

# Miranda

Engineering for oil and gas  
infrastructure





## Miranda Profile

Ownership : Privately owned

Year of Incorporation: 2009

### Main Market Segments

- Crude oil pipeline
- Petrochemical and Chemical storage
- Geothermal power Generation
- Steel and Metal
- Petroleum tank storage & piping
- Shipbuilding/Marine
- Material Handling and recycling
- LNG piping
- Food & Beverage
- Mining and mineral
- Compression

### Activities

- Pumps & Valves
- Turbo Machinery service
- Drive Systems and System Engineering
- Instrumentation & terminal automation
- Switch boards
- Cathodic Protection
- Critical flange sealing solution
- Explosion proof LV equipment
- Difficult Slurry Pump Sealing steel mills
- Extended Bearing Life by 300% via corrosion-inhibiting, high-temperature grease.

**Miranda the leading provider of accessible, reliable and cost effective engineering services**

## Staff structure

	Employees
Management	8
Finanacial Accounting /HR/IT	9
Purchasing & Logistics	3
Engineering/Design/Research /HSE/QC	30
Sales & Marketing	50
Trainees	20

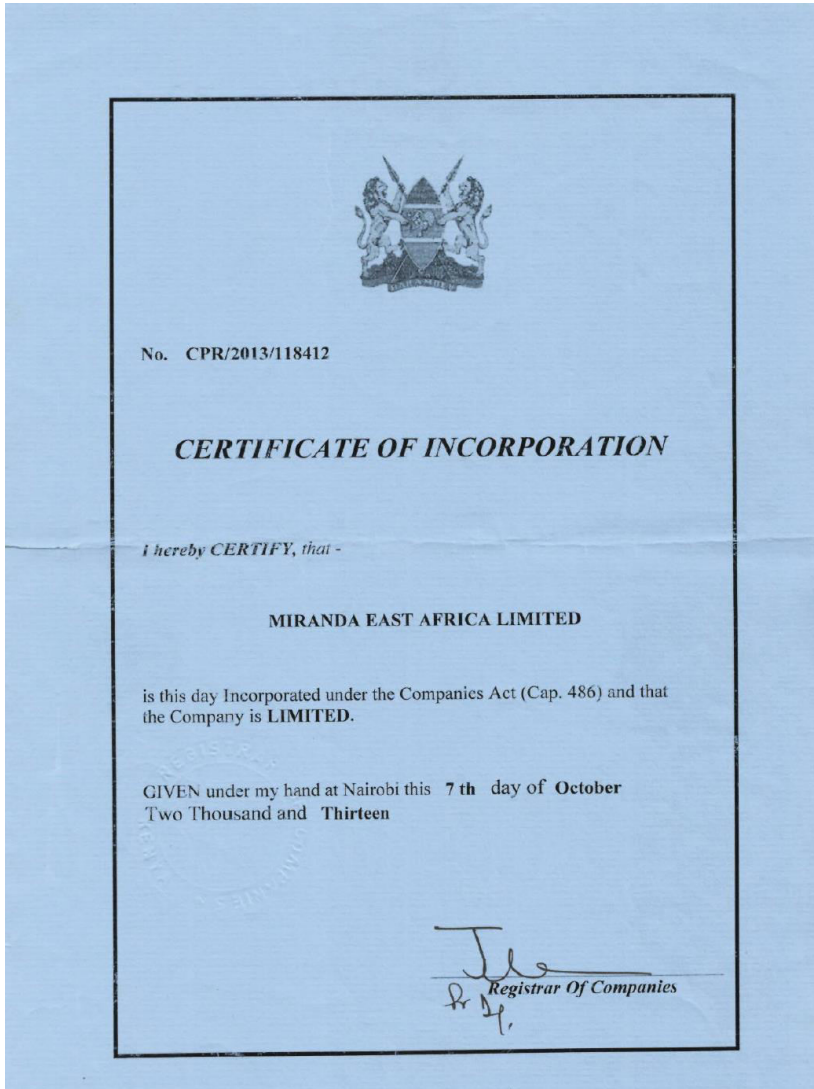
### Why Us

Our biggest investment is in the continued development of our personnel who are at the heart of the company mantra. We have a highly qualified team of engineers, with international exposure who follow our work manuals to ensure delivery of consistent services to our customers anywhere in the world.

