

OPERATING INSTRUCTIONS

STARTING

- INSERT SUPPLY CORD PLUG IN THE MAINS SOCKET.
- PRESS THE "ON" BUTTON ON THE PRCD GROUND FAULT INTERRUPTER(THE LAMP MUST LIGHT)
- PRESS THE "TEST" BUTTON ON THE PRCD GROUND FAULT INTERRUPTER(THE LAMP MUST NOT LIGHT)
- PRESS THE "ON" BUTTON ON THE PRCD GROUND FAULT INTERRUPTER

DRY DRILLING

- PRESS THE ON/OFF SWITCH ON THE TOOL
- WITH THE HOLE-STARTING AID FITTED, BEGIN DRILLING AND CONTINUE UNTIL THE PROJECTING SEGMENTS HAVE ESTABLISHED A KERF IN THE BASE MATERIAL
- SWITCH THE TOOL OFF
- REMOVE THE HOLE-STARTING AID AND CONTINUE DRILLING.

SWITCHING THE TOOL OFF

- SWITCH THE TOOL OFF
- REMOVE CORE IF NECESSARY

SWITCHING ON

- SWITCH THE VACUUM CLEANER ON
- PRESS THE ON/OFF SWITCH ON THE TOOL

SWITCHING OFF

- SWITCH THE TOOL OFF
- ALLOW THE VACUUM CLEANER TO RUN FOR A SHORT TIME IN ORDER TO REMOVE REMAINING DUST BEFORE SWITCHING OFF

HAND-HELD WET DRILLING

SWITCHING ON

- OPEN THE WATER VALVE IN THE SIDE HANDLE UNTIL THE DESIRED WATER VOLUME FLOWS. THE WATER FLOW VOLUME CAN BE OBSERVED AT THE INDICATOR ON THE HAND GRIP
- PRESS THE ON/OFF SWITCH
- WHEN STARTING A HOLE, HOLD THE TOOL AT A SLIGHT ANGLE TO THE WORK SURFACE. THIS MAKES HOLE-STARTING EASIER.
- ONCE THE HOLE HAS BEEN STARTED, BRING THE TOOL INTO THE 90 DEGREE POSITION AND CONTINUE DRILLING

SWITCHING OFF

- SWITCH THE TOOL OFF
- CLOSE THE WATER VALVE ON THE SIDE HANDLE

HAND-HELD WET DRILLING USING THE WATER COLLECTION

- THE CROSSHAIR MARKS AT THE FRONT END OF THE WATER COLLECTION SYSTEM SERVE AS AN ACCURATE POSITIONING AID

SWITCHING ON

- SWITCH ON THE WATER EXTRACTION SYSTEM (IF USED)
- OPEN THE WATER VALVE ON THE SIDE HANDLE SLOWLY UNTIL THE DESIRED WATER VOLUME FLOWS. USE THE INDICATOR ON THE SIDE HANDLE TO CHECK THE WATER FLOW RATE
- PRESS THE ON/OFF SWITCH
- HOLD THE TOOL AT A SLIGHT ANGLE TO THE WORK SURFACE WHEN STARTING A HOLE. THIS MAKES HOLE-STARTING EASIER
- AFTER STARTING THE HOLE, BRING THE TOOL INTO THE 90 DEGREE POSITION AND CONTINUE DRILLING
- SWITCHING OFF
- SWITCH THE TOOL OFF

CAUTION: WHEN DRILLING OVERHEAD, ANY WATER REMAINING IN THE CORE BIT MUST NOT BE ALLOWED TO RUN DOWN OVER THE TOOL.

- CLOSE THE WATER VALVE ON THE SIDE HANDLE
- SWITCH OFF THE VACUUM CLEANER (IF USED)
- REMOVE THE CORE IF NECESSARY

WET DRILLING USING THE DRILL STAND

- SWITCH ON THE (WET) VACUUM CLEANER (IF USED)
- OPEN THE WATER VALVE AT THE SIDE HANDLE SLOWLY UNTIL THE DESIRED VOLUME OF WATER FLOWS. THE INDICATOR AT THE SIDE HANDLE CAN BE USED TO CHECK THE WATER FLOW RATE
- USE THE SWITCH ACTUATOR TO RUN THE TOOL IN SUSTAINED OPERATION MODE
- RELEASE THE CHAIN ARRESTOR
- BRING THE CORE BIT INTO CONTACT WITH THE WORK SURFACE BY TURNING THE HAND WHEEL
- APPLY ONLY SLIGHT PRESSURE TO THE CORE BIT WHEN BEGINNING DRILLING AND THEN INCREASE PRESSURE ONCE THE CORE BIT HAS BECOME CENTERED
- KEEP AN EYE ON THE OVERLOAD INDICATOR WHILE DRILLING. PRESSURE ON THE CORE BIT MUST BE REDUCED IF THE OVERLOAD INDICATOR LIGHTS SWITCHING OFF
- CLOSE THE WATER REGULATION VALVE AT THE SIDE HANDLE
- PULL THE CORE BIT OUT OF THE HOLE
- ENGAGE THE CHAIN ARRESTOR
- SWITCH THE TOOL OFF
- SWITCH OFF THE VACUUM CLEANER (IF USED)
- REMOVE THE CORE IF NECESSARY
- ENSURE STABILITY OF THE DRILL STAND BY LOWERING THE TOOL AND CORE BIT TO THE BASE PLATE

