Magnum Technology Center

Company Profile

Well Testing And Managed Pressure
Drilling Equipment Package Provider

Magnum Technology Center Facility, Dubai.

Magnum Technolgy Center Facility

Magnum Technology Center Expansion

Magnum Technology Center Expansion

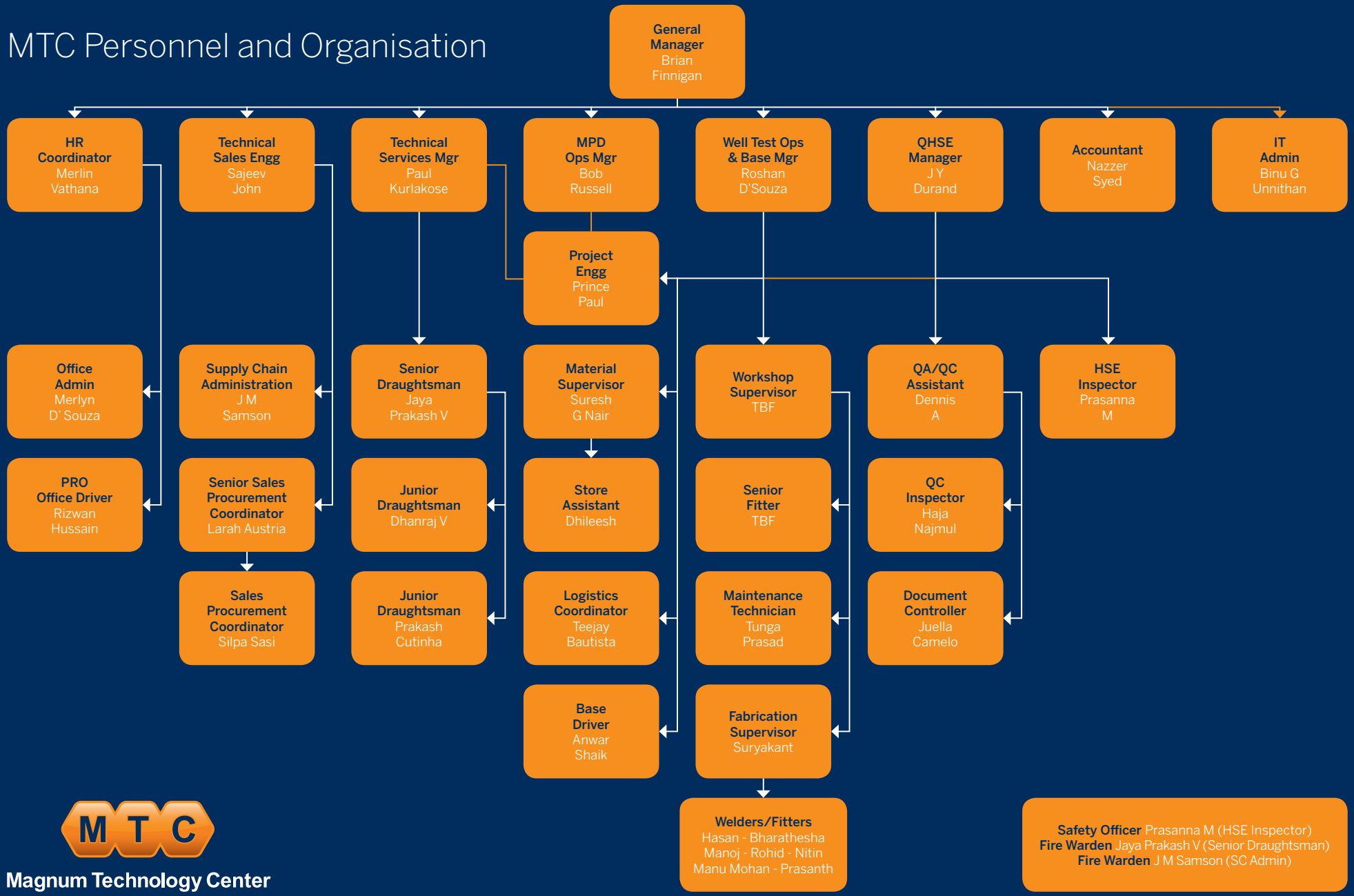
Introduction

- MTC was established in early 2010 by the WOM group owner and CEO Mr Sudhir Puranik to take advantage of a gap in the global market for Well Test and MPD equipment provided in a complete package type format.
- MTC Well test and MPD equipment packages have been designed and manufactured to match the needs of the Well Test and MPD service providers and complemented by the parent companies globally recognised range of Magnum gate valves and Chokes used in their Flowheads, Choke manifolds, Surface Safety valves etc. In addition WOM also manufacture a range of patented Dual-seal full bore Ball valves.
- MTC moved into a new purpose built 12,000m2 Office, Workshop and Storage yard facility in the Jebel Ali South Zone in April 2012 with their sister company WOM Middle East.
- Based on a very favourable reception from the service companies to the package equipment concept the WOM group took the decision to expand the existing facility to include a fabrication workshop, additional equipment storage sheds and workshop offices.
- In addition there are now further expansion plans to increase the existing facility area to 36,000m2 by combining it with the adjacent plot as shown in the following slides of the existing facility expansion and the addition of the adjacent plot.

