

# The World We Live and Work In Keeps Getting Smarter

These days there are smart devices everywhere we turn. In our homes there are smart doorbells, thermostats, speakers, appliances, phones and the list goes on. Smart devices are also found in where we shop and dine, in the vehicles we drive and in where we work. Recent estimates indicate that there are nearly 15 billion smart devices in the hands of everyday people and more than twice that number on the job in manufacturing plants around the globe.



## Smarter production lines

Smart devices in manufacturing first came into use in the early 2000s. Around that same time, the term “smart manufacturing” entered the lexicon after it was uttered at a workshop conducted by the National Science Foundation. Today, smart devices are found on virtually every production line. They include linked devices such as scanners, sensors, vision systems and intelligent tools of numerous types. They are at work not only to observe but also to engage with the flow of work right when it is happening. All for the purposes of increasing efficiency, reducing waste, minimizing downtime and improving quality control. There are even devices that are capable of tracking other devices and their assembly history in order to further advance product excellence.

## A smarter bond is a better bond

The bond made by adhesive fluids is one that is crucial to the assembly process. After all, it can make the difference between product failure and product success. Until the development of the LDS9000 (Linear Drive System) by Fishman® Corporation in 2001, which was followed in 2010 by the next generation SmartDispenser®, there were no smart fluid dispense systems on assembly lines. Incredibly, the SmartDispenser® remains the only intelligent fluid dispenser available today, but that has not stopped Fishman® from expanding its intelligence and capabilities.

## SmartDispenser® more than lives up to its name

Since its introduction, many more innovative technologies have been added to the SmartDispenser®. Some of these advancements provide manufacturers with the knowledge of:

- ▶ Always knowing the syringe size;
- ▶ Always knowing the amount of fluid in the syringe; and
- ▶ Always knowing the dispense volume

The growing intelligence of the SmartDispenser® allows it to offer many more benefits to manufacturers, some of which include:

- ▶ As the fluid in the syringe reservoir empties, and there is not enough fluid to make a complete deposit, the SmartDispenser® knows to stop dispensing preventing substandard parts from being made
- ▶ The SmartDispenser® shows a graphic image of the syringe volume on its screen. This is beneficial when using an opaque syringe reservoir because it allows the operator to see and therefore know the syringe volume
  - » The SmartDispenser® has the smarts to send a *ready signal* and a *syringe reservoir empty* signal to a PLC. In fact, every SmartDispenser® comes ready to communicate with PLCs permitting smooth integration into any automation system
- ▶ The SmartDispenser® records all production activity in an automated daily Excel CSV production report which can be sent to all those who need to review and, if necessary, act on this vital information
- ▶ Adding one or more simple, yet powerful System Enhancements developed by Fishman® to the SmartDispenser® allows it to think and make AI-like decisions

## Time to add intelligence at the point of dispense

There are many more advantages that can be gained from having the SmartDispenser® at work on your assembly lines. To find out about them please visit [fishmancorp.com](http://fishmancorp.com) or if you would like, simply call and ask to speak with a sales representative at 800-433-2115.

