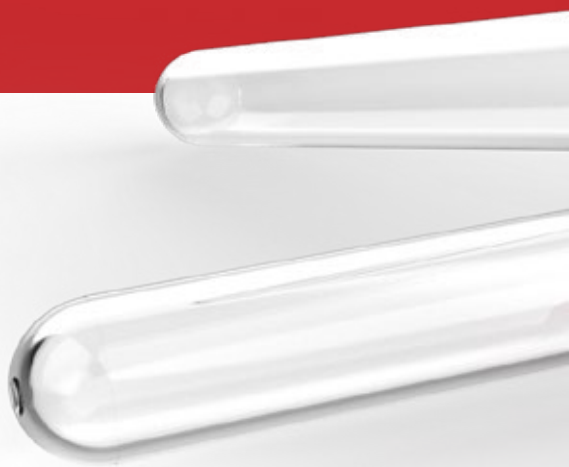
USE CASE

STIWA AUTOMATION

LIFE SCIENCE

Precise installation in clean room for safety in the laboratory

BLOOD COLLECTION TUBES



In this fully automated STIWA machine, blood collection tubes are assembled, which are used in medical treatments and in the laboratory.

The tubes and stopper components are inserted via two feeders and checked for integrity. The tubes are sprayed with a proprietary fluid required for laboratory testing, then it is dried. Then, the tubes are labeled. The finished products are sorted into trays in batches of 50, wrapped in a film and sealed, then packed into a finished carton and placed on a pallet.

LABELING IN CONTINUOUS OPERATION

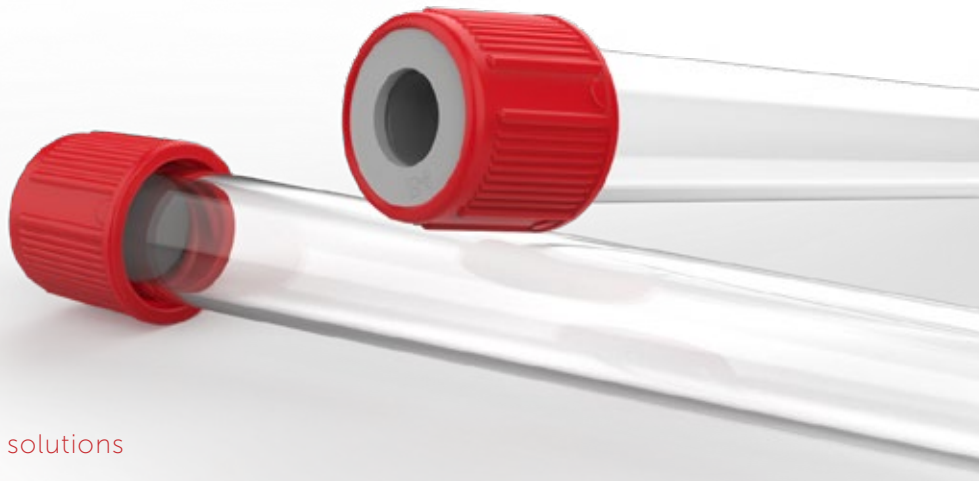
An ingenious process allows the correct application of the labels in continuous operation. The tubes are removed from a previous station and placed seamlessly next to each other in the correct position. The speed of the conveyor chain and the station must be synchronized to ensure the application of the labels (continuous motion removal from the liner and placement).

FULLY AUTOMATED ON MINIMIZED AREA

Vacuum sealing of the tubes with the stopper including packaging, then placement on pallets – all fully automated and in the smallest space. 857 tubes are processed per minute.

SAFE BLOOD COLLECTION

Production in clean room quality for hygienic conditions during blood collection and in the further processing of the sample in the laboratory.



References

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THE FACTS

Performance	> 5 million parts/week
Product variants	20 types
Area	approx. 180 m²
Lines	> 10
Locations	Europe, North and South America, Asia
Special requirements	Clean room production ISO 8
Degree of automation	Fully automated

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