

Assembly line for Dropper Caps

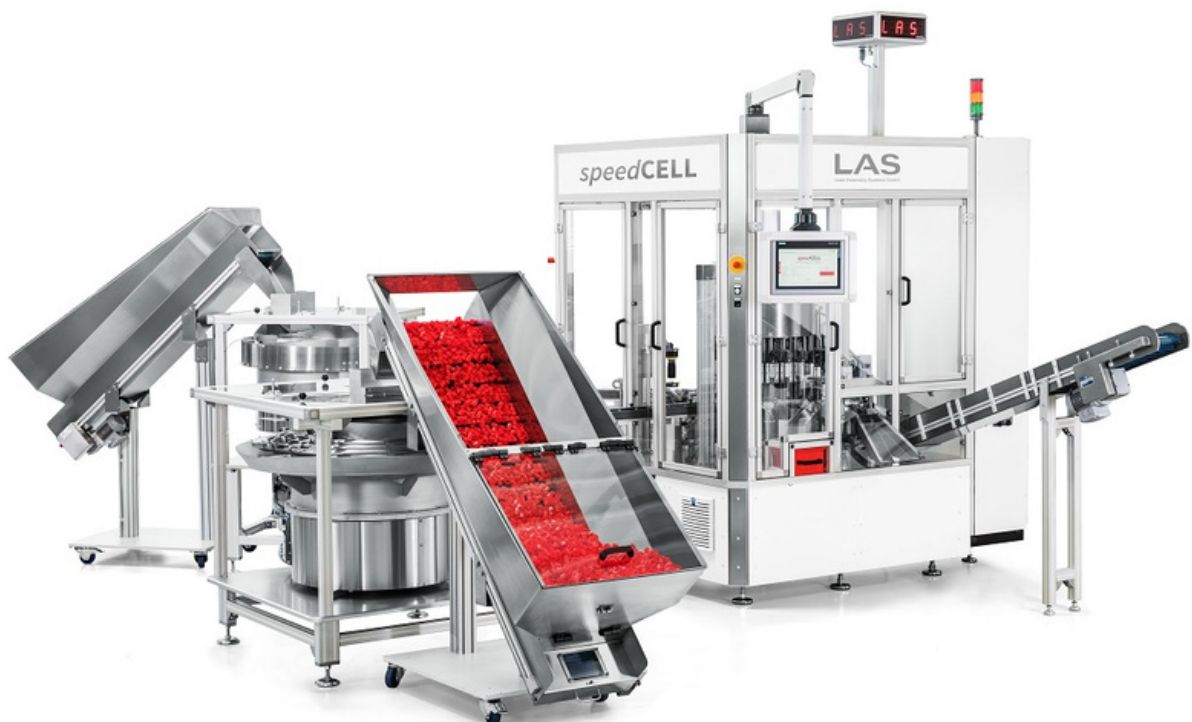
The customer requirements

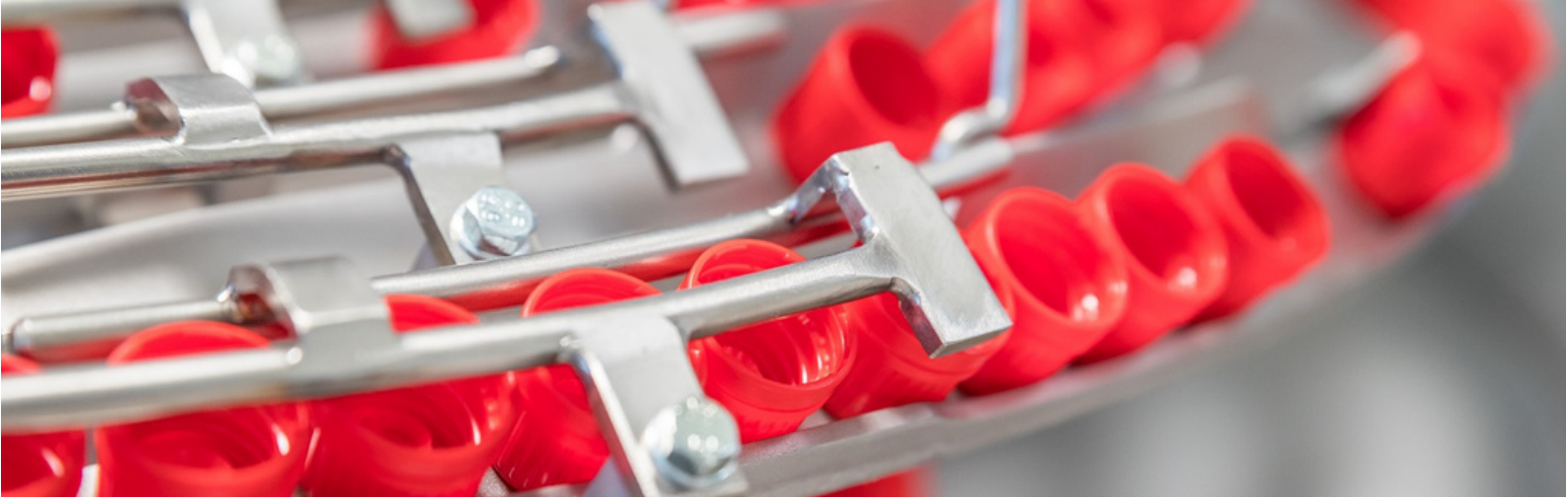
- Assembly of 350 dropper caps/minute
- 24 basic geometric variants with up to 178 sub-categories, all different in terms of material, colour, hole diameter of the dropper etc.
- Extensive testing, including 100 % inspection of the dropper holes in 0.05 mm increments
- Fulfilment of all requirements for production in the clean room, both with regard to the design of the machine and to qualifications (GMP) and material certificates

