMELTING PLANT - AFRICA



Turnkey Supply
Installed & Commissioned

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600 000 TONS PER ANNUM PLATINUM PROCESSING PLANT



EPCM Contract and After Sales Support

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NEW GIRTH GEAR AND PINION FOR 16x20 FT / 2300KW – MIDDLE EAST



Design and manufacture of new girth gear and pinion
Non destructive tests and heat treatment
Installation

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300 TONS PER HOUR MOBILE BELT CONVEYOR – COAL, SOUTH AFRICA



Design of Belt Conveyor
Engineering and Manufacturing
Electrics
Transport to Site
Installation and Commissioning

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9x10 FT BALL MILL - GOLD, MALI



Supply & Refurbishment of Ball Mill
Liner Installation
Logistics, Installation and Commissioning

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STATIC & MOVABLE GRASSHOPPER MATERIALS HANDLING SYSTEM – COAL



Multiple grass-hopper conveyors and one slewing/stacking conveyor for 25000 tons Uranium dumps
Turnkey Supply
Design
Manufacture
Logistics

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18 FT. DIAMETER PAN PLANTS – BUILT NEW - DIAMONDS



Mobile 18ft. Diameter Pan Plants

With Dewatering screen, feed hopper, feed conveyor and waste conveyor

Turnkey Supply - Design - Manufacture - Delivery

Zimbabwe, Russia, Angola, DRC, Lesotho, South Africa – some of the destinations for Manhattan Rotary Pan Plants

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65 TPH DMS PLANT – DESIGN- BUILD- INSTALL - DIAMONDS



- 65 tph DMS Plant- with 150 TPH Scrubber front end, Flow Sort diamond Recovery
- Design – Build – Install - Commission
- Manhattan supplies from 5 TPH to 200 TPH + DMS units, Modular design
- Scrubbing Front End to suit
- Flow Sort or Bourevestnik Final Recovery solutions

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65 TPH DMS PLANT – DESIGN- BUILD- INSTALL – ZIMBABWE - DIAMONDS



- 150 TPH Scrubber Plant
- Design – Build – Install - Commission
- Manhattan supplies from 5 TPH to 400 TPH Scrubber Solutions

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30 TPH DMS PLANTS – DESIGN- BUILD- INSTALL - DIAMONDS



- 30 tph DMS Plant- Northern Cape South Africa
- Design – Build – Install - Commission

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5 TPH ROTARY DRYER- GRAPHITE MINE- NAMIBIA



- Rotary Dryer, 5 TPH
- Includes Feed and Product Conveyors
- Civil Design and Steel Bending Schedules
- Process Design, Supply
- Freight & Logistics

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5 TPH & 25 TPH FILTER PRESS UNITS – NAMIBIA & SOUTH AFRICA



- 5 TPH PLC controlled automatic Filter Press
- 25 TPH vibrate clean function- PLC controlled automatic Filter Press
- Hydraulic Operation
- Spares
- Civil Design, Process Design, Supply
- Freight & Logistics

