Coil Fed Laser Blanking Systems

Highly Productive Coil Fed Laser Cutting Systems

- High Quality, Low Scrap
- Quick Change, Highly Flexible
- Low Operating Cost
Coil Fed Laser Blanking Systems

Our technological evolution in the control of strip feeding in conjunction with laser technology eliminates costly stamping dies, cuts ultra high strength steel easily and is flexible enough to be extremely efficient even for low to medium volume part production.

A unique characteristic of this line is its ability to continuously laser cut parts from coiled strip. Precision servo motors control both the strip feed and the laser traverse, which results in high accuracy cutting. Since the laser only moves in (1) one axis, the X direction, and the sheet traverses in the Y direction, there is no flashback onto the bottom side of the part, leaving a clean, high quality edge.

Coil fed laser blanking can lower overall operating costs, by eliminating dies and their maintenance, as well as the press itself with a low installation cost and floor space requirement. Part nesting can be optimized better than in traditional blanking lines, therefore reducing scrap and saving material.

KEY ADVANTAGES

- Range of materials:
  - Cold and hot rolled
  - Aluminum
  - High strength alloys

- Low installation cost and floor space

- Low power consumption

- Productivity increases of 50% or more vs. sheet fed systems

- No die and maintenance cost

- Highly flexible:
  - Low or high volume
  - High or low strength steel

- Part nesting-less scrap

- Reduced labor costs
Fiber Laser

High power fiber laser design enables the highest cutting speed available, bringing efficiency and low cost production to your facility. Fiber lasers can cut up to five (5) times quicker than CO₂ lasers. Fiber lasers are also less costly to operate and maintain; Laser Gas tanks are no longer required. The fiber has a long life and requires little to no maintenance, no mirrors/optics to align, and no consumable parts required to keep on hand.

Flexibility and Performance

The laser can cut a wide range of materials, such as high strength alloy steel, mild steel, galvanized, aluminum and stainless steel in a wide range of thicknesses. The entire system is fully integrated to maximize productivity. Components include coil loading station, uncoiler, precision leveler, roll feed, laser module and stacking systems. Finished parts can be handled with many different configurations, from manual part stacking, to magnetic conveyors to fully automated robotic cells.
Why Coil Fed Laser Processing?

- Reduced investment vs. traditional blanking lines
- Increased productivity over sheet-fed lines
- No tooling or die costs (no set-up times, no maintenance etc.)
- Flexibility in the process and part nesting (material savings and shorter change over)
- Ability to process higher strength material and a range of different materials (high strength alloys, aluminum etc)
- More efficient, requires less space and power

Chicago Slitter and Iron have joined together to offer you the widest range of coil processing systems on the market today. We offer slitting systems, coil feed systems, cut to length systems, punching and bending systems and coil fed laser blanking systems.

Chicago Slitter would welcome the opportunity to discuss your blanking and laser cutting needs. Please call us at 630-875-9800 or visit us at www.chicagoslitter.com