

Atlas Copco Waterwell Drilling Rigs

Light Waterwell Series



TH5, TH10, TH10 LM

Rotary and DTH Drilling

2,270 kg to 12,000 kg (5,000 lb to 26,455 lb) Pullback

Sustainable Productivity

Atlas Copco

LIGHT IN WEIGHT—ROBUST BY DESIGN

Atlas Copco's range of lightweight waterwell drilling rigs have been designed to withstand aggressive rugged environments with minimal maintenance in the remotest regions of the world.

Hydraulically powered through a deck engine, the flexibility of the range ensures a multipurpose top-head drilling rig designed to drill water and bore wells using mud rotary, air and down-the-hole hammers.

TH5: COMPACT DRILL RIG

The smallest of the light waterwell range, the TH5 is ideal for remote waterwell projects in tight locations. It is designed for mounting on a truck, trailer or light commercial vehicle and is light enough to get to remote locations. The TH5 is designed for rotary mud drilling to a diameter of 200 mm (7 7/8 in) and a depth of 60 m (200 ft) or DTH drilling up to 104 mm (4 in) in diameter and a depth of 100 m (328 ft).



TH10: VERSATILE DRILL RIG

A world class drill, the TH10 has proven itself to be a successful reliable drill rig within the light waterwell class. Very simple to operate and maintain, particularly in remote locations using local resources. The TH10 is designed for mud drilling to a diameter of 250 mm (9 7/8 in) and a depth of 150 m (500 ft) or DTH drilling to a diameter of 165mm (6 1/2 in) and a depth of 200 m (650 ft).

TH10LM: PRODUCTIVE DRILL RIG

The largest of the light waterwell range, the TH10LM has the capability to handle 6 m (20 ft) drill pipe. With a reduced number of pipe joints to make and break, the TH10LM achieves greater depths in a shorter time. The TH10LM is designed for mud drilling to a diameter of 250 mm (9 7/8 in) and a depth of 200 m (650 ft) or DTH drilling to a diameter of 200 mm (8 in) and a depth of 300 m (980 ft). The TH10LM has the option of a self-powered onboard compressor.



OUR HISTORY IS **OUR STRENGTH**

With over 350 units sold and millions of feet drilled, the light waterwell range has proven its ability to operate in all conditions all over the world. This range of rigs has become a popular choice for missionary groups and international agencies committed to sustainable productivity.



SIMPLICITY AT **ITS BEST**

The light waterwell range features a simple, reliable power source and hydraulic system. An air-cooled diesel deck engine powers the drill hydraulics. The hydraulic rotary top-head drive generates a hefty torque for each class of drill in the range. The simplistic design of the driller's console allows the driller to quickly become familiar with this drilling rig.



MODULAR PACKAGE **GIVES FLEXIBILITY**

That the light waterwell rig is deck-engine driven offers the customer the option to purchase the drilling rig on a factory supplied truck or purchase as a module to install on a locally made truck or trailer.



DTH HAMMERS— **STRIKINGLY EFFICIENT**

The light waterwell range of drills can be equipped with Atlas Copco's Secoroc DTH range well known for their high performance in terms of speed, reliability, and longevity. With higher penetration rates and lower fuel consumption per meter drilled, our DTH hammers make a positive impact on your bottom line.

A SELECTION OF FEATURES AND OPTIONS

For a more comprehensive options list, please contact your local Atlas Copco Customer Center.



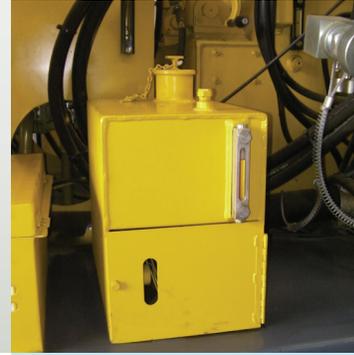
POWER AT THE HEART

A deck-mounted naturally aspirated air-cooled engine drives hydraulic pumps that operate the drill rig's functions. Self-powered drill rigs offer the flexibility to mount on a trailer or on local trucks with ease.



WATER OR FOAM?

An optional water injection system can be fitted to the rig to help break down any mud collars forming on the drill rods, stabilize the hole and reduce dust. A foam injection system is included.



DTH LUBRICATION

DTH hammers require lubrication to resist wear, galling and corrosion. An optional DHD lubricator is available for our drill line. The DHD lubricator injects oil into the air stream and through the hammer.



ON-BOARD MUD

Optional on-board mud is available for formations that require additional assistance in keeping holes open. A 757 lpm (200 gpm) 2X3, 3-stage mud pump for the TH5, and a 565 lpm (150 gpm) 5X6 hydraulic, reciprocating mud pump for the TH10.

GENERAL SPECIFICATIONS

	TH5	TH10	TH10LM
Pullback	2270 kg (5000 lb)	6818 kg (15 000 lb)	12 000 kg (26 455 lb)
Pulldown	1364 kg (3000 lbs)	4080 kg (9000 lb)	7000 kg (15 432 lb)
Rotary Head Torque	92 kgf m (8000 in lbf)	518 kgfm (3750 ft lb)	518 kgf m (3750 ft lb)
Rotary Head Speed	0 to 100 rpm	0 to 85 rpm	0 to 85 rpm
Module Option	Yes	Yes	Yes
Mud Pump Option	Yes	Yes	Yes
Water Injection Option	Yes	Yes	Yes
Breakout Wrench	Manually Operated	Yes	Yes
DHD Lubricator	Yes	Yes	Yes
Winch	No	No	Yes
Deck Engine	Yes	Yes	Yes
On Board Compressor	No	No	Yes