



**FEED & BIOFUEL**

# **WEAR PARTS**



**ANDRITZ**

**ENGINEERED SUCCESS**

# Your Strategic Partner in Wear Parts Solutions

We offer customizable wear parts not just individually but as part of comprehensive solutions, ensuring our customers always have the necessary parts on hand, preventing any disruptions in their operations.



## For Animal Feed, Aqua Feed & Pet Food, Biofuel, Waste and other industries

We secure your operations and increase your profitability by customizing our solutions to meet your unique challenges and requirements.



## Deep Process Knowledge and Machine Expertise

Decades of our extensive expertise in machine creation and deep process knowledge make us the top choice for wear and spare parts for both ANDRITZ machines and other brands.



## Keeping You Ahead in the Digital Age

With our METRIS platform, we offer state-of-the-art predictive maintenance using IoT and advanced analytics to enhance equipment reliability and efficiency.



## Global Presence with Local Support

We ensure our presence wherever our customers are, providing personalized and timely tailored support with worldwide delivery.



# Wear Parts Customization at Its Best

UNLOCK THE FULL POTENTIAL OF YOUR MACHINERY  
WITH OUR WIDE RANGE OF CUSTOMIZABLE WEAR PARTS.

Choose from more than

**48.800\***

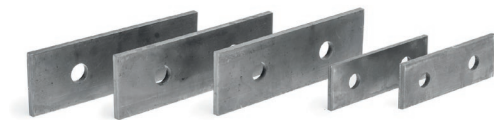
unique designs



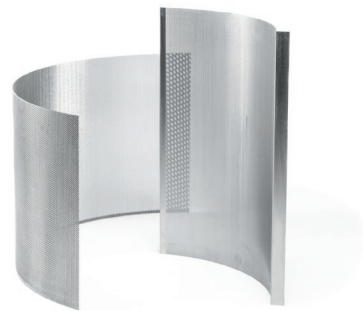
More than **5.700**  
types of **Roller Shells**



More than **40.800**  
types of **Dies**



More than **1.200**  
types of **Hammers**



More than **1.100**  
types of **Screens**

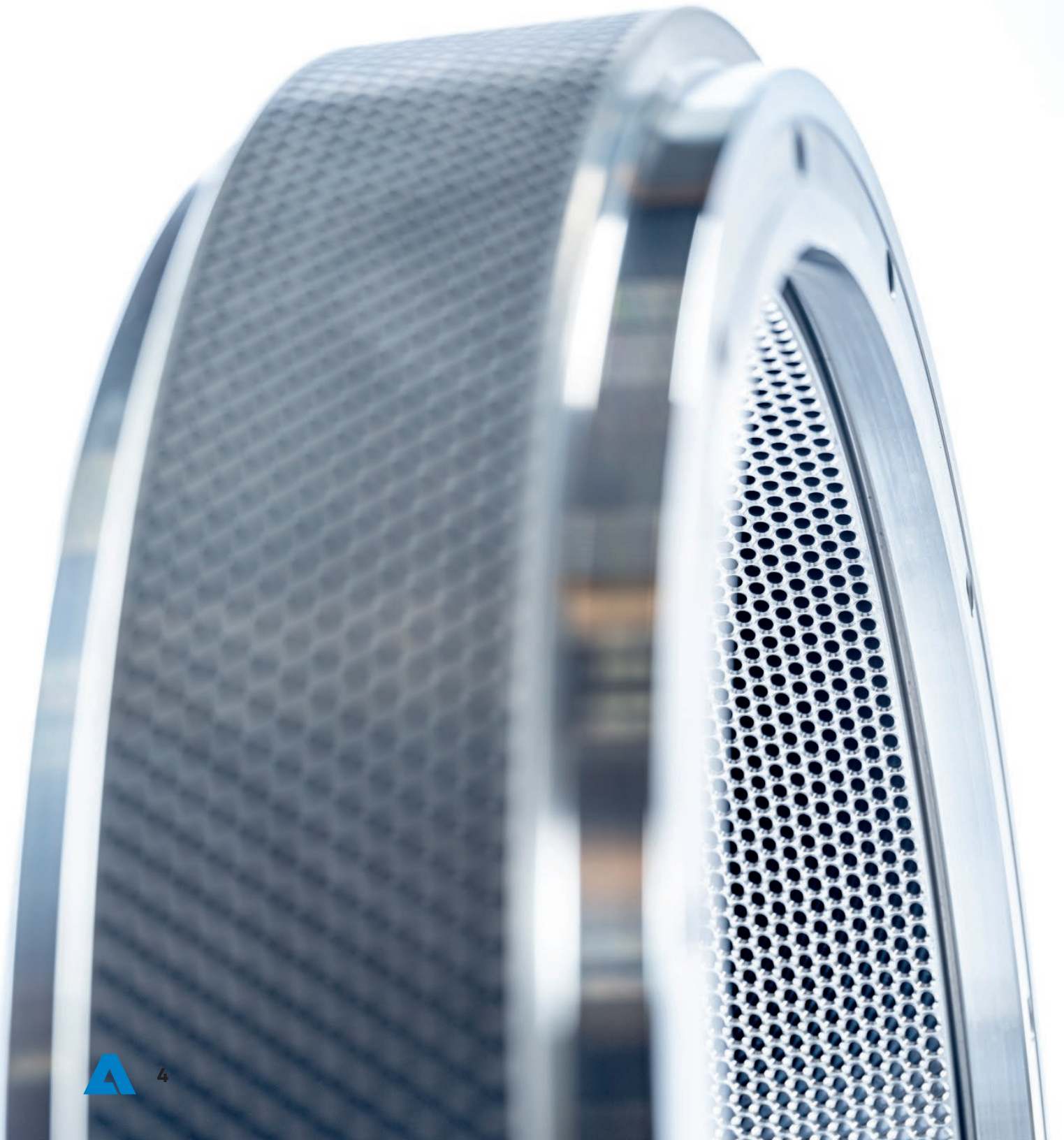
## Can't Find What You Need?

