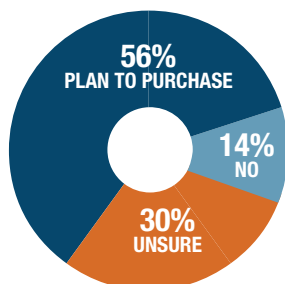


2025 PHARMA PACKAGING & PROCESSING

KEY TRENDS & INSIGHTS



PURCHASE PLANS IN THE NEXT YEAR

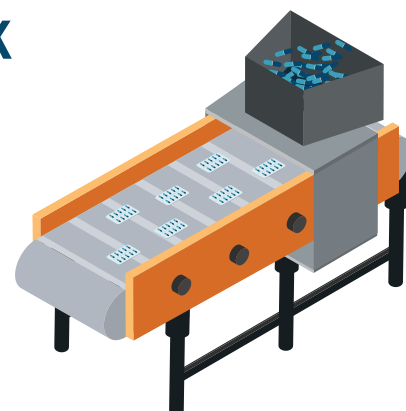


MACHINERY PURCHASE OUTLOOK

PHARMACEUTICAL MANUFACTURERS
(INCLUDING CONTRACT MANUFACTURERS/PACKAGERS)

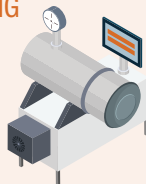
MOST IN-DEMAND MACHINES

- 63% CARTONING, MULTIPACKING & CASE PACKING
- 63% FILLING, CAPPING & CLOSING
- 38% CODING, LABELING, PRINTING & READING
- 38% INSPECTION & TESTING
- 38% BAGGING, POUCHING & WRAPPING



TOP SIX MANUFACTURING AND PACKAGING CHALLENGES

PHARMACEUTICAL MANUFACTURERS



LOOKING TO THE FUTURE

TECHNOLOGY-FOCUSED PACKAGING FEATURES
PLAN TO ADD

PHARMACEUTICAL MANUFACTURERS

- 27% RFID TAGS
- 25% WIRELESS PACKAGING SENSORS
- 23% AUGMENTED REALITY INTERACTIVITY
- 20% MEDICATION ADHERENCE PACKAGING (SUCH AS EMBEDDED SENSORS, CONNECTED LABELS)

OEMS

- 26% AI-SUPPORTED PROCESSES
- 26% DATA-GATHERING SENSORS
- 24% REMOTE TROUBLESHOOTING/UPGRADES
- 19% REMOTE MONITORING
- 19% AUTOMATION AND ROBOTIC

PACKAGING FORMAT GROWTH OUTLOOK

3-YEAR PROJECTION

PHARMACEUTICAL MANUFACTURERS

- 42% PRE-FILLED SYRINGES/INJECTORS
- 33% BLISTER PACKS
- 33% SOLID DOSE BOTTLES (NO SECONDARY CARTON)

OEMS

- 38% PRE-FILLED SYRINGES/INJECTORS
- 30% AMPOULES
- 23% BLISTER PACKS

E-COMMERCE IMPACTS

PHARMACEUTICAL MANUFACTURERS

- 31% CURRENTLY SELL VIA E-COMMERCE

- 13% PLAN TO START WITHIN THREE YEARS

OPERATIONAL CHANGES TO ACCOMMODATE E-COMMERCE

- REDESIGNED PACKAGING FORMATS
- EXPANDED AUTOMATION
- HIRED ADDITIONAL STAFF
- ENGAGED CO-PACKERS

SUSTAINABILITY PRIORITIES

PHARMACEUTICAL MANUFACTURERS PLAN TO INCORPORATE

- LIGHTWEIGHTING/MATERIAL REDUCTION
- RECYCLED MATERIALS (PCR MATERIALS)
- COMPOSTABLE MATERIALS
- BIODEGRADABLE MATERIALS

REGULATORY CHALLENGES AND REQUIREMENTS

PHARMACEUTICAL MANUFACTURERS

TOP REGULATORY CHALLENGES MOST DIFFICULT OR TIME-CONSUMING

- 71% DOCUMENTATION & REPORTING
- 49% PRODUCT TESTING & VERIFICATION
- 29% SERIALIZATION & AGGREGATION
- 29% PACKAGING COMPLIANCE
- 29% MATERIAL AND INGREDIENT TESTING & VERIFICATION

MEETING REQUIREMENTS STEPS TAKEN

- 62% EXPANDED TRAINING
- 56% PURCHASED NEW EQUIPMENT
- 53% ADOPTED PREDICTIVE/PREVENTIVE MAINTENANCE
- 49% UPGRADED/RETROFITTED EQUIPMENT
- 42% INCREASED AUTOMATION
- 42% DIGITIZED DOCUMENTATION AND REPORTING



PMMI connects consumer goods companies with manufacturing solutions through the world-class PACK EXPO portfolio of trade shows, PMMI Media Group and PMMI Business Drivers.

This research blends quantitative surveys and qualitative interviews with pharmaceutical End Users (users of equipment to produce and/or package pharmaceutical products) and OEMs. Data was collected October - November 2025.

Source: PMMI's 2025 Trends and Challenges in Pharmaceutical Manufacturing White Paper.

Learn more at pmmi.org and packexpo.com and pmmimediagroup.com.