Being a multidisciplinary engineering company, have in-house capacity for Electrical instrumentation & automation and mechanical engineering assignments. We have wide industry experience stretching from petroleum depot and pipeline project, hydro-carbon storage plants, cross country pipelines, LPG bottling

We take every opportunity to inject professionalism and a spirit of excellence in all our endeavors .We have what it takes and know that with focus on customer satisfaction and team spirit we will achieve and maintain market leadership to continuously win our customers trust

# Certification



www.kra.go.ke

## Tax Compliance Certificate

For General Tax Questions  
Contact KRA Call Centre  
Tel: +254 (020) 4999 999  
Cell: +254(0711)099 999  
Email: callcentre@kra.go.ke

Taxpayer PIN : P051473744E

Name and Address :

Miranda East Africa Limited  
DONHOLM, NAIROBI CITY (EAST), Nairobi East District,  
PO Box:67947,  
Postal Code:00200

Certificate Date: 09/07/2016

Certificate Number:

KRAEON4483722016



**This is to confirm that Miranda East Africa Limited,  
Personal Identification Number P051473744E  
has filed relevant tax returns and  
paid taxes due as provided by Law.**

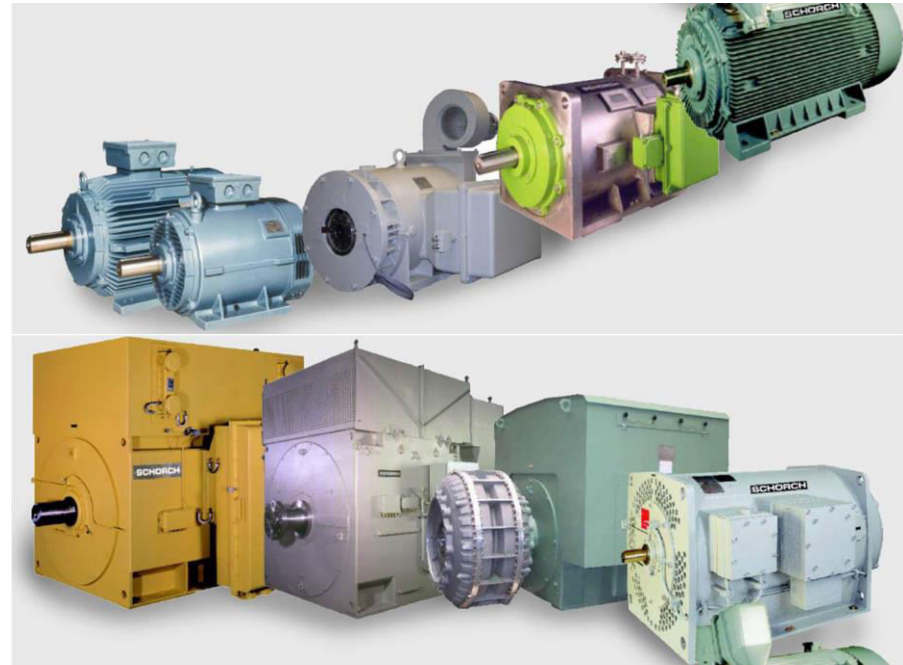
**This Certificate will be valid for  
twelve (12) months up to 08/07/2017.**

## Product Portfolio

- Pumps
- Power transmission coupling
- Hydrodynamic Bearings
- Mechanical Seals
- Seal Support Systems
- Valves
- Filtration Systems
- Synchronous Drive systems

# Miranda

Technology with Service



Drive motors, MCC, switch gears, cables , explosion proof

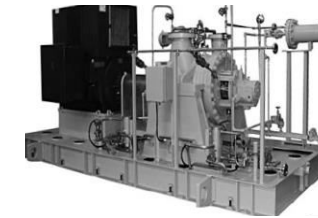
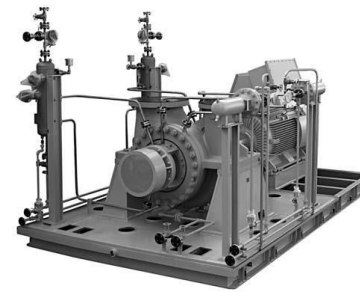
## Product portfolio Pumps

# Miranda

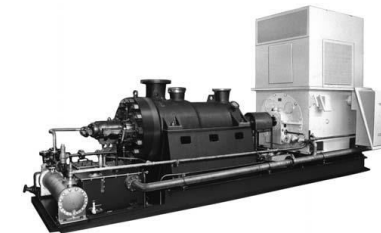
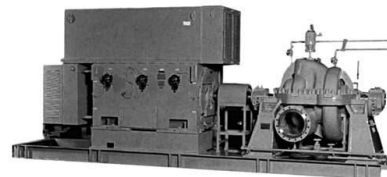
Technology with service

### Crude oil transfer, pipeline

Double case, Centerline support  
Radial split, Multistage  
Diffuser type inner casing

