

Osmotic Pump Tablet Laser Drilling Machine



Drilling diameter range
0.3-1.2mm (Continuously adjustable)



Inspection accuracy rate
100%



Rejection accuracy rate
100%



Drilling depth range
0.2-1.2mm (Continuously adjustable)



Drilling accuracy
 $\pm 0.1\text{mm}$



Output
20,000-100,000 psc/h

Our production-type osmotic pump tablet laser drilling machine meets the GMP requirements of the pharmaceutical industry. This machine mainly consists of a CO₂ laser drilling system, a vision inspection system, a rejection system, and a fume extraction system. This laser drilling machine is suitable for drilling single- or multi-apertures for various osmotic pump products. This includes single- or bi-layer round tablets, oval tablets and LCT products. This machine ensures continuous, stable and efficient production, with a high output of up to 100,000 tablets per hour.



Automatic loading system

Automatic feeding with high filling rate. Feeder material level and feeding speed can be adjusted and controlled according to production needs. Guaranteed stable production and minimized defects.



Laser drilling system

Capable of single-sided or double-sided laser drilling up to 4 apertures per side. The aperture spacing can be adjusted according to customer requirements, and the positioning accuracy of drilling is $\pm 0.5\text{mm}$.



Vision Positioning System

The tablet's color, positioning, etc. can be determined, and the tablet's aperture can be quickly identified with a positioning accuracy of $\pm 0.1\text{mm}$.



Vision inspection system

It can quickly detect the presence, location, number and diameter of apertures in tablets.



Automatic rejection system

Automatically rejects defective tablets and performs visual inspection confirmation. This system has a 100% detection and rejection accuracy.



Digital management system

The digital management system can set and save the production formula of different types of products, conduct real-time monitoring during the production process, record production data, and generate traceability reports, so that customers can know the production status at any time.



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