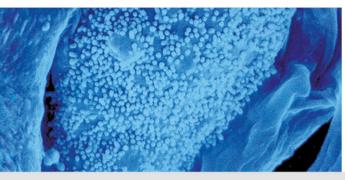
VITROCELL® New Smoking Robot VC 10® S-TYPE











01 VITROCELL® Smoking Robot VC10® S-TYPE





New universal smoking robot for conventional and e-cigarettes

- Platform concept with docking stations
- Large magazine for 300 cigarettes
- New contact-free lighter using hot air
- New smoking head with small dead volume and integrated butt ejector
- Quick-lock holder system
- Machine-controlled button actuator
- Heated smoke path system
- New multiple exhaust port system
- Scalable to up to 3 syringe drives
- Entire product change cleaning in < 10 min
 (with a few prepared exchange parts)

01 VITROCELL® Smoking Robot VC10® S-TYPE



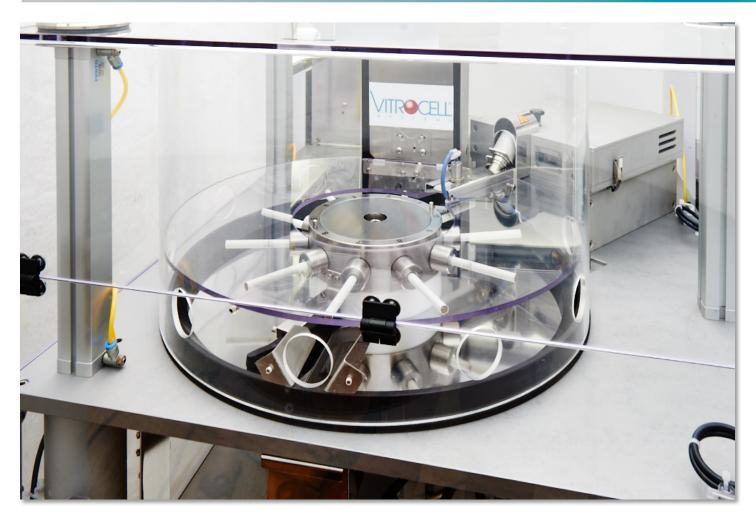


Advanced, user-friendly software with recipe edit functions for favourite smoking / vaping regimes

- ✓ puff volume: up to 200 mL
- ✓ puff frequency: 4 250 s
- ✓ puff duration: 0.1 15 s
- ✓ puff exhaust duration: 0.5 15 s
- ✓ number of cigarettes per run: 300
- ✓ number of puffs: 1-250
- ✓ smoking modes: single, cycle, serial
- ✓ profiles: bell, square, human







Universal smoking robot for combustion and e-cigarettes







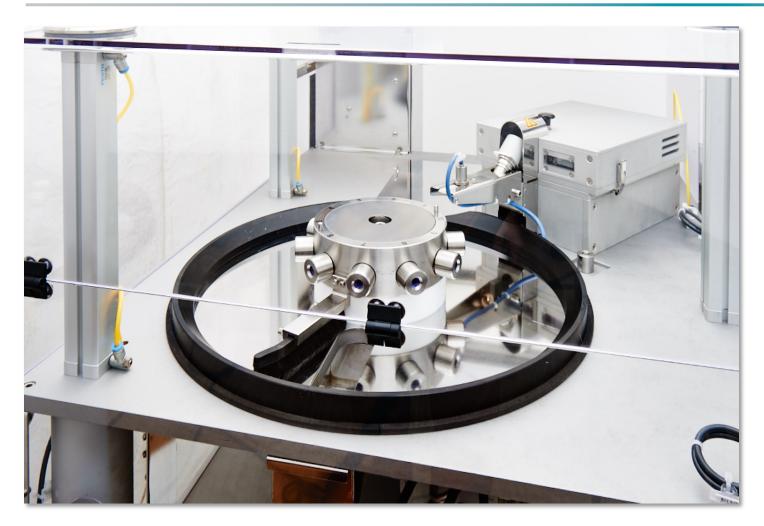
a few steps to change for e-cigarettes





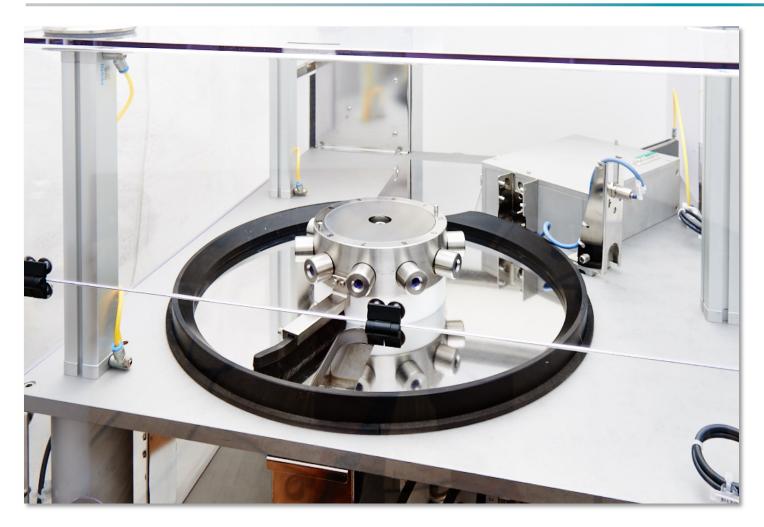
removal of sidestream smoke ventilation ducts





undocking of cigarette magazine and loading station





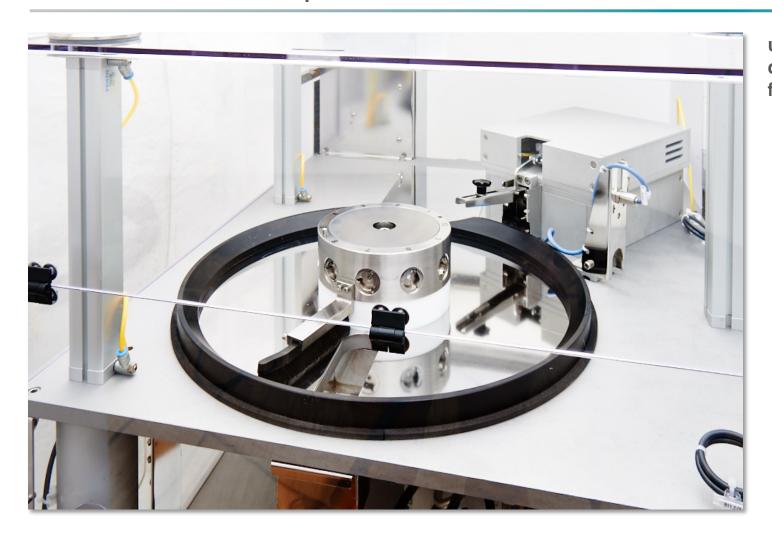
undocking of lighter unit





docking of button actuator station





unlocking of quick-lock holders for conventional cigarettes









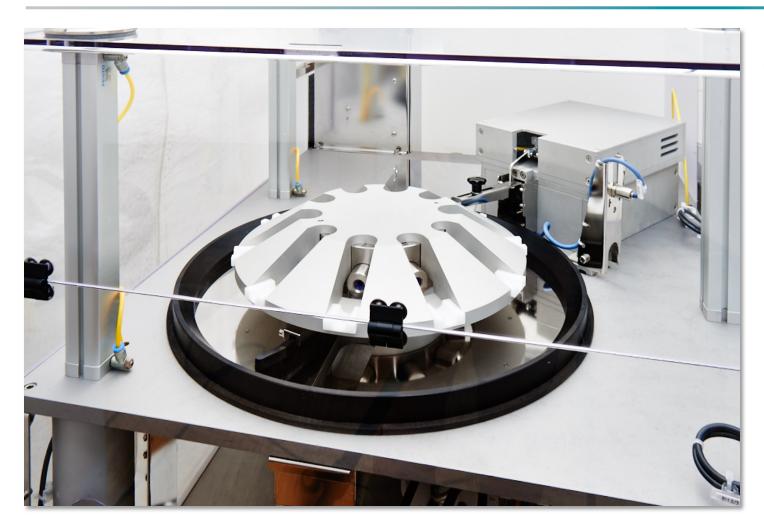
placement of quick-lock holders for e-cigarettes





Advanced in vitro exposure systems





placement of e-cigarette support crown

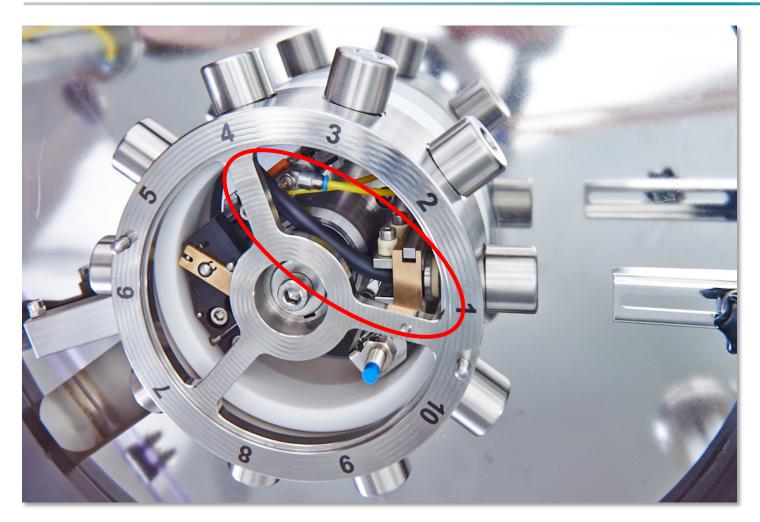




smoke e-cigarettes

03 New smoking head





tubing with minimal dead volume and easy to exchange

04 Large cigarette magazine

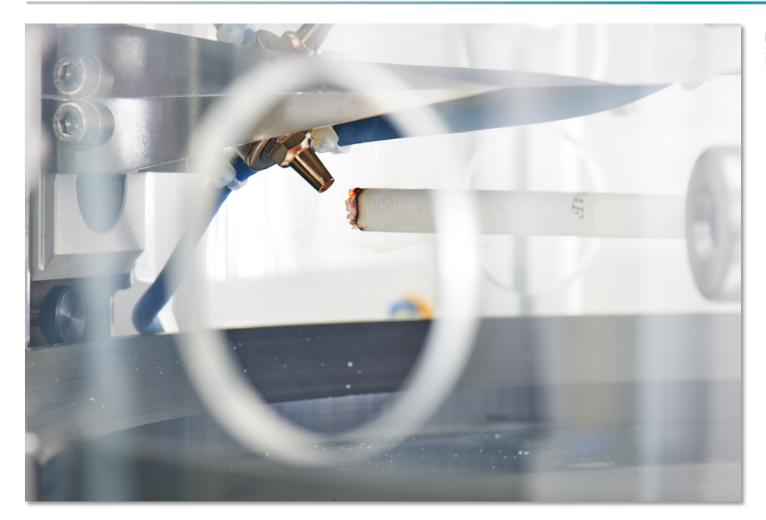




for 300 cigarettes

05 Contact-free hot air lighter



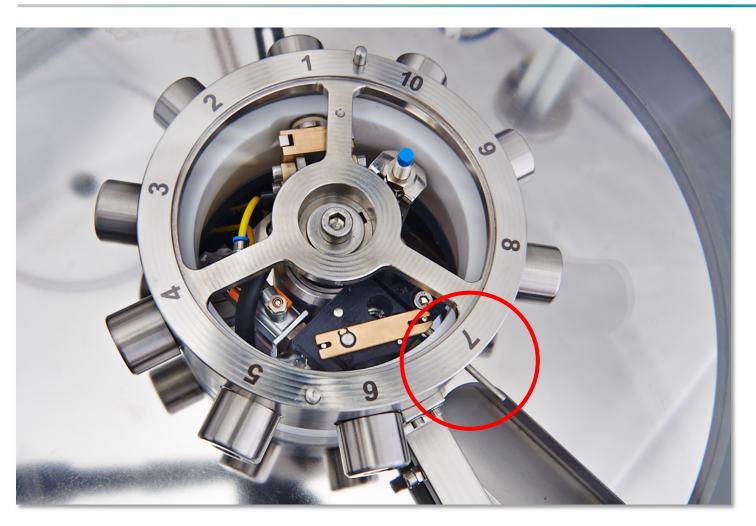


maintenance-free ignition

06 Integrated butt ejector



safe butt removal



06 Mass butt receptor tank

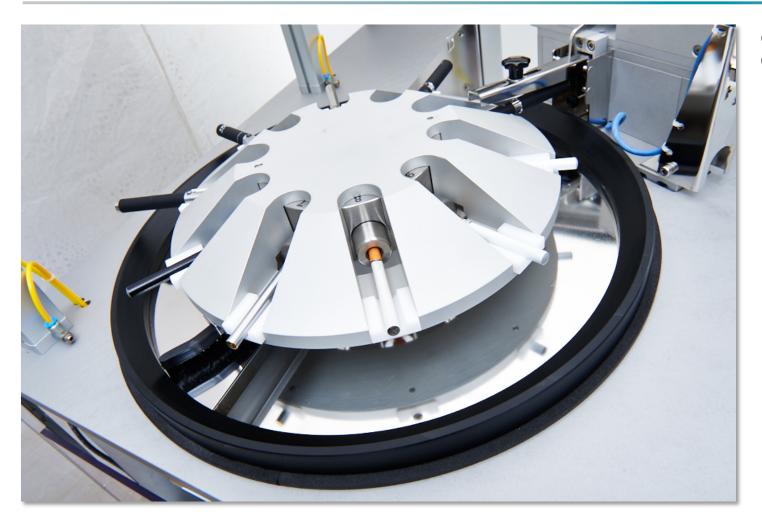




ready for disposal

07 Holder system for e-cigarettes





of all kinds with airtight quick-lock system





Advanced in vitro exposure systems

08 Triggered, programmable button actuator



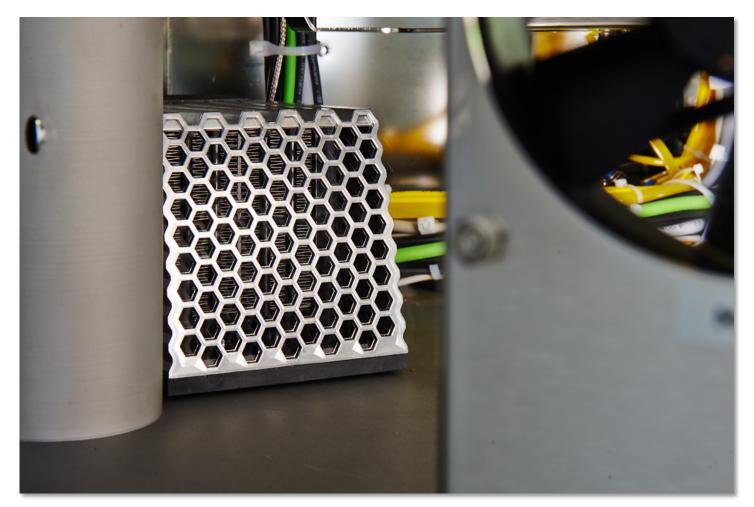






09 Heated smoke path system





electronically controlled for avoidance of eventual condensation



10 New multiple exhaust port system

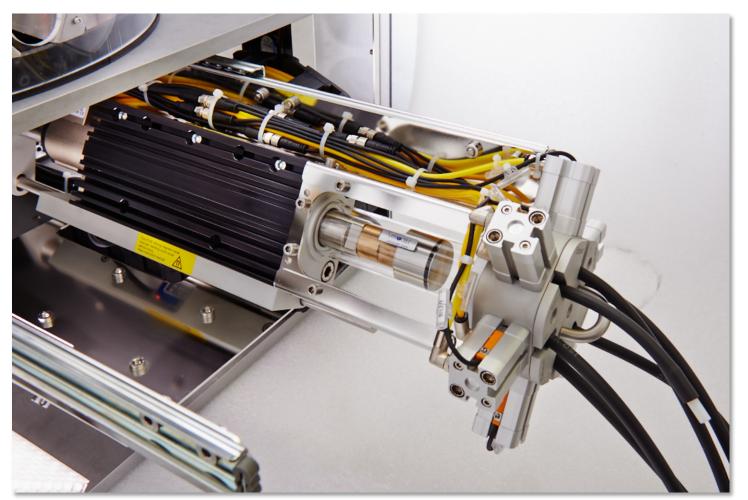




5 exits for 5 dilutions optimized aerosol flow

11 Scalable to up to 3 syringe drives

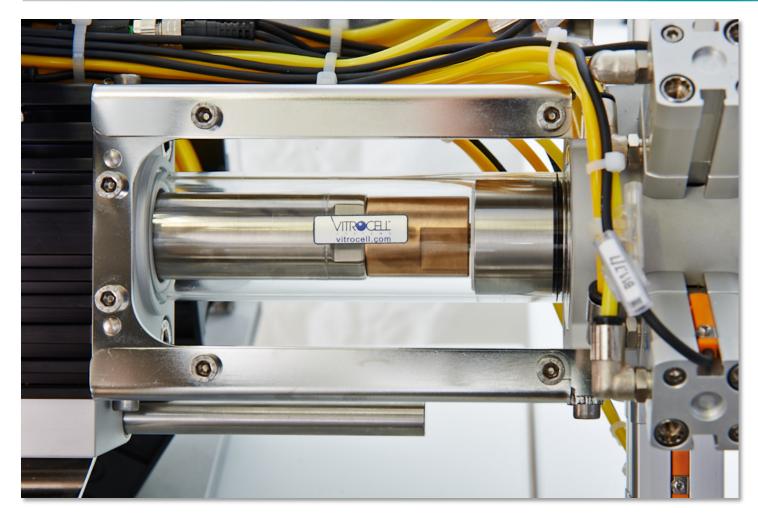




powerful and precise linear motor

12 100 mL or 200 mL syringe volume

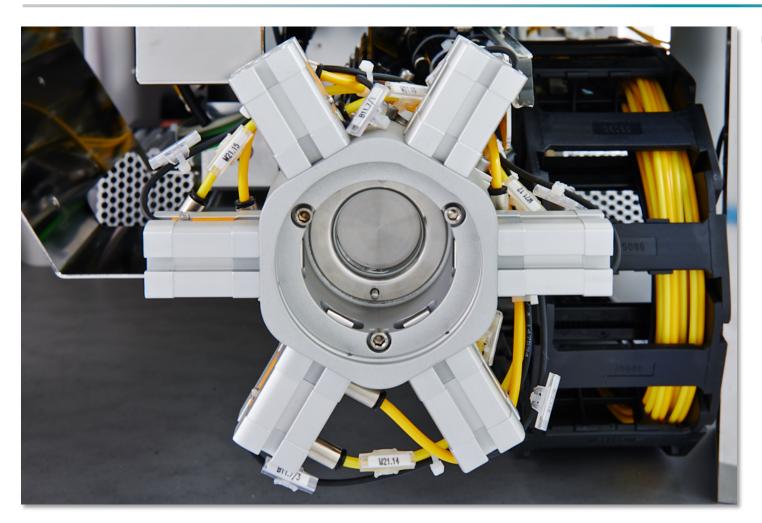




option for human puff profiles

13 Easy cylinder cleaning

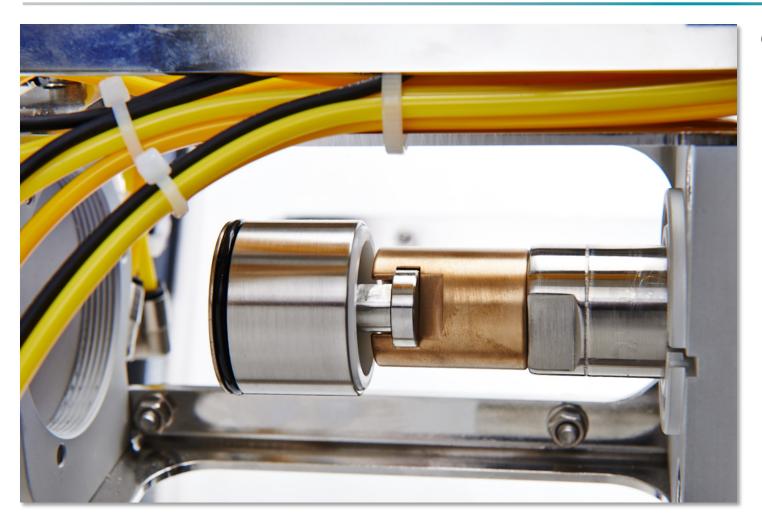




unique valve system

14 Easy piston cleaning



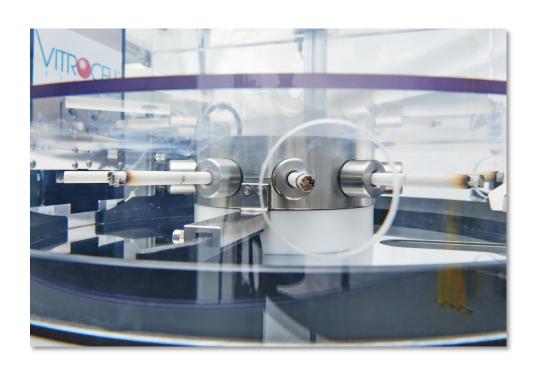


quick mount system

15 Product change in < 10 minutes



for entire smoke path using a few prepared echange parts





16 VITROCELL® Smoking Robot VC10® S-TYPE



ready to go ...





Thank you for your attention!



