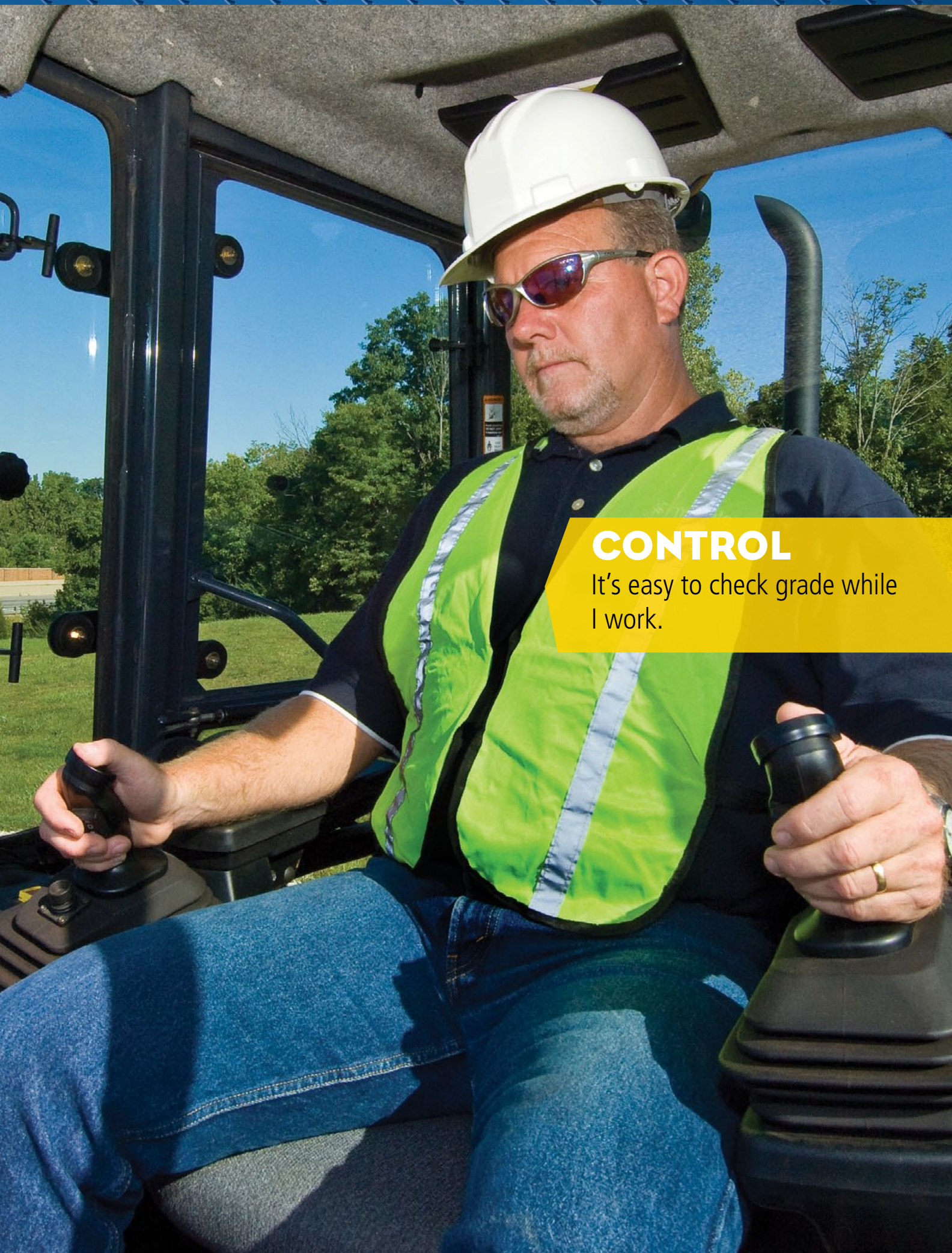
CONTROL

Compact Machine Solutions
from Trimble



CONTROL

It's easy to check grade while I work.

