

Fastening Automation Handbook #1

Perfecting Manual 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.

Advanced Fastening for Operator Driven Assembly

Visumatic can get you from zero to fully automated screw fastening. While the basic screw concept has stayed the same for hundreds of years, drive technology has advanced from simple flathead to specialty screws manufactured with tamper resistance in mind. Automatic screwdriving technology has evolved right along with it.

Screw automation benefits can reach beyond manual operation. Implementation of a “semi-automatic” system where the operator manually positions a powered driver, can not only improve repeatability but also processing speed, and can mitigate repetitive stress injuries (RSIs). This can be a dramatic improvement, taking the process from beginner to advanced fastening automation.

A handheld [automatic screwdriver](#) system is a very affordable option for increasing productivity while improving ergonomics. The feeder automatically orients and delivers a screw to the operator gun. Once they complete the screw install, a new one is sent while moving to the next location, saving time.

Visumatic is ready to be your partner in all aspects of screw automation. From product evaluation to design suitability tips, we can help augment existing assembly processes. Improved fastening that spans an operator-driven station or full lights-out assembly, Visumatic can guide you through all points between.

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/>



Ergonomics improve along with productivity gains using an automatic feed screwdriver.

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About Visumatic

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

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Real Applied Technology

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

Read Case Studies

