General Description

The Span Master Travelerway is a simple, easy to operate towing and positioning system for performing water discharge measurements using ADCP technology.

The unit was designed to aid in water discharge measurement where simple cableway installation is required to drive the ADCP across the river and back.

The Span Master consists of a high quality manual winch with distance counter which easily bolts to any 4 in galvanized post. The winch is manually operated at the desired speed providing stable and more accurate ADCP measurements.

Features

- High Quality Gear-driven bronze and stainless steel winch
- Easy to install. Bolts directly to any 4 in galvanized post
- All mounting hardware included
- Includes 3/16" 7 x 19 stainless steel traversing cable
- Robust, corrosion resistant construction
- Forward and Reverse Operation
- Multi-digit distance counter
- Positive Weston-style brake
- Ability to hold load at any position
- Span up to 328 ft
- Optional ADCP stabilizing weight
- *12V DC Powered model also available (SMK1/PD)
Installation & Operation

The Span Master is used in conjunction with an ADCP to measure water profile across the river. An 11 lb stabilizing weight can be used to stabilize the ADCP in order to keep it from tilting nose up in fast flow or prevent it from flipping upside down when the water current is turbulent.

The manual winch on the operating side is used to drive the ADCP from one side of the river to the other side. Two methods can be used when using the Span Master and the ADCP. The first method is to perform point measurement at different sections of the river. The second method is to drive the ADCP at a constant speed slower then the water speed so that the ADCP can measure the water profile across the stream cross section.

Specification

Winch:
- Brake: Positive Weston-style brake will hold the load in any position
- Construction: Compact, lightweight and rugged construction
- Guard: Mechanical components enclosed for protection and safety (Stainless Steel)
- Paint: Baked enamel for corrosion protection
- Gears: Ratio: 5:1, Heat-treated gears
- Handle: Strong removable

Travelerway:
- Endless Cable: 3/16 in (5mm) Stainless Steel wire
- Maximum Span: 328 feet
- Post Construction: Galvanized Steel
- Post Head & Traveler Block: Non-Corrosive Alloy
- Post Head Sheave: Non-Corrosive Cast Bronze