

# CAT<sup>®</sup> DTH HAMMERS AND BITS





# DRILL FASTER

# DRILL LONGER

Drilling sets the tone for your whole operation, impacting the speed, efficiency and cost of all downstream operations.



**Cat<sup>®</sup> Down-the-Hole (DTH) Hammers and Bits offer fast and reliable operation that lets you cut down on costs, reduce time spent drilling and get to work producing as soon as possible.**

Cat DTH Hammers are designed to drill faster and last longer in even the toughest blasthole applications. Efficient design, proprietary materials and advanced heat-treating give them superior wear life profile, resulting in reliable operation and a long life—even in the toughest drilling conditions.

# A VARIETY OF TOOLS TO MEET YOUR NEEDS

Cat DTH Hammers come in three configurations to best suit your application's specific needs. Each has a unique design that manages impact force and piston frequency to deliver an optimal rate of penetration. All are made of advanced materials, resulting in a fast-hitting, long-lasting piston that can help you get more out of your operation.





## SD HAMMER

75-250 Mpa

This hammer is suited to a wide range of applications. The piston design is 18% heavier than comparable high-frequency hammers. The hammer's focus is high impact load at reduced blow frequency suitable for low- or medium-hardness rock formations. It's a simple and robust design for cost-focused drilling operations.



## HP HAMMER

250-550 Mpa

This hammer is built tough for production drilling in hard rock. It has an optimized performance curve of impact force and blow frequency for the upper range of rock hardness. In the 6-inch class, it has a tunable air valve that can be adjusted for different air packages, adapting to your on board compressor capacity. And its reversible barrel design maximizes wear characteristics.



