

# Precise cleanroom assembly of 150+ parts per minute

## LONG DWELL VENOUS CATHETER

In this multi-part STIWA machine group, long dwell venous catheters are assembled, checked and packaged. This medical device is used in long-term drug treatment and for blood collection.

The individual components are fed using 9 feeders. The needle, thin plastic tube, and rubber part are provided with particular care. The handle and the needle are bonded together using UV adhesive and cured with a UV lamp. The two assembled groups are joined together, and additional parts are assembled before the finished product is transported to the packaging machine.



### FULLY AUTOMATED PROCESSES IN A SMALL SPACE

All processes, such as assembling the cannula sub-assembly into the capillary assembly and joining the protective cap and blood flash plug, are carried out automatically in a footprint of just 1,700 ft<sup>2</sup>.

### INTEGRATED EXPLOSION PROTECTION WITH EXHAUST SYSTEM

As alcohol is used as a lubricant in the hose valve joining process, an exhaust system and gas sensors have been incorporated as protective measures for explosion protection.

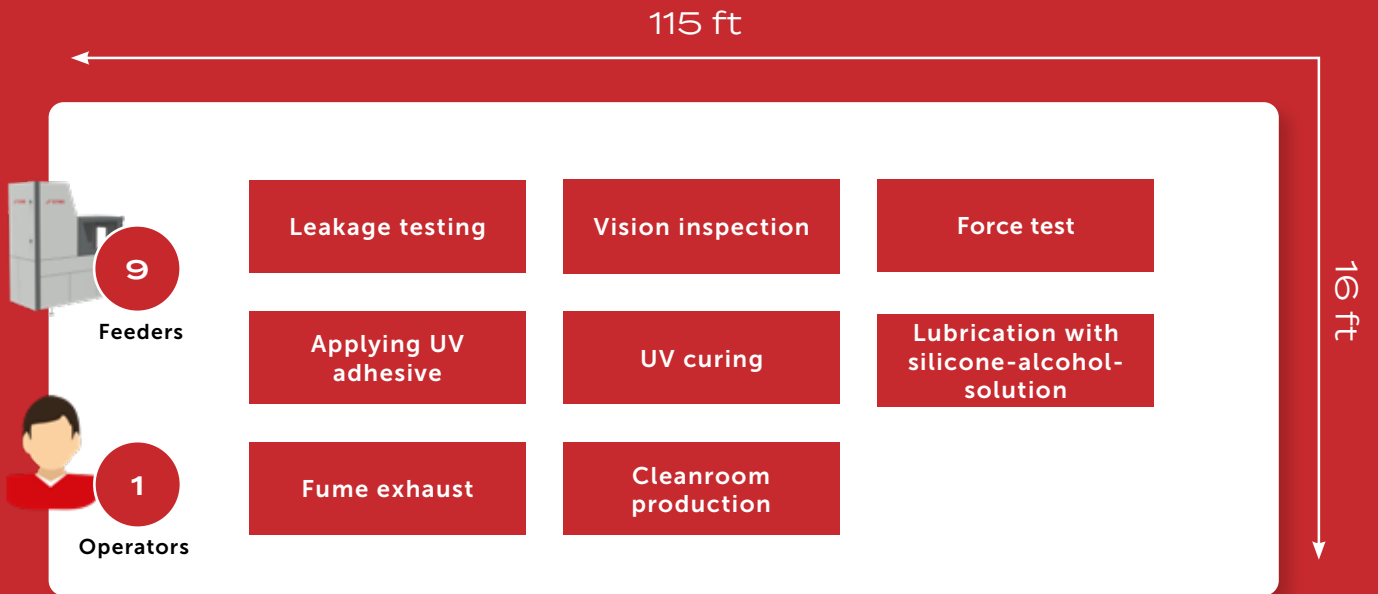
### NUMEROUS TEST PROCESSES FOR PRODUCT SAFETY

The bond strength plastic hose tube housing is tested, as is the pull-out force of the cannula. In addition, the cannula is checked with vision to precisely measure the diameter, the height position of the ground edge relative to the cannula base, and the angle position.



#### ▶ References

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## THE FACTS

<b>Performance</b>	> 50 millionen parts/year
<b>Product variants</b>	2 types
<b>Area</b>	1,700 ft <sup>2</sup>
<b>Location</b>	Europe
<b>Special requirements</b>	Cleanroom production class D
<b>Degree of automation</b>	Fully automated

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