ROBBINS 53RH C

Low-profile raise drill for holes ranging from 1.2 to 2.4 m (4-8 ft.) in diameter
SMART IN THE UPS AND DOWNS OF DRILLING

THE ROBBINS 53RH C IS A UNIQUE MULTIPURPOSE RAISE DRILL, ABLE TO PERFORM UPWARDS BOXHOLE BORING AS WELL AS CONVENTIONAL RAISE BORING WITH NO NEED TO MODIFY THE DRIVE ASSEMBLY. THE 53RH C IS CLEVERLY COMPACT YET POWERFUL, GRANTING IT GREATER FLEXIBILITY TO TACKLE A VARIETY OF TOUGH APPLICATIONS WHERE WORKSPACE IS RESTRICTED.

+ MAIN BENEFITS

Adaptable and efficient: The hydraulic-drive engine features variable speed and torque-limiting controls to keep you up and drilling longer at maximum efficiency.

Durable and dependable: Human errors are prevented with built-in interlocks. Valuable functions include anti-jamming, auto makeup and gradual power ramp-up during pilot drilling and reaming.

Mighty and multipurpose: The main gearbox features two float boxes to easily switch from raise to boxhole mode. Two double-acting telescopic cylinders can exert equal thrust in both directions.
BUILT-IN SMARTS

ROBBINS RAISE DRILLS FEATURE THE WIDELY ACCLAIMED RIG CONTROL SYSTEM (RCS) FROM ATLAS COPCO FOR SMART, USER-FRIENDLY OPERATION. ADVANCED COMPUTER TECHNOLOGY IS UTILIZED TO IMPROVE DRILLING ACCURACY, WHILE INTEGRATED DIAGNOSTICS AND AN EVENT LOGGING SYSTEM ASSIST IN EQUIPMENT MAINTENANCE.

+ SAFE, STURDY AND EFFICIENT

The sturdy, ground-loading pipe loader allows for safe and easy pipe handling throughout the whole operational range (inclination) of the machine. The hydraulic drive features controls to precisely adjust speed and torque for optimal efficiency.

+ NO MUCKING AROUND

To enable the reamer and stabilizers to pass, the muck chute is designed in two halves that can be opened by remote-controlled hydraulic cylinders. The rubber seal effectively helps to contain muck and dust.

+ COOL RUNNINGS

The optional closed-loop cooling system is a stand-alone unit that can be easily fitted to all Robbins machines, new and old. Straight from the factory, the cooler can easily be attached to a machine’s existing hydraulic unit with quick-fit connecting hoses.

ATLAS COPCO SERVICE – IT’S NOT JUST ABOUT OUR PROMISES, IT’S ABOUT DELIVERY

We offers several levels of service agreements to meet the requirements of your operation and to secure your productivity. Our service agreements help you build a quality operation focused on proactive, planned maintenance to minimize unplanned downtime. We support maintenance with detailed parts information on every piece within our full inventory of components, accessories, and tools.
### TECHNICAL SPECIFICATIONS

#### OPERATION DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>SRH</th>
<th>SRH EX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raise diameter</td>
<td>5.8</td>
<td>5.8</td>
</tr>
<tr>
<td>Range</td>
<td>1.2-2.4 m</td>
<td>4.6-6</td>
</tr>
<tr>
<td>Range length</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal</td>
<td>490 m</td>
<td>1600 ft</td>
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<tr>
<td>Maximum range</td>
<td>754 m</td>
<td>2500 ft</td>
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<tr>
<td>Maximum torque</td>
<td>153 kNm</td>
<td>115 000 ft-lbs</td>
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<tr>
<td>Stroke</td>
<td>141 000 mm/100 lbs</td>
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</tr>
<tr>
<td>RPM</td>
<td>2.205 rpm</td>
<td>753 100 lbs</td>
</tr>
<tr>
<td>Feed rate</td>
<td>0.6 m/min</td>
<td>2 ft/min</td>
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<tr>
<td>Bailing</td>
<td>400 l/min</td>
<td>159 gallon/min</td>
</tr>
</tbody>
</table>

#### ELECTRICAL

- Power supply: 400-540 V (50/60 Hz)
- Frequency: 50-60 Hz
- Electrical power: 317/363 kVA (50/60 Hz)

#### DRILL PIPE

- Diameter: 286 mm 11 ¼" std. strength
- Optional: 254 mm 10"
- Length: 7.6 m 25 ft
- Pitch: 371 mm 12 ³/₄" std.
- Optional: 371 mm 12 ³/₄" std.
- Cooling water: 90 l/min 21 gallon/min
  
#### DERRICK

- Conventional Raise boring: 53RH 53RH EX
- Height extended: 2 900 mm 113" 3 850 mm 152"
- Height retracted: 2 900 mm 113" 3 850 mm 152"
- Width: 2 200 mm 86" 2 200 mm 86"
- Weight: 15 720 kg 34 856 lb 21 800 kg 48 081 lb
- Thrust pack angle: 90° 90°

#### DRIVE PACK

- Length: 3 055 mm 120"
- Height: 1 545 mm 60"
- Weight: 4 100 kg 9 040 lb

#### THRUST PACK

- Length: 2 300 mm 90"
- Height: 1 545 mm 60"
- Weight: 4 100 kg 9 040 lb
COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time. This is what we call – Sustainable Productivity.

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