



**Biomass**  
Service Solutions.

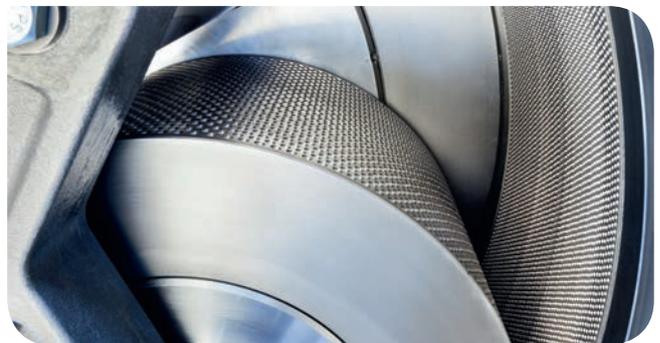
# Bühler performance. From services to equipment.

With decades of experience in the field of wood pelleting, Bühler offers a wide array of products, ranging from sturdy process equipment to enduring wear and spare parts and related services you can rely on.



## Equipment.

Sturdy wood pelleting equipment, ranging from pellet mills to horizontal and vertical hammer mills, sieves, coolers and auxiliary machines.



## Rolls & dies.

Longstanding experience in the design, manufacture and reconditioning of durable and precise dies & rollers - for all pellet mill models.



## Spare & wear parts.

We offer a wide portfolio of durable spare and wear parts like beaters & sieves for all makes and models.



## Services.

From servicing & maintenance to analysis & consulting, our global service expertise is here to serve you locally.

# Precision at its best. **Dies and rollers for pellet mills.**



**Bühler is a proven specialist in the manufacture of high-precision and durable dies and rollers. Our wide range includes not only products for our own pellet mills, but also for the pellet mill models of other manufacturers.**

## **Fast commissioning and short delivery times.**

Bühler dies and rollers are characterised by easy installation and commissioning. Thus, our customers benefit in the shortest time possible from the product advantages. Thanks to flexible production and a comprehensive inventory of high-quality forged blanks, our dies and rollers are available worldwide with shortest delivery times.

## **Higher throughput rates and longer service life.**

Thanks to their outstanding quality, Bühler dies and rollers enable higher throughput rates and ensure a longer service life than comparable products - for improved cost efficiency.

### **The advantages at a glance:**

- Up to 5% energy reduction thanks to Bühler specific parallel hole pattern
- 10x faster commissioning thanks to running in of dies
- Worldwide stock capacity for reduced delivery time
- Dies and roller shells for all brands

# Top quality for all brands. **For longer service life and more profit.**

Bühler rollers and dies are manufactured according to need for all pellet mills models. Customer-specific advice from experienced pelletisation experts, the comprehensive inventory of high-quality blanks, leading machining technologies for sprues and counterbores and a sophisticated quality assurance system enable us to provide customised solutions.

