

Assembly line for syringes



The customer requirements

- Assembly of 4.800 plastic syringes/h
- Variants: syringe barrels in four sizes, plungers 1- or 2-piece with plunger head or o-ring (10 variants)
- Siliconization of syringe barrel and suction of silicone mist
- Leak test/function test
- Simple, fast changeover when changing variants
- GMP-compliant machine design, FDA approval

The **LAS**-solution

Cam-controlled assembly machine **ratioCELL** with rotary indexing table with 12 fixtures

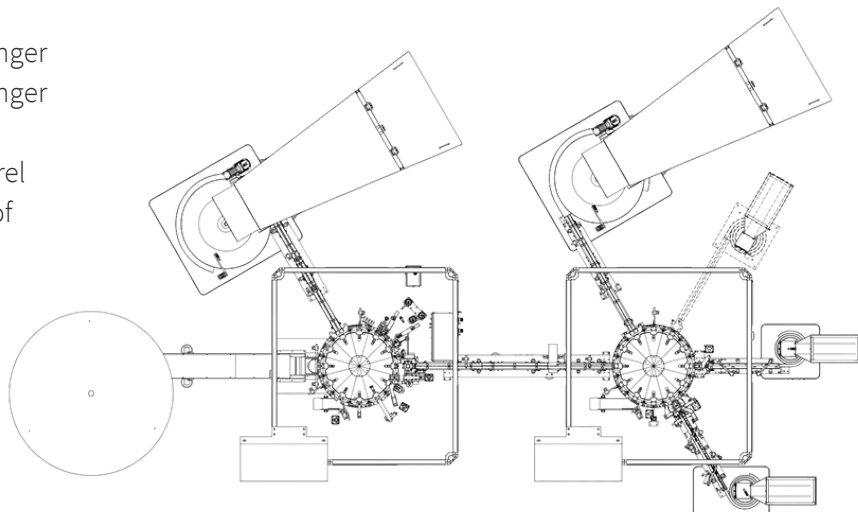
- 80 parts/minute single lane (4.800 parts/h)
- Good accessibility
- Changeover time less than 15 minutes
- High degree of machine autonomy
- Easy cleaning of the machine
- Ergonomic working height
- Cleanroom design according to ISO-cleanroom class 7
- Qualification according to GMP





Assembly sequence

- Feeding, insertion and inspection of the plunger
- Feeding, insertion and inspection of the plunger head or o-ring
- Feeding, insertion and inspection of the barrel
- Siliconization of syringe barrel and suction of silicone mist
- Insert plunger into barrel
- Leakage test and function test in two steps
- Adjust plunger to height and check position with camera
- Ejection of the OK parts into bags



Film



Your contact

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