MTC Personnel and Organisation.

- General manager has over 30 years of operational Well test / Well services experience.
- Well Test and Managed Pressure Drilling operations managers have combined operational experience in excess of 25 years.
- Technical services manager has over 15 years operational experience in Data aquisition and Control system services in both the Well test and Managed pressure drilling product lines.
- Technical Sales engineer has extensive sales experience in the Oil and Gas sector.
- Engineering and Design team currently consists of senior and junior draughtsman which will be developed to include process design and structural engineering.
- HSEQ manager (consultant) has over 35 years of operational, management and QA/QC experience principally spent with Flopetrol and then Schlumberger.
- Workshop / Fabrication team consisting of Workshop supervisor, Mechanical fitters, Structural welders and fitters. Will be developed to include pipe welders and fitters.
- Above management, operational and manufacturing structure fully supported by a very experienced and motivated Supply chain, Stores, HR and Accounts team to complete the MTC organisation shown in the following organigram.

MTC Personnel and Organisation



Magnum Technology Center

Safety Officer Prasanna M (HSE Inspector)
Fire Warden Jaya Prakash V (Senior Draughtsman)
Fire Warden J M Samson (SC Admin)

Well Test Equipment

- Skid mounted and Trailer mounted Well testing equipment is used by the operating oil companies to obtain accurate well performance and fluid characteristic data from oil and gas wells in varying drilling and production scenarios which is used in the evaluation of the reservoir under review.

- Equipment is manufactured as per codes below:

    - API 6A, ASME VIII Div.1 U Stamp, ANSI B31.3, Nace MR01.75, DNV 2.7-1 and ISO CSC.
    - TPI inspection by DNV, BV or Lloyds is provided as standard for witnessing of hydrotests and loadtests.

- MTC provide packaged Well testing equipment sets in the below listed formats to match the needs of the global Well test service providers.

    - Offshore full package equipment sets from the the Flowhead to the Burner booms.
    - Onshore full package equipment sets from the Flowhead to the Burner head.
    - Trailer mounted package equipment.
    - Cost conscious package equipment.

Well Test Equipment

- Well test Process trailer is a 58ft long x 8ft wide x 17ft high tri-axle step frame type with design payload of 40 tons. Equipment installed consists of,

    - 3inch 10Kpsi 5 valve Choke manifold with integral data header and ESD system.
    - 1440psi 42inch x 10ft 3 phase Separator in skid and frame.
    - 50psi 50Bbl Twin compartment Surge tank with steam coil in skid and frame.
    - Twin 5000BPD 100psi Centrifugal transfer pumps with outlet check valves.
    - Set of interconnecting pipework and manifolding with 3inch1502F Inlet and 3inch & 4inch 206M outlet connections.
    - Set of Explosion proof internal and external light fittings with 45 meters of main power supply cable and main instrument air hose for easy connection to Office Utility trailer.

- Well test Office utility trailler is a 45ft long x 8ft wide x 13ft high dual axle flat bed type with design payload of 40 tons. Equipment installed consists of:

    - 20ft converted Office and Workshop container.
    - 135 KVA Diesel engined Genset with diesel day tank and changeover switch.
    - Twin electric motor workshop compressor with instrument air distribution system.
    - Workbench with pipe and chain vices for operations and maintenance.
    - Set of loose 1502 and 206 pipework package installed on side mounted racks.
    - Set of non-explosion proof internal and external light fittings.

