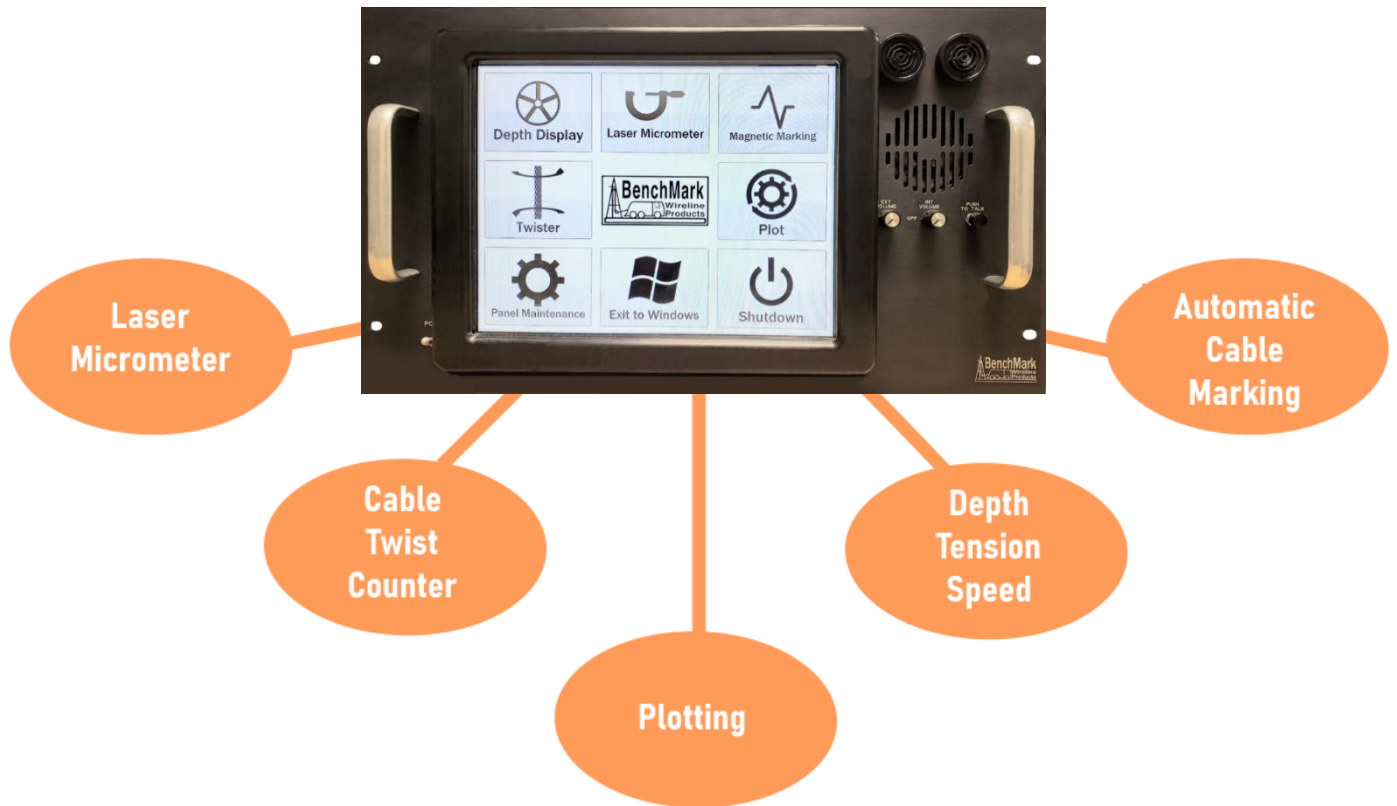


# CABLE MAINTENANCE SYSTEM

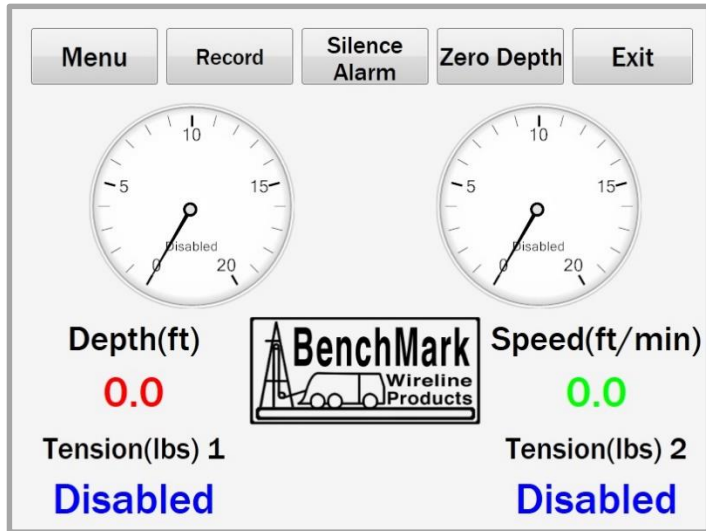
The Center Piece of the Cable Maintenance System is the ACMU6A06 touchscreen control panel. This device controls and provides measurement on a significant number of critical functions.



It can control these operations...

- Laser Micrometer which accurately and quickly scans cables
- Cable Twist Counter which tracks and reports on number of twists per designated interval
- Magnetic Cable Marking for installing magnetic marks
- Depth, Tension and Speed monitoring during cable installation
- Plotting and logs of each of these operations

# DEPTH TENSION SPEED - CABLE TWISTING



The Main Panel of the system is capable of providing real-time readings on – Depth – Tension – Speed.