Don't hesitate to contact us or any ANDRITZ agent across the globe. We're here to collaborate with you to custom-design parts that perfectly meet your specific requirements.

\* - Data as of August 2024

# DIES

Tailored for each application, pellet mill brand, and model to perfectly meet the unique requirements of diverse operating environments.



# 100 Years of Excellence in Every Die

Our century-long heritage in die manufacturing combines deep expertise with a commitment to excellence. Our dies are designed to maximize every minute of your pellet production, making it efficient, smooth, and trouble-free.

**15.000+**  
**DIES**

produced  
annually

**MORE THAN  
14% OF DIE  
PRODUCTION**

around the world  
is covered  
by ANDRITZ

**3.000+**  
**customers**

benefiting from  
our products and  
service

**OPERATING  
IN 114  
COUNTRIES**

Our logistics  
infrastructure ensures  
prompt and hassle-  
free distribution

## GLOBAL REACH, LOCAL EXPERTISE

We're everywhere you need us to be. With ANDRITZ offices around the world, help is always close by, ensuring fast and dependable service.

Our global knowledge helps us tailor local solutions, making us a front-runner in innovation and customer satisfaction.

# Ensuring The Promise of ANDRITZ Quality



**ANDRITZ is one of a few die manufacturers that produces its own forgings.**

This enables us to have complete control over the quality of our dies from raw material to finished product.



**We carefully monitor every step of the manufacturing process with quality checks.**

This includes thorough visual inspections and exact measurements to make sure each die meets our high standards.

## CERTIFIED EXCELLENCE

With several certifications, our die manufacturing processes meet the highest international standards for quality management, and health and safety.



Quality Management and Health and Safety Management according to the international state of the art, complying with the requirements of the standard ISO 9001:2015 and ISO 45001- 2018



I-REC Certificates, representing 21 246.000000 MWh of electricity generated from renewable sources



ANDRITZ has established and applies an Environmental Management System, Occupational Health and Safety Management System

# Technological Excellence with State-of-the-Art Manufacturing

Our die production benefits from advanced technology with facilities across continents. Each unit is a hub of innovation, featuring state-of-the-art technology that ensures the highest quality of dies.

