Resharpen your productivity

Drill bit resharpening extends bit life and maintains drilling performance

Cemented carbide is one of the most successful composite engineering materials produced. Its unique combination of strength, hardness and toughness powers the most demanding applications – but working with such high stresses, drill bits are of course subject to extensive wear. Proper resharpening adds considerably to the service life of drill bits. It also enhances the performance of the entire drilling operation. Grinding should always be done in accordance with safety regulations.

Effective resharpening routines

Button bits should be resharpened when penetration rates drop noticeably, or if the cemented carbide shows signs of damage. It is recommended to resharpen before the wear flat on the top of the buttons reaches 50% of the button's diameter.

Setting a fixed resharpening routine encourage good working practice. Depending on bits size, they should be examined and then resharpened, for example, after a specific number of holes, meters reached or at the end of a shift.

Premature resharpening is not necessarily uneconomical, since less carbide needs to be ground off. It is better to resharpen sooner than affect productivity due to damage.

Utilize your valuable grinding data

Sandvik RG600Pro and RG550Be allow you to track and monitor the data generated by your resharpening operations. The data allows for fact-based evaluation of bit resharpening cost, performance of different bit profile sizes, and number of buttons resharpened. You can also track machine health and influencing parameters to achieve the desired bit profile.

Designed for operator safety

Designed to support safe and ergonomic operation, minimizing the risk of incidents and operator fatigue.

Semi-automatic operation

Semi-automated to ensure optimal resharpening quality and high production capacity.

Built-in connectivity

Equipped with built-in Wi-Fi and operator card, allowing quick and secure startup for authorized personnel.

RFID grinding cups

Unique RFID tag, enabling automatic identification when paired with Sandvik resharpening machine.

SANDVIK

Our next generation resharpening machines

The new range of innovative Sandvik resharpening equipment is designed to boost drill bit service life, reduce maintenance downtime and lower your overall drilling costs. You'll also get access to data that helps you resharpen your drilling operations.

Whether resharpening directly at the drill rig or in workshops for high-volume production, our next generation of machines caters to your diverse needs.

Sandvik RG600Pro

A highly efficient plug-and-go stationary precision resharpening machine with safe, user-friendly and operator ergonomic features. Includes multiple bit-loading, adapted bit size programming, Wi-Fi enabled scanning and tracking, as well as access to digital dashboards. Equipped with integrated water recirculating and filtration unit and power vent system.

Sandvik RG550Be

A mid-range, semi-automatic resharpening machine. Stationary, user-friendly plug and go version or battery electric, non-pneumatic rig mounted version. Wi-Fi enabled scanning and tracking, as well as access to digital dashboards. Equipped with integrated water recirculating and filtration unit, as well as power vent system (stationary version only).

Sandvik RG500Hh

A high-powered, pneumatically operated, handheld resharpening machine. It is ergonomically designed, lightweight with an efficient throttle suited for smaller operations. Intended for all sizes of TH and DTH button bits.

Technical specifications

Electrical specifications	220/240 V AC, 50/60 Hz, single phase, 10 amps
Working air pressure	7–8 bar (100–115 psi)
Air consumption	<0.03 m^3/min (<1 cfm)
Recirculation water capacity	60 L
Water / coolant	1.6 l/min (0.42 g/min), max
Sound level	76 dB(A) nominal
Capacity TH bit skirt	Max 180 mm (7")
Capacity DTH bit shank	Max 180 mm (7")
Grinding cups	RFID (ordered separately)

Technical specifications

Electrical specifications (stationary version)	220/240 V AC, 50/60Hz, single phase, 16 amps
Electrical specifications (rig mounted version)	24 VDC (100 A) – 48 VDC (50 A)
Recirculation water capacity	30 L
Sound level	78 dB(A)
Capacity TH bit skirt diameter	Max 140 mm (5.5")
Capacity DTH bit shank diameter	Max 140 mm (5.5")
Grinding cups	RFID (ordered separately)

Technical specifications

Spindle speed	22 000 rpm
Power output	1.8 KW (2.4 HP)
Working air pressure	7–8 bar (100–115 psi)
Air consumption	2.2 m^3/min (78 ft^3/min)
Air hose diameter	19 mm (0.75")
Water hose diameter	6 mm (0.25")
Water / coolant pressure	4 bar (60 psi). max
Sound level	115 dB(A), 82 dB(A) with silencer
Vibration level	< 2.5 m/s^2
Grinding cups	Non-RFID (ordered separately)

SANDVIK