

MOBA MDS-1000 & MDS-2000 DRILLING SYSTEMS
FOR MORE POWER AND EFFICIENCY



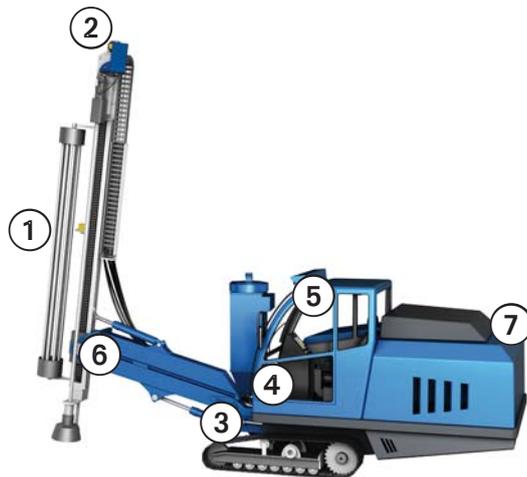
MOBA[®]
MOBILE AUTOMATION

MOBA DRILLING SYSTEMS

PRECISE DRILLING, FOR ACCURATE RESULTS

When using machines in quarries and mines, reliability, speed and safety all play key roles in ensuring project success. The ability to work economically and efficiently is a decisive factor in protecting your company's competitiveness. In addition, extremely accurate results are required when using drilling devices in such environments — accuracy helps create a seamless workflow, in blasting work for example, and contributes to safety. And that's exactly what using a MOBA MDS drilling system allows you to achieve. The system reduces the cost of drilling devices and optimises drilling results, while documenting the results of your work. Depending on the add-ons you choose for your drilling systems, they can measure bore depth and angle, record motor performance details for the machine and save all data for your accounts and for planning later drilling work. Each individual borehole can be separately controlled and monitored with the help of a drilling system. This allows you to create each bore hole exactly according to specifications, giving you precise drilling results. There is no need for correction work, which saves time and expense, and allows you to use your machine more efficiently.

COMPONENTS	MDS-1000 Level	MDS-1000 Drill	MDS-2000	MDS-2000 Advanced
» HMI ^{mc} control panel	✓	✓	✗	✗
» GD-320 control panel	✗	✗	✓	✓
» Depth finder	✗	✓	✓	✓
» Mast Tilt	✓	✓	✓	✓
» Boom sensor	✗	✗	✓	✓
» Direction finder	✗	✗	✓	✓
» Laser for height reference	✗	✗	✓	✓
» Telemetry module	✗	✗	✗	✓
» GNSS compass	✗	✗	✗	✓
» Controller	✗	✗	✓	✓



MSS-322 Slope sensor



MRS-305 Depth finder



MRS-305 Boom sensor



MPC-120 Controller



MRS-305 Direction finder



CLS-3000 Laser



GNSS compass

MOBA MDS-1000

HIGHLY FLEXIBLE SYSTEM FOR A WIDE RANGE OF APPLICATIONS

The **MDS-1000 Level** is a simple display system to show the orientation of your tool. It can be used for all applications in drilling and pile driving. The machine operator can choose between an angular or bar display. He can also adjust the target angle.

The **MDS-1000 Drill** is an extension to the MDS-1000 Level. The display allows you to select the depth measurement and bar replacement with a drill stop display. The system replaces analog measurement technologies and enables a smooth workflow without interruptions for manual control measurements. The flexible programmable color display shows real-time values any times. This allows you to complete drilling jobs precisely and according to specifications.



