



WHITE PAPER



THE AUTHOR

Jared Jobbins
Business Development
Manager, Tennessee
jared@citizenswiss.com
c: 901-485-5868

ROBOTS IN THE WORKPLACE: Automation Made Easier

Superior quality computer numerical control (CNC) equipment and parts has gained a new best friend: the Mitsubishi LoadMate Plus™ Machine Tending Robotic Cell. Automating your CNC machine could be the best thing you can do for your business—and you get to work with robots.

Millennium Machinery Inc. has a long history of automation integration. We

partner with the best automated bar loader companies in the world. Citizen's own integrated CAV bar loader has adjustment pages right in the CINCON control. In fact, the Swiss-type Lathe itself is an integrated automation of lathes, mills, drills, and many more tools which transferred parts between functions manually before the Swiss-type Lathe came around. By partnering with Mitsubishi, we are once again bringing an automation solution to meet our customers' needs.

CONTACT INFORMATION:

4406 Technology Drive
South Bend, IN 46628, USA
Phone: +1 574.472.7850
www.citizenswiss.com





WHITE PAPER

Automating your machining business is now a necessary response to the changing demands of the industry. We are entering an accelerated era of digital evolution, one that must adapt to change as quickly as it comes. Companies cannot afford to shut down the way they did at the beginning of the pandemic, so they're figuring out an alternative preventative solution. And that solution is: robots in the workplace.

Short-Term Survival and Long-Term Success

Automation is the key to bridging the gap of human error and time constraints within a business's manufacturing operations. But it does more than that. Bringing robots in the workplace allows businesses to make more money while saving time.

The LoadMate Plus™ has the strength of an industrial robot with safety-first functionality. There are different size and speed options to choose from, with the top-functioning model allowing a payload capacity of 20 kgs and the composite speed reaching 4,200 mm/second. This package-unit enables the user the peace of mind that this powerful and repeatable robot has all the guarding that it needs to also be safe application.

The versatility of this robot allows for multiple different manufacturing processes

to be stored, managed, and carried out by one CNC machine aided by the LoadMate Plus™. Multiple actions, prompt execution, 24/7 operation and quick processing make automation the obvious choice. More parts can be manufactured in a shorter amount of time, with fewer errors and maximized raw material usage.

The LoadMate Plus™ can be used for loading and unloading. Loading blanks into the spindle, when the application requires fixed length blanks, is no longer a challenge. Unloading is just as straightforward, with the flexibility to make changes as your applications change.

Your business depends on the ability to continually repeat high-quality results. Automation allows you to remain competitive and profitable within this ever-changing industry, without sacrificing time and money for quality materials.

Robots in the workplace, like the LoadMate Plus™, bring manufacturing plants to a new level of high standards. Every part is crafted the same way, with accuracy within 1/1000th of an inch.

Production, Simplified with Robots in the Workplace

CNC automation makes the production of parts seamless. Now, loading and unloading of parts and materials is just as

THE AUTHOR

Jared Jobbins
Business Development
Manager, Tennessee
jared@citizenswiss.com
c: 901-485-5868

CONTACT INFORMATION:

4406 Technology Drive
South Bend, IN 46628, USA
Phone: +1 574.472.7850
www.citizenswiss.com





WHITE PAPER

THE AUTHOR

Jared Jobbins
Business Development
Manager, Tennessee
jared@citizenswiss.com
c: 901-485-5868

seamless. The machines work independently after being set up. This addition to automation offerings from Millennium Machinery Inc. takes your plant one step closer to a more competitive and productive future. Once programmed through the intuitive controls, the LoadMate Plus™ runs with minimal maintenance. Because it is a robust industrial robot, it will outlast collaborative models over thousands of repetitions.

Making use of a tending robotic cell lowers labor expenses and the risk of staff injury on the manufacturing floor. Repetitive motion injury is one of the most common workplace injuries, setting up employers for a costly risk if an employee suffers such an injury. Automated loading and unloading enables a robot which was designed for such tasks to take on the wear and tear of repetitive motions.

Robots also do not get sick. They do break down though. That is why trusting your automation to a responsive dealer and a reputable brand name is crucial for your success. This is another reason Millennium Machinery Inc. and Mitsubishi Electric Automation have teamed up to bring you a solution that is both reliable and well supported.

We, at Millennium Machinery Inc., are an engineering dealer. This means that we do

not only sell our solutions in machinery, but also perform application and engineering. We have encountered many applications when using an automatic bar loader simply is not the best solution.

We have encountered some when implementing an automated bar loader simply is not possible. This leaves us with hand loading or gantry-style loading. These solutions are not always practical or flexible. The LoadMate Plus™ bridges this gap between the automated bar loader and hand loading or gantry loading. This simplified, reliable, flexible, and safe solution is supported by both Millennium Machinery Inc. and Mitsubishi Electric Automation engineering teams.

Making the leap to integrate shop floor automation can be an uncertain journey, when you do not know where to begin. Why do people invest in automation then? It is critical to staying competitive. The key is to reduce the risks associated with integrating automation. Now, you can integrate automated loading and unloading of Swiss-Type CNC Lathes by calling on Millennium Machinery Inc. and Mitsubishi Electric Automation with the new LoadMate Plus™.

For more ideas on automating your business in more ways than this, feel free to contact us!

CONTACT INFORMATION:

4406 Technology Drive
South Bend, IN 46628, USA
Phone: +1 574.472.7850
www.citizenswiss.com