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CONVEYOR PROJECTS DESIGNED, MANUFACTURED, INSTALLED



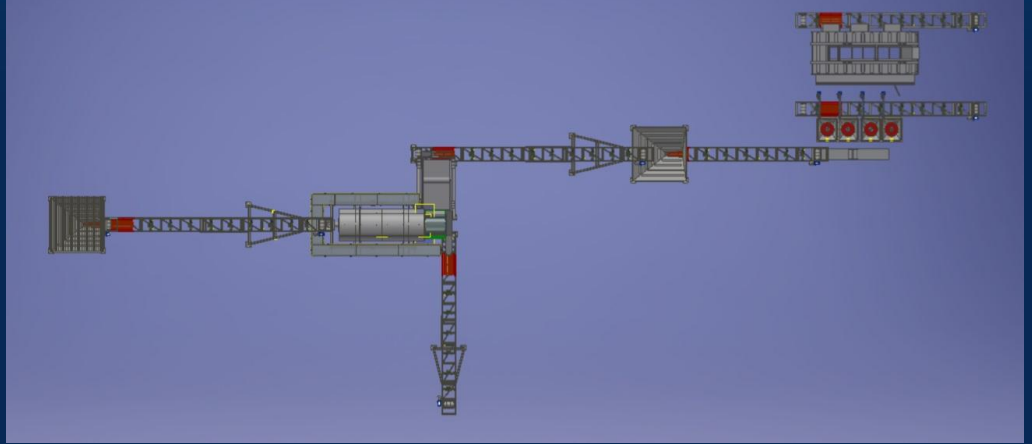
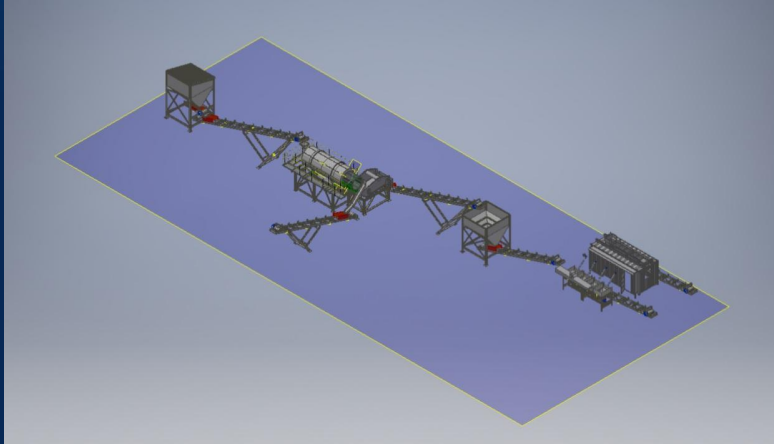
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CRUSHING PLANT: GRIZZLY, JAW, CONE, SCALP SCREEN, CONVEYORS: AFRICA



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JIGGING PLANTS: DIAMONDS, TANTALITE, COPPER, CHROME: MOZAMBIQUE, DRC, GUINEA, ANGOLA



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HEAVY DUTY BARREL SCREENS: 500-800 TPH: OPEN CAST ALLUVIAL DIAMOND PROJECT RSA



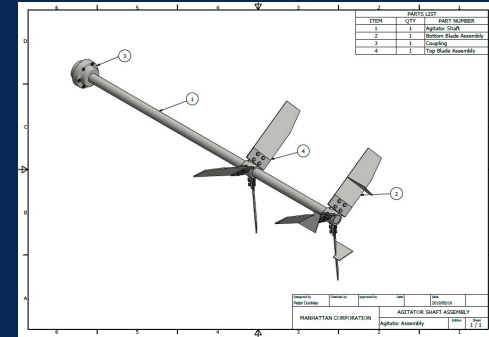
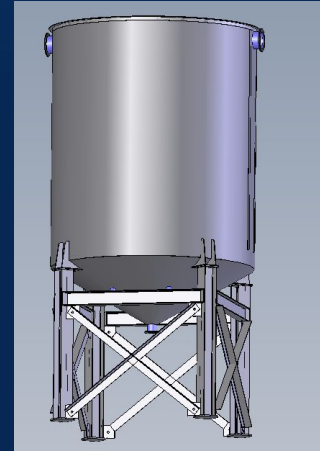
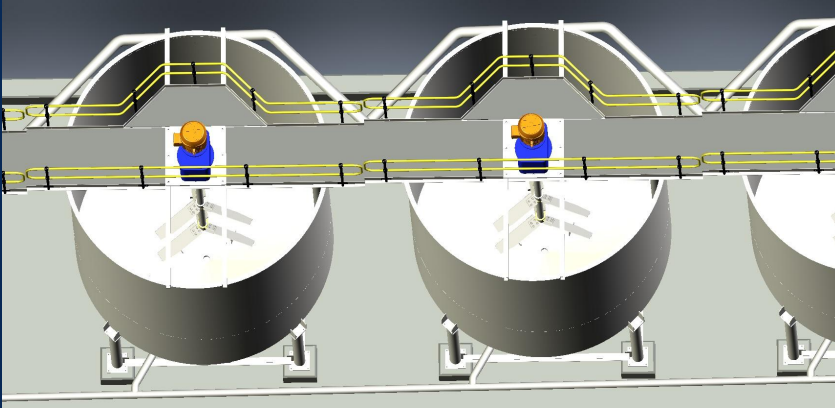
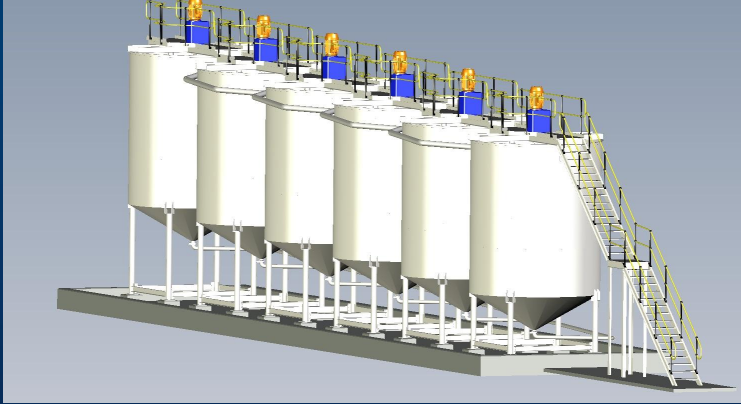
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HIGH CAPACITY DESANDING PLANTS- MOZAMBIQUE, RSA AND ZIMBABWE