System functions:

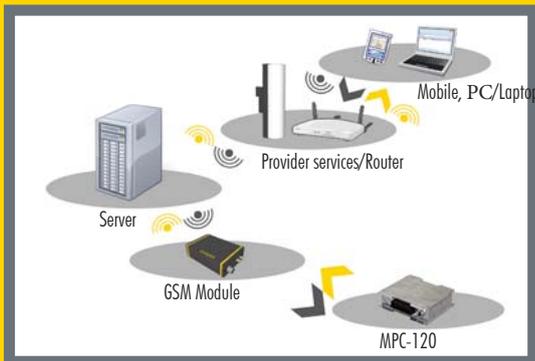
- » Angle measurement
- » Depth measurement
- » Easy-to-use graphic display
- » LED console
- » Highly programmable
- » Suitable for the widest possible range of applications

MOBA MDS-2000

COMPLETE SOLUTION FOR CONTROLLING DRILLING DEVICES

The **MDS-2000** is specially developed as the ideal system for blast hole drilling, to provide precise results and to ensure that your drill is used efficiently. The MDS-2000 allows you to make dependable plans for your use of machinery, to do the work precisely and to do the accounts straight away. The system is connected to the machine via an interface and actively monitors the drilling process. In addition to the drilling depth and drilling angle, the MDS-2000 also records the performance of the drill's motor. A uniform drilling depth can be achieved using a laser reference level, even on very rugged sites. The machine's orientation can also be obtained by means of a direction finder.

The **MDS-2000 Advanced** has the additional capacity to integrate a telemetry module, making it possible to access the machine remotely. For example, the MOBA Service Team can use this feature to make updates and complete servicing operations quickly, without requiring the time-consuming intervention of a specialist technician. Wireless data exchange between office and machine is also possible at any time. Data can be imported in a variety of formats and can be exported as an Excel table. You can also use the system to import and use Quarry X data simply and easily. Drilling and machine data can be called up via the web interface at any time and the current position of the machine is shown on a digital map. The MDS-2000 Advanced works with the GNSS compass, which allows you to adjust the carriage even more easily and without difficulty.



Benefits of telematics

- » Direct data download to PC or mobile device
- » Machine's location shown on digital map
- » Remote control of a digital output
- » Increased safety through remote control motor cutoff
- » Statistics available for service and maintenance intervals and for accounts
- » Teleservicing



Additional features:

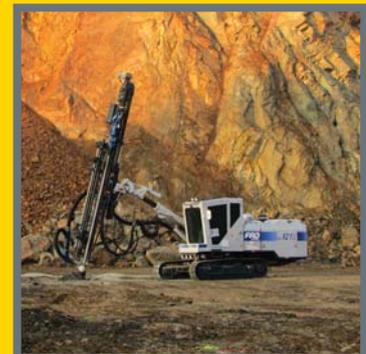
- » Data import from Quarry X and Excel
- » Reference laser for depth measurement
- » Motor data management
- » Six separate user profiles
- » Audio-visual warning function
- » Saves and reports drilling problems
- » "Crosshair" display of corrections
- » Adjustable value for angular tolerances
- » Grinding interval alerter
- » Display of current and average infeed

SYSTEM COMPARISON

MDS-1000 LEVEL AND DRILL, MDS-2000 AND MDS-2000 ADVANCED



FUNCTIONALITIES	MDS-1000 Level	MDS-1000 Drill	MDS-2000	MDS-2000 Advanced
» Parallelism correction	✗	✗	✓	✓
» Angular adjustment	✓	✓	✓	✓
» Depth control (drill stop)	✗	✓	✓ (active)	✓ (active)
» Bar replacement	✗	✓	✓	✓
» Telescope (bearing directions)	✗	✗	✓	✓
» Recording machine data	✗	✗	✓	✓
» Drilling log	✗	✗	✓	✓
» GNSS compass (bearing directions)	✗	✗	✗	✓
» Remote data import/export	✗	✗	✓	✓
» Laser reference for depth control	✗	✗	✓	✓
» Telemetry	✗	✗	✗	✓



WHEREVER YOUR MACHINES ARE IN USE,
WE ARE CLOSE BY.



MOBA location
 Dealer

MOBA worldwide

After you purchase our products we won't leave you to fend for yourself. In addition to headquarters in Limburg/Lahn and German branch offices in Dresden and Langenlonsheim, MOBA is represented by its subsidiaries in Europe, USA, India and Asia, and by a worldwide dealer network in all key markets in the sectors it serves.

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