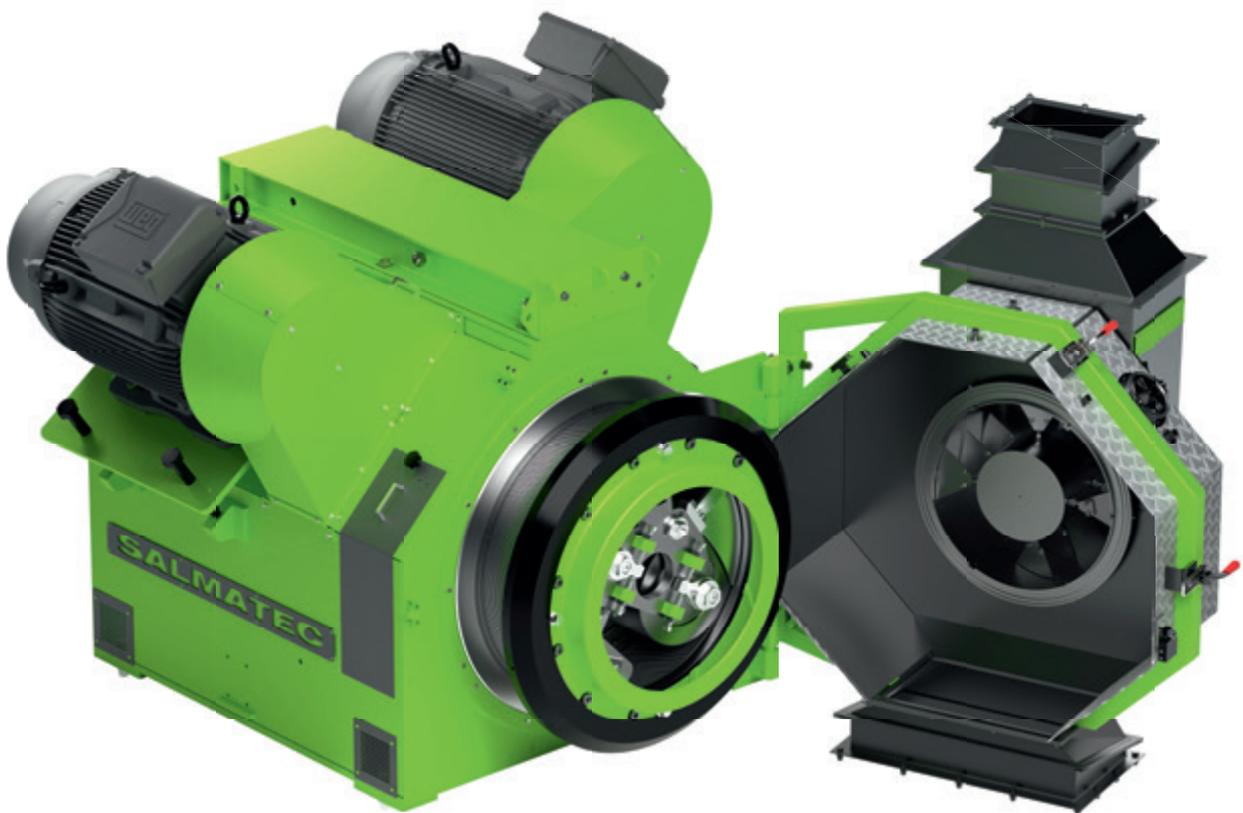




# MAXIMA RECYCLING PELLETIZERS



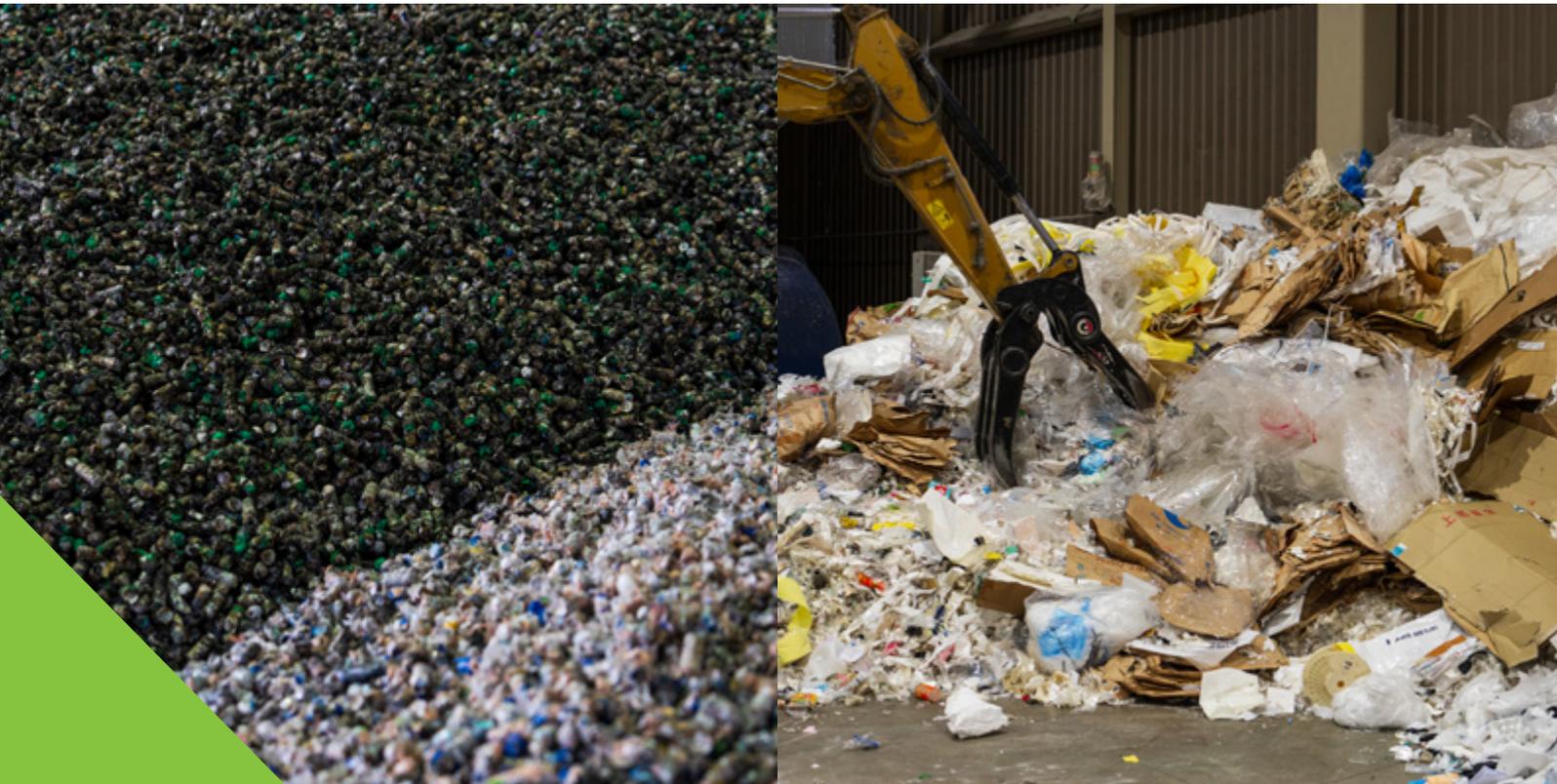
# SALMATEC

## RPF / RDF Fuel

PRF pellets and RPF pellets are sustainable and efficient energy sources made from recycled materials. These pellets mainly consist of compressed waste materials from households and industries, including plastic, paper, wood, and textiles. Instead of disposing of it in the form of landfill, we can utilize the generated waste energetically.

During the manufacturing process, the material is compressed into pellets, increasing its bulk density. The result is compact pellets that can be stored and transported conveniently. Later, they can be converted into heat or electricity through controlled combustion. This process is particularly suitable for heavy industries, such as cement and steel production.

Due to their optimized transport and storage properties, RPF pellets and RDF pellets are also suitable for power plants. The energy stored in them can be accessed at any time, regardless of external factors. This enables balancing low phases of weather-dependent energy sources.



