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## TD63 PRO 3D AUTOMATIC CONTROL FOR DOZERS



# MACHINE CONTROL & CONSTRUCTION

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## HIGH ACCURACY **AUTOMATIC GRADING** SYSTEM FOR DOZERS

The TD63 PRO automatic 3D dozer control system improves the quality and productivity of earthmoving and fine grading operations. Powered by a high-precision dual GNSS positioning and IMU sensor, the TD63 PRO guarantees unmatched accuracy in 3D positioning and heading to control the dozer blade, regardless of the machine's position.

Automatic, real-time blade control to the design surface allows finished grade accuracy to be achieved in less time by eliminating manual staking and minimizing errors and rework. The TD63 PRO connects seamlessly to advanced cloud-based management systems to transfer files from the office to the jobsite, streamlining workflows and increasing overall productivity and output.

#### HIGH ACCURACY AUTOMATIC CONTROL

- · Consistent accuracy on both sides of the blade tip
- · Intelligent hydraulic control guarantees accuracy at different speeds
- · High-performance GNSS receiver for precise positioning on any jobsite

#### EASY TO USE AND EFFICIENT

- Intuitive, user-friendly MCNAV software
  Powerful 10.1" touchscreen Android tablet for user-friendly interactions

- Easily switch between 2D and 3D dual modes
  Mount and dismount masts quickly and easily
- · Optional camera for added security

#### COMPATIBILITY ACROSS THE BOARD

- Supports TT450S, Transparent and Satel 3AS radio protocols
- Provides flexibility for radio communications via fixed or mobile base stations and network data transfers
  Covers the full satellite constellations: GPS, GLONASS, Galileo, Beidou and QZSS
- · Supports design file formats including .rodx, .dxf, and .landxml
- Fast and easy surface design in the field

#### SAFE AND RUGGED DESIGN

- Rugged and shock-resistant IMU sensor with IP67 and 50 G ratings
- · Industrial-grade antennas with metal housing, anti-interference protection, and IP68 rating
- · Ruggedized cables designed to resist wear and operate in a wide range of temperature environments

#### **CHCNAV**

**3D AUTOMATIC** 



- IP67 rating

- High dynamic response
- Pressure compensated flow control - Integrated pressure relief protection
  - **CHCNAV · TD63 PRO**

### **SPECIFICATIONS**

Display		
Size (W*L*H)	281*181*42 mm	
Weight	1.5 kg	
Screen	10.1" 1024*600 pixel 750 cd/m <sup>2</sup>	
System	4 Cores 1.5 GHz RAM: 2 G ROM: 16 G Android: V6.0.1	
Operation temperature	-20°C ~ +70°C	
Storage temperature	-40°C ~ +85°C	
Ingress protection	IP65	
	Receiver	
Size (W*L*H)	207*136.5*61 mm	
Weight	1.2 kg	
External power input	7~36 V DC	
Real time kinematics (RTK)	Horizontal: 10 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS	
Operation temperature	-25°C ~ +75°C	
Storage temperature	-30°C ~ +85°C	
Ingress protection	IP65	
Sensor		
Size (W*L*H)	97*72*37 mm	
Weight	400 g	
External power input	6 ~ 36 V DC	
Static accuracy (RMS)	±0.1°	
Dynamic accuracy (RMS)	±0.3°	
Shock	50 g/6 ms	
Vibration	5 grms,10 ~ 400 Hz, 4 H/axis	
Operation temperature	-40°C ~ +85°C	
Storage temperature	-50°C ~ +85°C	
Ingress protection	IP67	

	Antenna
Size (W*L*H)	140*140*55 mm
Weight	700 g
Power	3 ~ 6 V DC
Gain	40 ±2 dB
Noise coefficient	≤2 dB
Shock	50 g / 6 ms
Vibration	5 grms, 4 ~ 250 Hz, 0.5 H/axis
Operation temperature	-20°C ~ +70°C
Storage temperature	-50°C ~ +85°C
Ingress protection	IP68

\* Specifications are subject to change without notice.

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