# THE JOURNEY TO AUTONOMOUS DRILLING

## IT ALL STARTS WITH

<table>
<thead>
<tr>
<th><strong>CAT</strong> TERAIN FOR DRILLING:</th>
<th><strong>CAT</strong> COMMAND FOR DRILLING:</th>
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</thead>
<tbody>
<tr>
<td>Drill to plan for a more even, efficient blast and reduced costs downstream</td>
<td>Semi-autonomous and autonomous functions increase safety, consistency and utilization</td>
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<th><strong>High-Precision Guidance:</strong></th>
<th>Up to four times more accurate in hole positioning</th>
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<td><strong>Hole Depth Control:</strong></td>
<td>Reduces over- and under-drilling of holes to within 10 cm, even on rough ground</td>
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<tr>
<td><strong>Production Monitoring:</strong></td>
<td>Tracks consumable use and provides operator alerts, increasing safety and efficiency</td>
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</tbody>
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## REDUCE LOST-TIME INCIDENTS

## LOWER CONSUMABLE COSTS

## IMPROVE LOADING PERFORMANCE

## AUTO DRILL ASSIST

Automates each step of the drilling cycle:
- Auto Level
- Auto Mast (raise & lower)
- Auto Drill (single pass)

Available on Cat® C-Series drills and the MD6640

## SEMI-AUTONOMOUS

Automates the entire drilling cycle for one row:
- **Single Row:** Operators monitor the machine from a safe distance while it drills a single row
- **Multiple Machines:** A single operator can set up and monitor up to three drills

## AUTONOMOUS

Automates drill cycles and tramming for the entire blast pattern:
- **Multiple Rows:** An operator can set up a machine to drill multiple rows
- **Operator Flexibility:** An operator can have complete control of multiple drills, simplifying shift change and increasing labor efficiency

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