Specialized in providing integrated solutions with advanced delivery to the oilfield industry
Vision
To service the Well Test and Managed Pressure Drilling sectors of the oil and gas industry by providing them with an innovative range of packaged products designed and manufactured to the latest industry standards with an advanced delivery and therefore enhance their ability to bring their services to the market in a timely and cost effective manner.

Mission
To build long term relationships with our customers and clients by providing them with Well Test and Managed Pressure Drilling equipment packages with innovative designs and advanced technology from stock or with advanced deliveries backed up by a superior level of after sales support from our team of service industry experienced professionals and our extensive manufacturing and storage facility.

Seamless Integration
Magnum Technology Center designs and manufactures complete equipment packages for Well Testing & Production and Managed Pressure Drilling services. We’re meticulous about the little details that make our packaged solutions so seamless. Everything has been designed to work together perfectly whilst giving operators the flexibility to adapt. With a huge depth of hands on experience from across the globe our products are designed with the realities of real life usage in mind. Fully certified to industry and governmental standards and backed up by our extensive operational experience and customer support, MTC packages let you get on with the job in hand safe in the knowledge that we’ve done ours.
This is what we do

The Magnum Technology Center is a company specialized in providing integrated solutions with advanced delivery to the oilfield industry.
We provide the complete package for well testing companies.

Standard packages have been engineered and manufactured by MTC to satisfy the high standards demanded by the oil & gas industry and are delivered in a ready to use condition with all the required instrumentation, ancillaries and interconnections. Our packages are very versatile and can be used in the vast majority of service scenarios.

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 MR0175, DNV 2.7-1 and ISO 9001 with options of DNV OS-F-101 and NORSOK when required.
- TPI inspection by DNV, BV or Lloyd’s is provided as standard.

MTC provide packaged Well testing equipment sets in the below listed formats to match the needs of the global Well test service providers:
- Trailer mounted package equipment.
- Cost conscious package equipment.
- Offshore/Onshore full package equipment sets from the Flowhead to the Burner booms.
Primary Well Test Process equipment Trailer is fully rated to the Zone 1 electrical standard with the below equipment installed.
- 3" 10K Psi 5 Valve Choke manifold with integral Data header and ESD system.
- 1440 Psi 42" x 10ft 3 Phase Separator.
- 150 Psi, 50 BBL Twin compartment Surge tank with Steam coil.
- Twin 5000 BPD, 100 Psi Centrifugal Transfer pumps, electrically driven.
- Set of integrated interconnecting pipework and Explosion proof internal and external lighting package.

Secondary Well Test Trailer is an Office, Workshop and Utility unit for Safe Area use with the below equipment installed.
- 20ft Office and Workshop container with DAQ capability.
- Workbench with Pipe and Chain vices for operations & maintenance.
- 135KVA Diesel engine sound attenuated Generator with distribution / changeover system and safe area internal and external lighting package.
- Twin motor Compressor unit with large tank.
- 250ft of rig up pipework fitted in underslung racks both sides of trailer.
Well test cost conscious package is designed and packaged by MTC in a cost effective way to serve the service companies with equipment which is mounted in 2.5R load tested skid and frame in a ready to go format for any land jobs along with the flexibility of packaging the equipment in a trailer mounted format if required. Equipment package consists of:

- 3inch 5Kpsi Surface Safety Valve
- 3inch 5Kpsi 4 valve Choke manifold with integral data header
- 1440psi 42inch x 10ft 3 phase Separator in 2.5R load tested skid and frame.
- 50psi 50Bbl Twin compartment Surge tank with steam coil in 2.5R load tested skid and frame.
- 5000BPD 150psi Centrifugal transfer pump with outlet check valve.
- 1440 Psi Oil and gas diverter manifolds.
- 15,000 BPD 4 head Burner.
- 250 Ft of pipework consisting of 3 inch 1502, 3 & 4 inch 206.
- 20ft converted Office and Workshop container.
- Standard Ancillaries.
Well test offshore/onshore package is designed by MTC to serve the service companies with equipment which is mounted in or can be transported in ISO-CSC and DNV skid and frame to be ready to go for work anywhere in the globe. Equipment package consists of,