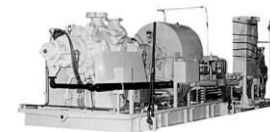
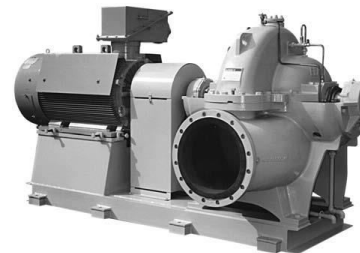


Design: Near Centerline support, Axial split  
Two stage Single or Double Volute casing  
Opposed impeller arrangement  
Full compliance with API 610  
Application: Pipeline, crude oil transfer, petrochemical



### General Service pumps

Power range: up to 25,000 kW  
Option: Ex p – water-cooled



Lift pumps, crude oil transfer,



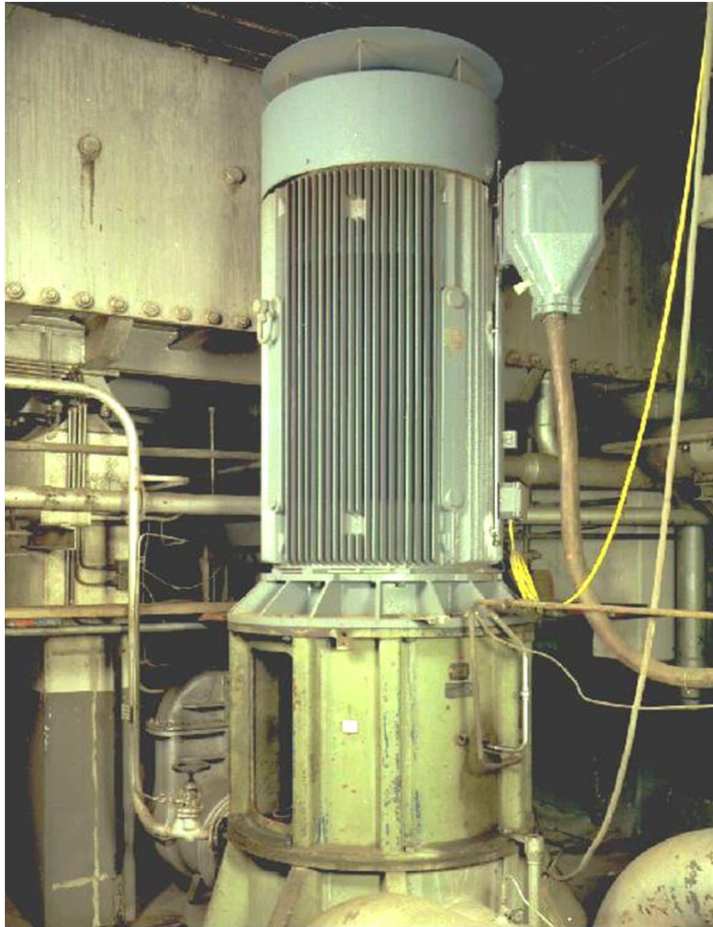
EBARA CORPORATION



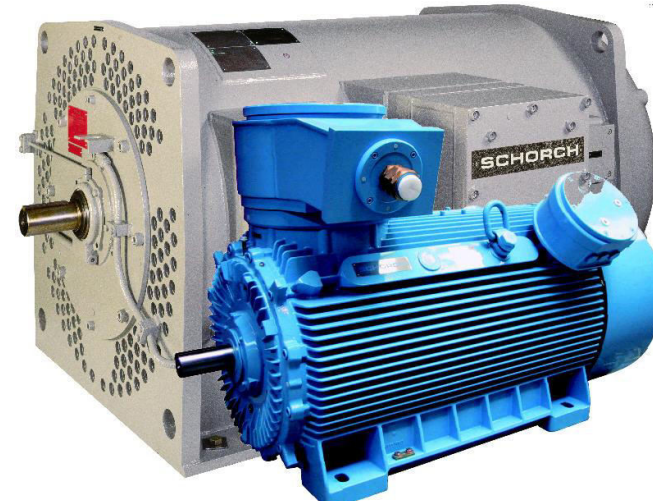
# Miranda

Technology with service

## High-voltage asynchronous machines



Pump drive, 800 kW, 6 kV ,1493 rpm



IP55, cast iron, shaft centre heights 355- 560; Outputs 180 to 2,000 KW



## Product portfolio Pumps

- Gear pump
- Centrifugal Pumps
- Slurry Pumps
- Metering & Dosing Pumps
- Positive displacement Pumps
- Sealless Pumps
- Vertical Turbine
- High Pressure Pumps
- Sanitary Pumps
- High Viscosity Pumps
- Self Priming Pumps
- Twin Screw Pumps

