

Dynamic Source Manufacturing: 20 Years of Innovation and Connectedness

By Heather Patrao-Rasiah, Dynamic Source Manufacturing Inc.

Connecting Technology and Our People

The age of digital transformation and the Internet of Things (IoT) is an empowering one. It isn't just about technologies that speed up tasks or robotics that replace people's jobs. It is about innovating products, workflow, safety, and quality customer experiences in a way that allows companies to focus on people first.

Dynamic Source Manufacturing (DSM) is a global Electronics Manufacturing Services provider that pushes the boundaries of new technology. Our strong commitment to Industry 4.0, our Lean manufacturing philosophy, and continuous improvement has positioned us to fixate on meaningful staff roles and deeper customization of our digital strategy.

Founded in 2000, where DSM started out with just 6 employees in Calgary, Alberta, we embarked on automating our factory from day one. Our journey brought us to reach new milestones: In 2015, we opened a manufacturing facility in Tempe, Arizona. In Calgary, we are pleased to be moving into a new state-of-the-art building this October.

Now celebrating DSM's 20th year, we are honored to be doing our part in paving the way to building world-leading capabilities in advanced manufacturing.

Revolutionizing Our Workflow to Increase Efficiency

Over the last decade, we are proud to have collaborated with companies providing innovative solutions that support DSM's vision. We partnered with Cogiscan to incorporate component traceability systems, providing instant reporting and the ability to trace lot codes to serial numbers. Through our Assure X-Ray Component Counter from Nordson DAGE, our component counting accuracy is 100% with a 95% reduction in count time.



When we originally implemented our Juki Automation System for intelligent storage management, we realized a significant difference in our inventory footprint: A 95% reduction in kitting time, and 100% kitting accuracy.

This year, our team is taking this a step further to optimize productivity, speed, and product turnaround time for our customers. Recently, DSM installed an Autonomous Mobile Robot from Omron Automation, with attached carrying trays from Vention Industrial Robots. This robot is programmed to self-navigate from the shipping area and deliver materials to our Juki storage system throughout the day, a process that our team used to take on manually.

Later this year, we plan to install a Cobot arm (robotics designed to interact and work safely with people) to augment our material handling processes.

In addition to transforming our workflow, incorporating robotics and automation achieves much more. Our enhanced production cycle frees up time for our team to focus on more important responsibilities, improves access to materials, optimizes workspace, and significantly increases our level of safety in the factory. Removing the need for manual heavy lifting reduces the risk of accidents and injury.

Feel free to check out our robot in action via our website.

Looking Ahead

DSM has come a long way over the last 2 decades, and we are not stopping here. We are exceedingly grateful to partner with like-minded companies that help us move forward in advanced manufacturing to reach our shared Industry 4.0 goal.

As we look toward the future, we are increasingly building synergism between our community and technologies to help our customers achieve their goals, to empower our team, and to strengthen partnerships to last a lifetime.

Connect with Us

DSM provides high-quality contract manufacturing services

for the communications, energy, emerging technologies, industrial, automotive, and security & defense sectors. Our services include quickturn-prototyping, volume manufacturing, testing, component sourcing, and box build assembly. We are ISO 9001:2015 certified and registered through Canada's Controlled Goods Program and the USA's International Traffic in Arms Regulations. 

