

Focused on providing excellence to the Oil and Gas market around the world.

Kapwell is UK based company offers Mud Pressure Drilling (MPD) Equipment inclusive of Mud Gas Separator, Choke Control system, Liquid Seal Monitoring, Vent Tower for MGS and Flow meter Skid for MPD operation suitable for offshore, landrig and shale gas drilling.

Our MPD equipment suitable to work with automated Rotating Control device (RCD) offering automated control and safety in diverting well returns to a surface separation system during managed pressure and underbalanced drilling applications.

Kapwell Ltd

272 Bath Street, Glasgow, G2 4JR,
United Kingdom

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MPD Equipment



energy





Traveling MPD Package

Modularized MPD package available in 30-ft ISO container unit with or without trailer includes distribution manifold, junk catcher manifold, choke manifold and Coriolis manifold. The unit can be customized to include dual flow lines, dual chokes, dual Coriolis meters and dual junk catchers necessary to manage the surface backpressure in MPD and UBD operations.

Advantages & Features

- Smart MPD Equipment System
- "High Rate" Mud Gas Separator, Skid Mounted (40'x 10')
- Smart MPD Package, LIVE FEED
- DNV Certified approved equipment
- ATEX Zone 1 equipment, CE marked
- GOST Certificate and Passport
- Rated to 5000 psi (34.5 MPa)
- Fully integrated Choke Manifold can be controlled locally or via a remote panel installed anywhere
- Winterized unit
- Equipped with Pressure Relief Valves
- Minimal footprint

Control System

Industry proven MPD software (third party) integrated to MPD hardware provide a range of control options—automatic, semiautomatic, and manual.

Choke Manifolds

Choke manifold customized to include dual flow lines, dual chokes, necessary to manage the surface backpressure in MPD and UBD operations.

The choke manifold consists of Type B gate valves, API certified hydraulic chokes, and adjustable chokes. The choke manifold sees very rugged service during the well kill procedure. Choke manifolds throttles mud, sand and gas as they leave the well.

Flow Measurement System

Together with choke manifold, Coriolis mass flow meter is installed to measure gas-flow velocity, temperature, and pressure to determine actual and standard volumetric flow as well as mass flow rates.

Choke Control Panel

MPD Choke Panel available in two options, manual and automatic, manual MPD choke Panel are traditional Choke Panel require regular intervention. Automatic MPD choke Panel operate based on input set point pressure against Coriolis flow meter and our PLC controls the auto Choke which in turn controls the fine incremental flow control adjustments that way persistent annulus surface's back-pressure during all MPD applications or underbalanced drilling

Liquid Seal Monitoring

The Liquid Seal Monitoring System is an instrumentation system mitigates the risk of liquid seal loss during well control operations. The Liquid Seal Monitoring System includes; Pressure and temperature sensors/transmitters kit to be installed on MGS PLC enclosure (mounted separately) Liquid seal display panel with alarms and pressure differential readouts.

Rotating Control Device

Our MPD equipment suitable to work with automated Rotating Control device (RCD) offering automated control and safety in diverting well returns to a surface separation system during managed pressure and underbalanced drilling applications.

High Rate Mud Gas Separator

High rate Mud Gas Separator specially designed for MPD operation, handles a high rate and high proportion of mud solids and sour gas.

While drilling with an underbalanced mud column operation may experience hydrate plugging as a result of gas expansion through the choke. The liquid seal ensures that separated gas vents safely without breaking through to the mud tanks.



About Kapwell Ltd

Kapwell, a UK based company, is specialist in offering equipment for the Managed Pressure Drilling to the Oil & Gas industry globally.

Kapwell guarantees a high quality for each and every package. If required, we can also provide warranties for complete installations – uniquely offering the client, one responsible supplier for the entire package

Kapwell's vision is to be one of the leading offshore equipment companies for MPD equipment supply, repair, replacement parts and field service. We offer our global customers lifecycle support that includes equipment commissioning, training, technical support, re-certification and repair services. With a total commitment towards service and on-time delivery, all contracts from major installations through to maintenance projects are tailor made packages designed and project managed to suit the individual client's requirements.

Smart MPD Equipment

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Health and Safety

Kapwell has a strong and clear commitment towards HSE and take their responsibility very seriously. We ensure that our equipment is correctly sized, complaint and certified to highest standard to avoid relevant health risks at all times.



All components utilized within our packages are engineered and manufactured by companies with recognized reputations for producing only the best quality parts, backed by equivalent (if not better) guarantees to those of the original manufacturer. Accredited with ISO 9001 – offering excellent material traceability records.

Contact us

From arctic conditions, deserts, remote locations to harsh offshore facilities and aggressive desert environments, Kapwell provides world-class products and services.



Contact Us

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