

# WHAT IS THE DIFFERENCE BETWEEN SINGLE-DRIVE AND DOUBLE-DRIVE LASER CUTTING MACHINES?

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Many customers who buy laser cutting machines have great doubts about single-drive, double-drive and interchangeable laser cutting machines. I don't know what the single-drive laser cutting machine is, what the double-drive laser cutting machine is, and what the double-drive interchangeable laser cutting machine is. Next, let's briefly explain the differences of these laser cutting machines and their product advantages.

### 1 Single-drive laser cutting machine

The optical fiber laser cutting machine, metal laser cutting machine and other products we produce can determine the transmission mode, laser power, cutting speed and so on according to the different needs of customers. The single-drive laser cutting machine is mainly driven by precision screw guide rail, which is stable in operation, high in cutting quality and accurate in accuracy; However, the cutting speed and running speed will be slow and the speed ratio will be large.

### 2 Double-drive laser cutting machine

The double-drive laser cutting machine, which is also the mainstream in the market, is driven by both sides of the gear and rack. In the double-drive optical fiber laser cutting, the gear drive is used to transmit the operation and power between any two shafts. Because the length of the rack can be connected indefinitely, the cutting surface of our machine tool can be greatly improved, so as to meet the needs of more customers, Moreover, the gear rack has a better service life than the screw nut. Compared with the lead screw in the single-drive metal laser cutting machine, our double-drive metal laser cutting machine is equipped with a click reducer at both ends, which can stimulate a quick start and reach the told motion value, greatly improving the cutting speed, running speed, production efficiency, and also more accurate positioning. Most of the laser cutting machines produced by Jiatai Laser now adopt the form of gantry double-drive laser cutting. It has significant advantages for large format and high power cutting.

### 3 Double-drive interactive laser cutting machine

The interactive laser cutting machine we often refer to is that there are two cutting platforms that can exchange with each other to improve work efficiency, and it is applicable to customers who need to cut a large number of products.