## **A high-precision manufacturing process.**

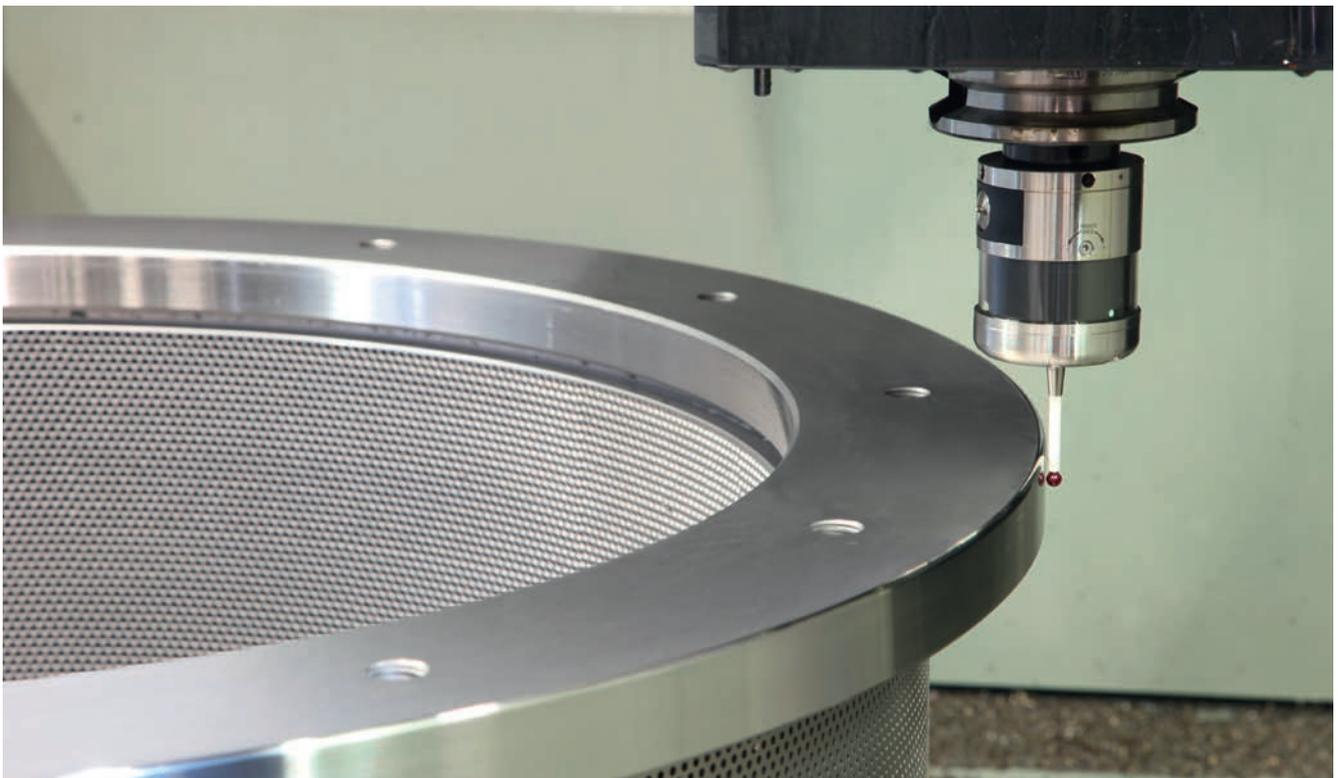
The production of each die begins with a forged, specially rolled ring, which is carefully checked for possible flaws. Computer-controlled deep drilling machines produce sprues with a very smooth surface, so that complex post-processing is unnecessary. Each sprue is just the right size, so that all holes are worn evenly.

The hardening and tempering process is crucial for a uniform die quality. Bühler uses state-of-the-art vacuum oven technology for die hardening. The heat treatment takes place

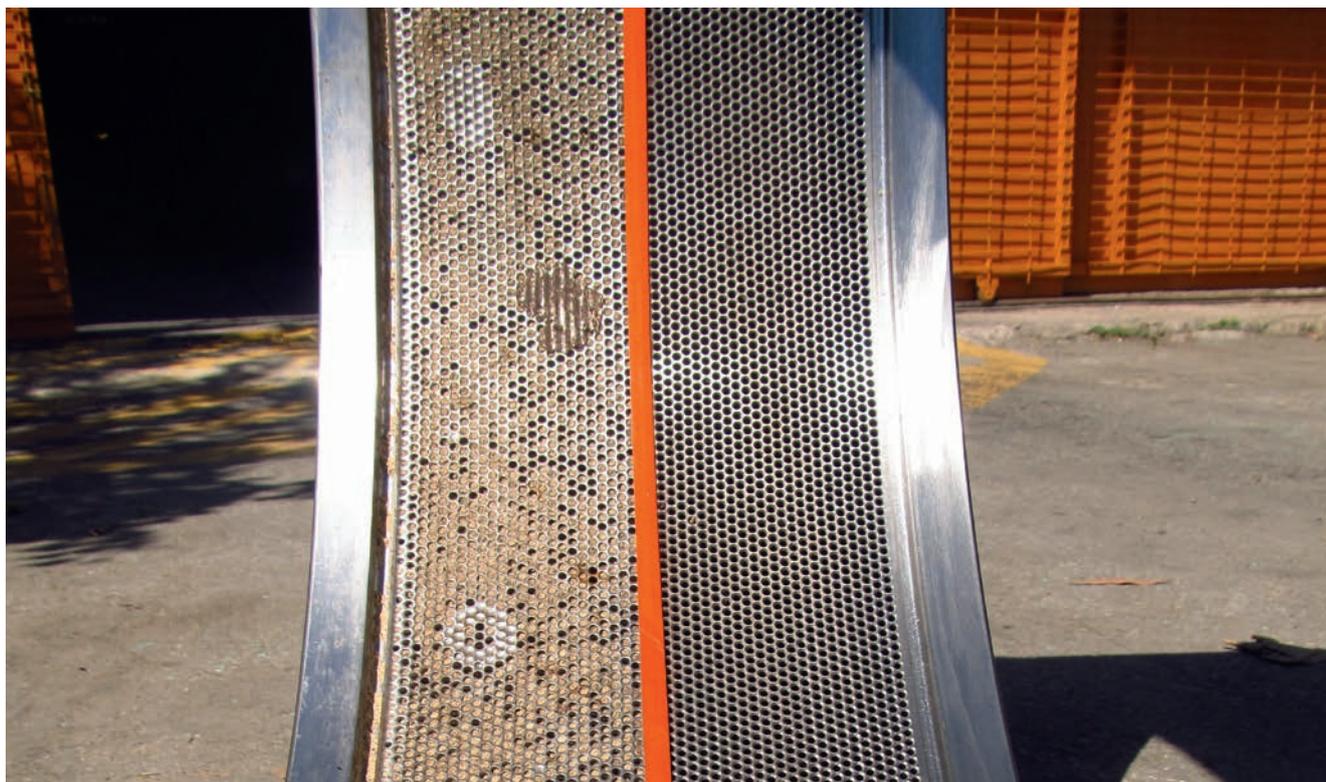
in a separate building, ensuring a clean atmosphere and an even hardening process.

