

# PERFORMANCE & SIMPLICITY

the KEY to TOTAL DEPTH

**T**here are two kinds of drillers as far as tool usage is concerned. Driller A sells or discards the hammer while Driller B services it to keep it in operation. Which one are you?

Generally, Driller A consistently drills to 3,000 feet and finds it too expensive to have hammer problems at the bottom of a deep hole, he, therefore, replaces a hammer after its first life. In the case of a TD 65 DTH Hammer, that could be 30,000 to 40,000 feet.

For Driller B who rebuilds hammers, profitability includes servicing a DTH hammer to maximize its footage

For either driller, reaching total depth in the most efficient manner, then moving on to the next hole is where money is made. And that includes matching productivity to the cost of tooling.

The TD Series incorporates new and improved features focused on productivity. To increase efficiency and profitability Atlas Copco has engineered performance and simplicity into the TD DTH hammer.

**Many drillers have found Atlas Copco's Secoroc TD Series to be more than they expected and most effective in increasing their productivity. As the TD 60 and 65 uses the same QL6 shank used on most hammers, it's easy to try the TD hammer today to see how it increases your penetration rate to total depth.**

## Performance

The air cycle that was first developed for the Quantum Leap series hammer, with its proprietary valve cycle, allows supply pressure to be applied to the piston for 80% of the impact stroke thus delivering higher energy than fixed port designs. The increased compression ratio with the Total Depth also results in greater efficiency.

The large 4.75 inch (120.65 mm) bore of the TD60/65, 1/4 inch (6.35 mm) larger than even the QL series, allows increased power output by matching and optimizing piston-to-bit mass.

The piston guide system uses a floating piston seal to minimize galling and frictional cracking normally associated with misalignment between the backhead and casing. The wear resistant polymer seal also prevents metal-to-metal wear, which robs performance.

## Simplicity

The innovative snap-in cylinder reduces the number of precision parts required to

position the cylinder within the drill thus increasing simplicity and reliability as well as ease of service.

A one-piece rubber check seal replaces the spring and plunger system normally used on DTH hammers. This flapper check seal design is less prone to wear and damage and eliminates the possibility of spring failure.

The backhead saver-ring is used to prevent erosive wear of the backhead and indicates when to reverse the casing or replace it. When it's time to replace externals, an inexpensive saver-ring is used rather than a more costly backhead.

The modular design of the TD60/65 allows the entire tool to be disassembled for service with no special tools, once the backhead and chuck joints have been loosened. Speed and reliability of service means you can return to drilling faster.

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# TOTAL DEPTH

## ATLAS COPCO SECOROC