



X42/X62 2D Excavator Systems

Advanced Grade Indication for Excavators

TOPCON
WORLD'S FIRST
Technology



Easy-to-use, affordable systems offer advanced grade control.

- EASY-TO-SEE CUT/FILL INDICATOR
- WORK FROM AN EXISTING ELEVATION REFERENCE OR LASER
- EASY TO UPGRADE

Topcon's X42 and X62 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 X62 features the Windows based GX-60 Control Box - fully upgradeable to Topcon's X63 GPS+ excavator control. The economical X42 system features Topcon's GX-40 Control Box with remotely positionable light bar grade indicator. Both systems include four TS-1 360° tilt sensors used to measure angles between the cab, boom, stick and bucket. Include Topcon's optional LS-B10W laser receiver and you have the industry's most advanced laser indicate system.

With Topcon's X42/X62 2D systems, you'll eliminate over excavation and control material usage saving you time and money. That's because they gets you to grade faster and keep 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. Final grade, and the distance of the bucket teeth from it, is clearly displayed.

Pick a reference...

With the X42/X62 you have the flexibility to use a wide array of references to work from: existing surface, a hub, a previous cut, or a rotating laser. It's as simple as choosing your reference and entering a cut and/or slope depth.

Create and cut complex designs... without leaving the jobsite

Finally, an indicate system that allows multiple elevation and slopes to be cut continuously, without resetting the machine or laser. With Topcon's X42/X62 2D systems an operator can create multiple elevation/slope designs right in the cab, then cut to the design without the hassles of starting and stopping to re-establish a reference.

X62 - the system that grows as you grow

The GX-60 control box offers a fully upgradeable solution to Topcon's industry leading X63 GPS+ excavator system. With the addition of two MC-A1 antennas and software you'll realize the freedom and production that only Topcon can bring.

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



X62/X42
Excavator Indicate Systems



A combination of reliable, rugged components and unmatched innovation and performance. Topcon's 2D sets the standard for excavator indicate technology.



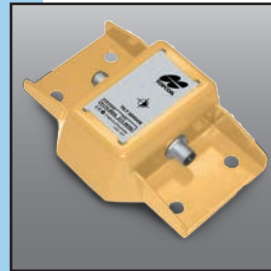
GX-60 Control Box

- Touch screen display
- 650 MHz, Windows XP operating system
- USB, Ethernet, RS-485, CAN, & RS-232 ports with USB memory support
- Ambient Light Sensor for Sharp Contrast
- Internal backup battery
- 512 Mb Internal Compact Flash Drive
- Sealed Housing with Gortex Vent
- Audio Speaker
- User defined views



GX-40 Control Box

- USB, Ethernet, CAN & RS-232 capable
- Ambient Light Sensor for Sharp Contrast
- Sealed housing with Gortex Vent
- 32Mb Internal Compact Flash Drive
- 5" Diagonal Display
- Audio Speaker
- Adjustable on Grade Window
- Removeable RGB Light Bar
- Optional Remote Hot Shoe for Multiple Light Bars



TS-1 Tilt Sensor

- Environmentally sealed
- No moving parts
- 3-axis, 360° sensor
- CAN port interface
- 0.01 degree resolution