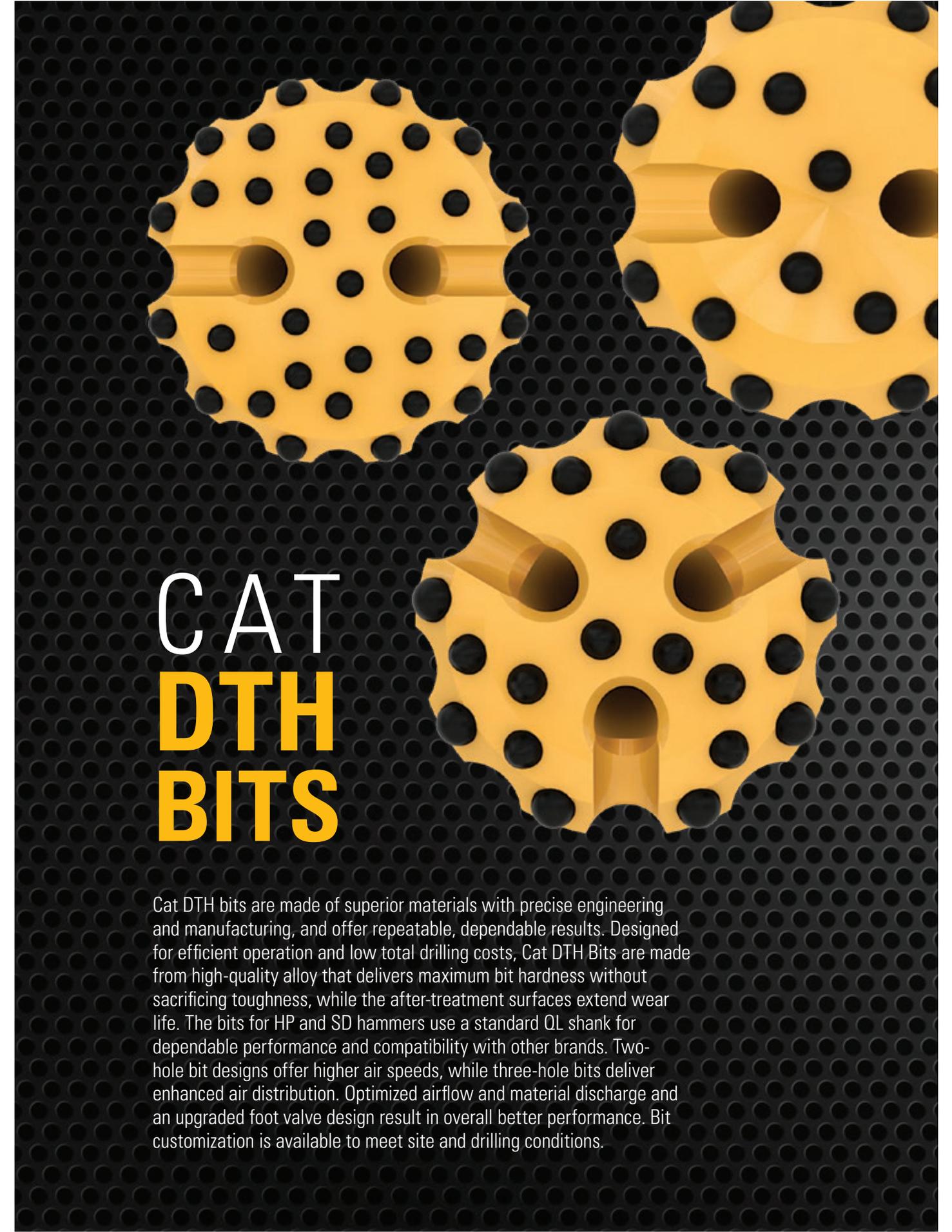
## TF HAMMER

150-360 Mpa

This hammer has the same attributes as the HP hammer, but it is shorter and lighter—making it easier to handle. Additionally, this hammer design is valveless and uses shorter shank bits, giving it maximum durability with fewer part replacements required. An exclusive bit shank design features a retention system consisting of a three-piece drive chuck and an internal sleeve. The sleeve is a unique wear item that lowers drive chuck replacement costs, further driving down your operating costs.

In the 6-inch class, the HP and TF hammers feature an adjustable air distributor that can be customized to specific air packages for maximum performance. Each setting delivers optimized cycle times for higher BPM (blows per minute). There are three settings to match the hammer air consumption to the drill air package output. Using the ideal setting reduces premature wear and energy waste while delivering optimum drilling speed.

- + 900 cfm default
- + 25% higher BPM at 1,200 cfm
- + 12% higher BPM at 1,070 cfm



# CAT DTH BITS

Cat DTH bits are made of superior materials with precise engineering and manufacturing, and offer repeatable, dependable results. Designed for efficient operation and low total drilling costs, Cat DTH Bits are made from high-quality alloy that delivers maximum bit hardness without sacrificing toughness, while the after-treatment surfaces extend wear life. The bits for HP and SD hammers use a standard QL shank for dependable performance and compatibility with other brands. Two-hole bit designs offer higher air speeds, while three-hole bits deliver enhanced air distribution. Optimized airflow and material discharge and an upgraded foot valve design result in overall better performance. Bit customization is available to meet site and drilling conditions.



Our bits are tested in labs and in the field, so you can be sure that you're getting a dependable product that stands up to the challenging conditions of your site.

Digital testing takes place in a variety of hardness conditions using Cat® Rocks 3D™, an advanced software analysis system that analyzes strength and airflow. In the field, we obtain machine and tool performance data to make recommendations to best match the product to the application.

## DTH BIT SELECTION CODE

BIT DIAMETER		FACE SHAPE		GAUGE BUTTON (OUTER ROW)		INTERMEDIATE ROW & FACE	
mm	inch		ID	Qty x Size	ID	Size	ID
165	6 1/2	Concave	CC	8 x 16mm	1	—	0
171	6 3/4	Convex	CV	8 x 18mm	2	16mm	2
200	7 7/8	Flat Face	FF	8 x 19mm	3	18mm	3
203	8	Concave-Convex	CCV	9 x 16mm	4	19mm	4
216	8 1/2			9 x 18mm	5		
222	8 3/4	<b>FLUSHING HOLE</b>		9 x 19mm	6	<b>WEAR PROTECTION BUTTONS</b>	
229	9	2		10 x 16mm	7		ID
241	9 1/2	3		10 x 18mm	8	Gauge protection	GP
251	9 7/8	<b>BUTTON TYPE</b>		10 x 19mm	9	Back reaming	BR
254	10		ID	12 x 16mm	10	Gauge protection + back reaming	GB
		All Spherical	SS	12 x 18mm	11	None	N
	ID	Spherical + ballistic	SB	12 x 19mm	12		
QL60	Q6	DGR (all spherical)	DS	14 x 16mm	13		
QL80	Q8	DGR (S+B)	DB	14 x 18mm	14		
TF60	T6			14 x 19mm	15		

# CAT SUPPORT

FOR LONGER LIFE  
AND LOWER COSTS





Our rock drilling tools are backed by the knowledge, expertise and on-the-ground support of the Cat dealer network.

Parts ranging from base O-rings to replacement sleeves and pistons are readily available, so you can keep your machines hard at work. We also offer service tools such as a teardown bench and bit grinding tools that will help extend product service life. By choosing Cat DTH Hammers and Bits, you gain a partner in your drilling operations.

