

Bruchköbel

Hessen



# A. Ebbecke Verfahrenstechnik AG

Year founded: 2002, Employees: 140



Our plant in Schöneck

Under the name A. Ebbecke Verfahrenstechnik AG, we are the leading powder specialist in Europe, also named in Prof. Köhler's book as a Hidden Champion of Germany in this field.

Ebbecke Process Engineering offers one of the largest portfolios of equipment with approximately 300 equipment applications from a wide range of areas, including micronisation, cryogenic processes, granulation, screening, ultrasonic screening, drying, pastillation, mixing/coatings, and more.

We have a Powder Process Innovation Hub in Bruchköbel near Frankfurt am Main, where we have concentrated all our research and development activities for the various processes, some of which are patented world-wide. In the field of aerospace, we have carried out a wide variety of projects, some of which cannot be disclosed publicly.

We are currently the only company in the world that micronises the new powders for the innovative turbine generation, thus enabling high stability and low expansion behaviour in the more compact and therefore more efficient engine generations.

Furthermore, we have already produced various speciality powders in different areas and work at A. Ebbecke Verfahrenstechnik AG purely as a neutral specialist and contract manufacturer operating behind the scenes.

Our proprietary products, which are based entirely on natural ingredients, have been developed specifically for the military, first response, fitness, health and animal nutrition/animal health sectors. We are the only company in the world to focus specifically on maintaining the health of military personnel.

We thus contribute to greater availability, fitness and health among those involved. The same applies to the aerospace sector, where we are in intensive discussions with NASA regarding longer space missions, where similar requirements exist.

## QUESTIONS AND ANSWERS

1. What are your expectations for the ESA Ministerial Council Meeting in 2025?
2. Should space travel also benefit from the new federal government's special fund?
3. Do you have any spin-offs or dual-use projects?
4. Who are your current national and international cooperation partners?

**To 1:** We expect the ESA Ministerial Council Conference in 2025 to bring about decisions that will lead to complete independence and capacity to act in the field of space and defense..





Ebbecke cleanroom concept, showing a pharmaceutical mixer (known as an API mixer).

The focus here should be on the fact that, regardless of other international players, the goal should be to establish an independent space industry that is not dependent on others. A system comparable to Space-X must be implemented urgently and in the short term in order to make high-speed internet

and related applications available in Europe and thus prevent any shutdown or impairment by foreign players. Here, we expect in particular to move from merely discussing goals and considerations to actual action, thereby initiating projects, defining standards, and implementing them

in a short period of time at an unprecedented speed.

In this context, it is particularly important to strengthen the private aerospace industry in Europe with public contracts. Without public support, the aerospace industry cannot survive in an international context due to low economies of scale. In addition, larger contracts from government actors in the European Community are urgently needed to ensure planning security, research security and delivery capability.



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Ebbecke Spiral Jet Mill (ESM 500): Fine micronization of products in accordance with technical and hygienic standards.

**To 2:** Germany's innovative medium-sized aerospace industry should benefit greatly from the new financial package. However, it should be borne in mind that we need continuous support on a strategic scale that goes beyond the currently defined €500 billion, both in terms of financial volume and time frame. Available funds should be used urgently not only to promote an independent aerospace industry, but also to implement it in concrete terms so that emerging technologies and the



associated services and products can be made available independently of international partners. This would not only be an important part of defense capability in the European context, but also of technological leadership in the global economic environment. Both must be considered in close connection with each other, but this is often overlooked and thus massively neglected.

**To 3:** Our spin-off company, Ebbecke Solutions Europe GmbH, offers an extensive portfolio of special products based on process technologies developed by us and protected by international patents, which can be used for both civilian and dual-use military applications.

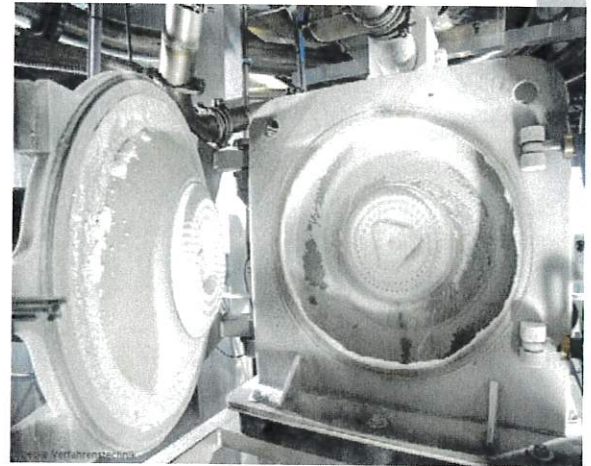
In particular, we assume that the Ebbecke Organic process, which is unique worldwide, can incidence of cancer, diabetes, dementia and internal infectious diseases by up to 50%. We have identified and presented the resulting savings to the US military, with an annual savings potential of 16 billion US dollars. In the military sector, we offer unique self-treatment sprays that are not alcohol-based and therefore do not sting the skin, stop bleeding and allow healing processes to begin. For special forces operations, we offer special combat nutrition and combat electrolytes, as well as combat detox products. Switching the entire military and civilian diet to Ebbecke Organik raw material products massively increases the fitness and availability of special personnel.

Combat boosters, also available in the civilian sector as fitness boosters, provide a decisive advantage in the field by increasing responsiveness, analytical skills, fitness and alertness.

The unique new generation of breathing masks ensures full protection while maintaining full communication capabilities when used in first response and military applications. This is a completely new innovation that offers entirely new advantages in the design of life safety devices. It can convert carbon monoxide into carbon dioxide, thereby ensuring survival for a certain period of time in fires in houses, aeroplanes and even ships.

**To 4:** The national and international cooperation partners are

companies in the fields of aviation, aerospace, automotive, first response and defence. These include cooperation partners such as Lockheed, Boeing, Airbus, Rheinmetall, BASF, US Chief of Command, Hellenic Defence, and others.



Interior view of E-Power 2. Photos: Ebbecke Verfahrenstechnik.



Cryogenic grinding plant; cold grinding of plastics and other elastic materials as well as temperature-sensitive

## CONTACT INFORMATION

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## SOCIAL MEDIA

<https://youtube.com/EbbeckeVerfahrenstechnik>  
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Photo: Tobias Koch

**Pascal Reddig, MdB (CDU/CSU)**  
Voting district 179: Hanau

*Germany is one of the world's leading locations for aerospace. I am particularly proud that innovative companies such as A. Ebbecke Verfahrenstechnik AG are based in my constituency. With state-of-the-art process technologies, a high level of expertise and close cooperation with science and industry, Ebbecke contributes significantly to the technological development of our region.*

*Such companies strengthen the economy, create high-quality jobs and are drivers of progress and innovation – far beyond the borders of our constituency. Their commitment deserves the highest recognition, because high-tech from our home region is an important success factor for Germany's future.*