The Digital Difference

The *TUC, tracked utility carrier*, is about combining utility with efficiency. What makes the *TUC* different from other work and utility vehicles is the integrated digital technology which creates a new standard for safety, performance, and getting work done.

Comfort

User Experience

- One-handed operation through joystick drive technology
- Push button engine start and stop for strain free operation
- Full color display with push-buttons and directional pad navigation

Engine Preset Modes

- **Work** – low speed with tight controls for confined environments
- **Utility** – comfortable speed, responsive turning and towing torque
- **Sport** – quick enough to put a smile on your face

Adjustable Parameters

- Accelerations can be varied to ensure a comfortable ride
- Decelerations can be varied to ensure a comfortable stop
- Throttle can be varied in some modes to reduce sound emissions

Illumination

- LED Headlights for superior visibility
- LED work lights illuminate implements and tools
- Day and Night back lighting on Color Display

Performance

Engine

- Provides precise dynamic throttle control for high-torque output
- Engine diagnostics allow fine tuning for performance applications

Fuel Conservation

- Variable throttle reduces fuel consumption at low speed
- Eco Mode provides adjustable Start/Stop technology
- Electronically controlled hydraulics maximize efficiencies

Application Specific Tuning

- Preset Modes provide platforms for varying applications
- Custom Mode allows complete access to operation variables
- Display and Joystick function as control points for implements

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Safety

Limp Mode

- Limits speed and turning to ensure operator and machine safety
- Uses Inertial Measurement Unit to prevent flip and tip scenarios
- Operator Presence switch triggers Limp and faster deceleration

Passcode Lock

- Splash Screen Lock requires passcode prior to allowing operation
- Settings Screen Lock requires passcode to alter machine variables
- Passcodes can be reset and customized to operator preference

Failure Mitigation

- Battery Protection cuts power at low voltage to ensure startup
- Emergency Mode allows driving if Engine RPM sensor fails
- Display Drive uses the D-Pad to drive if joystick is inoperable

Environmental Protections

- Components rated for harsh industrial environments
- Electronic components are dirt and dust proof
- Components can withstand high pressure wash down

Service

Vehicle Controls

- Relay controlled functions simplify wiring and reduce power draw
- High reliability and established parameters are industry standard
- Technician connection points allow access to all system variables

Full Color Display Screens

- MVEC Screen displays self-diagnosing fuse box's fault codes
- Monitor all functions for necessary operation
- Event Detection data stored for non-routine machine maintenance

Components

- Reliable, industry proven electrical components
  Standard components allow for quick service and replacement
  System allows for automatic calibration of replaced components

Scalable Future

Remote Control

- Add-on modules to control the TUC remotely
- Allows TUC to be operated separate from the operator
- Bluetooth Technology allows for safe operating range

Telematics

- Machine usage and reliability monitoring
- Remote vehicle updates and diagnostics
- Allows for global tracking and enhanced warranty visibility

GPS Guidance

- Autonomous control through satellite positing
- Geo Fencing alerts if TUC operates outside of designated area
- Precise vehicle operation for agriculture and special purposes

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