

2D and 3D Excavator/Dozer Indicate Systems



- Cut Grade Fast and Accurate the First Time
- Cut to Flat, Vertical and 3D Surfaces
- Bright, Easy-to-Use Color Touch Screen
- Upgradeable systems
- Improve Job Safety

X-32, X-33 and i-33 Excavator/Dozer Indicate Systems

2D Excavator and 3D Excavator/Dozer Indicate Systems

Topcon's X-32 system represents a giant leap in excavator grade indication. The X-32 and X-32 features the Windows CE based GX-30 control box – fully upgradeable to Topcon's X-33 GPS excavator system. The X-32 system includes four TS-i3 tilt sensors used to measure angles between cab, boom, stick and bucket. Include Topcon's optional LS-B10W laser receiver or compass and you have the industry's most advanced laser indicate system.

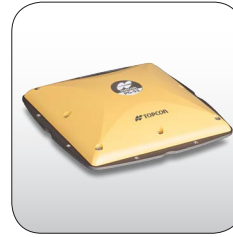
Topcon's X-33 system consists of two GPS antennas, four TS-i3 tilt sensors, the MC-i3 GPS receiver and Topcon's GX-30 color, touch screen control box. The GX-30 allows the operator to "see" the exact position of the machine on site and the bucket position at all times. When detailed information is required you can select to visualize plan, profile or sectional view and use the dual grade indicators for elevation control.

Topcon's i-33 system will revolutionize the use of GPS indicate systems on your job sites. You can configure the i-33 system with a single GPS or dual GPS antennas and install on different machines that require elevation indication. Installation requires minimum of welding on the machine, this makes the i-33 easy to switch between a dozer, scraper, motor grader.



GX-30

- Windows CE
- Touch screen interface
- USB or Sitelink3D file transfer
- User friendly software interface



PG-S3

- Ruggedized housing to work with any machine control system
- Lightweight
- Full constellation tracking
- Fence Antenna™ Technology



MC-i3

- Network modem, UHF and spread spectrum radio options available
- Vanguard technology
- Sitelink3D ready
- Single or Dual GPS options
- Corresponding Image



TS-i3

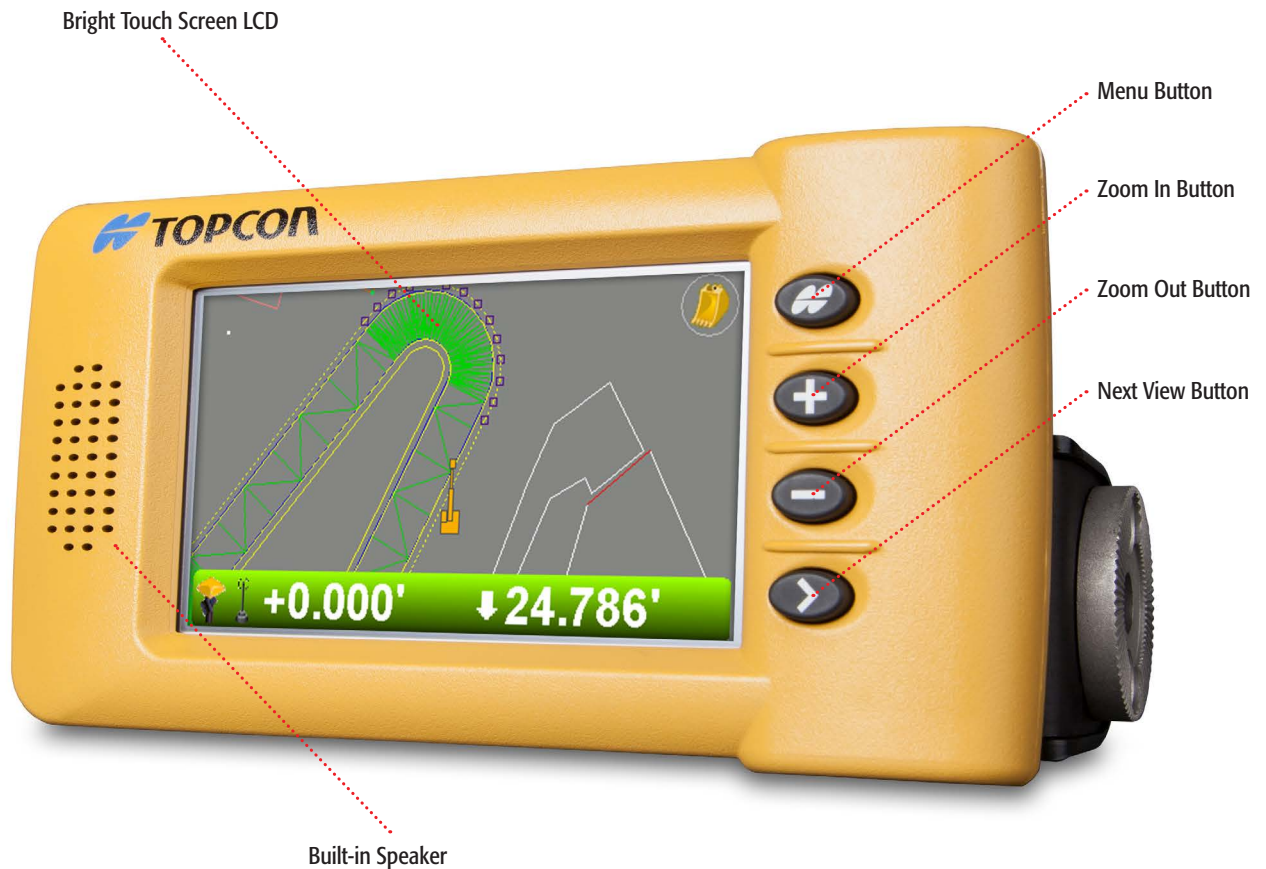
- Environmentally sealed
- No moving parts
- Single or dual axis sensors
- Can port interface

