

Maintaining the sterile barrier

Packing and handling of the instruments

Correct packing and handling of the instruments is the starting point in the sterile chain. We advise using flat bottom, highly polished Belintra instrument trays, with an integrated RFID chip, wrapped in nonwovens (picture 1). Thus the surgical instrument sets remain sterile up to the point of use. The double and sequential wrapping creates a better bacterial barrier and allows for aseptic opening.

Place, handle, and transport the wrapped instruments sets in Belintra AISI 304 stainless steel highly polished and stackable wire transport baskets which are available in different sizes. A Belintra silicone mat is recommended to be used with the Belintra transport baskets. Using this combination insures to prevent perforations, and therefore contamination (picture 2).

Standard norms for transport and storage

Two standard norms are being put forward for optimized transport and storage:

- ISO (norm ISO 3394) for trays and baskets 24 x 16 inch.
- DIN (norm DIN 58952) for trays and baskets 24 x 12 inch.

Sterilization process: floor load or top load

Belintra's floor loading Stericart is manufactured from highly polished AISI 304 stainless steel and is designed to accept Belintra transport baskets. For top loading place baskets in the loading cart (pictures 3 & 4).

Using the correct transport solution

Whether you opt for ISO or DIN, it is desirable to choose the type of transport cart or case cart – open or closed – based on your needs (picture 5).

Using the correct storage solution

For your modular storage solution you can again choose between ISO and DIN or a combination of both to optimize the use of the space available. The sterile instrument sets remain wrapped in the wire transport baskets. As the wrappings are not stacked onto each other, you prevent damage to the wrapping and risk of perforation, and therefore contamination. This storage solution allows for better overview, easier picking, and improved traceability (picture 6).



Belintra's Sterisystem provides the key elements for each milestone in the sterilization process

- 1 Highly polished flat base Sterisystem instrument trays made of AISI 304 stainless steel with barcode zone or built-in passive HF RFID tag.
- 2 Steri-TOP instrument lids which make it easy to open and close instrument baskets and stack them onto each other.
- 3 AISI 304 stainless steel highly polished and stackable wire transfer baskets and silicone mats for secure transport.
- 4 Open stainless steel Stericarts which can be used in cart washers and autoclaves and which can also be RFID identified with passive HF Steri-ID loops.
- 5 Closed transport or case carts in stainless steel for secure internal and external transport. An open case cart can be used with clean / dirty elevators.
- 6 Modular storage system UFlex in anodized aluminum for safe and easy picking of sterile medical sets.



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How can my SPD guarantee sterile instruments?

The Belintra solution: Sterisystem - Safeguarding sterility and patient safety with optimized logistics



1

Double and sequential wrapping of highly polished Belintra instrument trays in nonwovens. The sets can be identified with RFID thanks to the built-in Steri-ID.



3

Belintra open transport Stericart in which the instruments enter directly into the autoclave.



5

A Belintra closed transport or case cart in stainless steel can be used for secure internal or external transport.



2

Stackable Belintra AISI 304 stainless steel highly polished wire transport baskets for safe handling of the wrapped instrument trays throughout the process.



4

The Belintra transport Stericart leaves the autoclave without extra manual handling of the wrapped sterile packages.



6

The Belintra modular storage UFlex provides a better overview, easier picking and prevents contamination as a result of perforations.