DR410i

PRODUCTIVITY UNMATCHED
The iSeries family of rotary blasthole drill rigs represents the next generation of surface drilling technology. Designed for the future, these automation capable drills are equipped to meet your needs today and in the future.

iSeries drill rigs simplify operation using automated functions while an intuitive user interface delivers a consistent operator experience across multiple drill models. The comprehensive Sandvik Intelligent Control System Architecture (SICA), a key component of our iSeries family, provides the operator with real-time feedback regarding the machine’s performance and health, along with tools for drill planning, reporting and analysis ensuring quality and consistency hole-to-hole.
THE DR410i

Compact, powerful and technologically advanced, the Sandvik DR410i is designed to deliver unmatched productivity and return on investment for 6”-9 7⁄8” (152-251mm) rotary and DTH holes, with a standard mast offering a first pass capability of 10m (33ft) and a max depth of 46.6m (153ft). The extended mast option delivers a first pass option of 14m (46ft) with a total depth capacity of 32.3m (106ft) across all recommended pipe diameters. The DR410i is automation-ready and builds upon our history of delivering our customers safe, productivity-enhancing solutions. The three key principles that led the innovative design efforts that brought the DR410i to life are safety, productivity and value.

SAFETY
Keeping personnel protected

Key safety features are in place to protect mine site personnel from injury while minimizing risks in dangerous environments. Ergonomic features enhance the operators interface with the machine leading to improved production.

PRODUCTIVITY
Durability and innovation enhance performance

Key features of the DR410i work collectively to increase productivity. Our Sandvik Intelligent Control System Architecture (SiCA) provides the operator with real-time feedback regarding the machine’s performance and health, allowing for easier troubleshooting and timely preventative maintenance. This advanced troubleshooting helps you identify problems before you pick up a wrench.

VALUE
Improve operation efficiency while cutting costs

The DR410i is equipped with value enhancing technology that delivers the quality customers expect from our products. AutoMine® Onboard automation control features such as assisted setup and drilling with multi-pipe capability increase hole-by-hole productivity and machine availability.

Top Safety Features

• Ergonomic cab environment reduces operator fatigue, improving productivity
• Easy, safe access to mast via dedicated ladder and FRP infill, certified tie-off points satisfy working at height concerns during mast inspections
• Patented deck wrench allows bit change with optional remote control crane reducing the chance for injury caused by manual bit handling

Top Productivity Features

• First-pass depth to 14m without need to add pipe improves hole quality and productivity
• Live oil sampling station eliminates unnecessary fluid changes due to contamination of closed loop system saving money and reducing downtime
• Fast-fill fluid service center reduces time for scheduled daily tasks (fluid fills), improving utilization, limiting chances of fluid spills and potential negative environmental impact

Top Value Features

• Scalable Automation Package - AutoMine®
  - AutoMine® Onboard
  - AutoMine® Multi-Lite
• High-pressure (1450 scfm) option provides customers a powerful solution in the small drill market without the need to “over-buy” a larger drill
DRILLING CAPABILITY
*Designed to perform to your specifications.*
- 152 – 251 mm (6” – 9 ⅞”) Diameter Blasthole
- First Pass Capacity 14m (46ft) with Extended Mast*
- Max Hole Depth 46.6m (153ft)

AUTOMATION
*Increasing productivity through AutoMine® automated features.*
- AutoLevel & AutoMast
- AutoDrill*
- Remote Operation*
- High Precision Navigation*

OPERATOR ENVIRONMENT
*Comfort and safety are paramount.*
- FOPS Tested to Meet ISO 3449 Level II
- Superior Visibility of Drilling Operation
- Function Lockout Fail-Safe Programming
- Seat-Mounted Touchscreens for Ease of Operation

ACCESSIBILITY & MAINTENANCE
*Improving serviceability through ease-of-access.*
- Hydraulic Actuated Main-Access Stairway*
- Safer, Improved Mast Access with Certified Tie-Off Points and FRP Mast Infill
- Centralized Service Center to Speed Replenishment of Machine Fluids
- Open Design with Walkways for Safe, Easy Maintenance

