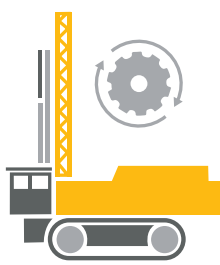




# DRILLING AUTOMATION MAKES EVERY SHOT WORTH MORE

Cost-effective, high-quality drilling gets your whole mining value chain off to a good start. Cat® MineStar™ Command for drilling helps you achieve excellent results through drill automation—which will ultimately reduce costs and improve productivity from the blast to the bottom line.



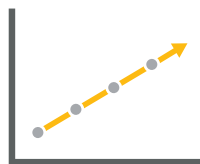
## UTILIZATION

Cat MineStar Command automates the drilling cycle enabling each operator to manage more than one machine. The system facilitates short breaks and quick shift changes while drilling continues, giving you more working time and less idle time during every shift.



## ACCURACY

Precision satellite guidance capabilities ensure that every blasthole is drilled in exactly the right location. Plus, every hole is drilled to the designed toe elevation, regardless of surface variations, so each shot produces a smooth, level bench that saves wear and tear on tires, undercarriage and other equipment.



## CONSISTENCY

Automated drilling functions ensure consistency by maintaining drill operation within ideal working parameters, resulting in shorter cycle times, increased productivity, lower cost per meter, and less machine wear.



## BLASTHOLE QUALITY

Using automated drilling to stay within optimum operating parameters results in quality holes with higher stand-up times and reduces the need for rework. When holes are drilled right, shots produce more consistent fragmentation that improves bucket and truck fill factors, reduces the need for additional rock breaking, and maximizes crusher efficiencies.



## LABOR COSTS

Because Command allows one operator to manage multiple machines at once, you can reduce labor costs. It also enables remote operations that reduce or eliminate the costs for operator travel and on-site housing.



## SAFETY

The system minimises the risk of drilling into bootlegs that may contain undetonated explosive material. The use of digital drill plans and remote operations enhance safety by reducing the number of survey and operating personnel needed on the bench.

For more information, go to [www.cat.com/minestar](http://www.cat.com/minestar) or contact your local dealer.