CHCNAV

Machine Control

EasyNAV

EMG100 2.5D Excavator System

Your First 2.5D Machine Control System



Highlights

The EasyNAV EMG100 2.5D Excavator System offers a high-precision, user-friendly solution with optimized components and software.
Its integrated hardware and advanced excavator algorithm models allow for quick installation and calibration, ensuring centimeter-level accuracy perfect for small construction projects.
With its powerful in-field design capabilities, The EMG100 minimizes the need for surveyors and assistants, helping operators overcome traditional challenges such as difficult precision control, frequent climbing on and off the machine, and complicated operating procedures.enabling operators to complete tasks independently with precision and efficiency. This reduces labor costs while ensuring high-quality results, making the EMG100 an ultimate choice for streamlined and effective excavation projects.



2.5D System For Excavators



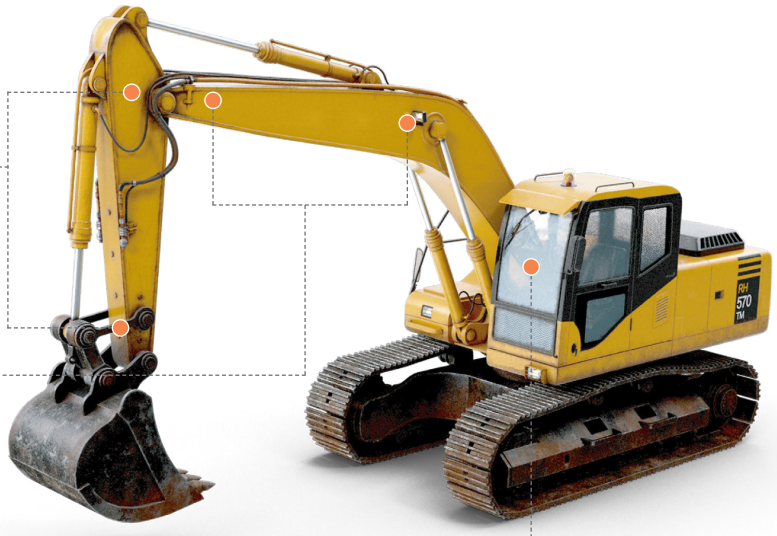
IMU Sensor



GNSS Antenna



Display



Application



Ground Leveling



Foundation Building



Slope Cutting



Ditching

Easy to Profit

Reduced Labor Costs
Minimizes the need for surveyors or assistants, significantly reducing expenses.

Increased Efficiency
Boosts operational productivity by up to 30%. By streamlining workflows and minimizing the need to repeatedly get on and off the machine, it boosts on-site efficiency and increases profitability.

Economical Maintenance
Low-cost maintenance ensures maximum profitability throughout the system's lifecycle.

Easy to Get



- **3 Month Pay Back**
  Affordable and accessible for all excavator owners, delivering excellent value.
- **Timely Delivery**
  Strategically located regional warehouses ensure fast and reliable product availability.
- **Localized Support**
  Comprehensive local after-sales services provide a worry-free ownership experience.

Easy to Operate



Enhanced Flexibility
Fully compatible with diverse excavators, including swing boom, tilt bucket, and offset boom models.



Wide Applicability
Supports tasks like leveling, ditching, sloping, and more, managing complex job requirements with ease.



Quick MasteryOn-Site Designing
Learn to operate thesystem efficiently in just 30 minutes, minimizing downtime.Designed specifically for on-site data operations, it is simple and intuitive to use.

Easy to Set

Quick Installation
Install and calibrate in just 2 hours with a single operator.

Minimal Tools Needed
Simplified setup requires only Measuring Tape, Plummet, Level.

Quick Start
Begin operation instantly with a single button press.

SPECIFICATIONS

Display

Size (W × L × H)	281 × 181 × 42 mm
Weight	1.5 kg
Screen	10.1" 1024 × 600 pixels 750 cd/m²
System	Android 6 4 Cores 1.2 GHz 2 GB RAM + 16 GB ROM
Operation Temperature	-30°C to +70°C
Storage Temperature	-30°C to +85°C
Ingress Protection	IP65
GNSS Constellation	GPS, GLONASS, BeiDou, Galileo, QZSS, L-Band

Sensor

Size (W × L × H)	48.9 × 109 × 27.3 mm
Weight	115 g
External Power Input	7–36 V DC
Static Accuracy (RMS)	± 0.05°
Dynamic Accuracy (RMS)	± 0.1°
Shock	50 G / 11 ms
Vibration	7.7 Grms, 10-1000 Hz
Operation Temperature	-40°C to +75°C
Storage Temperature	-50°C to +85°C
Ingress Protection	IP69K

Antenna

Dimensions	Ø150 × 61 mm
Weight	≤450 g
External Power Input	3.3–12 V DC
Gain	40 ± 2 dB
Noise Coefficient	± 2 dB
Shock	30 G / 11 ms
Vibration	MIL-STD810H, 7.7 G
Operation Temperature	-40°C to +85°C
Storage Temperature	-50°C to +85°C
Ingress Protection	IP68

***specifications are subject to change without notice.**

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CHC Navigation Headquarter

577 Songying Road, Qingpu,
201703, Shanghai, China
Marketing@chcnav.com
+86 21 54260273

CHC Navigation Europe Kft

Office Campus, Building A
1097 Budapest Gubacsi ut 6/A, HUNGARY
Europe_office@chcnav.com
+36 20 510 6723