

Self-propelled Carriage for Cable Crane Systems

FLOW MEASUREMENT | DISCHARGE MEASUREMENT

General Description

The Cable Fox Model (CFX) is HyQuest Solutions latest **towing system for temporarily measuring water flow or discharge** with an ADCP or radar device. The electric motorized vehicle can be easily installed on existing cable cranes by using their cables. Via a radio remote control, the user controls the vehicle forward and backward across the cable transversely to the flow axis.

Thanks to the **powerful motorization** and the optional cable winch, the Cable Fox can also pull a larger or heavier boat through the water and position it at the measuring points.

The **mobile** Cable Fox is used either permanently at a single gauging site or temporarily at several gauging sites or for manual measurements. Cable cranes equipped with the Cable Fox as a carriage do not need a permanently installed motor, because the Cable Fox brings its own motor.

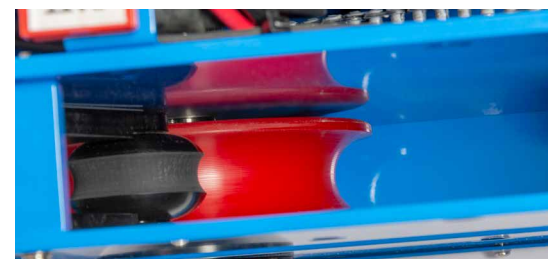
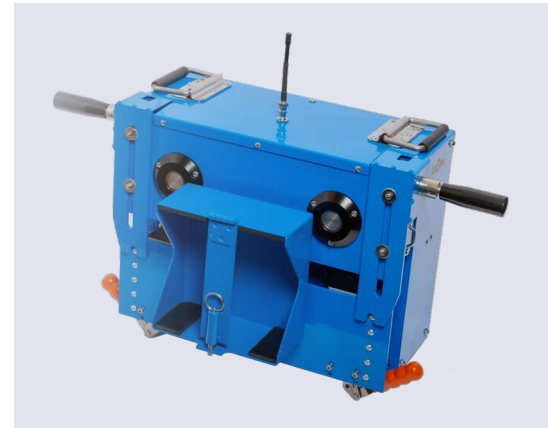
The **large range of the remote control** (up to 400 m) allows operation even at very wide valleys and riverbeds.

Applications

The Cable Fox is especially suitable for towing and positioning of ADCP boats or velocity radar devices for flow and discharge measurement.

Features

- Variable traversing speed
- Models for various cable strengths
- Hoist to adjust tether line to raise and lower ADCP trimaran/board
- Encoder for distance measurement across stream section
- Low power consumption
- Frequency band: license-free ISM band
- Auto retrieval feature brings the carriage back to the user/river bank, if the radio connection breaks (not on CE-compliant models).



Technical Specifications

Motor	<ul style="list-style-type: none">■ Geared motor 320 W■ Speed drives carriage up to 0.6 m/s (2.00 ft/s)■ Distance measurement 0.01 m (0.01 ft) resolution■ Power requirement 12V DC 18Ah battery internal 30A auto reset fuse
Hoist	<ul style="list-style-type: none">■ Lifting capacity 100 kg (220 lbs)■ Power requirements: uses the above Cable Fox power (12V 18Ah), separate internal 30A auto reset fuse■ Rope: synthetic, up to 12.2 m (40 ft)
Wireless Remote Control	<ul style="list-style-type: none">■ Frequency: license-free 868 MHz band, ISM band for short-range devices■ Operating range 400 m (1300 ft) line of sight■ Controls: raise / lower, direction (forward / reverse), speed control■ Emergency stop button■ LCD: 16 chars x 2 lines with back-lighting■ Indicators: LEDs for comms. and fault indication, battery voltage (sounder for low battery), horizontal distance■ Power source: 3 x NiMh 2.5Ah AA batteries with built in charger (3 x AA alkaline batteries in an emergency)
Versions	<ul style="list-style-type: none">■ CFX/1014: for cables with diameter 10-14 mm■ CFX/1014-H-EU: for cable with diameter 10-14 mm, CE compliant■ CFX/1632: for cables with diameter 16-32 mm■ CFX/1632-H-EU: for cable with diameter 16-32 mm, CE compliant
Packed Dimensions	<ul style="list-style-type: none">■ Cable Fox: 66 x 54 x 27 cm, 35 kg■ Hoist: 55 x 48 x 27 cm, 15 kg
Scope of delivery	<ul style="list-style-type: none">■ Vehicle with electric motor, remote control, hoist, rope, transport case, charger■ Not included: batteries, measuring instruments, ADCP boats

Similar Product



Flying Fox: Mobile towing and positioning system with built-in electric motor and remote control. Unlike the CFX, the FFX is portable: It doesn't weigh very much and uses a lightweight synthetic cable instead of a

steel cable. It can therefore be transported easily from one measuring point to the next. The user simply spans the cable across the body of water, hooks in the cable trolley and gets on with the job at hand.

Please ask for details.

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