From Geldrop in The Netherlands to Foshan in China our strategic locations support efficient distribution and quick response times.

## INTELLIGENT MANUFACTURING FOR FUTURE NEEDS

We embrace the future with a digital and lean manufacturing approach that incorporates QR and BAR codes for traceability, digital twins for streamlined order processing, and real-time analytics to maximize efficiency.

Our automated scheduling systems ensure that your dies are produced with precision, on time, and with minimal environmental impact.

A new facility  
opening in  
Windsor, Canada,  
in 2025

## OPTIMIZED PRODUCTION FOR YOUR SUCCESS

**High Durability:** Advanced manufacturing for longer-lasting dies

**Quick Turnaround:** Efficient distribution for faster delivery

**Cost Efficiency:** Optimized production for competitive pricing





## Over 80% of the energy used in the production of dies is generated from solar and wind power sources

Our green practices ensure that every die we produce adheres to the highest standards of sustainability, empowering our customers across the globe to achieve their production goals with minimal ecological footprint.



**650 + TONS OF WASTE SCRAP STEEL**  
are fully recycled and reused per year



**0.4 LITERS OF WASTE OIL**  
is recycled per die



**9.1 KILOTONS OF WATER PER YEAR**  
are saved by integrating the Sponge City solution

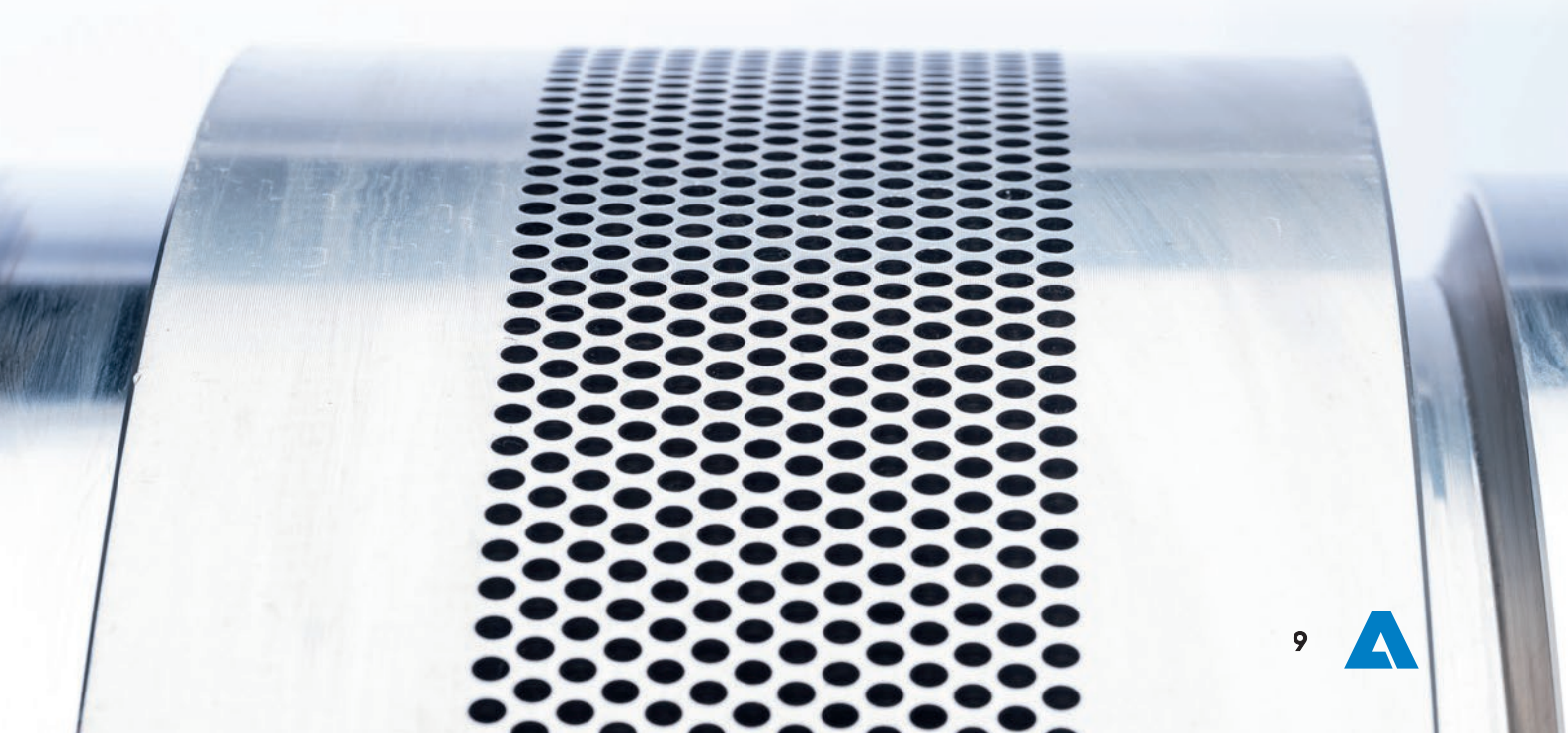
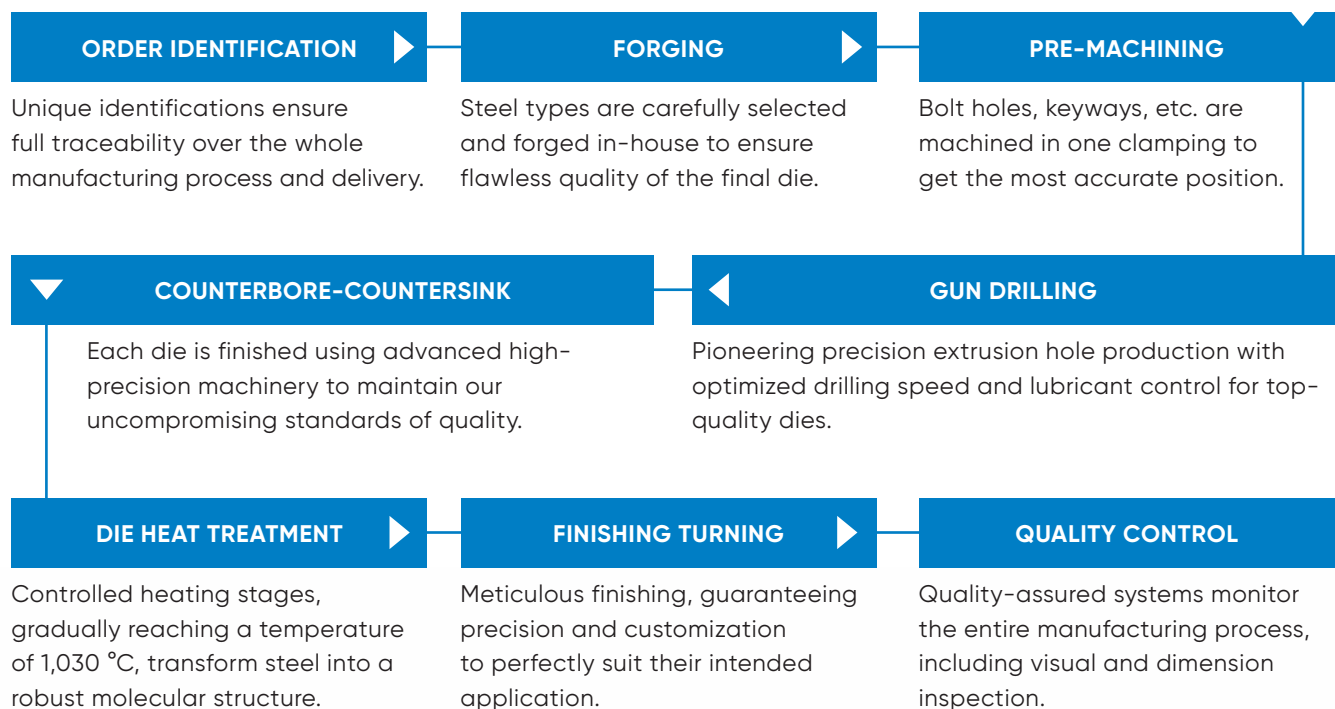


**ENVIRONMENTALLY FRIENDLY  
PACKAGING MATERIALS**



# 100% Quality Control and Traceability During the Manufacturing Process

High-tech manufacturing processes ensure quality control from raw materials to the finished product, resulting in utmost consistency that matches our high-quality standards.



