

CHCNAV

MCNAV

MCNAV TX73 Excavator System



3D Excavator Guidance System Efficiency, Benefits, Quality

MCNAV for Excavators helps you complete high-quality construction in less time and lower cost.

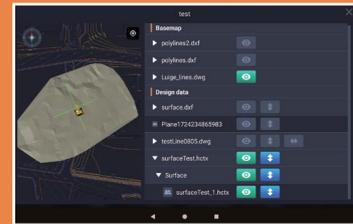
High-precision GNSS receiver and rugged IMU sensors provide operators clear tip position guidance through design models.

MCNAV allow operators dig to target surfaces more quickly without stake out, improve efficiency and productivity.

Outstanding features and experiences

3D / Customizable / Precision

- First rate 3D view and high-fidelity CAD drawings
- Customizable shortcuts
- Progress and results real-time displayed via color-coded maps
- 2D/3D mode quick switching



Easy to use

Calibration / Interaction / Cloud

- Simple wizard calibration process
- Immediate start-up
- Remote access, troubleshooting and data synchronization via iSite cloud platform.
- OTA updates



Excellent compatibility

Attachments / RTK Base / Data Formats

- Support a wide range of attachments.
- Widely compatible with radio protocols, support Satel external radio module.
- Built-in global editable coordinate system presets. Supports a variety of coordinate system files and design file formats.



Reliable hardware

Rugged / High-performance / Durable

- High-reliability industrial design
- High-performance, high-integration MC300 receiver
- IP69K IS300 IMU sensor
- IP68 GNSS antenna with metal bottom shell



3D GUIDANCE SYSTEM FOR EXCAVATORS



IS300 IMU Sensor



MCPad300 Display



MC300 Receiver



AT315 GNSS Antenna

CHCNAV Machine Control Solution



TG 63 Grader Control



TD63 & TD63 Pro Dozer Control



RTK Base&Rover

System Features

1. High-fidelity CAD drawings and full views provided, include 3D view, top view, side view and big-font information view.
2. High customizability working interface.
3. Control data visibility, elevation guidance, and horizontal guidance by layers.
4. Widely compatible of attachments, support standard bucket, tilt bucket, tiltrotator and trapezoidal bucket.
5. Separated design of quick coupler, tiltrotator and buckets, freely combine after calibration once.
6. Built-in global coordinate system, supports *.dc, *.cal, *.jxl, *.lok, *.loc coordiante file.
7. Variety design file formats support, include *.LandXML, *.DWG, *.DXF, *.HCTX.
8. Compatibility with TT450S, Transparent and Satel_3AS radio protocols.
9. Quickly design surfaces in the field, streamlining operational workflow.
10. Local region based cloud platform, file distribution and remote access everywhere.

MCPad300 Display

Size (W*L*H)	281*181*42mm
Weight	1.5kg
Screen	10.1" 1920x1200 pixel
System	Android 14 8 core up to 2.2GHz 6+64G
Operation temperature	-30°C~+60°C
Storage temperature	-30°C~+70°C
Ingress protection	IP67

MC300 Receiver

Size (W*L*H)	215*154*58mm
Weight	1.1kg
Power	7~36V DC
Real time kinematics(RTK)	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS
Operation temperature	-30°C~+65°C
Storage temperature	-40°C~+85°C
Ingress protection	IP67

IS300 IMU Sensor

Size (W*L*H)	48.9*109*27.3mm
Weight	0.115kg
Power	7~36V DC
Static accuracy (RMS)	±0.05°
Dynamic accuracy (RMS)	±0.1°
Shock	50G/11ms
Vibration	7.7GRMS, 10-1000Hz
Operation temperature	-40°C~+75°C
Storage temperature	-50°C~+85°C
Ingress protection	IP69K

AT315 GNSS Antenna

Size (W*L*H)	140*140*55 mm
Weight	0.7kg
Power	3.3V~12V DC
Gain	40 ±2 dB
Noise coefficient	≤2 dB
Shock	40G / 11 ms
Vibration	7.7GRMS, 10~ 1000 Hz
Operation temperature	- 40°C~+75°C
Storage temperature	- 50°C~+85°C
Ingress protection	IP68

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