Create and cut designs... without leaving the jobsite

Finally, an indicate system that allows multiple elevations, slopes and complex designs to be cut continuously – without resetting the machine, laser or wait for a surveyor putting elevation stakes on site. With Topcon's X-32, X-33, i-33 systems and operator can create multiple elevation/slope designs right in the cab or use 3D models created for your job site. No hassles or waiting time anymore, just start cutting or digging to the correct elevation! In this way you can eliminate re-work, cut to grade fast, accurate, the first time.



GX-30 PRIMARY FEATURES



X-32, X-33 and i-33 the system that grows as you grow

The GX-30 control box offers a fully upgradeable platform from 2D excavator to 3D excavator or 3D indicate system for different machines on your jobsite. You can equip multiple excavators with sensors, cabling, brackets and move control box, laser receiver, compass, GPS receiver, GPS antennas between all machines. Same equipment can be used on dozers, scrapers, motor graders, even if you rent machines minor welding on the machine is required.



SPECIFICATIONS

GX-30 Specifications

Display	4.3" LCD Touch Screen
Operating System	Windows® CE 6.0
Processor	Marvell® XScale™ PXA300 624 MHz
Memory	RAM: 256MB Flash: 4GB
Keypad	Four backlit, programmable function keys
Ports	Ethernet Serial USB (3)
Power	6 to 32 VDC
Temperature	Operating: -20°C to 70°C Storage: -40°C to 85°C
Humidity	0 to 95%, non-condensing
Vibration	4g 10 - 1500 Hz
Shock	40g, 11ms, any axis

MC-i3 Specifications

GNSS	Single/Dual GPS
Radio	SL-R3 (network) 915SS Digital UHF II
Ports	Serial (2) Bluetooth Ethernet CANBus (2)
Power	9 to 32 VDC
Shock	25g, 11ms, any axis
Dust/Water Protection	IP67
Operating temperature	-30°C to 70°C

TS-i3 Specifications

Axis	Single/Dual
Resolution	0.01 degrees
Accuracy	0.1 degrees
Power	10 to 30 VDC
Shock	25g, 11ms, any axis
Dust/Water Protection	IP69K

For more specification information:
www.topconpositioning.com/xi-series

TOPCON'S ADVANCED TECHNOLOGIES

Machine Control

Topcon's line of advanced machine automation technologies.



X-63 Excavator

X-63 combines the advantages of our industry leading GNSS technology together with our industry standard operator interface. Topcon's X-63 consists of two GNSS antennas, four 360° tilt sensors that measure the angles between the cab, boom, stick and bucket, a GNSS receiver and Topcon's GX-60 color, touch screen control box.



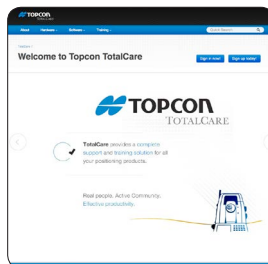
3D-MC² Motor Grader

Existing 3D-GPS machine control allowed operators to double their production. 3D-MC² uses revolutionary technology to reach an unbelievable new level of performance: four times faster than a standard motor grader, two times faster than any 3D motor grader.



Sitelink3D™

Sitelink3D is a complete site communication system providing data control, machine tracking and a reporting system in one solution. Sitelink3D includes remote machine support, job file transfer and real time project management information.



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