



Quad Plus™

SMART WINCH APPLICATIONS

OUR EXPERIENCE

Quad Plus has extensive experience in offshore and marine applications including a recently launched product using Smart Winch Technology which eliminates the need for third party active heave compensation systems. The smart winch technology, integrated into the VFD, and a direct MRU input simplifies the solution and increases the reliability of the system.



APPLICATIONS

- LARS
- ROV's
- AHC
- Escort Towing w/Auto Payout
- Push Mode Constant Tension
- Oceanographic
- Tether

ADVANTAGES

Quad Plus can provide a complete system package for single or multi drum winches. New design or upgrade your existing. One package for both AHC and Towing. Smart Winch is a great solution for simplified control.



Smart Winch—System Layout

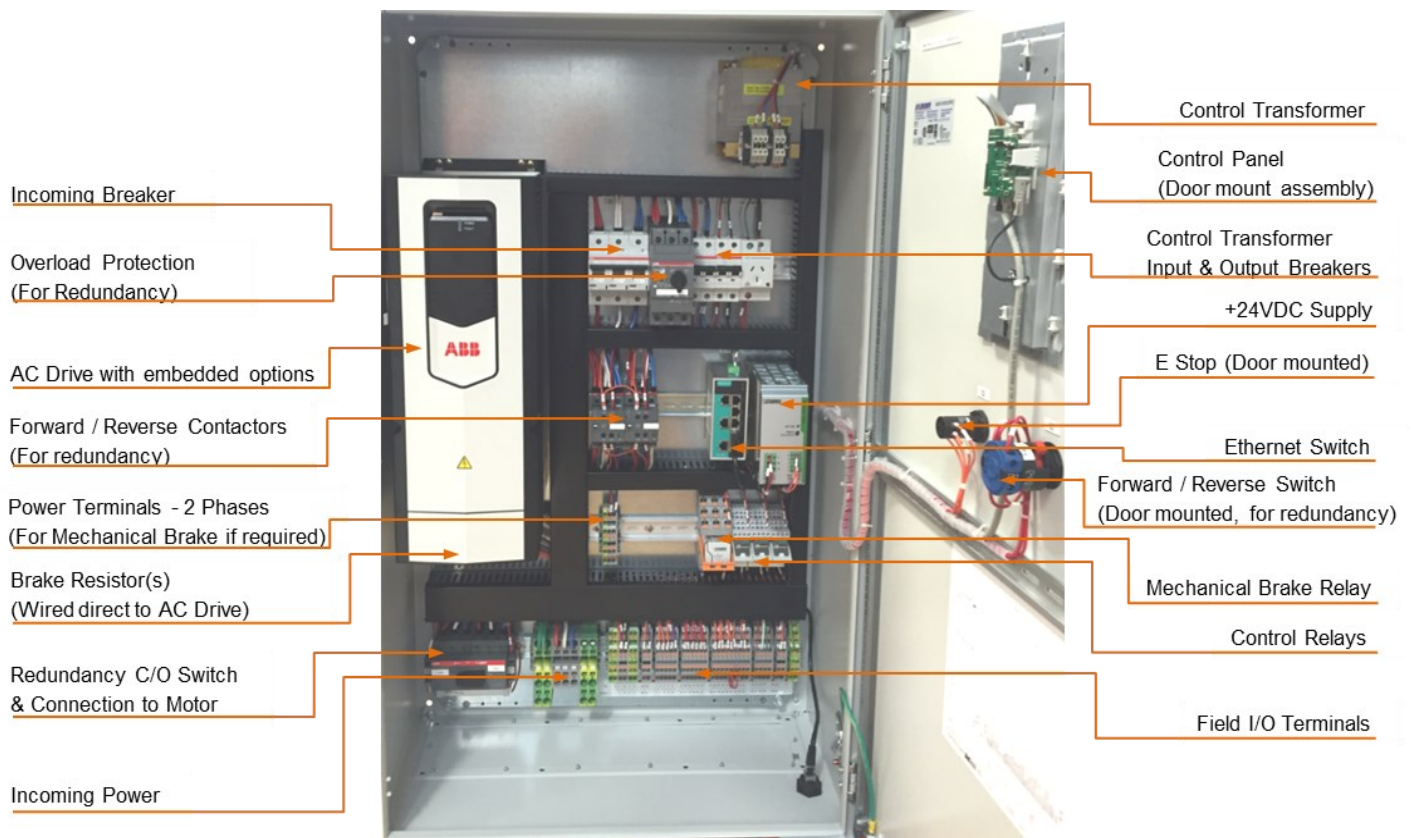
All controls & software are built into the drive—No PLC and No Load Cells

