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国家	德国

产品/机械

Laser glass drilling
Laser glass cutting based on nonlinear absorption of intensive laser. If a laser beam with extremely high peak power is tightly focused into glass, very high intensity is achieved in the focal spot, exceeding the threshold intensity for nonlinear absorption. In the focus region the deposited laser energy results in local extremely high temperatur and pressure. If the focus is on the surface the deposited energy leads to ablation of glass material. By point-by-point ablation glass is cut. With a moving table holes of any shape can be generated in glass.

Laser glass marking
Marking inside of glass based on nonlinear absorption of intensive laser. If a laser beam with extremely high peak power is tightly focused into glass, very high intensity is achieved in the focal spot, exceeding the threshold intensity for nonlinear absorption. In the focus region the deposited laser energy results in local extremely high temperatur and pressure. This leads in turn to micro cracks inside of glass. The cracks scatters light. By point-by-point generation of cracks 3d-pictures or permanent marking can be generated inside of glass.

Laser glass cutting
Laser glass cutting based on nonlinear absorption of intensive laser. If a laser beam with extremely high peak power is tightly focused into glass, very high intensity is achieved in the focal spot, exceeding the threshold intensity for nonlinear absorption. In the focus region the deposited laser energy results in local extremely high temperatur and pressure. If the focus is on the surface the deposited energy leads to ablation of glass material. By point-by-point ablation glass is cut. With a moving table glass of any shape can be cut.

Company Profile of **EdgeWave GmbH**

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