LS-B10W Laser Receiver

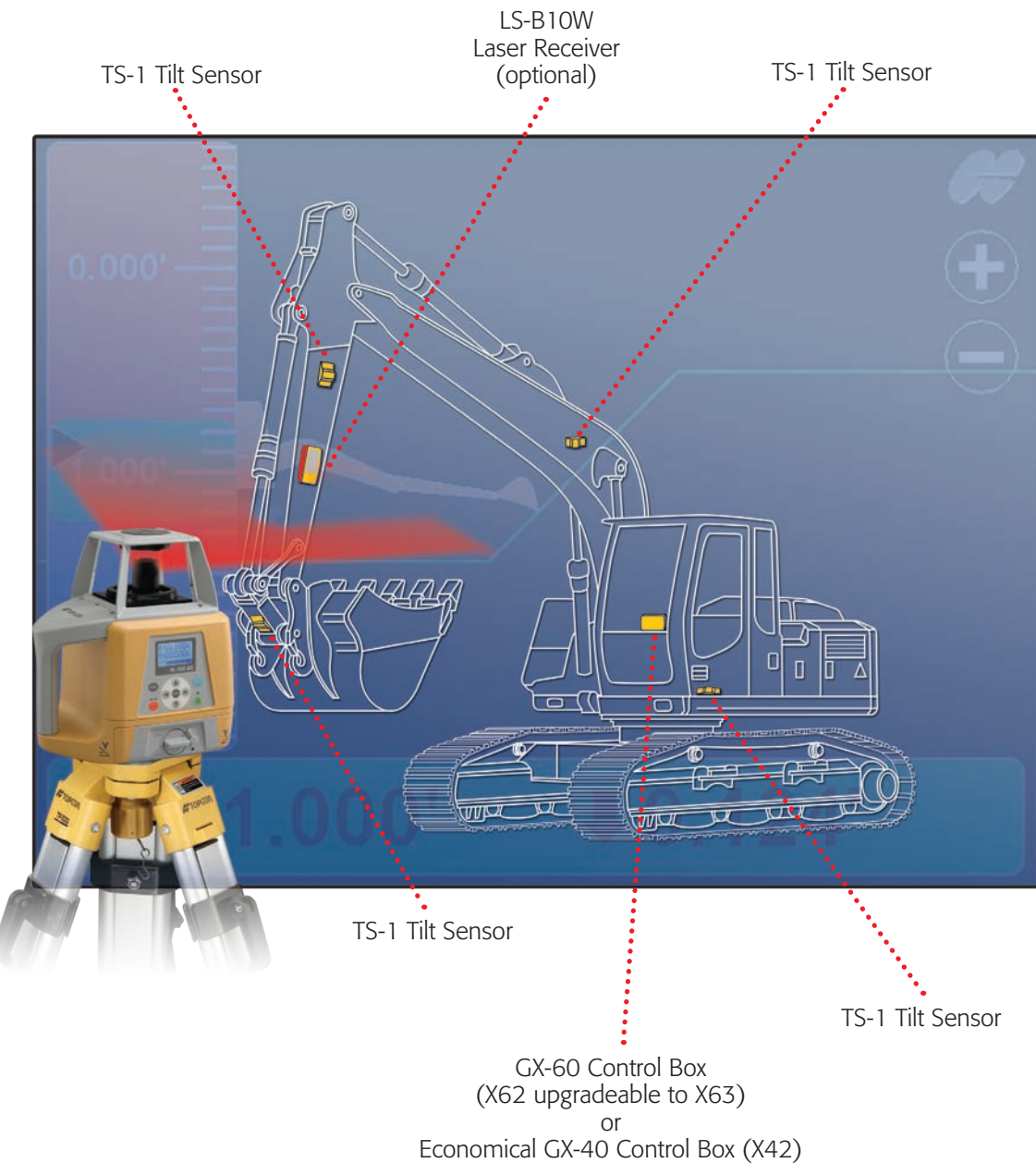
- Small, lightweight design
- 270° detection
- Rugged and waterproof
- CAN support
- Bright indicator lights
- Magnetic mount: use anywhere

Create and cut complex designs – another Topcon World's First!

Multi-section jobs just got a whole lot faster and easier! Topcon's X42/X62 let's the operator create complex designs involving several different elevations and slopes, and execute them continuously from a single reference. No more re-setting for each cut, or re-establishing a reference point when you move the machine.



Topcon's X62/X42 excavator indicate systems: flexible, reliable, durable, and easy-to-use. It's the world's most advanced indicate system, and everything you've come to expect from Topcon.



There's a Topcon laser that's a perfect match for your 2D system and your budget...