# Plastic Waste as a Material

Waste management mechanisms, such as the Dual System, provide pre-sorted raw materials for recycling processes. This allows for the recycling of mixed plastics and films. Shredding followed by pelletization yields a homogeneous feedstock for a material that can be processed into new products. As a weather-resistant alternative to wood materials, there are diverse applications for recycled plastic. The possibilities are nearly limitless: from fence posts to decking, and from park benches to raised flower beds.



# Wood Pellets



## EN plus A1 and Industrial Pellets

In wood processing plants such as sawmills and planing mills, by-products are generated. These do not have to go unused; instead, they can be processed into high-quality wood pellets using a pelleting plant. This results in an environmentally friendly and efficient fuel. Our machines are suitable for the production of EN plus A1 certified pellets, which can be used in home heating systems.

Alternatively, the residual materials can also be processed into industrial pellets. These pellets are mainly used in larger biomass power plants to generate heat or electricity.

## Animal Bedding

Pellets made from wood residues can also be used as bedding for animals. They provide a soft and stable surface, which is gentle on the joints of heavier animals such as horses. The material is characterized by high absorbency, ensuring a dry and odor-neutral environment. Pellets are also suitable as bedding for cats and other small animals.



## Wastewood Pellets

For the purpose of industrial energy generation, recycled wood can also be processed into pellets. At the end of their lifecycle, items such as furniture, pallets, fences, etc., do not have to end up in landfills. Instead, they can be pelletized and used as fuel. This process requires additional filtering systems to remove metal components such as nails and screws. Subsequently, the material can be ground, conditioned, and pelletized.

Our SALMATEC pelletizers are manufactured exclusively from high-quality materials and comply with the latest safety regulations and approval guidelines.



## This is what makes our MAXIMA series so unique

### Energy-efficient direct drive

- One-Step direct drive via standard v-belts
- Low noise
- Low maintenance
- High efficiency
- Smooth machine operation due to a large flywheel mass
- Optimized main bearing load

## Optimum press chamber design

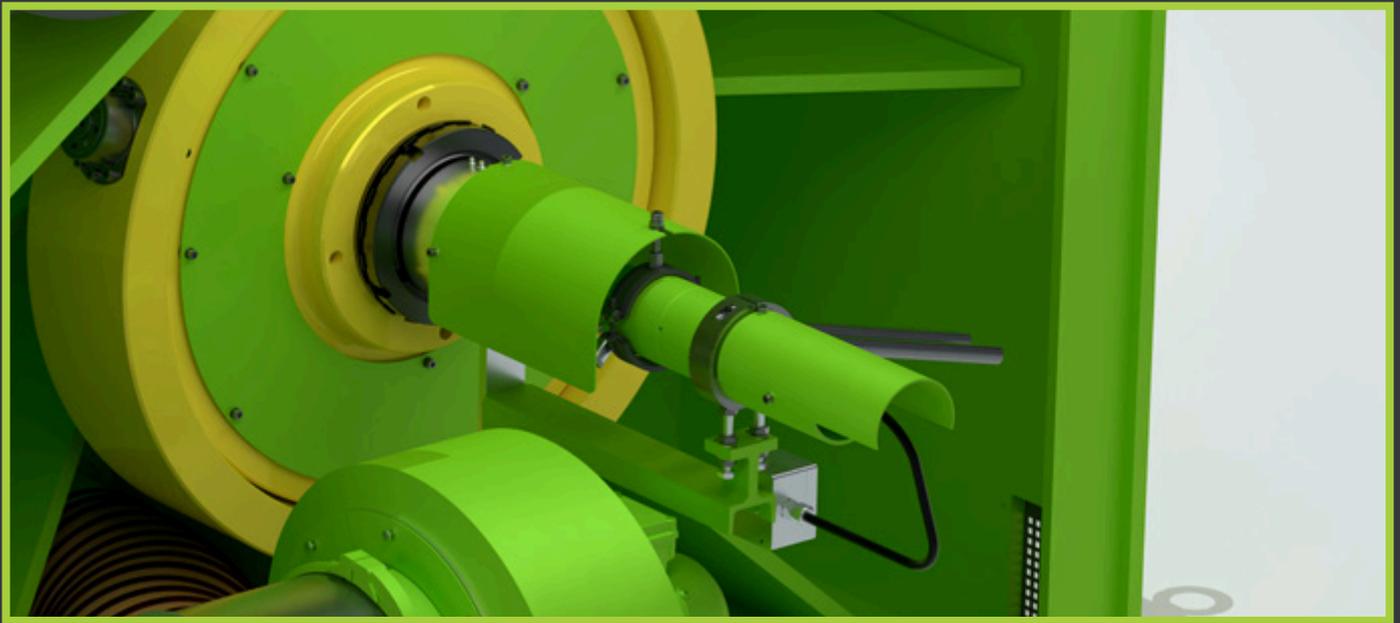
- 3 or 2 rollers
- Optionally, also automatically adjustable during operation
- Special inlets for light bulk materials

