LASER MANUFACTURING

Parker's motion systems can execute precise paths, maintain tight tolerances, and perform consistently across every cycle.

Why Motion Matters

Laser processing quality is directly tied to motion performance. Any vibration, inconsistency, or deviation in motion can affect cut quality, edge finish, and overall process reliability. As laser tools continue to advance, motion systems must deliver the same level of precision and repeatability as the laser itself.

Parker engineers motion solutions specifically to meet these challenges, supporting applications such as cutting, drilling, marking, and additive processes with stable, repeatable motion.

Parker Motion Solutions for Laser Tools

Parker's portfolio of electromechanical motion solutions supports laser manufacturing OEMs across a wide range of tool architectures and performance requirements. From rigid linear stages to ultra-smooth ironless motors, our solutions are designed to integrate seamlessly into laser systems while delivering consistent performance from system to system.

By engaging Parker early in the design process, OEMs gain access to application expertise, system-level guidance, and proven motion technologies that help reduce development risk and accelerate time to market.

Why Partner with Parker?

- **Decades of motion engineering experience**
- **Global support and customization capability**
- **Full scale distributor partnerships**
- **Manufacturing consistency at scale**

XLM Linear Positioner

The XLM Series provides zero-cogging, ironless perforance that enables cleaner paths, tighter tolerances, and improved process consistency in laser manufacturing tools.

XR Linear Positioner

Delivers rigid, predictable motion designed to support precise laser paths and stable performance. Its compact footprint and manufacturing consistency make it well suited for laser tools.

I-Force Ironless Linear Motor

Deliver zero-cogging, vibration-free motion to support clean cuts, tight tolerances, and consistent energy delivery. The non-contact, ironless design minimizes disturbances, making I-Force ideal for laser cutting.

RIPPED Ironcore Linear Motor

Providing rigid, repeatable motion with excellent thermal stability. Designed to maintain accuracy under high duty cycles, support fast positioning and stable laser paths, helping OEMs achieve consistent results.

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