

# FOX-1 LOW NOISE DRILL SYSTEM

The FOX-1 is a rapid deployment low noise drilling system for through-wall surveillance operations.



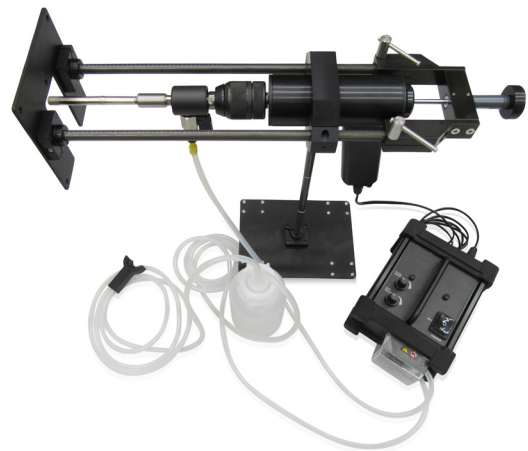
## Simplicity of design, effective drilling and quiet handling are the key features of the FOX-1.

A splash-proof battery powered control unit drives a slow, high torque, low noise drill and a peristaltic water pump. The pump enables the use of water fed diamond core drills - essential for drilling hard materials such as concrete.

Operation of the control unit is simple, via individual pump / drill speed controllers and an ON/OFF/ CHARGE switch. A specially designed water collector creates a 'closed circuit' system resulting in practically no mess. Waste settles in a water container and stone cores are removed with the supplied core removal tools. The drill's custom-built geared motor has an adjustable speed from 0-75rpm. A 10mm keyless chuck enables the use of other 'dry' drill bits and pin-holing tools.

An innovative 'Auto-Push' device relieves the operator and provides an accurate and consistent driving force of 50 newtons (5 kgs) to the drill. For main hole drilling, special 10mm diameter thin-wall core drill bits are supplied. For pinhole drilling, the kit includes a 1mm drill holder attachment (and 1mm drill bits) that are used with the supplied extension tubes.

The typical sound level from the entire system drilling concrete with water, at ~35rpm is 39-42db.



### FEATURES

- + **Instant fit mounting plate** - no wall anchor hole
- + **Super smooth action** - twin guide shafts with linear bearings
- + **'Auto-Push'** - innovative drill-drive device
- + **10mm key-less chuck** - allows use of alternative 'dry' drill bits
- + **Custom made 'electroformed' diamond core drill bits**
- + **Very quiet operation** - purpose-built drill and pump motors
- + **Independent drill and pump speed controls**
- + **Closed-circuit water feed and collection system**
- + **Inbuilt battery or external 12VDC operation**

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## EASE OF USE

**Fitting the guide to a wall is easy and takes seconds.**

There is no wall anchor and therefore no requirement to drill a mounting hole. Just peel back the double-sided adhesive pad from the rear of the wall plate and press firmly to the wall. The wall plate also has 6mm holes, so that a traditional plastic wall plug method can be used should the target wall be exceptionally uneven.

The adhesive pad bond is strong enough to hold the weight of the drill, however in most cases it is sensible to use the supplied 'dolly' to support the assembly.

The FOX-1 uses two guide shafts which keep the drill centralised for a precision bore. Increments are marked on the top of the shafts for drilling depth/progression measurement.

The drill smoothly glides along the shafts using the latest technology linear bearings which means near silent action, minimising metal-on-metal noises that can compromise an operation.

The complete system runs for around 5 hours from a single charge. External 12VDC supplies can be used via an input socket on the back of the unit.

The FOX-1 is supplied in the latest custom fitted Peli-Storm 2720 wheeled case.



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## Contents and Specifications

### MAIN COMPONENTS

#### Wall Guide

Aluminium 3mm thick plate. 150mm x 150mm with cut out for water collector. Fitted with 2 shaft support blocks and 400mm guide shafts.

#### Drill

Custom made 12VDC motor with super-quiet gear-box, 0-75rpm adjustable speed. 7.5Nm (Max) torque.

#### Support dolly

Wheeled dolly with 3 x 100mm support bars. 1/4" camera mount fitting to drill body.

#### Auto-Push device

Nitrogen filled piston with guide shaft locking screws.

#### Control Unit

12VDC, 3W peristaltic pump. 0--28rpm adjustable output speed. Flow rate ~10 - ~30 ml/min. ON/OFF/CHARGE switch. Dual speed controllers for pump and drill. Splash-proof unit IP65 with IP68 capped sockets on rear of unit. Fuse - T15A. Typical run time (drill and pump under load) - 5 hours. Intelligent charger with LED status indicator. 110v - 240vac mains power input. 12VDC - 800mA output. Typical FOX-1 charge time 3 hours.



### ANCILLARIES

- 750ml wide mouthed, screw top plastic bottle.
- 1000ml rectangular plastic tub.
- 1 x pack of white tack for water collector.
- Water collector with 2 metres 4.8mm bore silicon tubing and end fitting to water bottles.
- 1mm double sided adhesive foam pad cut to shape of wall plate x 10.
- 3 metres 4.8mm bore silicone tubing with end fittings to water adaptor and water bottles.
- QTY 2 10mm x 100mm diamond core drills with thread fitting to 100mm extension tubes (QTY4 supplied).
- 1mm pinhole drill holder attachment with 5 x 1mm diamond coated twist drill bits and 5 x cobalt twist drill bits.
- Manfrotto monopod, for alternative height adjustable drill weight support. 1/4" camera mount fitting to drill body.
- Water adaptor for use with core drills and extensions.
- 600mm length core breaking tool kit for breaking and removing any remaining stone core from drill hole.
- 4mm rod for removal of stone cores from core drill bit.
- Scraping tool for removal of plate from wall, and removal of remaining adhesive label from plate (using solvent).
- Hex key set to cover all bolts on main components.
- QTY 2 mini combination pliers for removal of drill bits and extensions.
- Mains power supply 110v - 240vac mains power input. 12VDC 10A output.
- Case - Peli-Storm 2720 with fitted hard foam. Dimensions: 56 x 43 x 26cms. Weight: 14Kilos.

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