

# Fastening Automation Handbook #3

## Robots to the Rescue



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.

## Robots Advance Productivity While Improving Quality

When thinking about what level of automation to implement, it's important to consider the labor for manual part manipulation involved, as well as how much longer a product will realistically be produced. A low volume model that rarely changes may be a better fit for a human controlled semi-automatic screw feeder. Something a bit more complex, perhaps with difficult to reach locations, model variants, or a high number of fasteners, may be better suited for more advanced automation.

Visumatic packaged a pair of [robotic screwdrivers](#) in an assembly machine that can blaze through production. An automotive manufacturer was re-tooling their line for a new no-mar front grill model, which required 22 screw rundowns to torque per part. The goals were to be below the 35 second takt time without adding labor to the existing line. A dual SCARA robot configuration was selected to allow the robots to share work between them, achieving both goals simultaneously.

A robotic screwdriver assembly machine is a very cost-effective option for high-volume, labor-saving assembly. As your partner in all aspects of automated joining, Visumatic can deliver improved fastening at every point of your automation journey.



**A dual-SCARA robotic screwdriver 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/>

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### 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