YOU'RE NOW IN

CONTROL

Compact Machine Solutions from Trimble

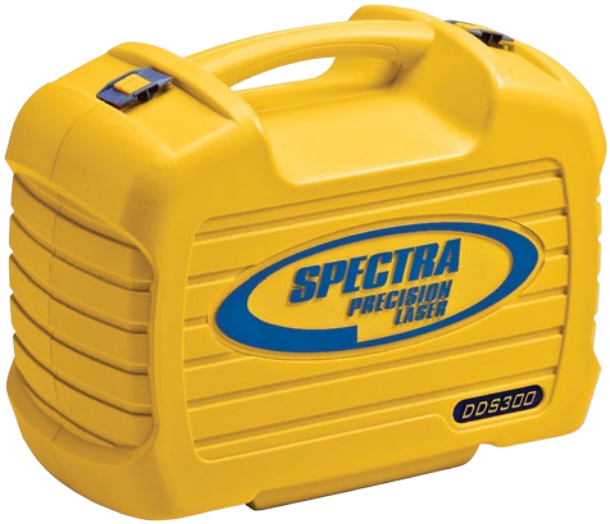
SOLUTIONS THAT IMPROVE THE WAY YOU WORK

Maximize the control, speed and flexibility of your compact equipment. Mini machine = Major productivity.

Easy-to-use laser-based systems for skid steers, backhoe loaders and mini-excavators allow you to:

- Increase the productivity of your compact machines
- Use your compact machines for more specialized and finished grade applications
- Reduce labor and downtime waiting for grade checks
- Minimize rework by moving the material correctly the first time

Visit Your SITECH® Heavy Civil Construction Technology Dealer Today. They will help you select the laser-referenced system to fit your needs and budget.



MINI MACHINES

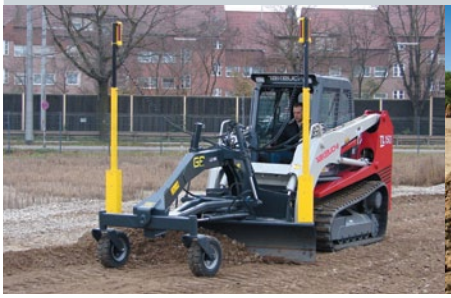
Compact machines are the work horses of many construction sites. As you find more uses for these versatile machines, Trimble continues to refine and perfect our offerings into systems that work just as hard as you do, with a price to fit your budget. Here are just some of the benefits you will gain by using one of our compact machine solutions.

Depth Display System for Excavating

- Real-time dynamic depth display improves the accuracy and productivity of trenching, excavating and grading
- Flexible system works on any small or mini excavator and backhoes

