CHCNAV

TX63

3D EXCAVATE GUIDANCE FOR EXCAVATOR

MACHINE CONTROL & CONSTRUCTION

CHCNAV

HIGH ACCURACY EXCAVATOR GUIDANCE SYSTEM

The CHCNAV TX63 Grade Guidance System for excavators improves the quality and efficiency of excavation operations. The high-precision dual-GNSS positioning system and tilt sensor with EX-Tech technology provide reliable 3D positioning and heading to indicate bucket position regardless of machine position. Real-time bucket guidance to the design surface achieves finished excavation accuracy in less time, increasing efficiency and productivity by eliminating the need for manual staking.

The industrial touch screen allows the operator to control the system at his fingertips. GradeNav2.0 software provides comprehensive yet user-friendly guidance to the machine operator. Detailed displays of job information, including project configuration, cut and fill data, and geofencing zones are always accessible at a glance.

EXCAVATION ACCURACY OF +/-3 CM

Dual-GNSS + tilt sensors for high dynamic positioning performance

EX-Tech's CHCNAV technology combines dual-GNSS satellite positioning with tilt sensors to ensure the ultimate accuracy in operating excavator bucket tips to within ±3 cm regardless of machine position, to perfectly meet the demands of earthworks. The multi-band GNSS sensor supports multiple correction sources, including NTRIP RTK and UHF base station, to accommodate all operating conditions.

WORK SITUATION AT A GLANCE

Visualize elevation accuracy easily with colors

By defining distinct colors to represent different elevations, the TX63 intuitively displays the accuracy of the project after completion; it also allows to precisely identify finished and unfinished sections in areas not visible from the operator's cab. The geofencing alert can be set in advance, ensuring accuracy and safety throughout the duration of the project.

ROBUST DESIGN AND PROVEN RELIABILITY

Extended durability in construction environments

The TX63's industrial design is built to withstand the harsh environment expected on construction sites. Dust and waterproof components, rugged touchscreen, and durable. The TX63 excavator guidance system makes projects more productive and completed with fewer machines, providing an even faster return on investment.

FAST, EASY-TO-USE

Intuitive GradeNav2.0 software for short learning curve

GradeNav2.0 software runs on a 10" industrial color display for optimal readability in jobsite environments. It supports common AutoCAD DXF design files, including surfaces, slopes, TINs, and road features, to manage all common excavating operations. The intuitive GradeNav2.0 software enhances the user experience in every way possible to complete projects quickly and accurately, even with less experienced machine operators. Several user-defined configurations can be set up to define the working parameters of the site and make the operator's job simpler and easier.

3D GUIDANCE SYSTEM FOR EXCAVATORS

Tilt Sensor

- CAN-bus communication protocol
- 10 Hz update rate
- IP67 dust and waterproof

Display Console

- 10.1" color touch screen
- Sunlight readable
- IP66 dust- and waterproof
- CAN Bus + RS232 – GradeNav2.0 software
- EX-Tech technology

GNSS Antenna

- IP68 & MIL-STD 810E
- Quick release mount

ABOUT CHC NAVIGATION

More than just robust GNSS technology, CHCNAV Machine Control and Construction solutions are designed to be high productivity tools to get your projects done faster. Priced affordably so that all contractors can benefit from GNSS machine control, our solutions are suitable for operators of compact and heavy equipment requiring accurate surface grading and excavation, as well as site preparation for construction, roads or parking lots.

CHCNAV provides solutions across the entire construction site, from GNSS bases and rovers with CAD surveying software to advanced GNSS machine control technologies.

Save time. Increase Precision.

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