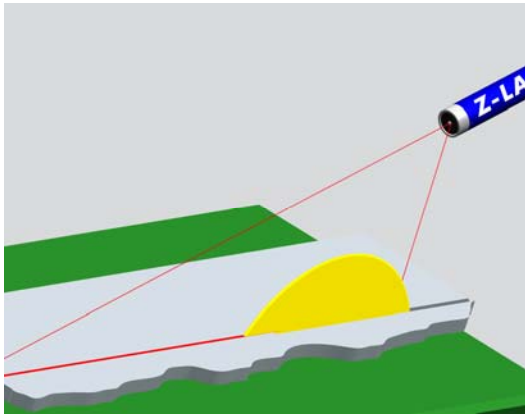


Press information

Various applications of laser guide line lights

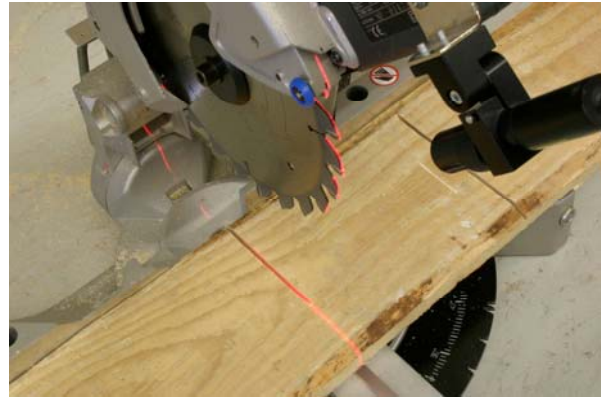


In many fabrication processes, it is helpful for the operator to be able to pre-visualize the path of the tool before the process begins. This offers benefits in efficiency through faster setups with less material waste, in quality through positioning surface features for best appearance and in safety through heightened operator awareness of the zone of danger represented by the tool's motion. Since 1985, **Z-LASER** has offered laser guide line lights for just such applications. The bright, highly visible line produced by the laser provides exactly the reference the operator needs to ensure precise alignment between the material and the tool. Whether you require precise positioning for cutting, parts placement or machinery calibration, **Z-LASER** offers a large range of powerful, industry-tested laser modules. The wide variety of available models and output power levels means it's easy to pick the right combination of features for the job at hand.

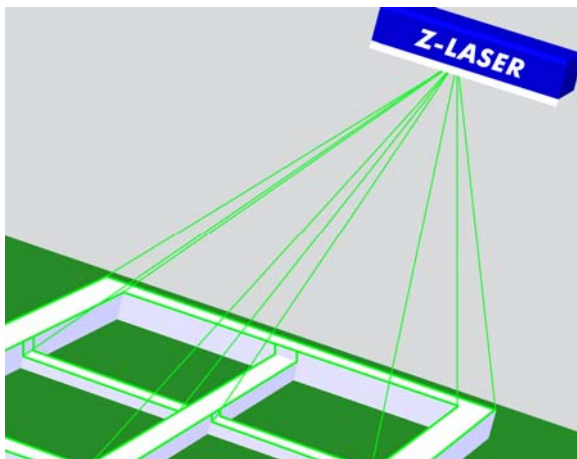


Laser lines which simulate the cutting lines before the actual cutting takes place facilitate the positioning of trunks or rough timber boards on log band saws, frame-, trim-, multiblade-, mitre-, and longitudinal cut saws. The alignment of the laser is always done in a way that the laser line simulates the cutting edge. For example, on most saws, the model ZPT "The Titan" with its rugged, heavily sealed casing and infernal thermoelectric cooling and heating provides the durability and solid performance such harsh environments demand. This model offers power levels up to 30mW and special optics with asymmetric output for more even line

brightness when projecting at a steep angle. These features help create the brightest, most visible line across even the largest of saws and give more flexibility in where the laser can be effectively positioned. And its integral wide ranging power supply, which accepts input voltages from 85 to 265 VAC, makes it compatible with almost any type of equipment.



The laser pattern projection system model CPS is used for several applications like CNC, wooden framework construction, truss or laminated woods. The CPS allows a size for size 1:1 transfer of, for example, complete component drawings from a CAD system to the working table. This can be achieved easily and with an



accuracy of 1mm/m. The polygons are projected with a red or green flicker-free laser line onto almost any surface. The size, form (even an arc of a circle can be projected), position and height of the projection can be changed. In addition, single letters or numbers can also be projected, e.g. to mark a projection. The internal Computer of the CPS can

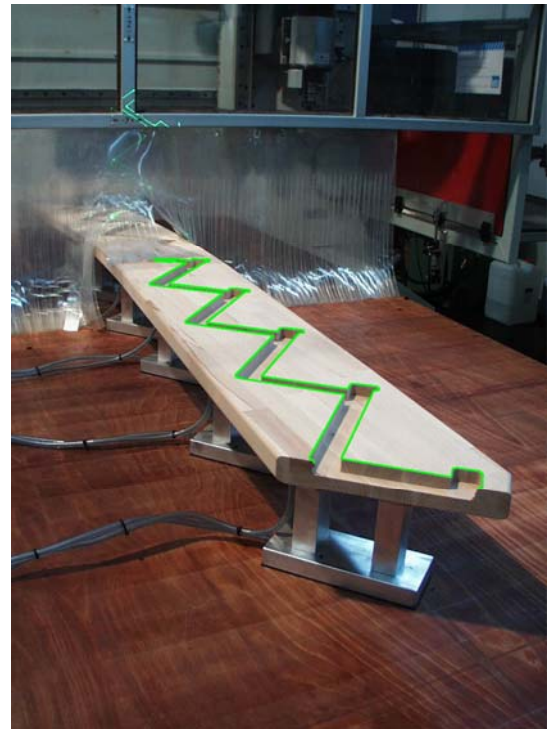
accept several geometry files produced by AutoCAD or similar programs and output the pattern of that geometry in laser light directly onto the working surface. A single laser beam is deflected by computer controlled mirrors at high speed through patterns that can contain any combination of arcs and straight lines. By seeing the entire pattern at once, the operator can easily tell exactly where to place hold down fixtures, raw materials or pods. The user decides himself whether he wants to see all contours projected at the same time or one element after the other. With the help of an industrial remote control the laser

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projector switches to the next programmed image so that the next operation is indicated step by step. **Z-LASER** uses temperature stabilised (peltier cooled) red or green laser sources, whereas the choice of colour depends on the optimal visibility which is in turn dependent on the colour of the projection surface. The 2D projectors are maintenance-free and constructed for the tough industrial usage.



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