

THE DIFFERENCE BETWEEN LASER CUTTING MACHINE AND PLASMA CUTTING

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Processing capacity: Plasma cutting and laser cutting both belong to thermal cutting, and plasma is more suitable for thick plates above 6mm with low precision requirements. However, with the development of [laser cutting machines](#), high-power laser cutting machines have emerged in an endless stream in recent years, and the current cutting thickness has exceeded 100mm.

Processing effect: Plasma cutting machine uses high-temperature and high-calorie plasma arc to cut and melt the metal. The biggest disadvantage is that the cutting seam is large, the cutting end surface is rough and not smooth, and the precision is low. The laser cutting machine can achieve non-contact cutting, very small kerf, high precision, small heat-affected zone, smooth cutting section without burrs, no need for subsequent reprocessing, saving processing and labor costs.

Cost of use: The products cut by the laser cutting machine do not need secondary processing and polishing. Later use cost and labor cost are reduced a lot.

Plasma laser cutting machines are generally used for rough machining such as machinery.

Laser cutting machines are mostly used in high-precision sheet metal processing, aerospace, intelligent equipment, engineering machinery, transportation, power equipment and other industries.

With the rapid development of industrialization, the precision requirements for cutting metal workpieces in various fields are increasing day by day. The advantages of laser cutting machines are becoming more and more obvious, and they are also used in more industries.