

Grade indication for excavators



- 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 Machine Control System

Topcon's X-32 systems represent a giant leap in excavator grade indication. Completely user friendly and user definable, they're flexible enough to apply to even the most difficult jobs. The X-32 featuring the Windows CE based GX-30 Graphical Display - fully upgradeable to Topcon's 3D excavator control. The system includes four TS-i3 tilt sensors used to measure angles between the cab, boom, stick and bucket and a compass for real 2D applications. Add Topcon's optional LS-B10W laser receiver and you have the industries most advanced laser indicate system.

With 2D, you'll eliminate over-excavation and control material usage saving you time and money. That's because 2D gets you to grade fast and keeps you there, even in deep, blind cut situations or when digging under water. With these systems the operator can "see" bucket position at all times.

Pick a reference ...

2D gives you the flexibility to use a wide array of references to work from: existing surface, a point, a previous cut, or a rotating laser. It's as simple as choosing your reference and entering a cut and/or slope depth.

X-32 - the system that grows as you grow

The X-32 Graphical Display offers a fully upgradeable solution to Topcon's industry leading 3D excavator system. With the upgrade to GNSS and the addition of two GPS antennas and software you'll realize the freedom and production that only the most advanced GNSS capabilities can bring.

With Topcon's 2D systems, work faster, with maximum reliability and higher accuracy, while significantly increasing safety by keeping the grade checker out of the trench. That's Topcon innovation.

Seamless process

With Topcon 2D indicate systems, complex profiles or slopes can be entered directly in the Graphical Display. This eliminates delay and frustration of constant control point checking. With an additional standard sensor, a tilt bucket can be controlled. In combination, slopes, profiles and flat surfaces can be excavated fast and accurate in any bucket or excavator position.



Graphical Display

- Windows® CE
- LCD Touch Screen (GX-30)
- USB or Sitelink3D™ file transfer
- User friendly software interface



Integrated compass pole

- Environmentally sealed
- Best industry accuracy
- Iron-free design
- CAN bus protocol



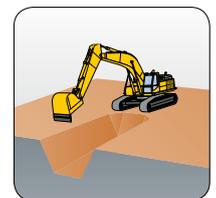
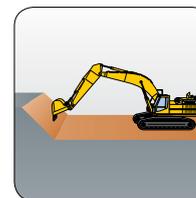
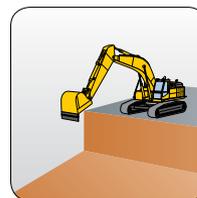
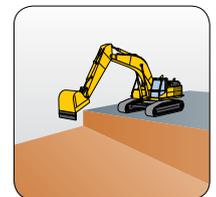
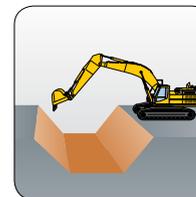
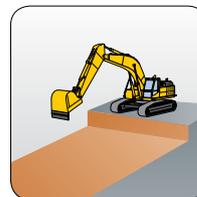
Communication Box

- CAN bus communication (MC-i3)
- Network modem
- Sitelink3D™ ready
- GNSS upgradeable



