

# Underground & Surface Drilling Equipment



Mining and drilling operators rely on DSTI products to tackle a wide variety of demanding jobs for optimal productivity and greater component longevity.

Down-the-hole (DTH), in-the-hole (ITH) and blasthole drill rigs are integrated with a rotary union (swivel joint) for delivering a consistent and dependable supply of compressed air to the DTH percussion mechanism (hammer). Air travels from stationary hoses on the rotary drill, through the rotating drill string, and into the hammer. The fast hammering action breaks hard rock into small flakes that are blown clear by the air exhaust from the hammer.

Since 2009, DSTI has supplied more than 750+ field-proven, air swivels for DTH, ITH and blasthole operations used in quarries, open pit mining, underground mines, construction, exploration, oil and gas, and geo-thermal drilling operations. Each featuring exclusive sealing technology and a heavy-duty construction aimed at eliminating common industry failures.

To ensure maximum uptime, DSTI swivels can be designed for quick and easy serviceability. In a matter of minutes technicians can gain access to replace the swivel's main seals; and in most cases while still installed in the equipment.



## FIELD PROVEN PERFORMANCE & DEPENDABILITY

DSTI has supplied more than 750+ air swivels for down-the-hole applications since 2009.



## MAXIMIZE PRODUCTIVITY

Air swivels feature a maintenance-free design to ensure your operations run at maximum productivity.



## QUICK & EASY SERVICEABILITY

Technicians can gain access to the air swivel's main seal in a matter of minutes for minimal equipment downtime.

## PRODUCT HIGHLIGHTS

- 1 Design Leverages DSTI's Extensive Sealing Technology Library
- 2 Field-Proven Design Eliminates Common Industry Failures
- 3 Flow Passages 1"+, Pressure 500 PSI+, Rotation 100+ RPM
- 4 Heavy-Duty, Construction for High Impact, High Vibration Applications
- 5 Proprietary Sealing Surface Treatment Offers Multiple Rebuilds
- 6 Seals are Compatible for Air, Water and Grease
- 7 Quick and Easy Seal Replacement by Removing 6 Bolts and Cap
- 8 Low-Cost Seal Kits Keeps Lifetime Cost of Ownership at a Minimum



# About Us



DSTI specializes in the design and manufacturing of application-specific fluid solutions worldwide.

Between our proven technology and long-term experience working with highly complex applications, we aim to achieve our customers' project goals by reducing costs, increasing efficiency, and decreasing risks.

Our core business segments are fluid rotary unions, electrical slip rings, and value-added products and services providing a single-source solution from design and manufacturing through to testing and qualification - all under one roof.

We conduct our operations to ensure our people work together and take responsibility for the health and safety of ourselves and others, to minimize our impact on the environment and to ensure the best quality in products and services.



## LET'S TALK ABOUT YOUR PROJECT

Contact DSTI to learn more about how we can help you achieve your next project's goals.

**phone** +1 763-404-8000

**email** sales@dsti.com

**web** www.dsti.com

## IN-HOUSE CAPABILITIES & SERVICES



**ENGINEERING & SIMULATION**



**PROJECT MANAGEMENT**



**CNC PRECISION MACHINING**



**ASSEMBLY, TESTING & QUALIFICATION**



**INSPECTION & QUALITY MANAGEMENT**



**WELDING & FABRICATION**