Control Systems for Grading

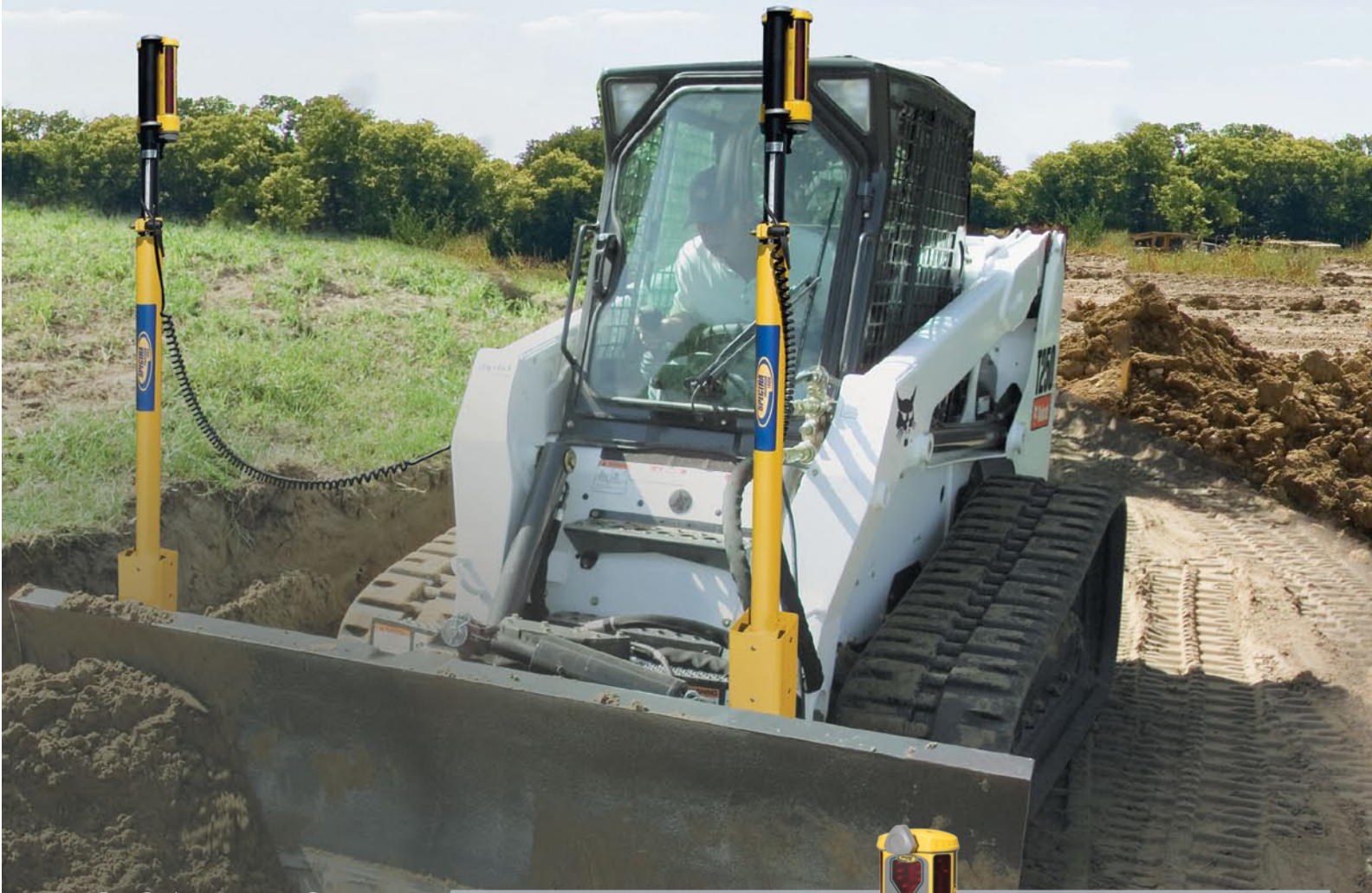
- Offered in single or dual control systems to control lift-only or lift and tilt
- Cost-effective systems can be used on skid steers, kilvers, backhoe loaders and box blades



ACCURATE

GRADING

Single and Dual Control Grading Systems



CONTROL

Laser-Referenced Systems for Efficient Grading

Spectra Precision® Laser Automatic Machine Control Systems take grading with compact machines to the next level. These systems are designed with the cost-conscious contractor in mind, delivering high-priced performance in an affordable package. Automatically controlling the blade improves grading operations with increased accuracy and higher profits. The operator can optimize machine time, effectiveness and efficiency.

Extremely rugged and highly flexible, machine control systems can be used on a wide range of machines, including skid steers, levelers, kilvers, backhoe loaders and box blades.

LR50 + CB25

LR50 + CB30

Single Control System

- Automatic lift control lets you get to grade faster with less rework and more material savings
- Proportional valve control enables smooth blade response and a more consistent finished grade
- On/off automatic/manual switches are easy to set up and use

