


A woman with long brown hair, wearing a red plaid shirt over a white top, is looking down at a large blue and white graphic on a table. The background shows a factory setting with rolls of paper and a machine labeled 'Easy App 132'. The image is overlaid with a semi-transparent white box containing text. The overall color palette is dominated by red, blue, and white, with a pinkish-red circular overlay in the upper right.

Solutions for  
inkjet ink.  
**Innovative  
technology for  
highest demands.**



Customization of consumer goods packages is getting increasingly popular and current trends are changing faster than ever. Additionally, labeling requirements are becoming more stringent. This calls for a flexible and quick printing method – inkjet printing meets these needs and is therefore a thriving technology.

# Global technology partner for inkjet inks. **Innovative solutions for an efficient process.**

“We at Bühler are committed to deliver the best equipment for the production of high-quality inkjet inks.”

Cornel Mandler | Head of Business Area Grinding & Dispersion, Bühler Group



Fast, flexible and high-quality: Due to the trend of switching from analog to digital printing and a growing range of application, the demand for inkjet inks steadily increases. Bühler has a vast grinding and dispersing knowledge and adequate equipment to support you in producing the best digital inks – with maximum productivity.

## **A flourishing industry**

Inkjet nowadays reaches the quality of offset printing and it is constantly getting faster as well. Therefore, the disadvantages against analog printing are disappearing, leading to a continuous shift towards digital printing. The greater flexibility of inkjet ink matches the consumer trends of a higher level of personalization and rapid changes. This opens up new possibilities in various applications, such as printed photo books or customized pet food.

These changes result in a stronger demand of inkjet inks, which are key for high-quality digital printing as well as rising quality standards. Inkjet ink producers look for ways to produce high volumes as flexible as possible with top quality at low cost. Digital printing is much more ecological than analog printing, especially in terms of waste generation or water and energy consumption.

## **We are your trusted partner**

Our representation in more than 140 countries in combination with our vast service network allows us to support you in all investment phases. From the planning to the commissioning and during the whole life cycle of your equipment we provide a professional service ensuring maximum productivity and quality. Being active in the inkjet ink industry since the early days of technology development, we can offer a wealth of expertise and know the demands of the industry by heart. We are proud to have been working together with representative inkjet ink suppliers for many years.

## **Typical applications of inkjet inks:**

- Wide format and textiles
- Packaging, labeling, coding, signage
- Printed electronics, ceramic tiles, laminates
- Paper, photo books

# Bühler's process solution for inkjet inks. **Best equipment for maximum efficiency.**



## **Pre-grinding using MacroMedia™**

The combination of a high-performance pump and a small-volume grinding unit makes the MacroMedia™ unique on the market.

- Product throughput rate: Up to 15,000 l/h
- Size of grinding media: 3–5 mm

### **Benefits of the MacroMedia™**

- Improved process control
- Reduced downtimes, greater process reliability
- Increased plant capacity when upsizing



**A truly unbeatable duo:** The combination of the MacroMedia™ pre-dispersing unit and the MicroMedia+™ bead mill offers the ideal process solution. Thanks to improved process control in the pre-grinding stage fluctuating raw material qualities can be balanced out, thereby achieving uniform properties for the intermediate products. This allows an optimization of the fine grinding process with the Bühler MicroMedia+™ bead mill. The result: higher profits and perfect quality in the shortest possible time.



## Fine grinding using MicroMedia+™

The MicroMedia+™ bead mill allows an extremely wide parameter range regarding power density, flow rate and bead sizes.