**Every die undergoes  
a process involving  
up to 40,000  
separate operations,  
ensuring attention to detail and  
uncompromising quality at every stage**



# Tailor-Made for Your Needs For ANDRITZ Pellet Mills and Other Brands

Our ability to adapt dies to specific industrial needs and different brands guarantees that each customer receives a product optimized for their specific requirements and production goals.

## VARIETY OF CHROME STEEL ALLOYS

We can select a material that suits every individual requirement for a wide range of operating environments.

## EASY REPEAT ORDERING

Every design parameter is automatically captured in our system, making sure that a repeat order results in exactly the same die as the one you ordered before.

## FOR ALL SEGMENTS

- Animal Feed
- Aqua Feed
- Pet Food
- Biofuel
- Waste
- Sugar Beet
- Fertilizer
- Other



# Introducing the Diamond Die. Toughness Redefined.

Extreme wear and corrosion resistant die,  
ideal for processing abrasive and tough application.

WASTE

SUGAR BEET

BIOMASS

OTHER HIGH-ABRASIVE RAW MATERIALS

Inspired by the toughest mineral on Earth, the Diamond Die is built to resist wear and corrosion like no other. It's designed to handle harsh materials, significantly increasing the lifespan of machinery and boosting productivity in demanding environments.



Previous testing showed an extension  
in the die's lifetime of  
**up to 50-100%**  
compared to a standard die



Superior wear and  
chemical corrosion  
resistance



Suitable for  
the toughest  
applications



Proprietary  
manufacturing  
process



\*- Note: This picture is for illustrative purposes and does not represent the actual surface of the die.



# Unlock a Tailored Die Experience

## OPTIMIZED WITH PRECISION

Our performance optimization services are designed to fine-tune specifications to your precise operational requirements. This service helps reduce pellet press energy consumption and ensures your dies are as efficient and effective as possible.

Reach out to our representatives to calculate biomass feedstock-specific die designs.

## YOUR GAINS

- ✓ Expedite die specification with fewer design iterations
- ✓ Get energy-efficient dies for reduced pellet press energy consumption

Did you know



We utilize comprehensive data on your pellet press performance, feedstock characteristics, and pellet properties to customize die specifications according to your business requirements.



# Plan Ahead with ANDRITZ

## OUR TAILORED STOCK LEVELS ARE ALWAYS READY TO MEET YOUR DEMANDS

### STRATEGIC SERVICE PLANNING FOR YOUR NEEDS

We help you plan effectively for your die needs to ensure you have the right stock at the right time. Our strategic planning reduces logistical complexities, helping you avoid overstocking and shortages while ensuring you can respond quickly to market demands.

### Proactive stock solutions for maximized efficiency:

- ✓ Request specific quantities based on your production schedules
- ✓ Prevent overstocking or shortages
- ✓ Reduce shipping and handling complexities
- ✓ Access dies quickly when needed

Delivery can start the next day (depending on the location)

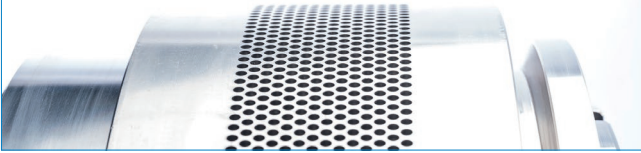


# Deep Process Knowledge and Machine Expertise

Our extensive expertise in machine creation and deep process knowledge make us the top choice for wear and spare parts for both ANDRITZ machines and other brands

## Full Customization

A die design tailored to the customer's industry, pellet mill brand, production goals, and desired pellet characteristics.



## Global Expertise, Local Presence

With a presence in 114 countries, we combine global industry knowledge with local service to ensure our customers always have support wherever they are.



