advanco

Independent Level 3
Pharmaceutical Site Manager

Advanco's ARC MES/Cockpit has firmly established itself as one of the pharmaceutical sector's leading site management systems, managing the entire serialization and aggregation processes for some of the globe's leading pharmaceutical companies.

October 2023

ARC MES/Cockpit can be found in warehouses, packaging lines and production lines of all sizes right across the world – and is set to become even more popular as the sector continues to evolve and change beyond recognition as technology increasingly defines the future of the entire industry.

Level 3 pharmaceutical track and trace: A digitally powered future

Technology is set to be one of the most important aspects of the pharmaceutical packaging lines of the future, especially relating to level 3 operations.

ARC | **MES/Cockpit**

Level 3 is often seen as the very nerve centre of the modern pharmaceutical packaging line, responsible for powering overall site systems, acting as the common denominator that links the Level 2, Level 4 and Level 5 software. It also manages and coordinates the master data relating to the serialization of the medicines or drugs themselves.

Digitalization will connect everything, creating new levels of transparency and adaptivity for a digitalized plant floor. This will enable faster decision making and provide in-line and in-time control over business, operations, and quality. It will also require higher levels of security, since connected systems heighten vulnerability.

This is why ARC MES/Cockpit has such strong credentials as an independent Level 3 site manager, capable of working alongside existing systems and already carrying out work that was previously done by several people – fully reflecting what is going on in the wider world.

Level 3 pharmaceutical site management: An antidote to a shrinking workforce

The evidence of a much smaller workforce can already be seen upon visiting many packaging lines across the world.

The fourth industrial revolution, or Industry 4.0., has already started to change the very DNA of pharmaceutical production lines across the world. Crowds of workers are increasingly being replaced by robotics, with entire swathes of packaging lines now being populated by complex machinery in place of the humans who would once have worked there.

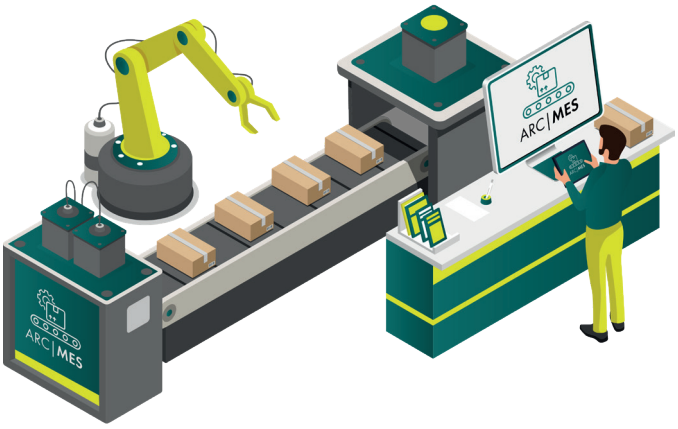
A combination of cyber-physical systems, the Internet of Things and the Internet of Systems will power Industry 4.0 and allow the smart factory to become a reality. As a result of the support of smart machines that keep getting smarter as they get access to more data, the global pharmaceutical sector will become more efficient and productive and less wasteful.

Technology will increase the efficiency of all interacting, and inter-connected systems, products, and services, it will increasingly help to track and streamline processes and maintain the efficient data flow needed for the smooth running of complex production lines. This means that having a solid Level 3 pharmaceutical site manager is rapidly becoming a must-have for pharma firms of all sizes.

Level 3 pharmaceutical serialization software: An answer to increased regulation

The issue of counterfeit medicines is one that continues to blight the global pharmaceutical landscape. According to the World Health Organization, roughly 10 percent of medical products circulating in low- and middle-income countries are substandard or falsified. In sub-Saharan African nations, this share is believed to be even higher, rising closer to 19-50 percent.

However, the actual number of incidents of fake drugs being manufactured and distributed is likely far higher, considering the many cases where counterfeits have not been detected or reported.



One of the main elements to controlling the number of forged drugs in the world is regulation. More countries are realizing the importance of regulating their pharmaceutical production process, and much like a snowball effect, momentum is gathering. With the EU Falsified Medicines Directive (FMD) coming into effect in February 2019 and the US introducing legislation in November 2017, as part of the Drug Supply Chain Security Act (DSCSA), it's expected that more than 75% of global medicines were covered by some form of track and trace regulations by 2019.

Advanco's ARC MES/Cockpit fully complies with all global serialization requirements, including DSCSA, Anvisa, and EU FMD.

Level 3 item level serialization: Offline capabilities

Advanco's ARC MES/Cockpit can continue managing shop floor operations without an active internet connection.

This is of paramount importance. Even in today's technologically-driven world, internet outages remain surprisingly common – and can often cause chaos on a production line, with systems needing to be re-set, machines needing to be re-programmed and entire lines coming to a standstill. ARC MES/Cockpit can carry on during an internet blackout, saving substantial downtime and minimizing losses in production volumes.

Level 3 pharmaceutical serialization technology: One size fits all

Advanco's ARC MES/Cockpit is a true one-stop level 3 serialization platform.

It can control and manage several serialization and aggregation machine vendors and brands in one packaging line or shop floor environment. It removes machine vendor lock in, which is something we are passionate about at advanco.

We have long argued that the pharmaceutical sector needs much more cooperation between its member companies. It is only by working together that we can overcome the issues that continue to blight us all, such as the ongoing problems caused by forged medicines.

Discover advanco's Level 3 serialization platform for yourself!

It is clear to see why pharmaceutical manufacturers are increasingly looking at how level 3 pharmaceutical serialization software will revolutionise their future packaging lines.

Choosing the appropriate serialization solutions is vital for all pharmaceutical manufacturers in today's operating environment, one that is increasingly being directed by increasingly complex regulation, and constantly battling the pharmaceutical forgers who are killing millions of people every year.

Advanco's ARC MES/Cockpit is already established in pharmaceutical production lines across the world, largely because it seamlessly manages all serialized packaging and warehouse operations effectively, all backed up by 24/7 support systems. It is in prime position to take full advantage of the changes that Industry 4.0. is set to bring in, and we look forward to discussing the platform in greater detail sometime very soon.