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To avoid injury, use only genuine Hilli core bits and DD 150-U accessories.

Observe the safety rules and operating instructions for the accessories used.

Observe the information printed in the operating instructions concerning operation, care and maintenance.

Nationally applicable industrial safety regulations must be observed.

The machine, accessories and cutting tools may present hazards when handled incorrectly by untrained personnel or when used not as directed.

Use of the water collection system in conjunction with a wet-type industrial vacuum cleaner is a mandatory requirement for wet drilling overhead.

Use of the vacuum fastening method for overhead drilling is prohibited.

An additional means of securing the drill stand must be employed when the machine is secured with the vacuum base plate (accessory) for horizontal drilling.

Do not strike the base plate with a hammer or other heavy object when making adjustments to it.

Tampering with or modification of the machine, drill stand and accessories is strictly prohibited.

WARNING

The machine may be operated only when connected to an adequately-rated electric supply equipped with an earth (ground) conductor.

WARNING

Drilling into materials hazardous to the health (e.g. asbestos) is not permissible.

DANGER

Use only the genuine Hilli accessories or ancillary equipment listed in the operating instructions. Use of accessories or ancillary equipment not listed in the operating instructions may present a risk of personal injury.

2.2. Use of the machine with various items of equipment				
With / without the drill stand	With / without the system	Core bit diameter	Drilling direction	
Hand-guided / dry	With dust removal system	37...162 mm (1½... 6¼")	All directions	
Hand-guided / wet	Without water collection system	8...132 mm (¼"...5")	Not upwards	
Hand-guided / wet	With water collection system	8... 62 mm (¼"... 2½")	All directions	
On drill stand / wet	Without water collection system	12...162 mm (½"...6¼")	Not upwards	
On drill stand / wet	With water collection system	12...162 mm (½"...6¼")	All directions	
2.3. Gear and corresponding core bit diameters				
On drill stand, wet				
Gear	Core bit diameters (mm)	Core bit diameters (Inches)	Speed under no load /min	
1	102...162	4...6¼	780	
2	28...87	1¼...3½	1.520	
3	12...25	½...1	2.850	

Hand-guided, wet

Gear	Core bit diameters (mm)	Core bit diameters (inches)	Speed under no load /min
1	121..131	4 7/8.. 5	780
2	141..111	1 3/8.. 4 3/8	1.520
3	8..36	3/8.. 1 1/2	2.850

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Hand-guided, dry, TFS

Gear	Core bit diameters (mm)	Core bit diameters (inches)	Speed under no load /min
1	122..162	4 3/4.. 6 1/4	780
2	67..112	2 3/4.. 4 1/4	1.520
3	37..62	1 1/2.. 2 1/2	2.850

Hand-guided, dry, TFS

Gear	Core bit diameters (mm)	Core bit diameters (inches)	Speed under no load /min
1	52..162	2.. 6 1/4	780

2.4 Status indicator

LED indicators	State	Description / information
Thrift protection indicator (11)	Blinking yellow light	The machine's thrift protection system is active and must be unlocked with the TFS key.
Service indicator (12)	Red light and the machine starts	The carbon brushes are badly worn. After five lamp lights for the first time, the machine may continue to be used for several hours before the automatic cut-out is activated. Have the carbon brushes changed in good time so that the machine is always ready for use. The carbon brushes must be changed. Temporary/fault, see Troubleshooting section.
Drilling performance indicator (13) (only in conjunction with the drill stand)	Orange light	Contact pressure too low
	Green light	Optimum contact pressure
	Red light	Contact pressure too high

NOTE

When using the machine for hand-guided coring, the drilling performance indicator gives no indication of the optimum pressure.

2.5 TFS theft protection system (optional)

The machine may be optionally equipped with the TFS theft protection system. If equipped with this feature, the machine can be unlocked and made ready for operation only through use of the corresponding TFS key.