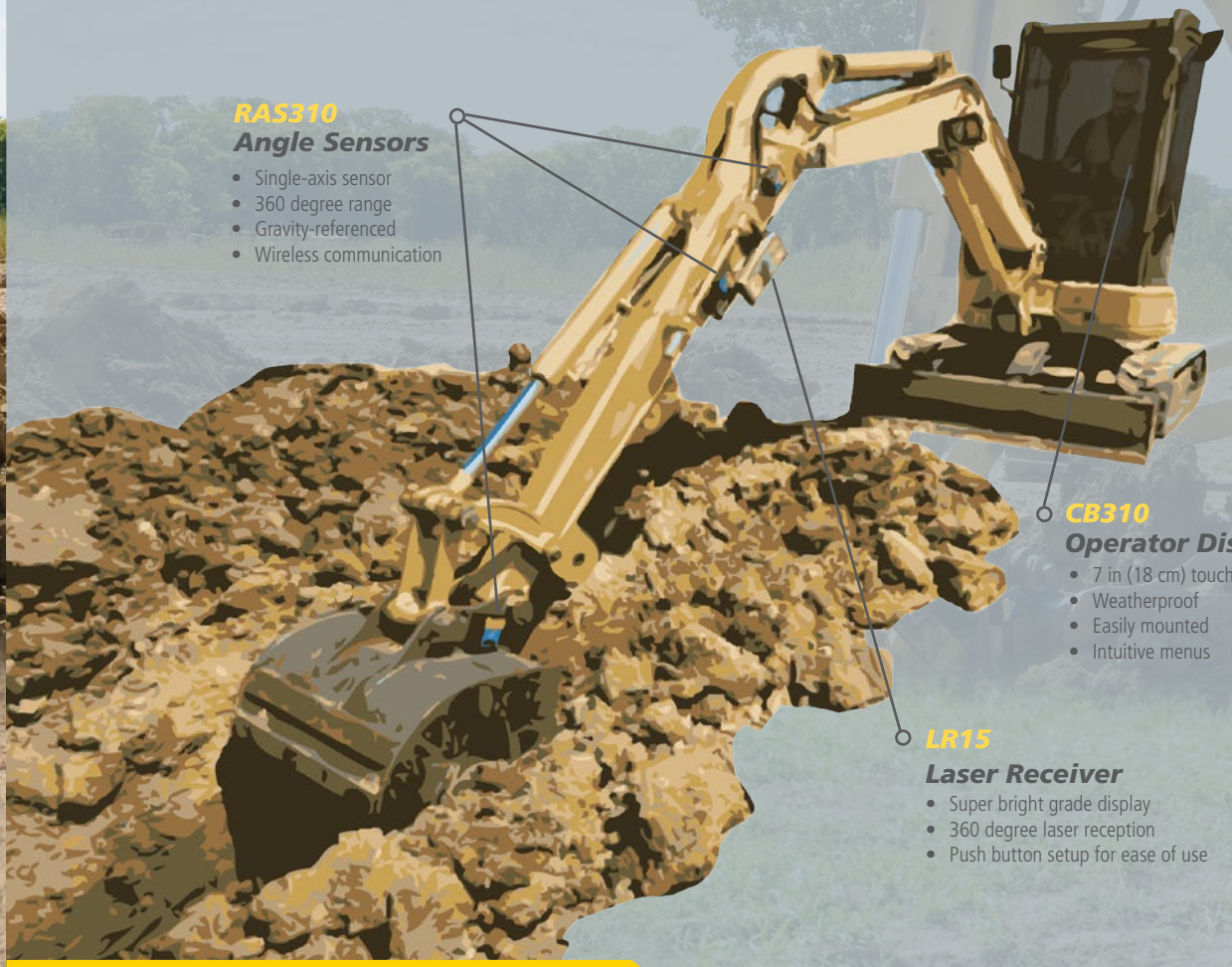
Dual Control System

- Simultaneous, automatic control of lift and tilt of blade or attachment for fewer passes required to grade saving time, material, and fuel
- Highly featured to fit multiple machine and application types and priced for quick return on investment
- Priced for quick return on investment

FASTER

EXCAVATING

DDS300 Dynamic Depth Display System



RAS310
Angle Sensors

- Single-axis sensor
- 360 degree range
- Gravity-referenced
- Wireless communication

CB310
Operator Display

- 7 in (18 cm) touch screen
- Weatherproof
- Easily mounted
- Intuitive menus

LR15
Laser Receiver

- Super bright grade display
- 360 degree laser reception
- Push button setup for ease of use