## Personalized Service

Whether you need advice, troubleshooting, or customization, we are available for a call or assistance to guarantee your satisfaction.



## Die Performance Optimization

Designed to fine-tune specifications to your precise operational requirements, this solution helps reduce pellet press energy consumption and ensures your dies are as efficient and effective as possible.



# ROLLER SHELLS

Extensive selection of roller shells, featuring diverse corrugated and dimple designs tailored for a wide range of applications





# Built to Your Dimensional Specifications

## Suitable for all industries

- Animal Feed
- Aqua Feed
- Pet Food
- Sugar Beet
- Fertilizers
- Waste
- Biomass

## Roll Repair Services

We can replace worn shells while retaining and reusing the original bearings in a new roller shell.



## Material Variants and Customizable Dimensions

### Case-Hardened Shells

Range from 60 to 64 HRC for standard applications.

### Through-Hardened Shells

Featuring a hardness level of 56 to 60 HRC for more demanding operations.

## Corrugated Implementations

### Open and Fluted

Ideal for high-fiber feed production, these shells provide excellent grip. However, they tend to wear unevenly.

### Closed and Fluted

Best suited for high-fat content products such as fish feed, these shells experience less wear on the edges.

### Diagonal Fluted

Often combined with coarse corrugation, these shells are typically used for processing waste. The diagonal flutings reduce vibrations compared to straight-fluted shells.

### Fish Bone Corrugation

Commonly used in wood pelleting, these shells are often paired with straight-fluted shells for optimal performance.

### Saw-Tooth

Used with dies having relatively small holes.

## Dimple Implementations

### Countersink Dimple

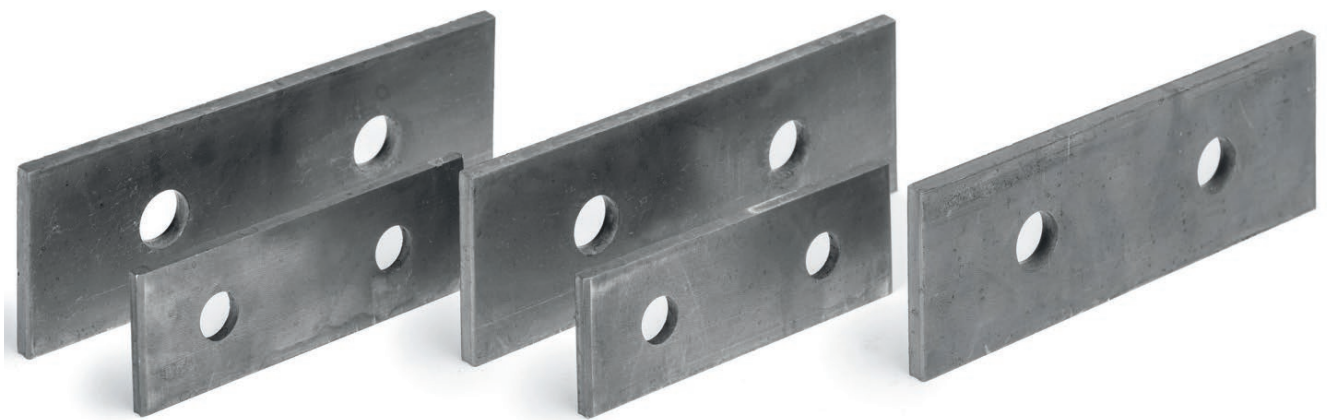
Used in general feed production, these shells have a high surface area of hardened steel, reducing the chance of slippage compared to straight-hole dimples.

### Straight Hole Dimple

Frequently used in wood pelleting, these shells allow for deeper wear due to the depth of the holes.

# HAMMERS

Our hammers come in various dimensions to match specific production needs



# Optimal Durability and Robustness

## PRODUCED OUT OF HIGH-QUALITY CASE-HARDENED STEEL

This material selection ensures optimal durability and robustness, making our hammers suitable for the intense and abrasive conditions typical in hammer mill applications.

## PORTFOLIO OF MORE THAN 1200 DIFFERENT TYPES

We offer a variety of forms and dimensions and provide the option for customers to request customized hammers to meet the specific needs of your milling operations.



