Our mud control system provides full control of the complete drilling fluid process. The system is application based and give our customers the full flexibility to monitor and control specific systems, or to upgrade existing systems.

In our advanced and well-proven mud control system, we combine decades of mud process experience with top-of-the-line automation technology. The result is a scalable and easy-to-adjust system that can be used for smaller installations, as well as for complete drilling rigs. We can supply all stages, from a manually controlled process, to advanced and automatic applications.

The drilling fluid management system has process pictures in the human-machine interface (HMI), with a strong focus on the operations. By this we ensure fast, safe and easy-to-use actions.

Available control systems:

**Drilling fluid management system**
- Diagnostics and communication
- Mud process control
- Alarms

**Mud real time monitoring**
- Well in/out instrumentation

**Bulk storage and transfer system**
- Auto transfer
- Content selector and control
- Bulk weight and content reports
- Remote control valves

**Mud additive system**
- Surge tank control
- Sack-cutting unit control
- Liquid additive control
- Machine safety control

**Mud circulation and storage**
- Level and density control
- Pumping and agitation control
- Remote control valves
- Auto mixing circulation

**Solids control equipment**
- Remote control of shakers, degassers
- Remote control valves
- Remote control pumps and screw conveyors

**Benefits**
- Integrated in the same platform as our DrillView™ system for drilling control
- Third party equipment integration
- Allows automated processes and remote control of the mud process
- Reduced contamination, spillage and waste generation
Our application based mud control system allows for flexible customer selections and upgrades.

### Technical Specifications

| Hardware | Remote I/O cabinets
|          | PLC cabinet
|          | VFD cabinet
|          | Frequency converters
| Network  | Profibus DP network (fibre and/or copper)
|          | Profinet
|          | Profibus PA network
| Voltage and power | 230Vac/440Vac/690Vac (Can be adjusted to customer requirements on request)
| Design temperature | 14/122° F (-10/+55° C)
| Control system | PLC - Simatic S7
|                | HMI - Simplicity
| Operator panels | Multiple client stations (desktop panel PC). Industrial HMI stations
| Hazardous area classification | Non-hazardous
| (according to IEC 60079-10-1) | Optional: zone 1, zone 2
| EX certification type | Optional: ATEX, IECEx
| Alarm system | Based on YA710/711
| Options | Integration to other systems. Redundant CPU

Data is subject to confirmation by the manufacturer.