Well Test - Trailer Packages

Twin Trailer

Well Test Trailer

Office Utility Trailer

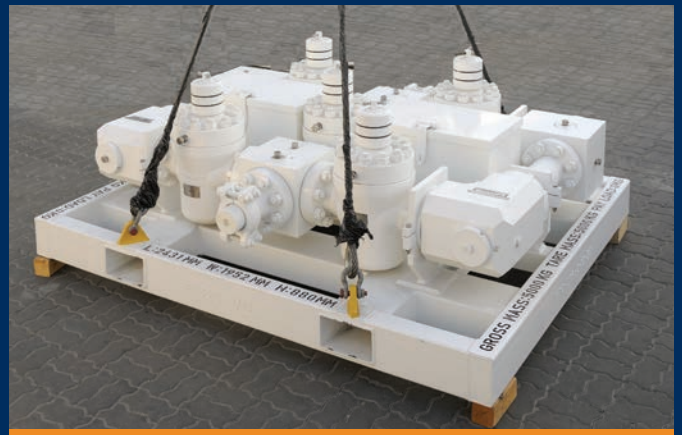
Offshore / Onshore Well Test Equipment

15K Flowhead

15K SSV

Offshore / Onshore Well Test Equipment

15K Data Header

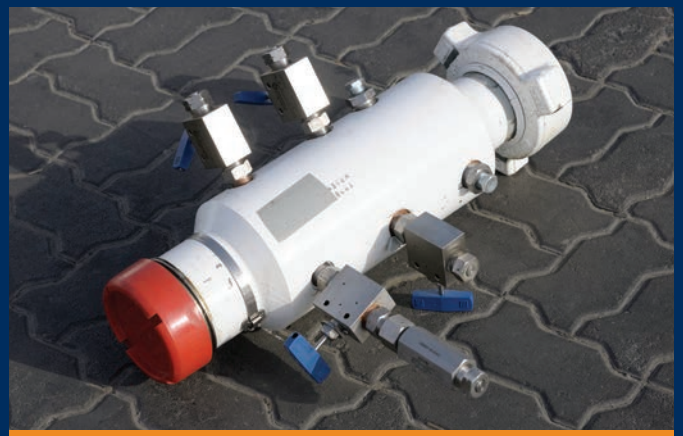


15K Choke Manifold

10K Flowhead

Offshore / Onshore Well Test Equipment

10K Choke Manifold



10K Data Header

10K SSV

10K Coflexip Hoses

Offshore / Onshore Well Test Equipment

5K Indirect Heater

1440 Separator

10K Steam Exchanger

50 Surgetank

Offshore / Onshore Well Test Equipment

100 Gauge Tank

5000 Transfer Pump

15 Burner Boom Oil-Burner

1440 Oil Gas Diverter Manifolds

Offshore / Onshore Well Test Equipment

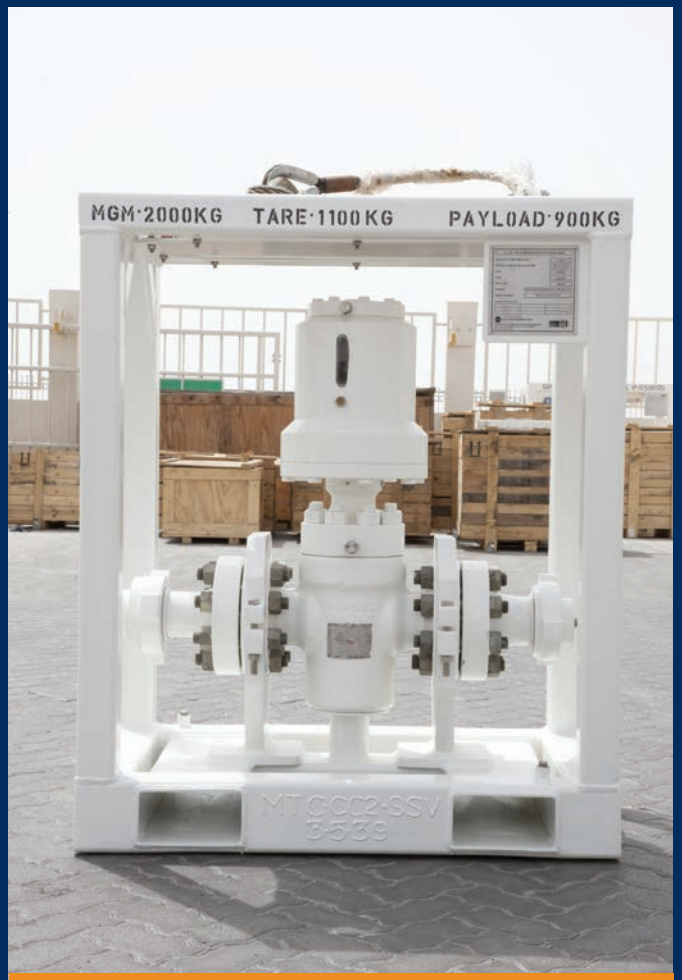
Pipe Package Pipe Rack

Cargo Baskets

Office Container

Office Workshop Container

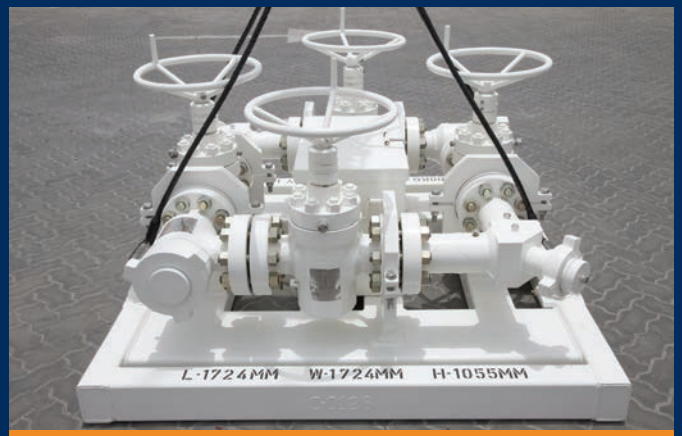
Cost Conscious Package



5K SSV

50 Surge Tank

Cost Conscious Package



5K Choke Manifold

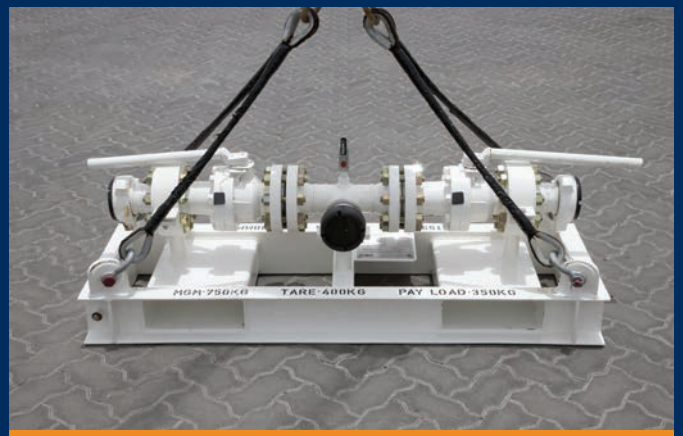
1440 Separator

5000 Transfer Pump

15 Oil Burner

Cost Conscious Package

1440 Oil Manifold



1440 Gas Manifold

Office Container

Cost Conscious Package

Workshop Container

Well Test - Additional Equipment

20K Sandfilter

1440 Low Gas Metering Skid

Compressor Skid