## DIAMOND HAMMERS

Special hammers where wear-resistant cladding is applied specifically on the impact zones. This construction significantly enhances the durability and lifespan of the hammers.



Designed to last longer, even under intense use



Facilitate continuous and effective clearing of the mill screen



Deliver uniform grind quality throughout the lifespan



# SCREENS

With the right screens in place, operators can ensure their pellet output meets the desired standards for size, structural integrity and appearance



# Perfect Compatibility with Different Hammer Mill Models



**Not only do our materials follow high standards, but we also ensure high precise finish of the hole pattern,** allowing a homogeneous screening result throughout the entire lifetime.

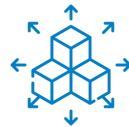


**To suit specific milling requirements, screens can be tailor-made in various shapes, sizes, and thicknesses.**

This customization ensures optimal compatibility with different hammer mill models and enhances the efficiency of the milling process.

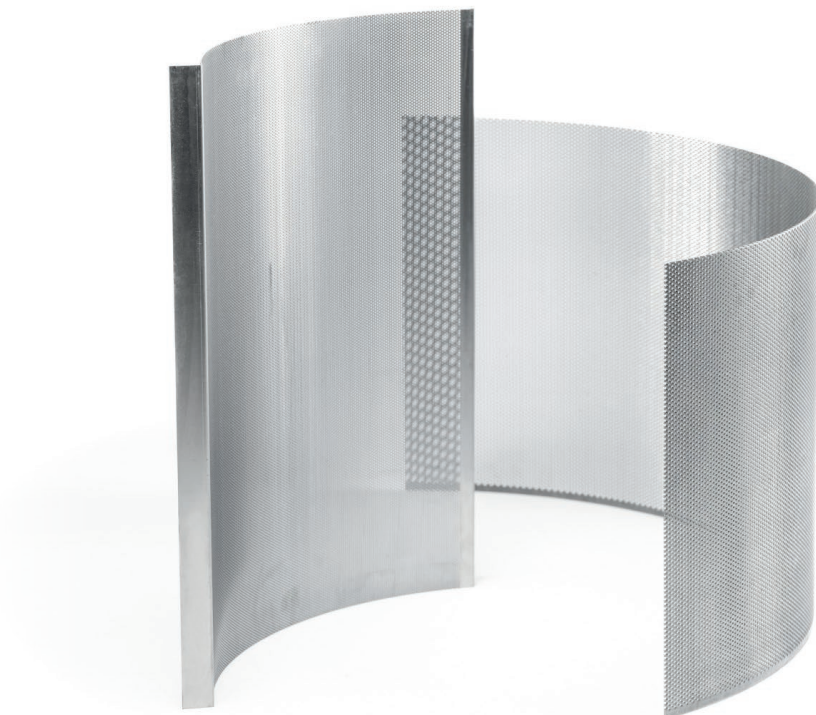


**Made from carbon steel or stainless steel,** these screens offer high resistance to wear and corrosion, ensuring longevity and consistent performance.



**Available in a range of perforation patterns to accommodate different types of feed and biomass materials.**

This variety allows for precise control over the final particle size, crucial for quality assurance in feed production and biomass processing.



# World-Class Wear Parts and Service Wherever You Need Them

Our wear parts and services are available wherever your operations are located. With strategically placed facilities across the globe, we're committed to providing you with the exact wear parts you need, precisely when you need them.



## Service Hubs

### NAM

- Blenheim, Canada
- Prince George, Canada
- Muncy, USA
- Savannah, USA

### LATAM

- Morelia, Mexico
- Santiago, Chile
- Talcahuano, Chile
- Pomerode, Brazil

### EUROPE

- Schio, Italy
- St. Martin Le Beau, France
- Hull, UK
- Geldrop, Netherlands
- Esbjerg, Denmark
- Mettmann, Germany

### MEA

- Johannesburg, South Africa
- Dubai, UAE

### APAC

- Chennai, India
- Dhaka, Bangladesh
- Bangkok, Thailand
- Ho Chi Minh City, Vietnam
- Carrum Downs, Australia

### CHINA

- Shanghai, China

## Die Manufacturing

- Geldrop, Netherlands
- Foshan, China
- Windsor, Canada

Opening in 2025





# Experience the Benefits of Our Personalized Service

Our dedicated team ensures that every part performs optimally, providing you with the best experience possible.