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AGITATOR AND GOLD LEACHING PLANTS; 3KTPM TO 200KTPM- PROJECTS IN RSA, ZIMBABWE, ETHIOPIA, TANZANIA, MALI, SIERRA LEONNE, MOZAMBIQUE



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MINING AND MINERAL PROCESSING EQUIPMENT CATEGORIES

1. **Conveyors, Bucket Elevators & Conveying Systems**
2. **Crushers**
3. **Diesel Generators**
4. **Drying & Sintering Equipment**
5. **Electrical MCC circuits LT and HT**
6. **Feeders, Bins and Material Storage Systems**
7. **Filtering Equipment**
8. **Flotation Equipment (Tank & Column)**
9. **Gravity Recovery Equipment**
10. **Grinding Mills / Comminution systems**
11. **Laboratory Process Equipment**
12. **Magnetic Separation Equipment**
13. **Mineral Processing Plants**
14. **Process Equipment**
15. **Pumps & Spares**
16. **Rolling Stock, Locomotives, hoppers & support equipment**
17. **Sand Washing & Processing Equipment**
18. **Screens and screening plants**
19. **Tanks, Agitators, leaching systems**
20. **Thickeners and Water Recovery Systems**
21. **Transformers, Substations**
22. **Winches**
23. **Winders**

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TURNKEY MINING AND MINERAL PROCESSING PLANT CATEGORIES

Turnkey & Process plant solutions offered by Manhattan, include :-

1. Lithium & Diamond Plants, Pans, Jigs, DMS, XRay, XRT, Front End Scrubbing, In-Pit mobile Screening, Static Screening, Power generation, Turnkey Project Establishment
2. Gold Plants, Cyanidation, Flotation, Crushing, Milling , Leaching, Elution, Gold Refining
3. Gold Plants, Free-gold recovery, Crushing, Scrubbing, Centrifuge, Trommel, Sluice, Gold Room
4. Coal Plants, Overland Conveyor with Mineral Sizing, Breakers, Granulating, Crushing, Drum, DMS, Jig, Spiral Upgrading/ washing
5. Conveying Systems, overland, static, stockpile, mobile, customized
6. Crushing Plants with Cone, Gyratory, Jaw, Impact, Roll, multistage & Single roll, hammer crushers
7. Flotation, gravity, magnetic separation, smelting
8. Leaching plants, Thickener plants, Agitated tank plants
9. Mineral Processing Plants- Enquirer for your need
10. Process Equipment- Over 20 mineral types supported by Manhattan
11. Sand Wash & Classification Plants
12. Screening plants
13. Turnkey mine establishment

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CONTACT DETAILS

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Turnkey Plants and Process Solutions

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