

What are the expected outcomes when using a laser to cut stainless steel?

- **High precision cuts:** Lasers deliver incredibly thin kerf widths (the width of the material removed by the laser) compared to traditional cutting methods, minimizing material waste and ensuring tight tolerances. Laser cutting offers tolerances as tight as +/- 0.0005”.
- **Complex geometries:** Lasers can tackle intricate geometries impossible with traditional tools, expanding your design possibilities.
- **Heat-affected zone (HAZ) minimization:** Unlike mechanical cutting, lasers create minimal HAZ, preserving the inherent strength and corrosion resistance of stainless steel in the cut area.
- **Edge quality:** The laser cutting process utilizes a very small highly focused spot which minimizes the impact on the material, producing cleaner and smoother edges to a high tolerance. Complemented with our post-laser processes, the edges are clean and burr-free.
- **Reduced tool wear:** Unlike mechanical tools that wear and tear, lasers require minimal maintenance and offer consistent performance over

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