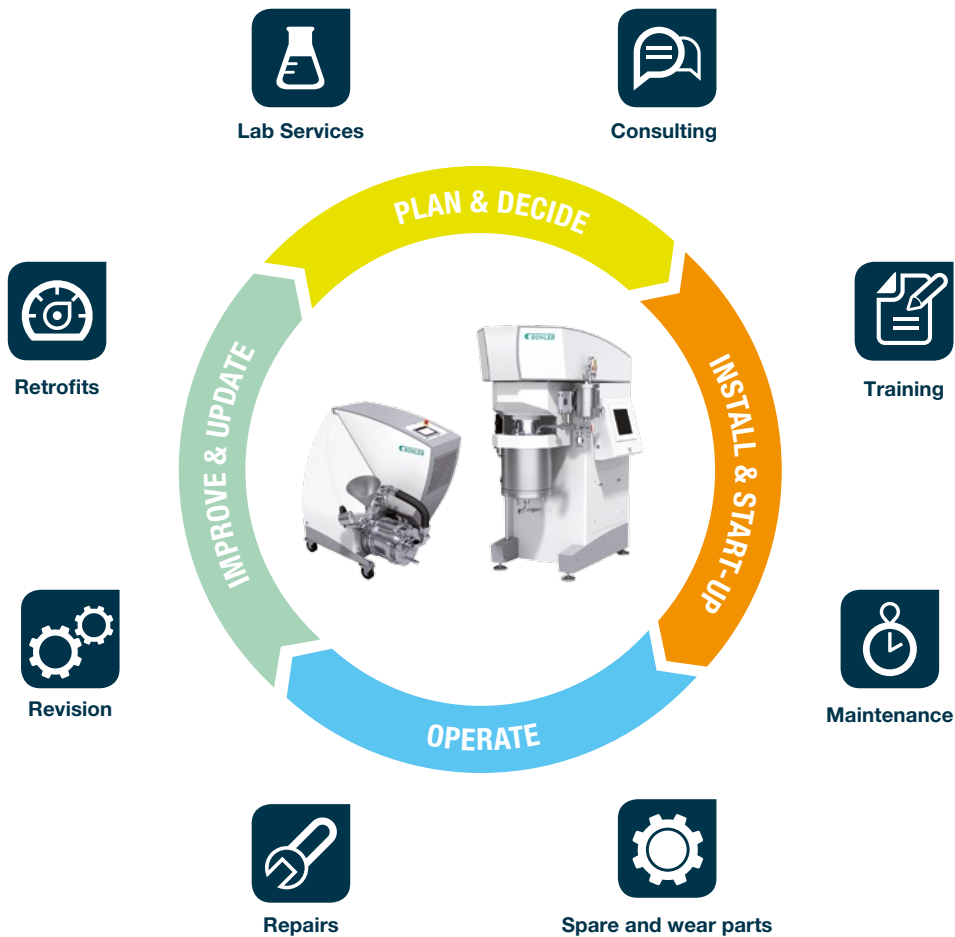
- Product throughput rate: 400–8,000 l/h  
(depending on size of bead mill)
- Size of grinding media: 20–800 µm

### Benefits of the MicroMedia+™

- Cutting-edge technology for better product quality
- Maximum energy efficiency due to smaller beads and highest power density
- Wide range of process chamber materials

# Bühler services.

## Competent, reliable and customized.



### Lab services

Bühler test centers with pilot facilities offer you highest standards and state-of-the-art technologies. Our experts carry out performance tests to determine the correct machine size and operating parameters for your production. In order to achieve representative results, we run trials with your own raw materials.



### Consulting

Act today to ensure a successful tomorrow: Our consulting services provide you a decisive competitive edge for the future. Our expert consultants will work together with you to define your requirements, analyze your existing processes, offer you in-depth advice and implement the optimum solution for sustainable success.



### Training

Take advantage of the full potential of your plant by having your operators and maintenance crews well-trained. We offer an extensive range of training and continuing education opportunities, either locally at your own site or at our worldwide training centers.



## 24/7 worldwide.

Whenever you need support we will be on site quickly: We maintain our own service locations worldwide and are widely represented on every continent.

Our technicians procure spare parts without delay and install them professionally, while specialized Bühler workshops carry out extensive repair work and retrofits.



### Spare and wear parts

We can deliver Bühler original parts, including mechanical, electrical and electronic components, anywhere in the world and within a very short time – guaranteed by our well-maintained stock of spare parts, our comprehensive distribution network and our expert customer service operators.



### Repairs

Our skilled experts around the world stand ready to help in the event of a machine breakdown. Our closely-knit network of service stations ensures that a specialized technician rectifies your problem as quickly as possible.



### Revision

Recreate the productivity and quality of your machine as on its very first day of operation. We offer a range of revision packages, ranging from basic service to full overhauling – tailored to your specific needs, of course.



### Retrofits

Upgrade your equipment with Bühler retrofits to the latest technology standards. Proven, reliable and affordable, they represent an investment in your future with a guaranteed return.



### Maintenance

Even the most robust and reliable equipment needs regular maintenance. We offer proven maintenance service, customized to your needs. After comprehensive consultation and analysis we specify the exact range of services required and develop an individualized service contract that fits your operational requirements.



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