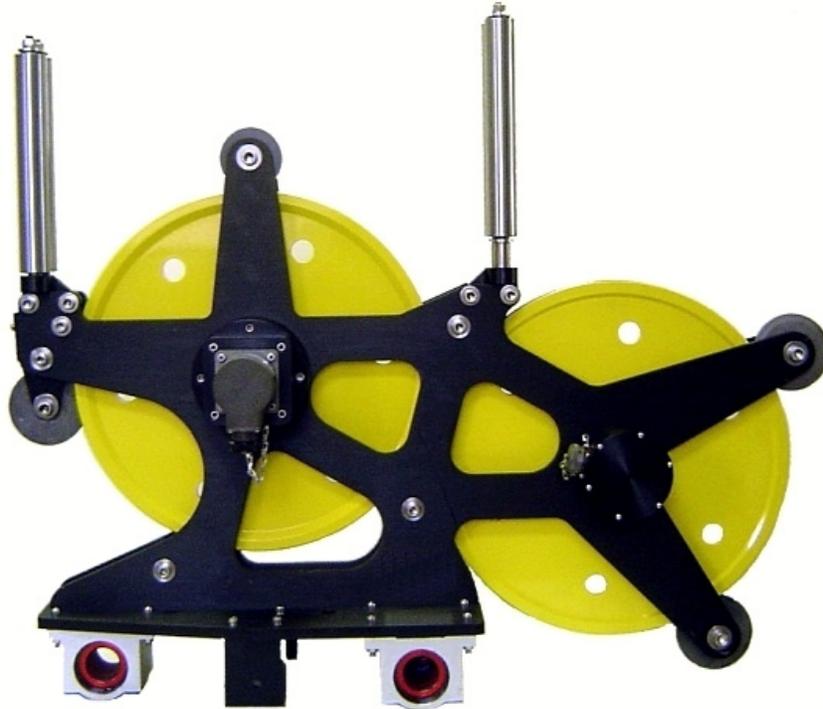


# SHARK MEASURING HEAD - SLICKLINE/BRAIDED LINE



## PRODUCT DESCRIPTION

The "Shark" Slickline/Braided Line Measuring Device is a heavy duty two wheeled device which accurately measures both wireline depth and tension.

Tension is measured from a load pin which also serves as the axle for the tension wheel. Since the two wheels are opposite each other, the wire completely wraps around both wheels. This creates a relatively high signal at the load pin which provides a very accurate tension measurement. This electronic signal is transmitted via an electrical cable to the hoistman's panel and/or logging computer representing wireline tension. A calibrate resistor is included in the load pin to send out a signal to calibrate the computer system.

The measuring wheel is coupled to an optical encoder that transmits electrical signals via an electrical cable to the hoistman's panel and/or logging computer representing cable travel and speed.

Spooling rollers and pressure wheels are provided to keep the wire in the wheels at low or no tension.

Wire abrasion and fatigue are minimized by using a non reverse bend configuration.

The device is designed to be mounted in front of the wireline drum on a spooling mechanism. Linear bearings in the mount allow it to slide back and forth in front of the drum so the wire can be spooled evenly.

An optional "turn table" is available which allows the head to be pivoted 90 degrees for shipping protection.

With the BenchMark Winchman's Panel, depth can be accurately measured on different sized lines without changing wheels. This is done electronically by the panel using the depth information provided by an encoder. Changes in wire size are accounted for by the panel software. Wire stretch can also be automatically calculated by the panel.

## PRODUCT FEATURES

- Cable sizes .092 to .125 slickline & 3/16" e-line/braided line
- Tension load axle & amplifier can be configured to different outputs
- Can measure wireline tensions up to 4500 pounds – 2,040 kg
- 2 fully independent depth measurements - optical encoder and magnetic pickup
- Backup depth system – reduces drag on measuring wheel by eliminating mechanical drive cable
- Minimizes wire abrasion & fatigue by using non-reverse bend configuration
- Wires run side-by-side across top of measuring wheel to prevent wire rub
- Large diameter wheel radius minimize wire fatigue
- Spooling rollers and pressure wheels keep wire in wheel at low/no tension
- Spring pressure wheel keeps wire turning with wheel even with sudden direction change or jarring action
- Pivots 90 degrees for easy storage
- Encoder & tension amplifier certified for Zone II area use available
- Anodized aluminum frame

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## GENERAL SPECIFICATIONS

Height:	31.3"	.795 m
Length:	36.9"	.937 m
Width:	12.2"	.309 m
Weight:	94 lbs	42.6 kg
Measuring Wheel		
Circumference	4 feet	1.219 meters
Diameter	16 inches	.406 meters
Maximum Tension:	4,500 lbs	2,040 kg
Line Sizes:	.092" – 3/16"	2.3 mm – 4.76 mm
Operating Temperature:	-40°C to +65°C	-40°F to +149°F
Encoder:	1,200 PPR, other available	
Backup Counter:	4 PPR Quadature	
Load Pin:	Passive low voltage, Differential voltage, 4-20ma current loop	