# State-of-the-art Standard Equipment

Even the standard equipment of our MAXIMA pelletizers offers you a substantial production advantage

## Overload Clutch

- To protect the pelletizer from overload and foreign body impact
- After triggering, the roller package runs freely
- The safety switch sends a signal to shutdown the rotation
- More precise and effective than conventional shear pins
- Quick restarting of the pelletizer after triggering



## Maintenance Drive

- Slow rotation of the die clockwise or counterclockwise
- Easy die change
- Improved roller gap adjustment options
- Precise adjustment of the v-belt pretension
- The die can rotate with the access door open without causing any safety-related losses



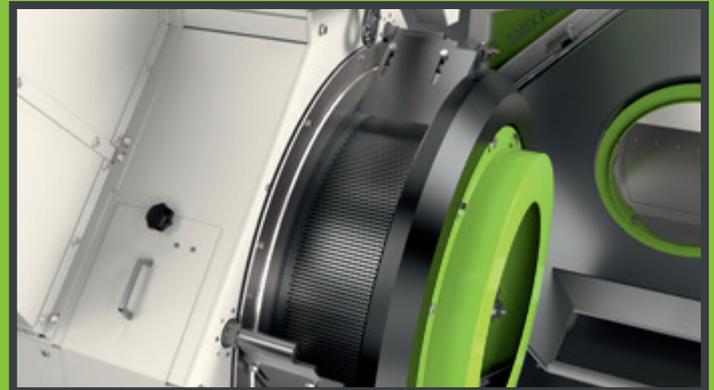
## Central Lubrication System

- Lubrication of the rollers and the main bearing
- Electronic lubrication pump
- Individual lubrication quantity regulation
- Automatically refillable
- Longer service life of the bearings
- Also suitable for minimal lubrication



## Automatic Pellet Knife Adjustment

- Simultaneous adjustment of 3 pellet knives
- Automatic, electronic adjustment
- Stepless adjustment
- Adjustment range from 0 to 50 mm



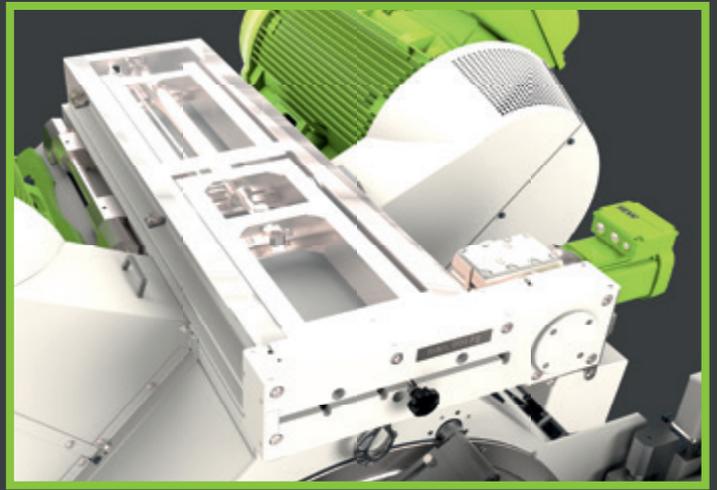
## Multi Knife

- Especially suitable for the production of fuel pellets
- Reduction of pellets with excess length
- Higher press output, as fewer excess lengths have to be separated



### Lifting Frame for Rollers and Dies

- Electric winch with robust chain
- Hydraulically extendable winch
- Shortens the time of the roller and die change
- Facilitates the handling of heavy press tools
- Statically tested



