Access System

- Dual 120 A per channel traction motor drive
- Platform control Interface Panel
- Proportional control of traction and steering
- 150 A pump motor output
- Proportional control of lift and lower
- Large, easy-to-read backlit LCD screen
- Internal tilt sensor
- Alarm, beacon and horn outputs
- On-board programming

Access is an integrated system to control the entire functionality of aerial work platforms including variable lift, lower and traction. The three modules of the system are connected simply and easily to enhance machine capability and reduce installation errors. A dedicated, environmentally-sealed Interface Module allows connection to external switches and joystick. This display also provides an example of external parts.

The Ground Module forms the hub of the connection system, to allow all wiring to be centralized. This module connects directly to the system batteries and provides the high current, variable speed output for the hydraulic pump motor, along with the lower current outputs such as a variable down valve, alarm, horn and beacon. All input switch wiring for pothole switches, elevation switches or auxiliary inputs is also connected here, to ease servicing of external parts.

A 3-position keyswitch powers the system at the Ground Module and determines whether platform or ground control is selected. When switched to platform control, the operator can use the joystick to effect smooth and precise control of traction and steering, or lift and lower. In ground control, two pushbuttons can be used to raise or lower the platform, using built-in soft start and stop to minimise wear on vital system components.

Unique to the system is a large LCD screen in the Ground Module that shows system status and diagnostics, such as a battery discharge indicator, hours run or whether, for example, an interlock is active and inhibiting certain functions on the machine. This display also provides an ideal user-interface for on-board programming functions to be easily accessed and interpreted by OEM manufacturing and service personnel. A built-in tilt sensor can report live data directly to the screen. This sensor can be zeroed effortlessly, at the touch of a button, on the production line prior to the shipment of a machine.

The platform control Interface Module is fitted with superbright LEDs that provide clear indication of battery state-of-charge, mode of operation and diagnostic information. Also included is an integrated sounder for audible feedback or warnings.

The Traction Module connects directly to the Ground Module via a serial communications link accepting commands from the joystick to determine speed and direction by driving two permanent magnet traction motors. Proven technology is used to power the motors via sophisticated yet dependable microprocessor-controlled, power semiconductors and digital electronics - eliminating the need for expensive and unreliable contactors and relays.

Safety, however, is not compromised. It is assured by dual-path hardware circuitry from the joystick and self-checking software to prohibit unexpected lift, lower or traction drive of the machine unless valid signals are present. Internal logic circuits can be programmed to inhibit individual functions depending on the state of inputs, such as pothole switches. The ability to lower the platform in almost all cases is allowed, even when the system detects malfunctions in other parts of the machine. This unique and comprehensive functionality makes Access the ideal choice of fully integrated control system for aerial work platforms.

Language Support

The large backlit LCD provides comprehensive diagnostic reporting, and can be configured via the OBP to display this information in any of the following languages:

- English
- French
- Spanish
- Dutch
- German
- Swedish
- Portuguese
- Finnish
- Chinese
- Japanese
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### DIMENSIONS

**INTERFACE MODULE**
- LENGTH: 128mm (5.1")
- WIDTH: 108mm (4.3")
- HEIGHT: 25mm (1.0")

**GROUND MODULE**
- LENGTH: 260mm (10.2")
- WIDTH: 94mm (6.5")
- HEIGHT: 152mm (3.7")

**TRACTION MODULE**
- LENGTH: 180mm (7.1")
- WIDTH: 95mm (3.7")
- HEIGHT: 46mm (1.8")

### SPECIFICATIONS

#### ELECTRICAL
- **OPERATING VOLTAGE**: 16-32 Vdc
- **PUMP MOTOR DRIVE CURRENT**: 150 A (1 min)
- **TRACTION MODULE DRIVE CURRENT**: 120 A per channel (15 secs), 80 A per channel (1 min)
- **PWM FREQUENCY**: 20 kHz ± 1%
- **AUXILIARY OUTPUTS**: 5 A continuous, short circuit protected

#### ENVIRONMENTAL
- **MOISTURE RESISTANCE**: Electronics to IPx5
- **OPERATING TEMPERATURE**: -25°C to 50°C
- **STORAGE TEMPERATURE**: -40°C to 65°C
- **SAFETY**: Multiple Hardware and Software Strategy to assist conformance with Machinery Directive 89/392/EEC
- **EMC SUSCEPTIBILITY**: IEC 1000-4-3, Tested at 30 V/m
- **EMISSIONS**: EN55022 1998 Class B
- **ESD**: IEC 801-2, severity level 3

#### PRODUCT CODES
- **ACCESS JSM**: Generic Joystick Module
- **ACCESS JIM**: Generic Joystick Interface Module
- **ACCESS GM European**: 150 A Hydraulic Drive Ground Module with European Language set
- **ACCESS GM Oriental**: 150 A Hydraulic Drive Ground Module with Oriental Language set
- **ACCESS PM100**: 100 A Traction Drive
- **ACCESS PM120**: 120 A Traction Drive

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