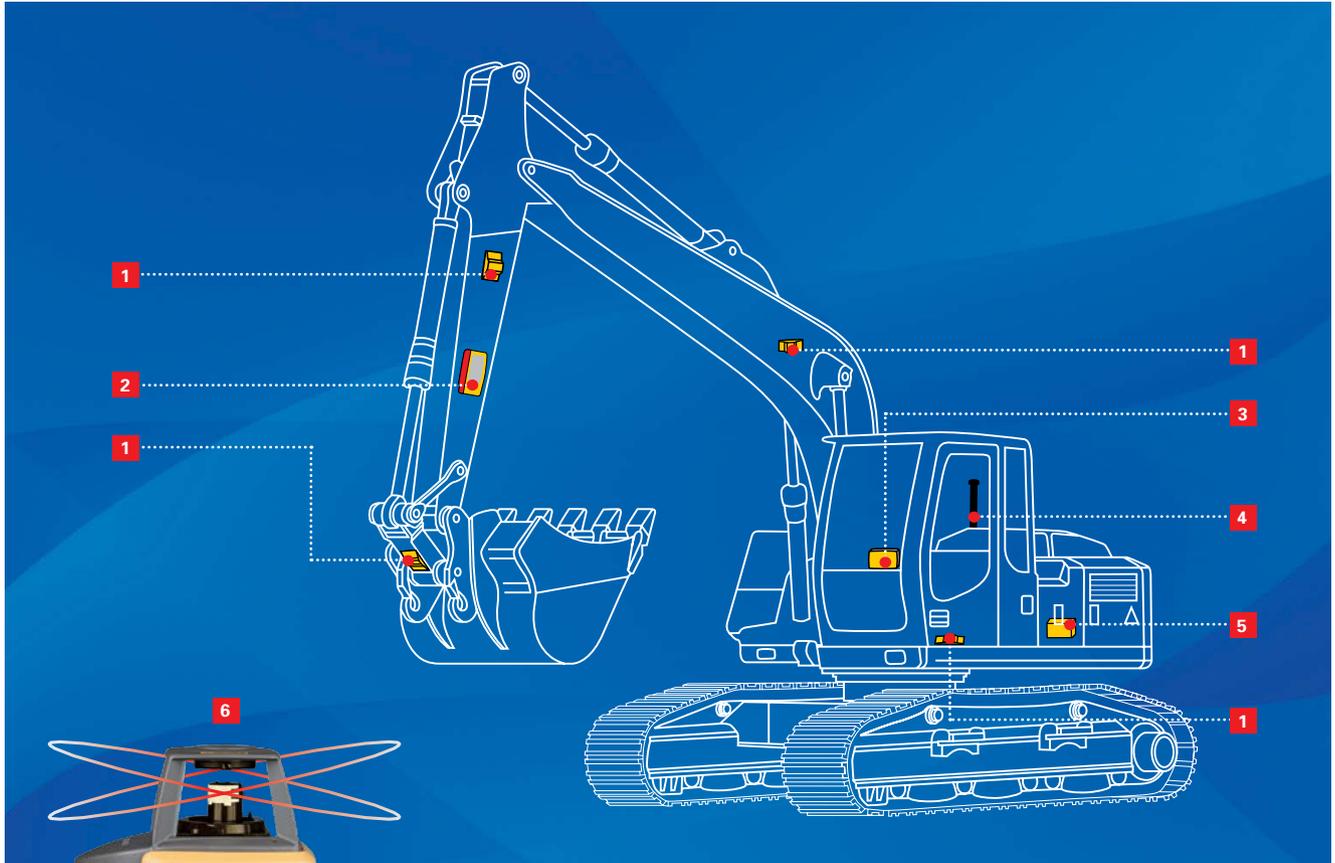
Tilt Sensor

- Environmentally sealed
- No moving parts
- Single or dual axis sensors (TS-i3)
- LED status indicator



TOPCON'S X-32 EXCAVATOR INDICATE SYSTEMS

Flexible, reliable, durable, and easy-to-use. It's the world's most advanced indicate system.



- | | |
|------------------------------------|------------------------------------|
| 1 Tilt Sensor – TS-i3 | 4 Integrated Compass Pole |
| 2 Laser Receiver – LS-B10W | 5 Communication Box – MC-i3 |
| 3 Graphical Display – GX-30 | 6 Slope Laser – RL-200 2S |

Laser Receiver

Adding the LS-B10W to your 2D excavator system puts the power of laser accurate grade at the operator's finger tips. Simply mount the sensor on the stick and entering the elevation from the laser beam to the design grade and go to work. Every time the LS-B10W passes down through the laser beam, it re-establishes the benchmark insuring you always cut the proper depth.

Think how much money you can save on setting stakes and the time you will save grading utilities and slopes!

LS-B10W Laser Receiver

- Small, lightweight design
- 270° detection
- Rugged, waterproof design
- CAN support
- Bright indicator lights
- Magnetic: use anywhere



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 (2)
Temperature	Operating: -20°C to 70°C
Vibration	4g 10 - 1500 Hz
Shock	40g, 11ms, any axis

MC-i3 Specifications

GNSS	Single/Dual GNSS (option)
Radio	SL-R3, Digital UHF II
Ports	Serial (2), Ethernet, CANBus (2)
Shock	25g, 11ms, any axis
Operating temperature	-30°C to 70°C

TS-i3 Specifications

Axis	Single/Dual
Resolution	0.01 degrees
Accuracy	0.1 degrees
Dust/Water Protection	IP69K

For more specification information:
www.topcon-positioning.eu

THE ULTIMATE JOB SITE MANAGEMENT TOOL

siteLink3D

SiteLink3D connects all parts of a construction site together – people, data, devices, machines – no matter where they are. It's the one system that provides a way to manage construction projects and resources effectively.

What drives the system? - The heart is the Enterprise cloud server that manages data and services. Data and services are securely separated by customer organization and through comprehensive user-access controls. SiteLink3D constantly measures site progress



through volumetric monitoring and provides real-time and ad-hoc volume analysis reports.

Real-time overview - The smart thing of SiteLink3D is that it tracks the real-time as-built surface, the only system that has this feature. The system keeps a real-time update of the current state of the job site and the surface. It tracks surface volumes and exactly calculates how much dirt is moved and how much more there is to move and presents this to those that need it; site manager, surveyor and operator.

Site communication - Every person connected with SiteLink3D is able to communicate and collaborate remotely, no matter where they are. Fewer people will need to waste time driving around the job site, stopping the work to update information as sending files and communication is done directly on the control box or field computer.

Cloud data - SiteLink3D uses a seamless cloud model for data warehousing and distribution. By separating data and web services, SiteLink3D sets the benchmark for job site communications and project data management and provides an open architecture for contractors, sub-contractors, surveyors, engineers, OEMs and third-party participants in projects to share data and services.



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