- 3inch 10kpsi Flowhead
- 3inch 10kpsi Surface Safety Valve
- 3inch 10kpsi 5 valve Choke manifold with integral data header
- ESD system. • 3inch and 2 inch 10K CoFlex Hoses
- 3inch 10kpsi 4MMBtu Steam exchanger. • 3 inch 5kpsi/2MMBtu Indirect heater
- 1440psi 42inch x 10ft 3 phase Separator
- 50psi 80Bbl twin compartment Surge tank with steam coil
- 100 Bbl Twin compartment atmospheric tank
- 5000BPD 150psi Centrifugal transfer pumps with outlet check valve
- 1440 Psi Oil and gas divert manifolds
- 15,000 BPD head burner • Burner Boom/ /King post / Burner head
- 950ft of pipework consisting of 3 inch 15G, 3&4 inch 602,3&4 inch 206 in pipe racks
- DNV Accessories basket
- 20 ft Zone 1 A60 DNV 2.7-1 & 2.7-2 office container
- 10 ft DNV workshop / storage container
- 20ft converted Office and Workshop container
- Standard Ancillaries
MTC also manufactures and stocks a large range of additional HPHT Well Test equipment items designed in house to complement the standard packaged equipment when required by our customers examples of which are listed below.

- 10K, 15K Psi and 20K Psi Twin Pot Sandfilter units in ISO-CSC & DNV Frames.
- 15K Flowheads and Surface safety valves in DNV baskets and frames.
- 15K Psi Steam Exchanger units in ISO-CSC & DNV Frames.
- 15K Psi Double Block & Bleed Choke manifold skids in flat 8 or Up & Over layouts in DNV skids.
- 10K Coflexip Flowline and Kill line hoses in DNV baskets.
- 1440 Psi 42” x 15ft DNV OS-E-101 and NORSOK Separators with Coriolis metering and 100 BBL, 250 Psi Twin compartment Surge tanks.
- 2000 Psi 42” x 10ft High Pressure Separators with Coriolis metering in DNV frames.
- Standalone Coriolis or Conventional Metering packages.
- 5,000 & 10,000 BPD Centrifugal Transfer pump packages in DNV frames.
- 3,000 & 4,000 BPD PCP Transfer pump packages in DNV frames.
- 15,000BPD Onshore Burner heads with ignition systems.
- Operational spare parts and accessories packages.
- Wireless Data Acquisition packages.

Ancillary items provided from stock by MTC include but are not limited to the below:

- 10K and 15K Psi Dead Weight Testers.
- 10K and 15K Psi Pressure Recorders.
- 10K and 15K Psi Chemical Injection units.
- 15K and 20K Psi Pressure test pump units.
- Single / Twin Emergency Shutdown Panels.
- Ranarex Gas gravity analysers.
- Electric / Air driven Centrifuges.
- Complete sets of Well Test lab accessories supplied in ready boxes.

Well Test Ancillaries

Seamless Integration
The perfect packages for complete well control

Our MPD choke manifolds are designed and manufactured by MTC to deliver accurate set point back pressure control via a user friendly HMI touch screen interface. The MPD equipment suite starts from the primary flow line to the MPD manifold and MGS through to the tie ins at the rig interfaces.

Standard package
- MPD 5K Choke Manifold
- MPD 2K Choke Manifold with Coriolis meter
- Mud Gas Separators
- Interconnecting pipe work in Pipe Racks
- Office Container pressurized (offshore)
- Office container Non-pressurized (Onshore)
- Workshop container
- Data Acquisition Systems
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 made to order.
“Our newly expanded manufacturing complex is purpose built to deliver the highest quality products”

MTC is strategically located in the Jebel Ali Free Zone to take full advantage of its duty free status, enhanced infrastructure and logistics support services. Our manufacturing facility currently allows us to design, engineer, manufacture and package our stock build range of well test and managed pressure drilling products.

In line with continuing to meet the growing demand for our extensive range of packaged and standalone products we have completed the expansion of the complex to 36,000 sq meters (approx 10 acres) by adding a 12,000 sq meter fabrication and painting facility and a 12,000 sq. meter logistics and storage yard.

As a further expansion to better support our current and future clients we have commenced the construction of a purpose built WOM Group Client Training Centre which will be completed by the second quarter of 2015.
A sale marks the beginning, not the end of a relationship. MTC also provides after sales support for OEM and non OEM equipment, with spare parts, maintenance and recertification support available from our Jebel Ali facility. Service engineers will be available for on site support on request.