PRODUCTIVITY

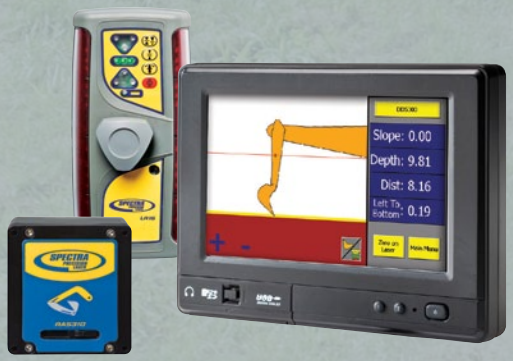
DDS300 Depth Display System

Wireless, Laser-Referenced System For High Productivity Excavating

The Spectra Precision® Laser DDS300 Display System from Trimble introduces a new level of productivity for compact excavators and backhoes. The DDS300 is ideal for a range of excavation work including basements and footers as well as trenching for sewage, conduit and utility installation.

The system utilizes wireless, laser and angle sensor technology along with a bright, 4-color in-cab display to provide dynamic real-time positioning information for the bucket at all times. This information allows the operator to excavate, trench, grade or cut profiles more quickly and accurately than traditional laser-referenced machine guidance systems.

The wireless connectivity between sensors on the boom stick and bucket and the in-cab control box eliminate cables, and make the system extremely easy-to-install.



SPECIFICATIONS

LASER RECEIVER

Specifications	LR50
Number of Display Channels	5-Channel Display 6-Channel Display in excavating mode
Accuracy: Center on Grade (grading)	Fine: 5 mm (0.20 in) Standard: 10 mm (0.40 in) Wide: 20 mm (0.80 in)
Accuracy: Offset on Grade (excavating)	Fine: 12 mm (0.50 in) Standard: 25 mm (1.0 in) Wide: 50 mm (2.0 in)
Blade-Tilt Accuracy	± 0.5°, ± 1.5°, ± 2.5°
Plumb-Swing Accuracy	± 0.5°, ± 1.5°, ± 2.5°
Vertical Reception	171 mm (6.75 in)
LED Battery Life Alkaline Bright/Dim Ni-MH Bright/Dim	 45 hrs / 60hrs 30 hrs / 45hrs

CONTROL BOXES

Single: LR50 + CB25
Dual: LR50 + CB30

Specifications	CB25	CB30
Single Auto Control	Yes	Yes
Dual Auto Control	No	Yes
Slope Control	No	Yes
Elevation Coupling	No	Yes
On Grade LEDs	Green	Green
High/Low LEDs	Red	Red
Valve Compatability	Proportional Time (On/Off), Proportional Current, and Proportional Voltage	Proportional Time (On/Off), Proportional Current, and Proportional Voltage

DDS300 DEPTH DISPLAY SYSTEM

RAS310 Angle Sensor	LR15 Laser Receiver	CB310 Display
• Single-axis sensor • 360 degree range • Gravity-referenced • Wireless communications	• Super bright grade display • 360 degree laser reception • Push button setup for ease of use	• 7" Color touch screen • Easily mounted • Intuitve menus • Many functions • Stores profile templates • Audible alarm

GRADE LASERS

Specifications	GL412	GL422	GL512	GL522	GL710	GL722
Grade Range	-10 to +15% Single Axis	-10 to +15% Dual Axes	-10 to + 15% Single Axis	-10 to + 15% Dual Axes	-10 to +10% Single Axis	-10 to +10% (X Axis) -0.500 to +25% (Y Axis)
Grade Resolution	0.001% up to 9.999%	0.01% at higher grades	0.001% up to 9.999%	0.01% at higer grades	0.001% up to 9.999%	0.01% at higher grades
Operating Diameter	600 m / 1950 ft	800 m / 2600 ft	600 m / 2000 ft	800 m / 2600 ft	900 m / 3000 ft	
Battery Life	55 hrs		55 hrs		30 hrs NiMh	
Operating Temperature	-20° to +50°C (-4° to +122°F)		–20° to +50°C (–4° to 122°F)		-20° to +50°C (-4° to +122°F)	
Remote Battery Life (2 x AA Alkaline)	130 hrs continuous, 1 year under normal use		130 hrs continuous, 1 year under normal use		N/A	130 hrs continuous, 1 year under normal use

YOUR SITECH HEAVY CIVIL CONSTRUCTION TECHNOLOGY PROVIDER

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