

Winding and packaging of surgical suture materials

Top technology for highly diverse product variants.



Due to the wide range of different carriers, needle sizes and shapes a multitude of product variants result automatically. The machine concept therefore had to allow fast size and batch changeovers both for the manufacture of the suture material carrier and for the film packaging.

The rational solution for the automatic rewinding of suture materials in a sterile packaging concept with Tyvek®- Vent.

Process sequence of fully automatic winding :

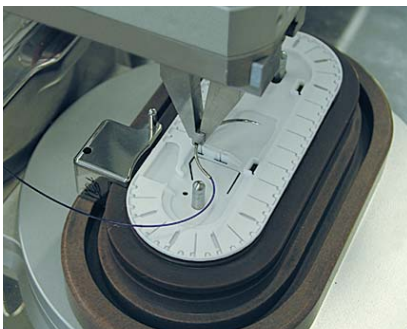
A robot gripper places the thread material into the carrier holder by means of the needle. The flexible side flaps of the carrier are then mechanically opened, to then place the thread in the carrier, depending on the length with up to 4 turns.

An inline imprinted cover sheet is placed on the carrier. Depositing in stacks is then performed in a magazine.

The magazines are manually removed for transfer to the sterile final packing operation.

Technical data, winding

Thread lengths: different lengths are possible
Output: with automatic insertion up to 25 cycles/minute



Insertion of needle and thread by means of a robot



Winding the suture materials on the carrier



Kamerakontrolle der tiefgezogenen Blister auf Risse

Process sequence for film packaging:

The prefabricated suture material is fed to the line, packaging, controlled and inserted into transport crates (up to 30 sheets, or 240 zippers per minute). The end packed product can be retro-sterilized by sealing on a Tyvek® strip.

Technical data, film packaging

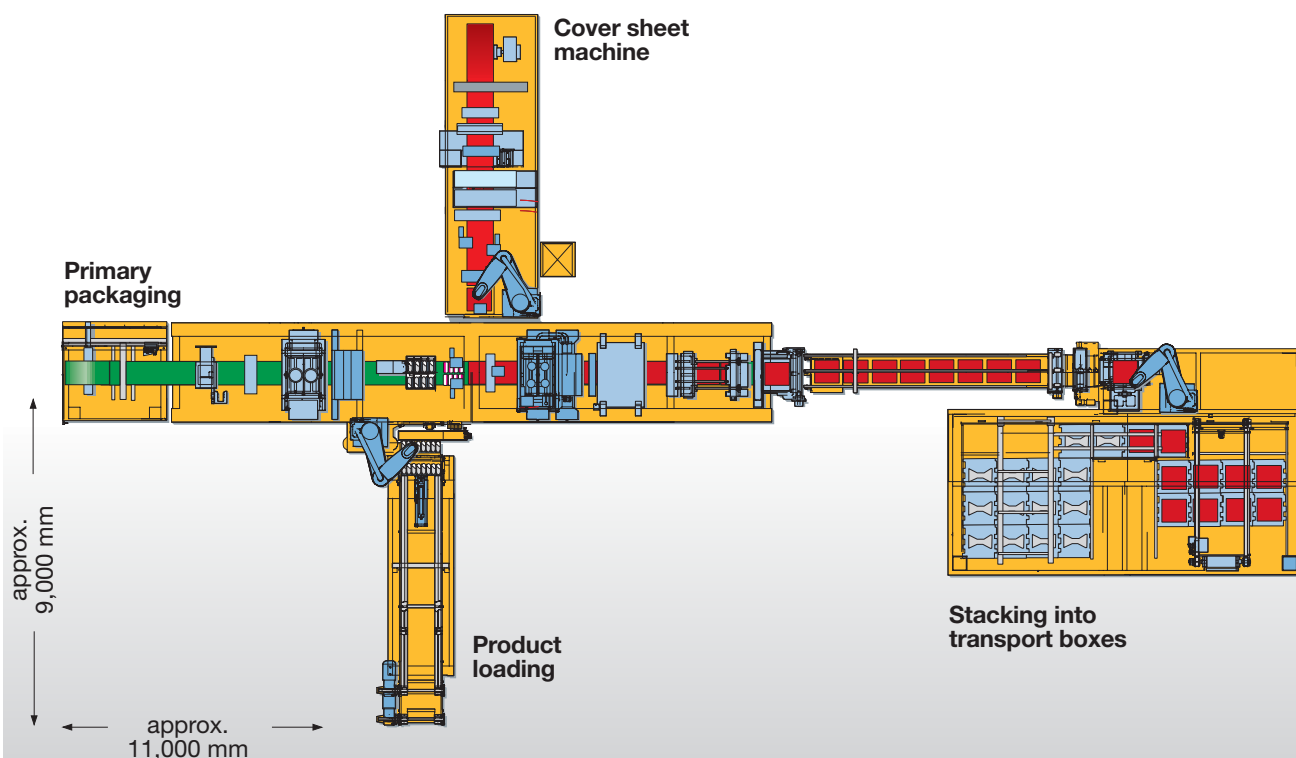
Output: up to 30 sheets or 240 zippers / minute

The machine concept is matched to the wide range of different requirements:

- Quick-change tools for fast adaptation to different package sizes
- Integrated control concept – from the machine control system to the complex in-process controls and vision inspection systems
- Product-conserving handling techniques with robot systems for flexible loading and unloading
- Recipe management
- Three robot systems for a maximum of flexibility
- Code readers for automatic batch changeover
- In-line imprinting with specific product data provided by overriding control systems



You will find further informations in our "Pharma Brochure"



All specifications in this data sheet are without obligation and are subject to change!