

# COMMON PROBLEMS OF LASER CUTTING MACHINE CUTTING ROUND HOLES

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## REDSAIL CM1610 AUTO FEEDING LASER CUTTER

Redsail Laser Cutter / Engraving Machine  
1610 for Cutting Soft Materials

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In the past, sheet metal punching was generally made by punching. Although it is more convenient and quick, it has the disadvantages of low precision and many burrs, which cannot meet the increasingly high demand for product quality. Punching is gradually being phased out. One goes up and down, now with the continuous development of [CNC laser cutting machines](#), more and more companies are beginning to use Woli Anhui Fengpeng intelligent laser cutting machine to cut round holes, not only the cutting section is smooth, but also the aperture can be changed at any time, processing Very flexible.

However, laser cutting round holes is not as simple as everyone imagines. Cutting round holes is irregular and the verticality is not enough. So, let's analyze the reasons and precautions for cutting round holes with laser cutting machines.

#### 1. The round hole is too small

Cutting 1:1 holes with laser equipment is an excellent solution. The larger the aperture, the better the cutting. When a laser cutting machine with insufficient capability cuts small holes, there will be irregular round holes and too many breakpoints.

#### 2. The gas pressure is too large or too small

If the gas pressure is too high, the hole will explode, if the pressure is too low, the cutting edge will be rough and the edge sweeping will be serious. Choosing the right gas pressure is one of the reasons to solve the irregularity of round hole cutting.

#### 3. Servo motor parameters

Many parameters of the servo motor are related to the arc motion. If the parameters are not suitable for x and y axis motion, the mismatch will cause ellipse or irregular graphics in the cutting hole.

#### 4. The precision of the screw or guide rail is not enough

Some small factories have low technical strength and workers' level, and the precision of the laser cutting machines produced cannot reach 0.1mm, so the precision of the cut round holes cannot meet the requirements.

Here is a little trick for everyone to identify whether the quality of the laser cutting machine is good or bad. We can identify whether the quality of the laser cutting machine to be purchased is passed and the cutting accuracy by observing the situation of the laser cutting round hole. Speed and other parameters, whether to meet the standard.