Well Test - Ancillaries

ESD PTP Panel

Chemical Injection Pump

DWT

Recorder

Well Test - Ancillaries

Ranarex

Managed Pressure Drilling

- Skid mounted Managed Pressure Drilling equipment is used by the operating oil companies during drilling operations to complement the existing drilling package when drilling through difficult reservoir sections which require to be drilled balanced or slightly underbalanced to avoid kick/loss situations which can result in very expensive lost drilling time.
- MTC manufacture and supply both a high pressure API 5000psi gate valve type MPD manifold for offshore and onshore use and also a lower pressure ANSI #900 2000psi Ball valve type MPD manifold.
- MTC also manufacture high pressure 5Kpsi and low pressure 2Kpsi large bore piping packages on transportation racks for MPD applications.
- MTC can also provide additional equipment such as Mass flow metering skids and Mud gas separator skids to order.

Managed Pressure Drilling

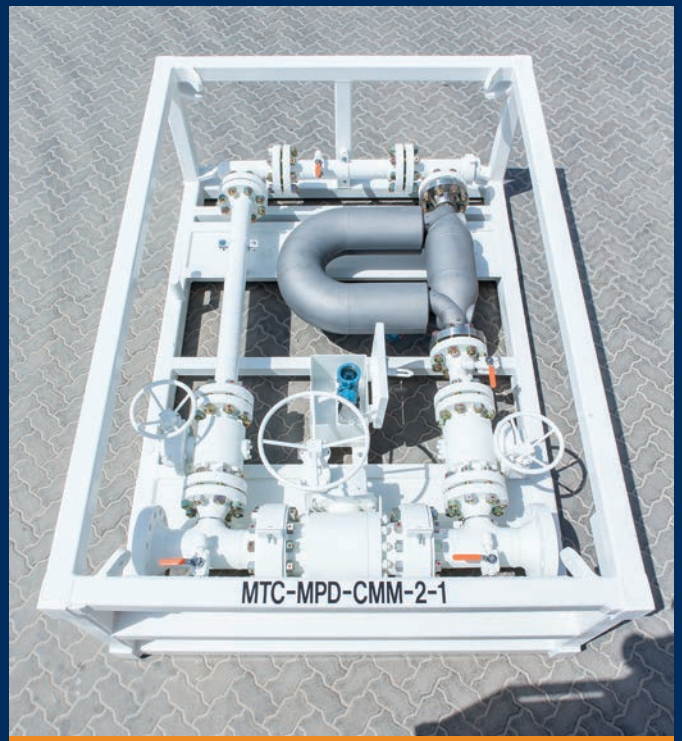
2K Coriolis Manifold

5K Manifold

MPO NSD Manifold

MPO TCD Manifold

Managed Pressure Drilling



Coriolis Meter Manifold

UBD Sample Catcher Manifold

16da Control Panel with Accumulator Rack and HMI Panel

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