Common Hardware & Design for all Winch Applications = Reduced Cost

All options are built in as standard including Bypass

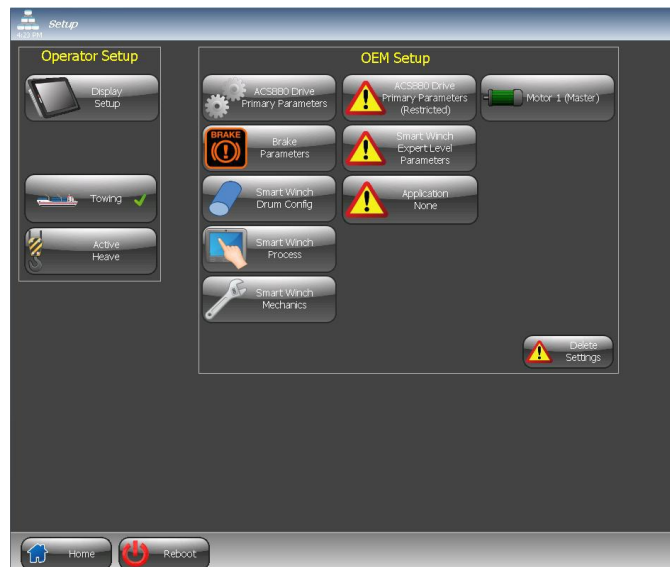
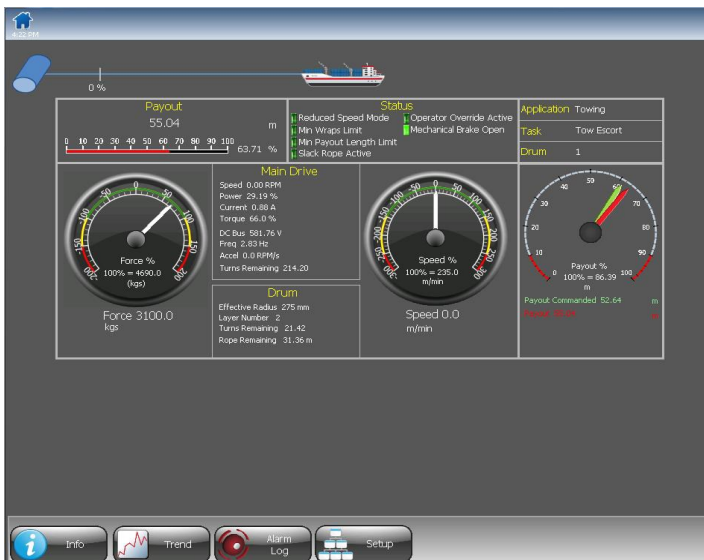
All system connections are completed in the VFD enclosure to include:

- Main Operator Panel
- Encoder
- HMI Panel (optional)
- Internet
- Brake Resistor
- Mechanical Brake Relay
- Included Manual Bypass (Get Home Feature)



Easy Setup and Monitoring

The System can be supplied with an intuitive, high resolution marine rated touch screen as an option for ease of setup, control, monitoring, logging and graphical trending.



Smart Winch is a special purpose electric drive system for winch and hoist applications for Line Force, Speed and Length measurement without external sensing devices.

Smart Winch can be used for most winch and hoist applications where it is required to have force or tension measurement with rope length, speed and control associated with it.

Best Uses:

Vessel Towing

Active Heave Compensation

Oceanographic and Hydrographic Towing

About Quad Plus

Quad Plus provides industrial control systems, solutions, and services. We offer an uncompromising level of service and expertise to maintain our customers' productivity. Our extensive process knowledge spans from the utility pole to the motor shaft. With an on-going commitment to follow-up service, parts, and repairs, we are all you need for continued success.

We are recognized in the field as a leader in drive and motor control. Solutions are designed in-house through research and development tailored to meet each client's specific needs. Our design staff includes electrical, mechanical, civil/structural, chemical, and controls.



FACILITIES

- Chicago, IL
- Atlanta, GA
- Appleton, WI
- Houston, TX

SATELLITE FACILITIES

- Boston, MA
- Evansville, IN
- Fort Myers, FL
- Mobile, AL
- Cleveland, OH
- Bend, OR
- Los Angeles, CA
- Kansas City, MO

LARGE DRIVES - AUTO SHREDDING



INDUSTRIAL APPLICATIONS



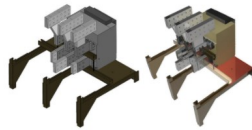
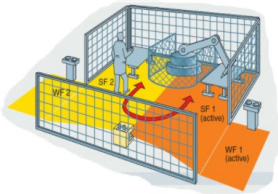
OIL, GAS and MARINE



POWER SERVICES



INDUSTRIAL SAFETY SERVICES



**Modern Thinking
Better Design**



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