

# Fastening Automation Handbook #4

## Fully Automatic Assembly



More manufacturers are adopting automation to address labor shortages, improve productivity, and enhance worker safety; allowing companies to re-shore production and compete with low-cost labor overseas. Our four-volume eBrief guides manufacturers through the highlights of your automated fastening journey — from simple handheld auto-feed screwdrivers to robot cells and lights-out assembly.

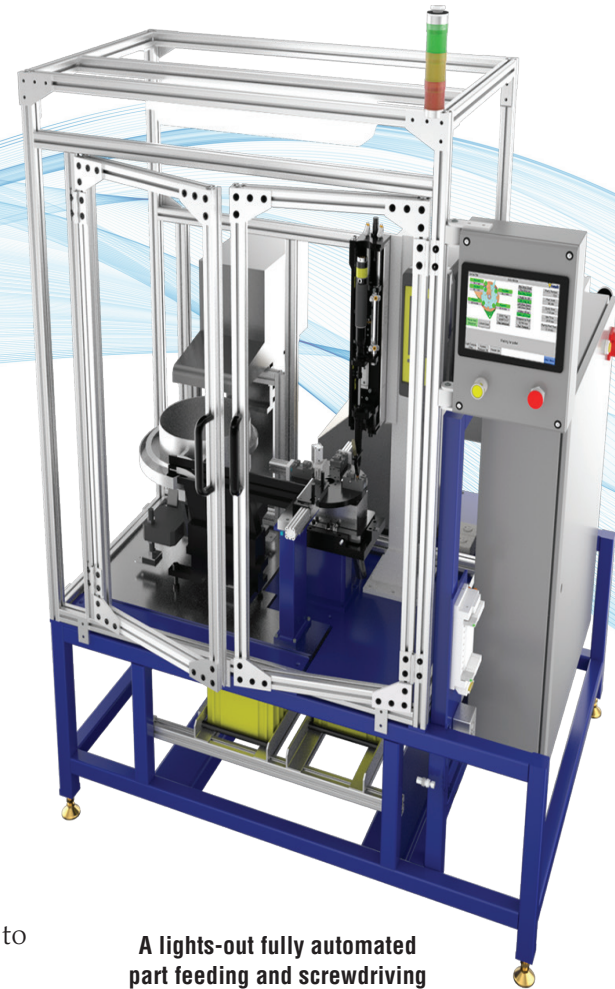
### Zero-Labor Assembly with Lights-Out Screwdriving

While humans still perform 72 percent of manufacturing tasks, Visumatic’s mission is to educate product designers and arm process improvement engineers with the proper automation screwdriving technology. Standard equipment packages include built-in scalability paving the way to implement new machines in the future.

With relatively high labor costs, keeping production in the U.S. depends in large part on employing the appropriate level of automation to be competitive. Visumatic is ready and willing to work with customers to determine what level is needed to sufficiently innovate operations. They also work with product designers to help easily create automatable assemblies or improve on hard to automate existing designs.

Advanced assembly machines can work unattended with no humans involved in the screwdriving process. Parts can be conveyor fed or bulk loaded while the machine subsystems orient and deliver them to the screwdriving station. Multi-nest rotary indexing systems are the most popular high throughput method for small part assembly.

A [lights-out fastening](#) assembly machine is a very cost-effective option to automate high-volume production with near-zero labor costs. As your partner in all aspects of automated joining, Visumatic can deliver improved fastening at every point of your automation journey.



A lights-out fully automated part feeding and screwdriving assembly machine.

**Ready for a deep dive?** Check out our Fastening Assembly Process Evolution whitepaper series covering the full gamut of engineering considerations. In this series, we break down the nuanced technical aspects of each implementation phase to help kick start your automation projects. **Get the full analysis:** <https://www.visumatic.com/whitepapers/>

**Visumatic Industrial Products**  
 106 Fieldview Drive  
 Versailles, KY 40383  
 859.255.7907  
 Visit [Visumatic.com](http://Visumatic.com)



**About Visumatic**  
 Visumatic is an independent, family-owned and operated fastening technology company located near Lexington, Kentucky USA.

**Read Our Story**

**Real Applied Technology**  
 Learn how Visumatic became a partner in success solving fastening challenges for a wide range of product manufacturers.

**Read Case Studies**