Warren Rupp Heavy Duty Flap Air-Operated Diaphragm Pump

Gould Centrifugal Pump & Netzsch Pumps NEMO Progressive Cavity Pump



Pump drive, 2,250 kW, 6.3 kV and 1,492 rpm

IP54, tube cooled, Outputs from 1,900 to 17,000 kW

Electrical Machines, pump Systems and System Engineering



# Miranda

Technology with Service



## Instrumentation & terminal automation

- Emco Wheaton Loading arms with proximity sensors
- Scully Interlitrol earthing and overfill protection
- Proprietary Fuel Facs systems
- Accuload III Preset Flow computer for batching
- Radaar level gauging (SAAB Rosemount)

- Motorized valves (Rotork-IQ Series for tanker loading)
- DBB Valves
- PLC integration with SCADA
- Traffic Signals to control movement of tanks into gantry



Tank gauging, metering, overfill protection , card readers

# Miranda

Technology with Service

## Loss Prevention Systems

### Typical hazardous areas

- Petrochemical Industry
- Chemical Industry
- Oil & Gas Industry
- Fertilizer Industry
- Mining Industry
- Sewage Treatment



### Automatic Deluge systems for storage tanks

- Electric actuation for pumps
- Fixed Foam systems for the tanks
- Bottom foam injection
- Automatic Rim Seal protection for FR tanks with fixed foam pourer



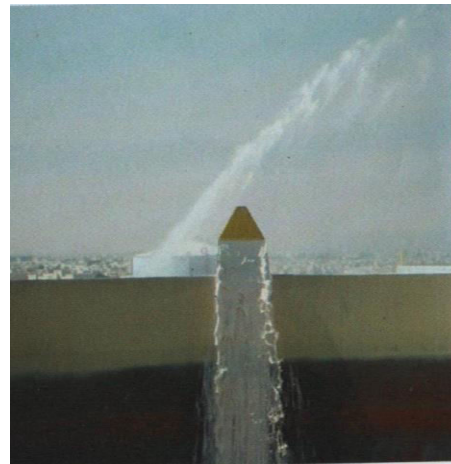
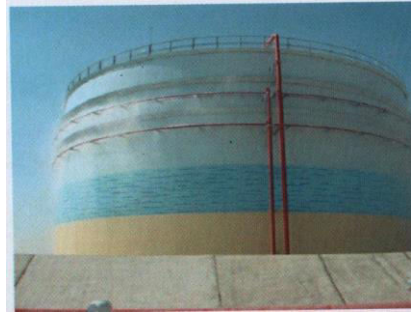
Foam systems, deluge system, fire hydrants, foam c

## Loss prevention Contd

# Miranda

Technology with Drive

- Oil & Gas
- 24" Ring Main line around tank
  - Foam Monitors
  - Hydrant and hose reel cabinets
  - UV/IR Detectors in pumps house
  - Manual call points and ESD push buttons across terminal





# Miranda

Technology with Service

## Oil & Gas mechanical experience

- Elevated temperature tanks
- Plant Piping / Pumping Stations
- Fire Fighting
- Gas Processing (LNG, GTL, etc)



## Electrical machines -oil production

Drive: Mud Pump for use on drilling platforms

### Technical Data:

Type: KL6035B-EN06

Output: 1,655 kW

Fed by: Water-cooled IGBT-frequency converter

Voltage: 690 V

Speed range: 40 - 1,200 rpm at constant load torque

Protection: IP56

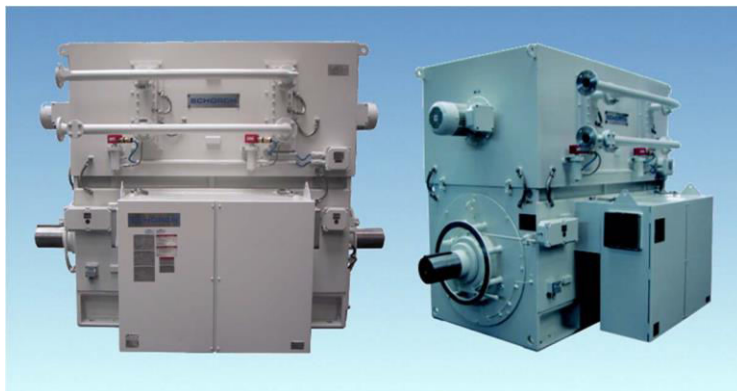
Explosion-protected: EExe II T3

Power transmission: Via 2 shaft ends with sprocket wheel

Design in accordance with NORSOK and DNV

# Miranda

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## Mechanical works

-Installation and automation of valve operation using Rotork IQ series and ESD valves Bettis0

