

Providing Sterilization & Laboratory Services for the world's most innovative healthcare companies.

## From the Blog

### Medical Device Kit Packaging

June 1st 2026

Medical device manufacturers frequently manage products composed of multiple components that must be grouped, packaged, identified, and delivered as a single finished system. Whether intended for surgical procedures, hospital use, clinical evaluations, or commercial distribution, kit packaging plays a central role in ensuring that products are prepared according to their intended use, regulatory requirements, and distribution constraints.

The packaging configuration selected during the industrialization phase influences product protection, sterilization compatibility, traceability, usability, and logistical efficiency. For manufacturers operating in regulated environments, kit packaging must be approached as a controlled manufacturing activity supported by documented procedures, quality controls, and validated workflows.

At Medistri, manufacturing activities support healthcare companies through kit packaging, packaging integration, labeling, sterilization coordination, quality control, and logistics management within a single operational infrastructure.

#### Procedure-Specific Medical Device Kits

Procedure-specific kits are designed to group all components required for a particular medical intervention into a single configuration. These kits are commonly used for:

- Orthopedic procedures
- Cardiovascular interventions
- Ophthalmic applications
- Wound care procedures
- Dental treatments
- Clinical preparation sets

The objective is to reduce preparation activities within healthcare environments while ensuring that all required components are available in a controlled and traceable format.

The configuration of these kits depends on component dimensions, sterile barrier requirements, packaging constraints, and the intended clinical workflow.

#### Single-Use Surgical Kits

Single-use surgical kits combine multiple disposable medical components within a single packaging system prepared for one procedure or patient use. Manufacturers selecting this approach must evaluate:

- Component compatibility
- Packaging dimensions
- Sterilization compatibility
- Traceability requirements
- Labeling structure
- Transportation constraints

Single-use configurations support inventory management while reducing handling activities within clinical environments.

Customized kit packaging activities support manufacturers preparing products for market introduction, distribution, or sterilization workflows.



#### Medical Device Kitting Operations

Medical device kitting operations involve the preparation and packaging of components originating from different suppliers, production batches, or product references into a single finished configuration. These activities may include:

- Component grouping
- Quantity verification
- Inclusion of accessories
- Instructions for use integration
- Label application
- Traceability controls
- Packaging preparation for sterilization

The complexity of these configurations increases when manufacturers distribute products across multiple markets requiring different language versions, packaging formats, or regulatory labeling requirements. Controlled kitting processes help maintain consistency across production batches and packaging configurations.

#### Primary Packaging Configurations

Primary packaging represents the first level of protection surrounding the medical device or kit components. The selection of primary packaging depends on:

- Product characteristics
- Sterility requirements
- Material compatibility
- Distribution conditions
- Shelf-life objectives

Medical device manufacturers frequently evaluate sterile and non-sterile packaging configurations during product development and industrialization phases. Packaging systems must also remain compatible with downstream activities such as sterilization, transportation, storage, and final use.



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#### Packaging Configurations for Sterilization Processes

For products requiring terminal sterilization, packaging selection must take sterilization compatibility into consideration from the beginning of the development process. Packaging systems may need to support:

- EO sterilization
- Steam sterilization
- Degassing requirements
- Sterile barrier integrity requirements

The packaging configuration must allow the sterilization process to achieve the required outcome while maintaining product integrity and packaging performance throughout storage and transportation. The relationship between packaging and sterilization becomes particularly important for healthcare products intended for sterile use.

#### Labeling and Regulatory Identification

Medical device kit packaging requires clear identification throughout manufacturing, storage, distribution, and end use. Labeling activities may include:

- Product identification
- Lot information
- Traceability references
- UDI integration
- Market-specific labeling
- CE marking support

As packaging configurations become more complex, manufacturers must ensure consistency between product contents, technical documentation, labeling systems, and distribution records.

At Medistri, manufacturing activities include labeling and CE marking support as part of broader product preparation workflows.

#### Integrated Packaging and Logistics Support for Medical Device Companies

As medical device supply chains become more complex, manufacturers increasingly seek integrated service models capable of combining kit packaging, sterilization coordination, quality control, and logistics activities within a coordinated framework. This approach reduces operational fragmentation between suppliers while improving project visibility and manufacturing continuity.

Medistri's manufacturing services support healthcare companies through customized kit packaging, packaging integration, labeling, quality control, sterilization coordination, distribution, and logistics activities. By integrating these functions within the same infrastructure, manufacturers can simplify operational workflows while maintaining alignment with regulatory and quality requirements.

To learn more about Medistri's Manufacturing services, visit our website [here](#) or contact our team at [contact@medistri.com](mailto:contact@medistri.com).

– The Medistri Team

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#### Secondary Packaging and Product Presentation

Secondary packaging provides additional protection, identification, and logistical support. This packaging level frequently incorporates:

- Product labeling
- Traceability information
- Transport protection
- Market-specific information
- User documentation

For manufacturers distributing products internationally, secondary packaging often requires adaptation to regional regulatory requirements and language specifications.

The packaging structure must maintain consistency with the product's technical documentation and approved labeling strategy.

#### Quality Control and Traceability During Kitting Activities

Medical device kitting operations require documented controls throughout the manufacturing process. Quality activities commonly include:

- Incoming component verification
- Visual inspections
- Quantity verification
- Label reconciliation
- Documentation review
- Batch traceability controls

These activities contribute to manufacturing consistency while supporting regulatory expectations associated with medical device production and distribution.

Traceability remains particularly important for kits containing components originating from multiple suppliers or manufacturing batches.