CHCNAV

TX63

3D EXCAVATE GUIDANCE FOR EXCAVATOR

MACHINE CONTROL & CONSTRUCTION

HIGH ACCURACY
EXCAVATOR
GUIDANCE SYSTEM

The CHCNAV TX63 excavator guidance system improves the quality and efficiency of excavation work.

Combining high-precision dual-GNSS, IMU and EX-Tech mechanical model algorithm, it provides reliable 3D positioning and heading to indicate the bucket position.

With real-time guidance, operators can control the bucket to the design surface in less time and with greater accuracy, increasing efficiency and productivity by eliminating manual staking.

The industrial touch screen puts the system at the operator's fingertips. MCNAV software provides comprehensive, user-friendly guidance to the machine operator. Detailed displays of job information, including project setup, cut and fill data, and geo-fencing zones are always available at a glance.

HIGH ACCURACY
Dual GNSS + high frequency IMU and EX-Tech model algorithm
- System accuracy better than ±3 cm
- Same accuracy on both sides of the bucket tip
- EX-Tech high accuracy dynamic model algorithm, high bucket accuracy in all positions
- Superior receiver, high accuracy positioning in all terrain

EASY TO USE
Fast and easy installation and calibration
- GNSS integrated into the display
- Complete installation in 2 hours
- Calibration in 2 hours

EXCELLENT COMPATIBILITY
Quick to use without additional labor
- Suitable for use with a wide range of excavators brands
- Supports TT450S, Transparent and Satel_ 3AS radio protocols
- Built-in and editable global coordinate systems
- Supports multiple coordinate calibration files such as crd, dc and cal
- Professional fixed or mobile base station, radio and network data transmission
- Full constellation support: GPS, GLONASS, Galileo, Beidou, and QZSS
- Design file support for .rodx, .dxf and .landxml files
- Fast surface design in the field

OPTIMIZED GUIDANCE INTERFACE
Most realistic guidance screen
- Fully synchronized mechanical attitude, model attitude, and cut-and-fill data
- 4 views for different sites and operating practices
- Large 10" screen, all information at a glance

SAFE AND RUGGED DESIGN
Ensure safety and durability in harsh environments
- Gauge class IMU sensor: IP68 and 50G impact resistant
- Industrial grade antenna: IP68, metal shell, anti-interference
- Rugged cables: wear resistance, adaptability to high and low temperature environments
- High protection: external protective components for sensor and harness, shockproof
- Clear visualization of cut and fill data
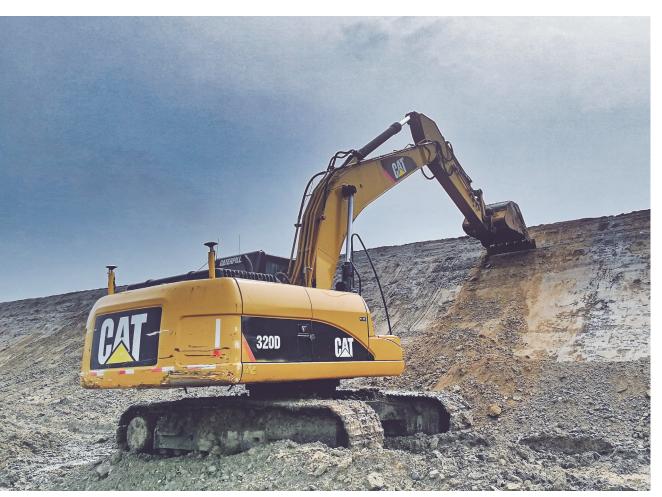
3D GUIDANCE SYSTEM FOR EXCAVATORS

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
- McNav software
- EX-Tech technology

GNSS Antenna

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

About CHCNAV's Machine Control Solutions

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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