Event Alarms can also be set.

A remote backup panel can be placed near the worksite.



The Cable Twist Counter Sensor tracks the number of twists performed per length of cable on cable twisting jobs.



# LASER MICROMETER



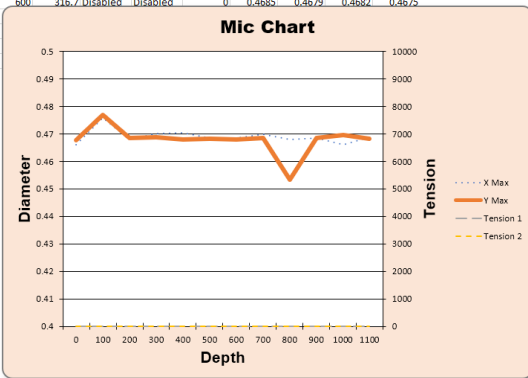
The Measuring Head is a purpose-built device to house the Laser Micrometer.

It scans the cable detecting even the smallest variances in diameter or shape.

This data is correlated to depth.

## Log chart and Plot

Time	Depth	Speed	Tension 1	Tension 2	Twists	X Max	Y Max	X Min	Y Min
09:34:29.5	0	0	Disabled	Disabled	0	0.4661	0.4677	0.4661	0.4677
09:35:02.5	100	313.9	Disabled	Disabled	0	0.4759	0.4768	0.4741	0.4686
09:35:22.5	200	316.8	Disabled	Disabled	0	0.4679	0.4686	0.4678	0.4682
09:35:42.4	300	315.4	Disabled	Disabled	0	0.4701	0.4688	0.4683	0.4674
09:36:02.4	400	316.1	Disabled	Disabled	0	0.4705	0.468	0.4699	0.4666
09:36:22.3	500	317.9	Disabled	Disabled	0	0.4686	0.4681	0.4678	0.468
09:36:42.2	600	316.7	Disabled	Disabled	0	0.4685	0.4679	0.4682	0.4675
09:37:02.0									
09:37:21.9									
09:37:41.7									
09:38:01.5									
09:38:21.3									



The micrometer is positioned around the cable providing a real-time highly accurate multi-angle scan as the cable is drawn through the device.

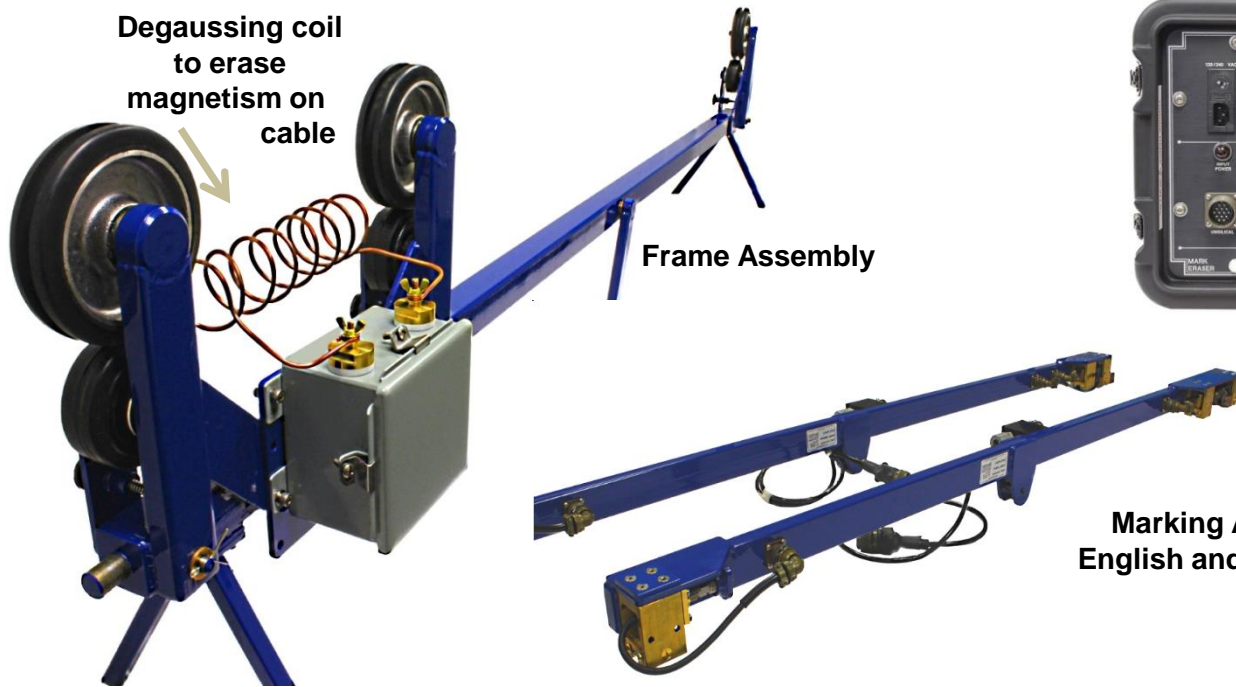


# MAGNETIC MARKING

The Magnetic Marking equipment is designed to add magnetic marks on wireline cable at predefined intervals.

It also has the ability to erase marks that are no longer accurate.

**Magnetic Mark Eraser**  
For field use



# DRUM DEMAGNETIZING

- Indicates presence and magnitude of drum magnetism
- Provides demagnetizing force in the form of decaying dc current through the logging cable conductors to the cable armor
- Magnetism in wireline units can degrade spontaneous potential (SP) logs and affects DC CCL detection