The **LAS**-solution

Cam-controlled continuous motion assembly line **speedCELL** with 24 fixtures.

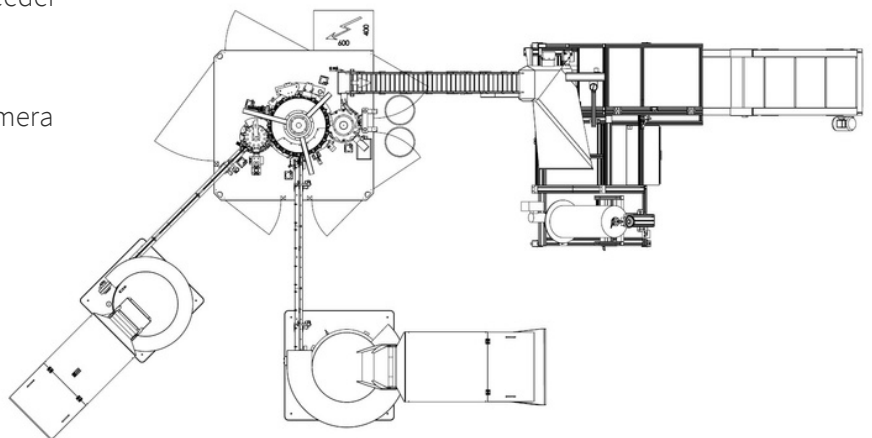
- 350 parts/minute single-lane (21,800 parts/h)
- Feeding in the individual parts via satellites whose speed is synchronised with that of the main tower. This minimises friction in the transfer area and largely avoids abrasion.
- Output of the finished assembled parts also via satellites with synchronised speed.
- Qualification according to GMP
- Clean room class 7