RT-5Sw "Smart" Slope Laser



RT-5Sw features include:

- World's first 5 arc second repeatability
- Two-way, RF remote delivers 1000' (300m) of 360° communication
- Set slopes up to +/-25%
- 4000' (1200m) diameter working range
- Auto alignment range of up to 500' (150m)
- Grade matching function
- Electronic beam masking
- 30hrs on Ni-MH rechargeable, 40 hrs Alk
- Dustproof/waterproof, rugged design

RL-100 1S/2S Series



Topcon's all new RL-100 Series sets new standards for simplicity and accuracy. Rugged, lightweight, and compact, it's twice the laser at an amazingly affordable price!

Choose from two models, RL-100 1S single slope, or RL-100 2S dual slope. The RL-100 1S provides single slopes from -5% to up to +25% and comes complete with Topcon's new LS-80B laser receiver, sensor holder, and batteries. Everything you need to get right to work.

The RL-100 2S provides dual slopes up of +/-10% in the X axis, or up to an industry leading -5 to +25% in the Y axis.

Features include:

- 5 arc second repeatability
- Wide grade range (up to 25% slope) without slope blocks
- Extra-long battery life (65 hrs)
- Increased range - up to 2,500 ft. (770m)
- Graphical display
- Full function remote (RL-100 2S only)

RL-H3A Series

The RL-H3A is the World's fastest leveling General Construction laser. With a focused beam capable of distances up to 2300' and 60 hours off operation from four "D" size alkalines. You'll set it

up once and work all day long.



LS-B10W 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 enter the distance from the laser beam to the design grade and go to work. Think how much money you can save on setting stakes and the time you will save grading utilities and slopes!

The Leader in Positioning Technology...

Topcon offers positioning products that deliver unparalleled site-wide performance and integration. Topcon's history of technological advances and our reputation for superior reliability means there's no other company positioned to provide you with a better "Total Positioning Solution."

From survey to inspection Topcon, through our 170+ dealers throughout North and South America, provides the innovative technology that gives surveyors, civil engineers, contractors, equipment owners, and operators the competitive edge by addressing such critical issues as increasing profits, quality craftsmanship, improving productivity, lowering operating costs, and enhancing job site safety.

Full positioning integration field-to-finish: That's the goal of Topcon. When it's time for you to step up to the next level, it's time to turn to Topcon.

The Leader in Customer Satisfaction...

To ensure that your Topcon product maintains peak performance, your local Topcon dealer offers factory trained and certified service technicians. If service isn't available in your area, our factory offers a repair and return policy second to none.

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X63 GPS+ Excavator Control

When you're ready, upgrade X62 to the World's most advanced 3D excavator system, Topcon's X63...

Experience the benefits of Topcon's satellite positioning based X63 GPS+ excavator grade control. X63 provides all of the advantages of satellite positioning technology with the superior performance and usability of Topcon's X62 machine control. In addition to X62 features like complex designs, viewable bucket position, and color-coded grade indicator, X63 enables the operator to "see" his machine's exact position on the site. X63 also provides for multiple angle views of the machine. Choose from plan, profile and sectional views.

How does X63 do it?

X63's satellite positioning works in conjunction with digital site designs loaded in to the GX-60 Control Box. The X63 locates and tracks the excavator so the operator knows exactly where the machine is located and where the work needs to be done. Combine this with X63's precision depth and slope indication and you have the World's most advanced GPS+ based excavator system!

X63 GPS features include:

- Easy to use software.
- Multiple views (plan, profile, section) display real time movement of the Bucket, Stick, Boom and entire machine.
- Easy to use color Cut/Fill Indicator for instant grade verification.
- Elevation reference lets you control grade on the left, right, or middle of your bucket.
- State of the art CAN based Tilt sensors: same rugged sensors used with Topcon's X62/X42 excavator systems
- Easy to install, mount almost anywhere!
- Change buckets on the fly. Store up to six different sizes.
- GPS+ (GPS/GLONASS) receiver insures maximum productivity.
- Compatible with GR-3, Legacy, HiPer+ & HiPer Lite+ receivers.



Your local Authorized Topcon dealer is: