

One for all CleanLine C5

New laboratory mixer for all your needs in hygienic processing. Groundbreaking process technology meets hygienic design.



New laboratory mixer CleanLine C5



simple and flexible



Groundbreaking process technology meets hygienic design

- Low-wear design in accordance to requirements in hygienic design
- Quick and simple cleaning thanks to high quality surfaces and optimized accessibility
- Modern and intuitive web-based tablet control with data recording and analysis
- Highest quality in materials, components and manufacturing ensures durability

Effective cleaning

Thanks to optimized accessibility, smooth surfaces and selected components, the C5 can be cleaned effectively and reproducibly.

Ergonomic and quick Handling

The product contacted components (mixing tools, seals, scrapers, mixing vessels) can be assembled and disassembled in the twinkling of an eye.

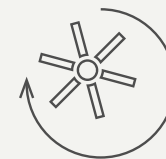
Extra flexible

Simple change of mixing tools and parameter adaption allows flexible variation of different production and preparation techniques.

One machine - many options

Don't make your lab unnecessarily full and expensive with a variety of lab machines. The C5 is the universal one-pot machine that combines an entire development lab in one.

Due to the unique mixing principle, all process operations such as mixing, deagglomerating, dispersing, granulating, coating, kneading, and drying and many more are possible with a single machine.



Mixing



Granulating



Coating



Kneading



Dispersing



Drying

Technical features

- Effective volume: 1.6 to 5.0 liters
- One-piece welded mixing tools, selectable in various geometries, with tool speeds from 0.6 m/s to 27 m/s
- Removable mixing vessel for ergonomic working and simple cleaning
- Touching wall scraper to avoid product adhesion
- Full stainless steel, high surface quality $Ra < 0.8 \mu m$
- Excellent scalability due to consistent geometrical ratios in the C-series



Modular extenable features

Sensitive processes can be regulated and controlled by smart extensions to the machine.

- Temperature control via double jacket or radiation heating
- Vacuum version for extended process control (degassing, vacuum evaporation cooling, vacuum contact drying)
- ATEX version
- Visual process monitoring by camera system
- Product temperature measurement
- FDA certificates and 3.1 certificates according to EN10204
- Accessories (funnel, filter, pressure sensor)
- Different materials for scraper blades
- Laboratory tables for ergonomic working
- Mixing vessel seal with sealing air

+ Modular Design

Control System

- Modern and intuitive web-based tablet control
- Multi-device capable
- Plug & Play machine
- External access to recipe and raw material management
- Data acquisition and recording for detailed measured value analysis
- Separate, flexible control unit



The Eirich mixing system

The special mixing system consists of three components, which can be adapted flexibly to the requirements of the processes.

Rotating mixing vessel

The rotating mixing vessel conveys the material to be mixed into the mixing tool area at a continuously adjustable vessel speed

Variable mixing tool

One-piece welded mixing tool adjustable in type, direction of rotation and speed can be optimally adapted to the process.

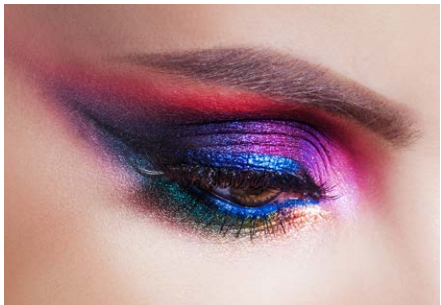
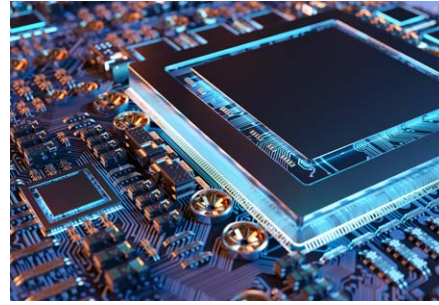
Wall scraper

Bottom- and wallscraping, adjustable scraper prevents build-ups, combination of inclined vessel and wall scraper results in macroscopic mixing.



+ Application

- From gentle to aggressive deagglomerating **mixing** depending on the mixing tool speed and type.
- **Agglomeration and granulation** with controlled variation of granule properties such as size distribution and density by adjusting the shear forces - from microgranules up to 5mm diameter.
- **Temperature controlled** by double-jacket design e.g. for melt granulation or temperature-sensitive products.
- **Kneading** and subsequent **suspending** with good material circulation and complete deagglomeration in both process steps.



Technical specifications for your planning

Filling quantity & weight

Mixing vessel	Effective filling	1,6 – 5,0 l*
Machine weight	Empty weight	~175 – 195 kg**

* depending on the process

