

TD63 PRO

3D AUTOMATIC CONTROL FOR DOZERS



MACHINE CONTROL & CONSTRUCTION

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

- · 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 modesMount 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



3D AUTOMATIC CONTROL SYSTEM FOR DOZERS



Display

- Android 10.1" touch screen
- Sunlight readable
- IP65 dust and waterproof
- CAN Bus + RS232
- MCNAV Software



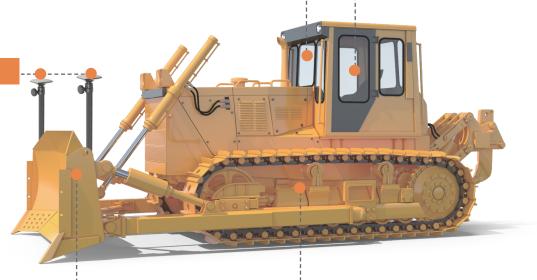
GNSS Receiver

- Full GNSS constellations
- Centimeter RTK accuracy
- Dual GNSS antenna inputs



GNSS Antenna

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





IMU Sensor

- Integrated inertial navigation system
- 100 Hz update rate
- IP67 rating



Valve Module

- High dynamic response
- Pressure compensated flow control
- Integrated pressure relief protection

SPECIFICATIONS

	Dienley
	Display
Size (W*L*H)	281*181*42 mm
Weight	1.5 kg
Screen	10.1" 1024*600 pixel 750 cd/m ²
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

	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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