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#### Your Cat dealer can help

- + Define the right tool for the application
- + Provide training to maximize use and life
- + Provide support for the life of the product
- + Assess machine operating conditions
- + Track tool performance and analyze total drilling cost

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#### Caterpillar also offers

- + Worldwide parts availability
- + High-quality Cat parts
- + Straightforward service manuals
- + Caterpillar-trained service technicians



# MAKING EVERY SHOT WORTH MORE

## CAT® MINESTAR™ SOLUTIONS FOR DRILLING

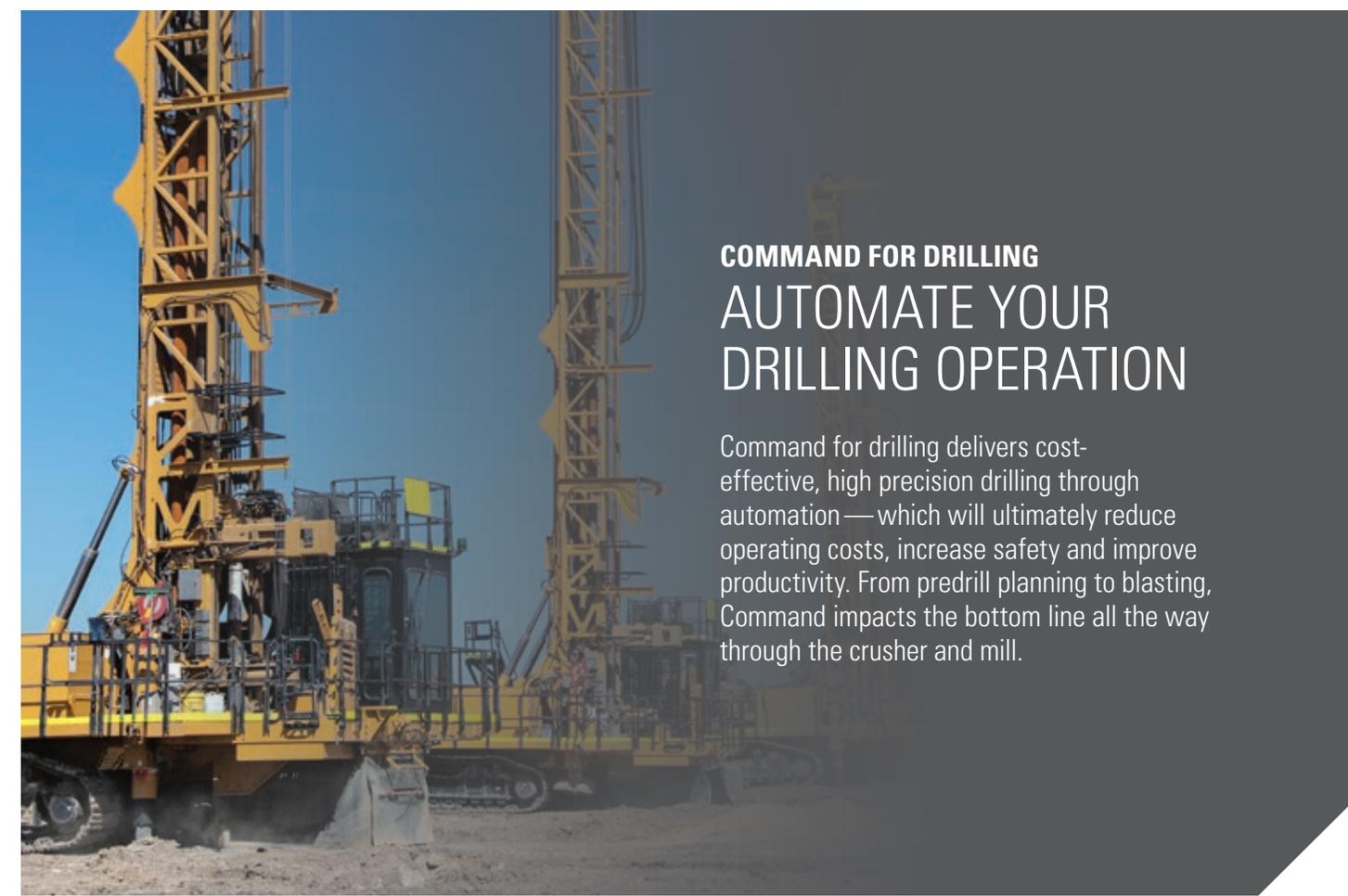
Cost-effective, high-precision drilling gets your whole mining value chain off to a good start. And Cat MineStar Solutions can help. MineStar technologies for drilling help you achieve excellent results — from increased accuracy and consistency to quality fragmentation and better blasthole quality.

MineStar Solutions for drilling include a range of capabilities that let you configure the drilling system to meet your budget and the needs of your site. Features and components serve as building blocks that allow you to easily grow and add features and capabilities at your own pace.



## TERRAIN FOR DRILLING DRILL TO PLAN

Terrain for drilling uses state-of-the-art guidance technologies to help operators drill holes in the exact location and to the exact depth specified by the plan, resulting in smoother, safer and more efficient blasting.



## COMMAND FOR DRILLING AUTOMATE YOUR DRILLING OPERATION

Command for drilling delivers cost-effective, high precision drilling through automation — which will ultimately reduce operating costs, increase safety and improve productivity. From predrill planning to blasting, Command impacts the bottom line all the way through the crusher and mill.



# DTH HAMMERS

For more complete information on Cat products, dealer services and industry solutions, visit us at [www.cat.com](http://www.cat.com)

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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