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The general idea of this CO2 laser system is that a beam is directed down to a part for cutting. The part

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sits on a computer controlled platform which moves the piece around the stationary laser beam. Cutting is achieved by passing the beam through a focusing lens. A focused beam exits through the bottom of a cutting head nozzle.

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The carbon dioxide laser (CO2 laser) was one of the earliest gas lasers to be developed. It was invented by Kumar Patel of Bell Labs in 1964, and is still one of the most useful. Carbon dioxide lasers are the highest-power continuous wave lasers that are currently available.

~~Carbon dioxide laser - Wikipedia~~

The Advantages of a CO2 Laser. The typical CO2 laser cutter is a pretty remarkable machine. The acronym LASER actually stands for "Light Amplification by Stimulated Emission of Radiation," and a CO2 laser emits a very small (10⁻⁶m) infrared cutting beam. After bouncing around a series of mirrors, and passing through focusing lenses, the laser cutter concentrates several kilowatts of energy ...

~~What Are the Advantages of Using a CO2 Laser Cutting Machine?~~

CO2 is one of the gases needed to create the laser beam. Other gases, such as nitrogen and oxygen, are

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used to refine a cut for a specific application. Metal fabricators typically have a lot of questions about what is required to set up a new or second-hand CO 2 cutting laser (see Figure 1).

~~Cutting to the chase on gas delivery for CO2 lasers~~

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