

# Laser-In-Motion™ Series

## *Fast. Agile. Simple.*

The Laser-In-Motion™ (LIM™) product series from Claire Lasers is bringing cost effective laser marking solution to the Metal Forming Market. The LIM™ system replaces traditional stamping press with a laser marking system installed in-line with blanking press.

For the manufacturing business, the LIM™ solution offers numerous advantages enhancing the competitiveness of its service offering, namely:

**1)** The LIM™ system reduces cost of labelling metal parts, by replacing slow and manpower intensive press stamping with an automated, computer controlled laser marking in-line with the blanking press. It also reduces tooling and setup cost by replacing stamping dies with computer files for the laser marker. These files can be produced and managed automatically with our software.

**2)** The LIM™ system enables parts serialization and barcode marking; these features are impractical with mark stamping, and furthermore are conducive to computer controlled inventory management, a crucial feature for fully deployed JIT manufacturing. This is foreseen as the most valuable enabling feature for our customers, and the customers of our customers, as inventory control of supply chain is a major key to profitability in the advanced manufacturing sector.

**3)** The LIM™ system can allow metal part manufacturers to compete effectively against companies with business models strictly based on manufacturing in countries with lower wages workers, because the Return on Investment (ROI) of a LIM™ system is typically less than two-years. With increasing competition from lower manpower cost in Asia and South and Central America in a global market, and increasing manpower cost in the Western World, the need for cost-effective, flexible and cleverly simple automation has never been so great.



The LIM™ system opens a whole realm of new possibilities compared to the regular operation of stamping press. Implementation of the LIM™ system in your business is the start of your clear manufacturing advantage.

highlights

**Laser marking of parts in-line with blanking press in-phase via servo control**

**Fast:** Up to 20 parts per seconds

**Agile:** Window™-based software; Interface with familiar GUI; only a few minutes to configure.

**Simple:** Very small additional overhead for the press operator

**Powerfull:** based on the ClearMark™ Laser marker

Air-cooled laser marking system

Compact system design

Low-maintenance cycle

Ease of installation



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spec: BLC06\_R001  
date: 2007 08 23

## Automated solution designed for the manufacturer of the Metal Forming Market

The LIM™ system\* integrates laser marking capability in-line with blanking press, via machine communication and familiar (Window™ based) Human Machine Interface; automated electronics (transparent to user) keeps the LIM™ system in phase with the Press at all times during blanking at high-repetition rate.

Simple three-button interface allows the operator to move from the only three states of the system:

- a) **SETUP: Roll Open** for material insertion,
- b) **SETUP: Roll Close** for jogging material into press with familiar two-way pendant, and
- c) **READY** to follow press motion in a master-slave servo relation.

Thanks to clever automation designed to assist the press operator, only a few quick and simple steps and very small time overhead is required from the current press operator to setup and run the LIM™ system, when compared to the regular operation of blanking press. This simple yet powerful combination enables fast setup for press operator.

The powerful combination of a simple operator interface with automated machine communication completely transparent to user amounts to effective automation best suited to the manufacturing environment of medium to low tonnage blanking press operation.

*\* Patent Pending USPTO Application Number 60869563, Title: "Laser-in-Motion (LIM) as a practical solution for part marking in-line with shear cutting press for the metal forming market"*

## Based on high-performance laser marking technology: the ClearMark™ Series of laser markers.

The ClearMark™ product is the result of mature advancements in the fields of laser engineering, control software and laser beam delivery, and as such, it uses the best technology for laser material processing applications. Powerful ClearMark™ software with intuitive graphical interface enables a fast learning curve and a wide range of applications. Coupled with superior support from Claire Lasers expertise in laser applications, this combination insures fast-tracking implementation of reliable laser marking and engraving processes in your manufacturing operation.

## Commitment to high quality solution

Our continued commitment to high quality industrial solutions for the manufacturing customers is driving us to produce innovative systems to fulfill typical requirements of the Metal Forming Market.

