

# APPLICATION ADVANTAGES OF CO2 LASER CUTTING IN MOBILE PHONE FILM INDUSTRY

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With the advent of the mobile network era, the popularity and explosive growth of smart phones have made consumers have higher and higher requirements for the quality of mobile phones, and the processing technology of related accessories has become more and more refined. Since film is a commonly used material for mobile phones, its cutting accuracy puts forward new requirements for processing technology.

Requirements for precision cutting in the mobile phone industry:

The precise technical requirements for cell phone film cutting make manufacturers adopt laser cutting technology one after another. Currently, [CO2 laser cutting](#) technology is the most cost-effective laser cutting technology on the market. The use of advanced CO2 laser, excellent optical mode and optical path design forms a more perfect spot, reduces the heat-affected zone, and can cut high-quality mobile phone film products (PET protective film, display screen).

The unique advantages of carbon dioxide laser cutting technology make it more suitable for thin film precision cutting than ultraviolet laser cutting technology, and can better meet the precision processing needs of the IT industry.

PET mobile phone film

Advantages of CO2 laser cutting technology:

In recent years, the laser technology of Laiser has been developing continuously. Its advanced CO2 laser technology has high speed, high precision, safety and reliability, good cutting quality, high quality and stable performance. Compared with the industry, it has many unique technical advantages. It has repeat positioning accuracy of  $\pm 0.005\text{mm}$ , comprehensive processing accuracy of  $\pm 0.05\text{mm}$ , adopts advanced imported numerical control system to ensure high-quality process production, and can meet the precision processing requirements of various mobile phone films. It is an expert in the field of laser precision processing.

The core advantages of the Lesser laser co2 laser cutting machine:

1. High speed and precision: imported servo motor, double screw drive structure, imported guide rail, imported numerical control system, high-speed cutting, high-precision machining, smooth

and stable rotation;

2. Good cutting quality: use imported metal to seal CO<sub>2</sub>. The laser type is good, the optical path design is excellent, producing a more perfect spot and reducing the heat-affected zone;
3. Safe and reliable: granite base, integrated sealing structure, safe and reliable performance, long service life;
4. Simple operation: professional laser cutting software is used, which perfectly supports the import of dxf, plt and other format files, which is convenient for data processing and user-friendly interface operation;
5. Optional CCD: It can automatically find the positioning point and cut according to the predetermined graphic position.

### Display Panel Cutting

#### Application of custom carbon dioxide laser cutting technology in other industries

In addition to being used in the mobile phone film industry, the CO<sub>2</sub> laser technology of Laiser Laser can also be used for the laser of non-metallic materials such as PC film, PET film, PP film, Kafla and leather in industries such as communications, consumer electronics, computing, Netcom, and cloud servers. Precision cut. It can be used for laser precision cutting in the fields of screen protection, acrylic, OCA optical glue, PET display screen, touch screen, FPC, PCB, electronic paper, polarizer, product logo, digital product injection nozzle, etc.