

Welcome to GEA

Change language [Other languages](#)

We use cookies on this website. By using this site, you agree that we may store and access cookies on your device. View our [cookie policy \(/en/info/legal/cookie-policy/index.jsp\)](/en/info/legal/cookie-policy/index.jsp).

OK



Pharmaceutical R&D Technology

Fluid Bed R&D Processing of Pharmaceuticals

MP-1



MP-1 Pharma Fluid Bed Processor - with FlexStream™ Technology

The MP-1 Multi-Processor is a compact, mobile system designed for laboratory scale drying, coating and spray granulation. Fully self-contained, with all controls and ancillary air handling devices built into the machine base, the MP1 capacity ranges from 0.2 up to 6 kg.

The MP-1 Model

Developed by GEA to meet the industry's requirements for flexible unit operations, the MP1 is based upon the principle that one basic unit can be used for numerous processes simply by interchanging a module.

- Drying module
- Top Spray Granulation module
- FlexStream™
- PRECISION-GRANULATOR™ module
- PRECISION-COATER™ module

These modules are available in sizes ranging from the MP-1 lab unit up to full production scale equipment built in compliance with current GMP and safety standards. Only the highest quality materials are used to build the MULTI-PROCESSOR™ giving you a long lasting and reliable unit for your process work.

MP-1 Standard Features

- Self-contained control and air handling unit
- PLC control system with touch screen HMI
- ProcessView software
- Automatic recipe control function
- Data- capture equipment

- Peristaltic Pump
- Hinged Expansion Chamber
- Inlet and Exhaust HEPA filtration

Size		Lab Bowl	Development Bowl
Drying	kg	0.2 - 3	0.4 - 6 *
Top Spray Granulation	kg	0.2 - 2	1 - 4 *
FlexStream™	kg	N/A	1 - 5*
PRECISION-COATER™	kg	0.2 - 3	0.4 - 5 **

* Products with bulk density of 0.5gms/cm³

** Products with bulk density of 0.8gms/cm³

Options for Special Applications

The standard MP-1 is equipped to carry out the majority of every day processing. However, to meet special customer requirements a range of options is available.

- Dehumidification of inlet air
- Loss-in-weight scales
- Wash Lance
- PAT ports
- Selection of filter materials
- Secondary filtration for coating processes
- GPS Proces Manager
 - 21 CFR part 11 compliant data handling and recipe management

All process can be easily scaled-up to larger pilot or production-scale Fluid Bed Processor.

Alternative Containers:

- Lab-Scale Stainless Steel Product Container
- Lab-Scale Polycarbonate Product Container
- Development -Scale Polycarbonate Steel Product Container
- Precision Coating Modules
- Selection of air distributors
 - Standard hole plate and mesh
 - The GEA overlap gill plate
 - Precision Coater Fielder plate

Technical Data

Standard Development Product Container	Min. batch weight	400 g
--	-------------------	-------

	Max. batch weight	6.0 kg
Standard Lab-Scale Product Container	Min. batch weight	200 g
	Max. batch weight	3.0 kg
Peristaltic pump	Throughput rate	300 ml / min
Customer Supply	Europe	3 x 400 v
	USA	3 x 480 v
Electrical data	Europe	50 Hz
	USA	60 Hz
	Electrical power (max.)	18 kW
	Compressed air	6 barg
Weight (approx.)		850 kg
Dimensions (L x W x H)		1700 x 1000 x 2800 mm

NEWS



[\(/en/news/corporate/2019/stefan-klebert-ceo-assumes-post-ceo.jsp\)](/en/news/corporate/2019/stefan-klebert-ceo-assumes-post-ceo.jsp)

18 February, 2019

Stefan Klebert assumes the post of CEO of GEA today (</en/news/corporate/2019/stefan-klebert-ceo-assumes-post-ceo.jsp>)
Corporate press release

EVENTS



[\(http://www.ispe-casa.org/\)](http://www.ispe-casa.org/)

13 March, 2019

ISPE Casa (<http://www.ispe-casa.org/>)
Raleigh Convention Center, Raleigh, NC, Booth 334,
United States

TECHNOLOGYTALKS



[\(/en/technology-talks/accessible-vaccines.jsp\)](/en/technology-talks/accessible-vaccines.jsp)

Saving Lives with Affordable, Accessible Vaccines
[\(/en/technology-talks/accessible-vaccines.jsp\)](/en/technology-talks/accessible-vaccines.jsp)

Millions of babies, children and adults around the world receive vaccinations that protect us against devastating diseases such as diphtheria, measles, polio and whooping cough, which are caused by pathogenic bacteria and viruses.

PRODUCT NEWS



[\(/en/news/trade-press/2019/powtech-solutions-solid-liquids-various-industries.jsp\)](/en/news/trade-press/2019/powtech-solutions-solid-liquids-various-industries.jsp)

18 January, 2019

GEA shows innovative solutions at press preview at POWTECH 2019 in Nuremberg, Germany (</en/news/trade-press/2019/powtech-solutions-solid-liquids-various-industries.jsp>)

[\(/en/news/field-study-results-vegetation-homogenization\)](/en/news/field-study-results-vegetation-homogenization)

18 January, 2019

New era Field study results vegetation homogenization
[\(/en/news/field-study-results-vegetation-homogenization\)](/en/news/field-study-results-vegetation-homogenization)



GEA is one of the largest technology suppliers for food processing and a wide range of other industries. The global group focuses on technologies, components and sustainable solutions for sophisticated production processes in diverse end-user markets.

In 2017, GEA generated consolidated revenues of about EUR 4.6 billion. The food and beverages sector, which is a long-term growth industry, accounted for around 70 percent.

[Contact us \(/en/contact/index.jsp?p=tcm:11-48002-64\)](/en/contact/index.jsp?p=tcm:11-48002-64)

Jobs

479

Available jobs worldwide. Find your next job in the GEA family.

[Search jobs \(/en/careers/apply-now/jobs/index.jsp\)](/en/careers/apply-now/jobs/index.jsp)

Share price

21.67

+2.85% at 03/01/2019 , 14:49

[Investor Relations \(/en/investor-relations/index.jsp\)](/en/investor-relations/index.jsp)

Follow us on



<http://www.youtube.com/user/TheGEAGroup>



<https://www.linkedin.com/company/geagroup>



Quick Links



[Imprint & Terms of Use \(/en/info/legal/terms-of-use/index.jsp\)](/en/info/legal/terms-of-use/index.jsp)

[Privacy policy \(/en/info/legal/privacy-policy/index.jsp\)](/en/info/legal/privacy-policy/index.jsp)

[Cookie policy \(/en/info/legal/cookie-policy/index.jsp\)](/en/info/legal/cookie-policy/index.jsp)

[Sitemap \(/en/sitemap/index.jsp\)](#)

© GEA Group Aktiengesellschaft 2019