

## Spectra Precision Dialgrade Pipe Laser

In the late 1960s, the company now known as Spectra Precision, then known as Spectra-Physics, introduced the first electronic, self-leveling pipe laser, known as the Dialgrade. The product was partially based on Spectra-Physics' 1969 patent for the world's first dredging alignment laser. What began as a product designed to help construction workers improve productivity, accuracy and safety has become the industry standard for pipe laser technology worldwide, now used by 99.9 percent of pipe crews today.

The pipe laser has helped to revolutionize the installation of gravity flow pipe by providing contractors with the technology to greatly improve accuracy and efficiency by as much as 50 percent, reduce labor costs and material waste. Contractors, when using pipe lasers, can install two to three times more pipe per day with more accurate line and grade. In addition, the invention of the pipe laser has helped increase safety and health conditions by decreasing risk on the job site and improving sewer pipe conditions through higher quality construction.

Many gravity flow sewer pipe systems installed without the use of lasers tend to be less accurate and often warp and crack over time. When this happens, the waste transported through the system can infect the surrounding area, increasing the likelihood of cholera and other highly contagious illnesses. By using pipe lasers on these projects, the chance of land becoming infected is greatly reduced.

In addition, fewer people have to go down into the trench when using pipe lasers, greatly reducing the risk of death or serious injury that can often result from underground construction projects.

Since the first pipe laser was introduced by Spectra-Physics, many product improvements have been made over the years, including efficient mounting systems, alkaline battery power and diode-powered beams. The basic principles of increased productivity and accuracy are still at the heart of the Dialgrade and competitive products worldwide.

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