## **Sophisticated logistics. For short delivery times.**

Before products are delivered to customers, the hardness and dimensions are checked meticulously. In addition, all the measurement data is recorded for traceability. This ensures that only flawless products leave the factory to be sent to all corners of the world. Thanks to a large raw material warehouse and efficient production facilities, we can guarantee our customers short delivery times worldwide.



## Die & roller shell refurbishment. **Extended lifetime and lower costs.**



As the service life of pelleting dies proceeds, their performance declines. Plugged or shut holes, irregular wear or damaged die sections degrade the pellet quality and reduce production capacity. Selective die service extends the lifetime of your dies and cuts your operational costs.

### **Don't let good dies go to waste**

Fairly often, pelleting dies are disposed long before their potential end of service life. Bühler's reconditioning solutions increase the lifecycle of dies and roller shells. Dies that are worn down, show irregular wear or are plugged – from any pellet mill manufacturer and different industries – are refurbished in a Bühler Service Center and restored to a condition that is as good as new. This potentially doubles service life and cuts costs considerably.

### **A sophisticated process with short delivery times.**

In an initial step, the dies undergo thorough cleaning, and all plugged holes are reopened. Then the die surface is ground and the holes are freshly countersunk. A final grinding operation restores the original appearance and performance of the die.

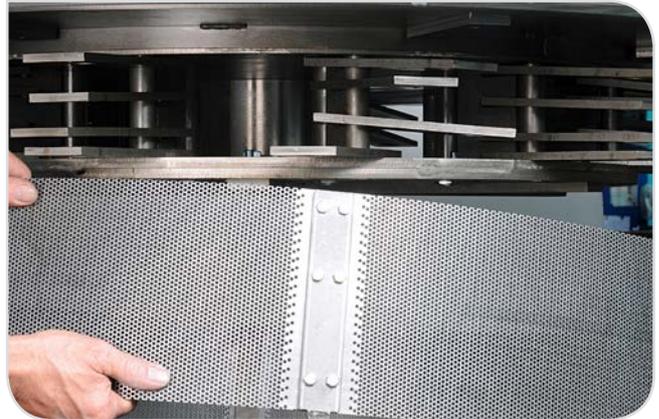
As an additional benefit, a refurbishment can be performed within days in one of our Bühler Service Centers near you, avoiding longer lead times for new dies.

## Sieves & beaters for hammer mills. **Special treatments for extended service life.**

### **New hammer mill beaters and sieves with longer lifetime.**

The newly developed specially hardened beaters and sieves have emerged from an innovative manufacturing process involving a special heat treatment that leads to an optimized hardness grade. This reduces wear and extends service life by up to 100% for beaters and up to 400% for sieves compared to conventional parts available on the market.

The beaters and sieves are available for a wide array of makes and models and are available worldwide.



## Sturdy & reliable process equipment. **Proven quality for demanding applications.**

Our sturdy process equipment for wood and biomass applications is proven to withstand the harsh industry conditions. From powerful pellet mills, to horizontal or vertical hammer mills and associated handling equipment, we deliver a wide range of solutions to suit your specific pelleting process.



Pellet mills



Hammer mills



Countercurrent coolers



Sieves

# Global expertise. Local presence. **A lifetime of customer service.**

Bühler customer service provides assistance not only to keep your machines, plants and facilities running at a high operational level, but also to prolong lifetime, thus maximizing return on investment.



## **Bühler services at a glance:**

- Die & roller shell refurbishment from local service stations
- Fast access to help in your language and time zone
- Help from competent service specialists throughout the entire product service life - from installation to commissioning and maintenance
- Genuine Bühler spare parts
- Preventive maintenance concepts, analysis and consulting
- Standardized and customized training and continuing education courses

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