

Assisting pharmaceutical manufacturers in safeguarding consumers

Medicine delivery is changing, and manufacturers need packaging solutions that increase patient compliance and safety. New regulations mean manufacturers must also be able to track, monitor and verify production throughout the supply chain. They require fast and flexible automated machines with integrated components to handle:

- Quick changeovers for smaller batch runs.
- New compliance packaging for smaller dose packs.
- Different medication formats such as patches, auto-injectors and pre-filled syringes.

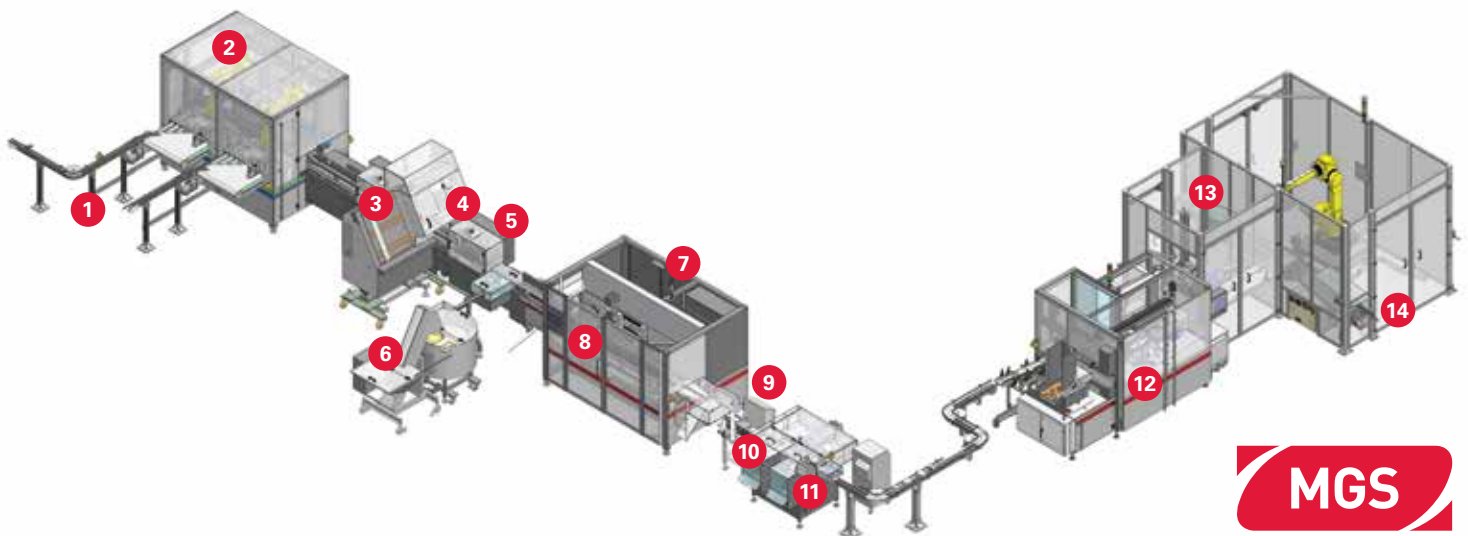
MGS: Delivering peak performance

Whether you're looking for a single machine or a complex, large-scale integration, you need a partner with deep industry expertise to help you meet FDA regulations. As part of Coesia, the world's largest network of packaging technologies and process solutions, MGS has partnered with pharmaceutical manufacturers around the globe to deliver machines that ensure product integrity.

Flexible builds to track product from start to finish

As a single supplier, we provide innovative solutions that integrate seamlessly into your line. We can accommodate a wide range of unique product and packaging configurations to help ensure faster production and end-to-end traceability. Below is an example of a vial cartoning line we designed, built and installed:

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|--|-------------------------------------|--|---|
| 1. 2-lane vial infeed (MGS) | 5. Insert code scanning (MGS) | 9. Checkweigher (OEM) | 13. Case label with aggregation data (OEM) |
| 2. Robotic following vial feeding system (MGS) | 6. Device bulk feeding system (MGS) | 10. Printing and inspection module (MGS) | 14. Palletizer and aggregation system (MGS/OEM) |
| 3. ECOM (MGS) | 7. Cartoning system (MGS) | 11. Serialization system (OEM) | |
| 4. Rotary insert feeding (MGS) | 8. Cartoning code scanning (MGS) | 12. Case packing and aggregation (MGS/OEM) | |



TRUSTED BY

9 OF THE **WORLD'S TOP 10** PHARMACEUTICAL COMPANIES

We've developed automated solutions for:

- Kit packaging
- Blister cartoning/wallet cards
- Compliance packaging
- Transdermal patches
- Sachets
- Bottles
- Vials and vial cards
- Ampules
- Tubes
- Syringes
- Inhalers



Scalable innovations for faster time to market

Want the most economical ways to optimize production, speed, safety and quality? We've developed the following tools and technologies to help operators find and fix faults quickly, increasing your uptime and OEE:

PLANT LEVEL:

- **Human fleet interface (HFI):** Reports aggregated system performance data, batch progress information and real-time equipment status.

LINE LEVEL:

- **Central Line Control System:** Sends data to the HFI and controls all machine functions, recipe handling and production data/faults.
- **Marquee monitors:** Display machine status and faults for operators to see wherever they are on the line.

MACHINE LEVEL:

- **Illumaguard® alert system:** Lights up a specific machine door panel to alert operators to fault location.
- **One-touch troubleshooting:** Helps operators easily troubleshoot issues via an interactive human machine interface (HMI) screen.
- **Remote troubleshooting:** Contains a mobile, fully functioning HMI that operators can take with them to resolve issues anywhere on the machine.



Our people make all the difference

Throughout your project, our certified project managers serve as your single point of contact. After commissioning, you'll have access to our on-site technicians and, if needed, remote-access technology to get you back up and running quickly. And, you'll always have 24/7 support through our worldwide network of Coesia companies.

We support all OEM equipment, including engineering, FAT, installation, service and training. Our pharmaceutical validation assistance documentation sets industry standards. Providing these documents to you greatly reduces your commissioning efforts.

GET TO FULL PRODUCTION EFFICIENCY FAST — AND STAY THERE

Let MGS solve your toughest challenges. We'll deliver a comprehensive packaging solution that optimizes your production while minimizing your risk.

Visit www.mgsmachine.com, email info@mgsmachine.com or call **(763) 425-8808** to learn more.

MGS

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