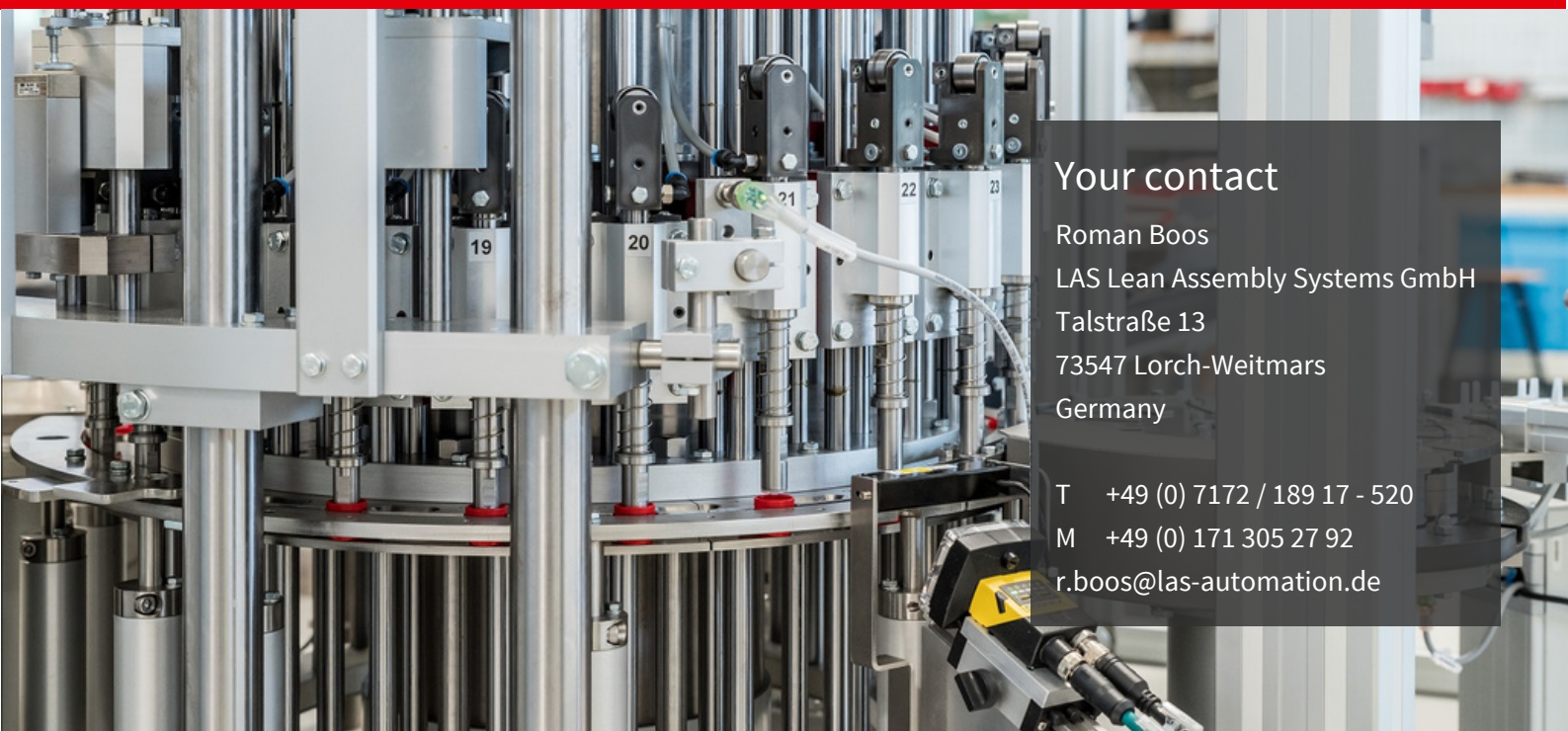


Assembly sequence

- Feeding screw cap via belt hopper, LAS bowl feeder and air rail
- Feeding dropper insert into the machine via a synchronised satellite with upstream 100% camera inspection
- Assembly of screw cap and dropper insert with adjustable force limitation
- Height control
- Output of the assembled dropper caps via synchronised satellite, separated into IO and NIO parts
- NOK parts are collected in boxes
- IO parts are counted and packed in bags



Film



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