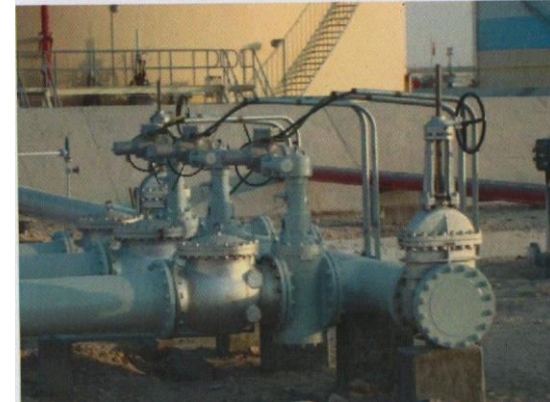
-Interconnection to the existing tank farm and incoming manifold

-Tanker loading Gantry for loading Gasoline



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## Product Portfolio-Valves

Digital Control Valves

Globe Valves

Wedge gate valves

Swing check Valves

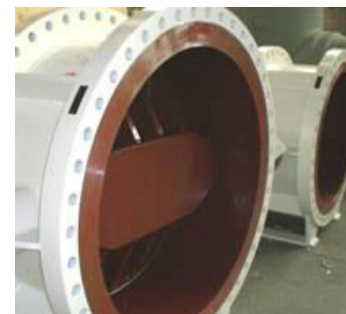
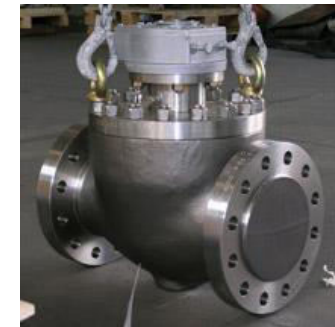
Thermal Relief Valves

Flow Control Valves

Double Block & Bleed  
Plug Valves

Safety Relief Valves

Hydrant Pit Valves



Our TRVs are manufactured from carbon steel to ASTM A105 or ASTM A216 Grade WC and can be supplied with flanged raised face in accordance with ASME B16.5 or screwed NPT.

Our Globe Valve bodies are manufactured from carbon steel castings to meet ASTM A216 WCB

Miranda supplies direct acting, spring loaded type Pressure Relief valves. Our Valves are of forged carbon steel construction with flanged end connections.

## Instrumentation & control system

Ultrasonic flow meters

Accuload III Preset Flow computer

Flow computer for control Logix

Positive Displacement meters

Instrumentation Cables

Temperature & Pressure Transmitters



# Bulk Handling & Safety Access

Marine Loading Arms

API & Dry Disconnect Couplers

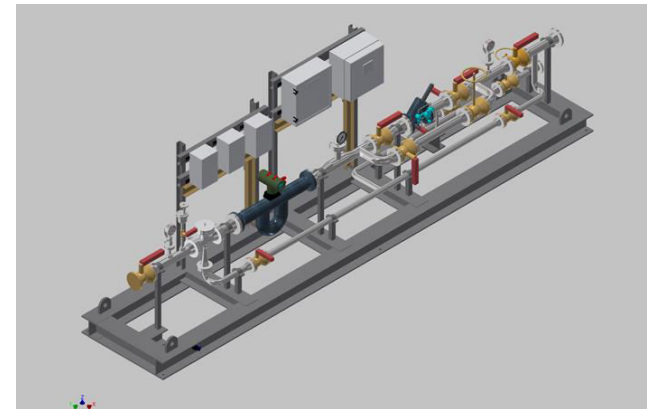
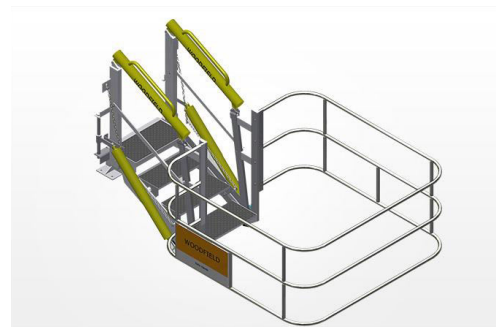
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Safe Access Systems

Swivel Joints

Top & Bottom Loading Arms

We supply Emco B0030 Marine Loading Arm is preferred when loading / unloading sea-going tanker ships.



**Miranda**

Technology with Service



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