COMPRESSOR MANAGEMENT
*Our solution to the inherent inefficiencies of blasthole drilling.*
- Reduces the Compressor Load
- Reduces Wear and Tear on Engine and Compressor
- Reduces Fuel Consumption
- Extends Maintenance Intervals
- Reduces Environmental Impact

PROVEN DESIGN
*Built with a wide range of needs in mind.*
- Designed to operate in conditions ranging from extreme cold to intense heat

*Optional
AUTOMINE®
SURFACE DRILLING
AUTOMATION THAT SCALES WITH YOUR OPERATION

SAFE, COST EFFECTIVE MINING
- Multi-drill control by one operator
- Operator out of hazardous environment
- Reduced exposure to noise, dust and vibration

INCREASED PRODUCTION
- Continue drilling over shift changes

REDUCED COST

IMPROVED HEALTH & SAFETY

CONTINUOUS OPERATION

CONSISTENT OUTPUT

MULTI-MACHINE CONTROL

REDUCED EQUIPMENT DAMAGE

REDUCED EXPOSURE

OPERATOR COMFORT
Sandvik is a world leader in automation, implementing digital mining solutions for more than two decades. Sandvik’s AutoMine® and OptiMine® solutions are working in more than 80 mines around the world.

The AutoMine® product family allows customers to scale up automation at their own pace. AutoMine® covers all aspects of automation, from remote and autonomous operation of a single piece of equipment, to multi-machine control and full-fleet automation. Combined AutoMine® installations have logged more than 3 million hours with zero Lost Time Injuries.

Our AutoMine® and OptiMine® systems are backed by Sandvik experts around the globe.

AUTOMINE® SURFACE DRILLING OFFERING

ONBOARD
Onboard Equipment Automation

MULTI-LITE
Line-of-sight or Control Room Automation for 1-3 Machines

FLEET
Control Room Automation with Fleet Control

SANDVIK AUTOMATION
## MACHINE SPECIFICATIONS

### DR410i

<table>
<thead>
<tr>
<th>Metric</th>
<th>Imperial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hole diameter</td>
<td>152-251 mm</td>
</tr>
<tr>
<td>Maximum hole depth - Std. Mast</td>
<td>46.6 m</td>
</tr>
<tr>
<td>Maximum hole depth - Ext. Mast</td>
<td>32.3 m</td>
</tr>
<tr>
<td>First pass capability - Std. Mast</td>
<td>10 m</td>
</tr>
<tr>
<td>First pass capability - Ext. Mast</td>
<td>14 m</td>
</tr>
</tbody>
</table>

### FEED

<table>
<thead>
<tr>
<th>Metric</th>
<th>Imperial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum pulldown</td>
<td>222.4 kN</td>
</tr>
<tr>
<td>Weight on Bit</td>
<td>258 kN</td>
</tr>
<tr>
<td>Feed rate up</td>
<td>0 - 48.7 m/min</td>
</tr>
<tr>
<td>Feed rate down</td>
<td>0 - 25.9 m/min</td>
</tr>
</tbody>
</table>

### POWER GROUP

**Engine options:**
- Cummins QSK19 (Non tier 4) 563 kW 755 hp
- CAT C18 (Non tier 4) 521 kW 700 hp
- CAT C18 (Tier 4) 563 kW 755 hp

**Compressor options:**
- Rotary drilling 45.3 m³/min @ 6.9 bar 1,600 scfm @ 100 psi
- DTH drilling 41 m³/min @ 24.1 bar 1,450 scfm @ 350 psi

### ROTATION

<table>
<thead>
<tr>
<th>Metric</th>
<th>Imperial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>112 kw</td>
</tr>
<tr>
<td>Speed</td>
<td>0-160 rpm</td>
</tr>
</tbody>
</table>