

Trimble's LaserStation™ 3D

Trimble introduced its new LaserStation 3D in 2001. This three-dimensional system is the first new product in a series of innovative Construction Positioning Systems (CPS) from Trimble that offers contractors a powerful, laser-based tool for simplified layout. The easy-to-use layout system is the only 3D positioning solution in the industry that allows contractors to perform a variety of layout tasks to determine position and elevation...all with only one tool and one operator.

The new LaserStation 3D is a revolutionary step in changing the way work is done on the construction jobsite. It allows the job to be done faster and more effectively therefore reducing errors more frequently associated with other instruments. LaserStation 3D can accomplish the same type of work with greater efficiency and in less time than many other existing instruments such as lasers, theodolites, auto-levels, single slope lasers, dual slope lasers and even the common tape measure.

LaserStation 3D makes it possible for contractors to complete layout and positioning tasks with only one person, helping to reduce errors, improve efficiency, streamline labor and save money on the jobsite. The system completes tasks that traditionally require a theodolite and leveling system, as well as two to three people. LaserStation 3D provides even greater functionality for contractors working on projects where complex architectural designs such as curved walls are involved.

Trimble's new LaserStation 3D comes with two self-leveling, laser transmitters and a receiver that measures horizontal and vertical planes and angles. It also calculates distance, radial distance and layout with elevation, giving contractors the ability to determine any exact location on the jobsite, making it the most powerful, easy-to-use layout tool available today. The user can also identify single or dual slopes up to 50 percent.

Trimble's LaserStation 3D allows parallel and perpendicular distance measurements and angle measurements, as well as traditional laser functions, such as level and single or dual slopes. Applications such as anchor bolt layout, formwork and footer placements can be carried out simply, and with only one-person operation.

"When we first talked with our customers about their jobsite challenges, it became apparent that today's building designs are more intricate than in the past. Contractors did not have one tool to account for all the factors they currently consider on the jobsite. LaserStation and LaserStation 3D are those tools," said Jon Jackson, product manager for Trimble. "This series of products will revolutionize the way layout work is completed on the jobsite."

Trimble's LaserStation 3D system uses proven laser technology to ensure reliability and repetitive accuracy; the receiver's exclusive 3D-Intelligence® technology provides both one-person operation and a format for a multi-user environment, meaning that multiple applications can be completed simultaneously with one system. 3D-Intelligence triangulates points and objects in space with pinpoint accuracy and is used within the LaserStation 3D system to navigate contractors to desired positions on the jobsite.

Trimble is currently in the process of offering LaserStation 3D through its distribution network and is keeping in touch with contractors to determine significant cost savings and efficiencies gained from using this revolutionary product.

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LaserStation™ 3D



Pinpoint any position on the jobsite

EQUIPMENT IDEAS



LaserStation Works Like Multiple Lasers and Theodolite

Featuring sophisticated instruments, Trimble's new construction positioning systems allow one person to handle a variety of tasks.

By the time construction workers are ready to lay out a building or road, they've already spent a lot of time and money on site preparation. Now, with the LaserStation 3D, they can do it all in one go. The new Trimble system is a self-leveling, multi-laser instrument that can be used for a wide range of tasks, from setting out a building to laying out a road. It's a true one-person system, meaning that one worker can handle all the layout tasks on a job site.

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Intelligent accessories

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The tripod used in the LaserStation system is self-leveling and makes a LevelMaster base for great positioning over all terrain points.

Prominent trade coverage



State-of-the-art, real-time receiver



One person layout