Whether you need advice, troubleshooting, or customization, we are available for a call or assistance to guarantee your satisfaction.

Coordinate with your dedicated account manager to select the communication channels that work best for you!





## GLOBAL SUPPLIER – LOCAL PRESENCE

ANDRITZ Feed & Biofuel is truly a global organization – with local presence. We are represented all over the world. The global market is served from five main locations in Denmark, China, Netherlands, USA, and Slovakia.

In addition, ANDRITZ Feed & Biofuel operates from several strategic regional sales, engineering, and service locations in Australia, Bangladesh, Brazil, Canada, Chile, Dubai, France, Germany, India, Italy, Mexico, Poland, South Africa, Thailand, Turkey, the UK and Vietnam – and is also represented locally by agents and distributors in many other markets.

### AUSTRALIA

ANDRITZ Feed & Biofuel  
p: +61 3 8773 4888  
andritz-fb.au@andritz.com

### CHINA

ANDRITZ Feed & Biofuel  
p: +86 21 5774 5781  
andritz-fb.cn@andritz.com

### ITALY

ANDRITZ Feed & Biofuel  
p: +39 025 743 01 30  
andritz-fb.it@andritz.com

### THAILAND

ANDRITZ Feed & Biofuel  
p: +66 2258 5528  
andritz-fb.dk@andritz.com

### BANGLADESH

ANDRITZ Feed & Biofuel  
p: +880 22 222 64 800  
andritz-fb.bd@andritz.com

### DUBAI

ANDRITZ Feed & Biofuel  
p: +971 4 214 6546  
andritz-fb.uae@andritz.com

### MEXICO

ANDRITZ Feed & Biofuel  
p: +52 229 178 38 45  
andritz-fb.mx@andritz.com

### TURKEY

ANDRITZ Feed & Biofuel  
p: +90 232 570 38 00  
andritz-fb.tr@andritz.com

### BRAZIL

ANDRITZ Feed & Biofuel  
p: +55 47 3387 9146  
andritz-fb.br@andritz.com

### FRANCE

ANDRITZ Feed & Biofuel  
p: +33 24 75 06 364  
andritz-fb.fr@andritz.com

### NETHERLANDS

ANDRITZ Feed & Biofuel  
p: +31 40 262 7777  
andritz-fb.nl@andritz.com

### UK

ANDRITZ Feed & Biofuel  
p: +44 1482 825 119  
andritz-fb.uk@andritz.com

### CANADA

ANDRITZ Feed & Biofuel  
p: +1 519 676 7057  
anbosales@andritz.com

### GERMANY

ANDRITZ Feed & Biofuel  
p: +49 2104 91970  
andritz-fb.de@andritz.com

### POLAND

ANDRITZ Feed & Biofuel  
p: +48 60 906 1037  
andritz-fb.pl@andritz.com

### USA

ANDRITZ Feed & Biofuel  
p: +1 570 546 1253  
andritz-fb.us@andritz.com

### CHILE

ANDRITZ Feed & Biofuel  
p: +56 2 2246 24 600  
andritz-fb.cl@andritz.com

### INDIA

ANDRITZ Feed & Biofuel  
p: +91 87544 15287  
andritz-fb.india@andritz.com

### SOUTH AFRICA

ANDRITZ Feed & Biofuel  
p: +27 82 781 0808  
andritz-fb.dk@andritz.com

### VIETNAM

ANDRITZ Feed & Biofuel  
p: +84 28 6253 9434  
andritz-fb.vi@andritz.com

[ANDRITZ.COM/FT](https://www.andritz.com/ft)

**ANDRITZ Feed & Biofuel A/S**

Glentevej 5–7  
6705 Esbjerg, Denmark  
p: +45 72 160 300  
[andritz-fb.dk@andritz.com](mailto:andritz-fb.dk@andritz.com)



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