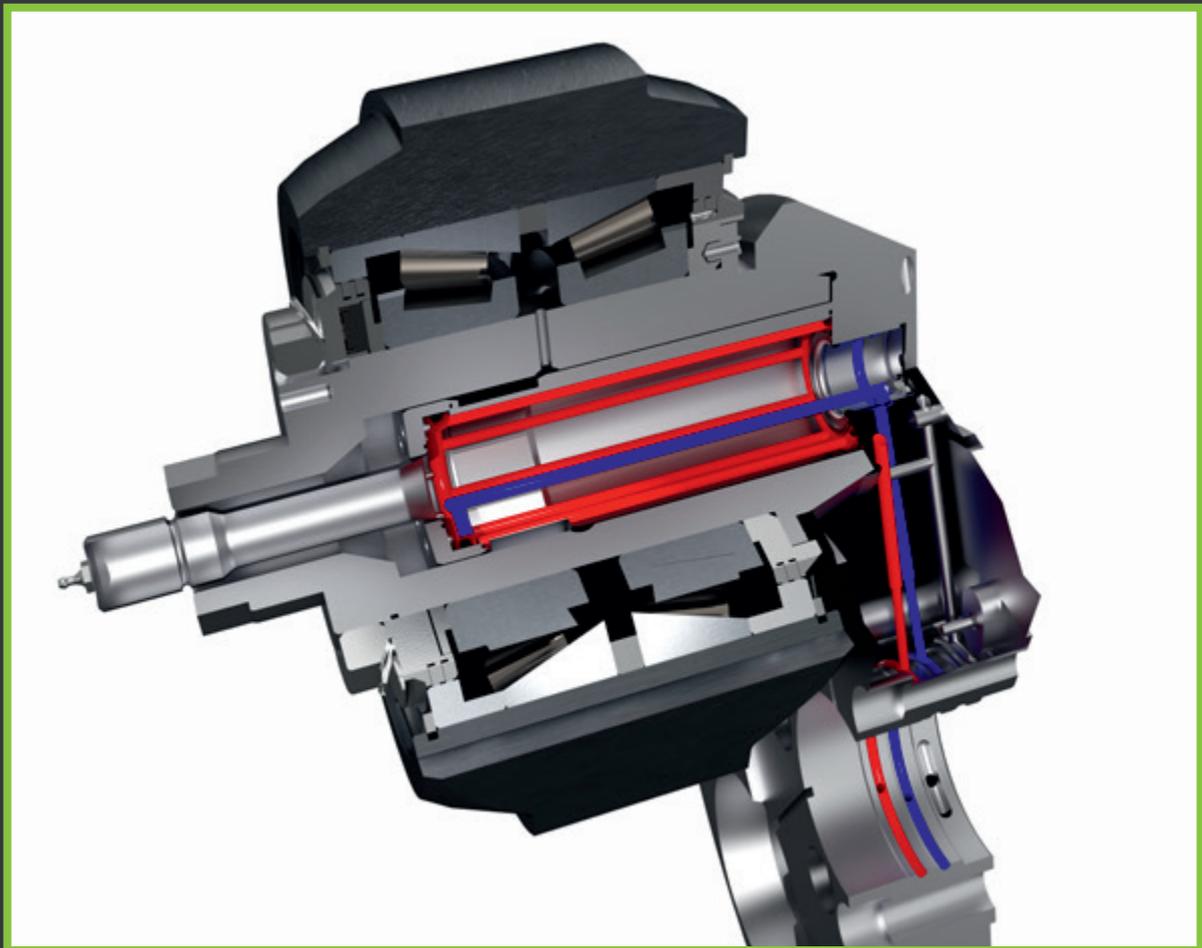
### Roller Rotation Speed Measurement

- Measuring the speed of your rollers
- Ideal parameter for regulating the feed-in quantity
- Higher availability due to more precise control



## Roller Cooling

- Reduction of the roller temperature by cooling the support shaft
- Cooling via a liquid cooling medium
- Suitable for raw products that easily heat up the system
- Higher operational reliability and availability



## Roller Temperature Control

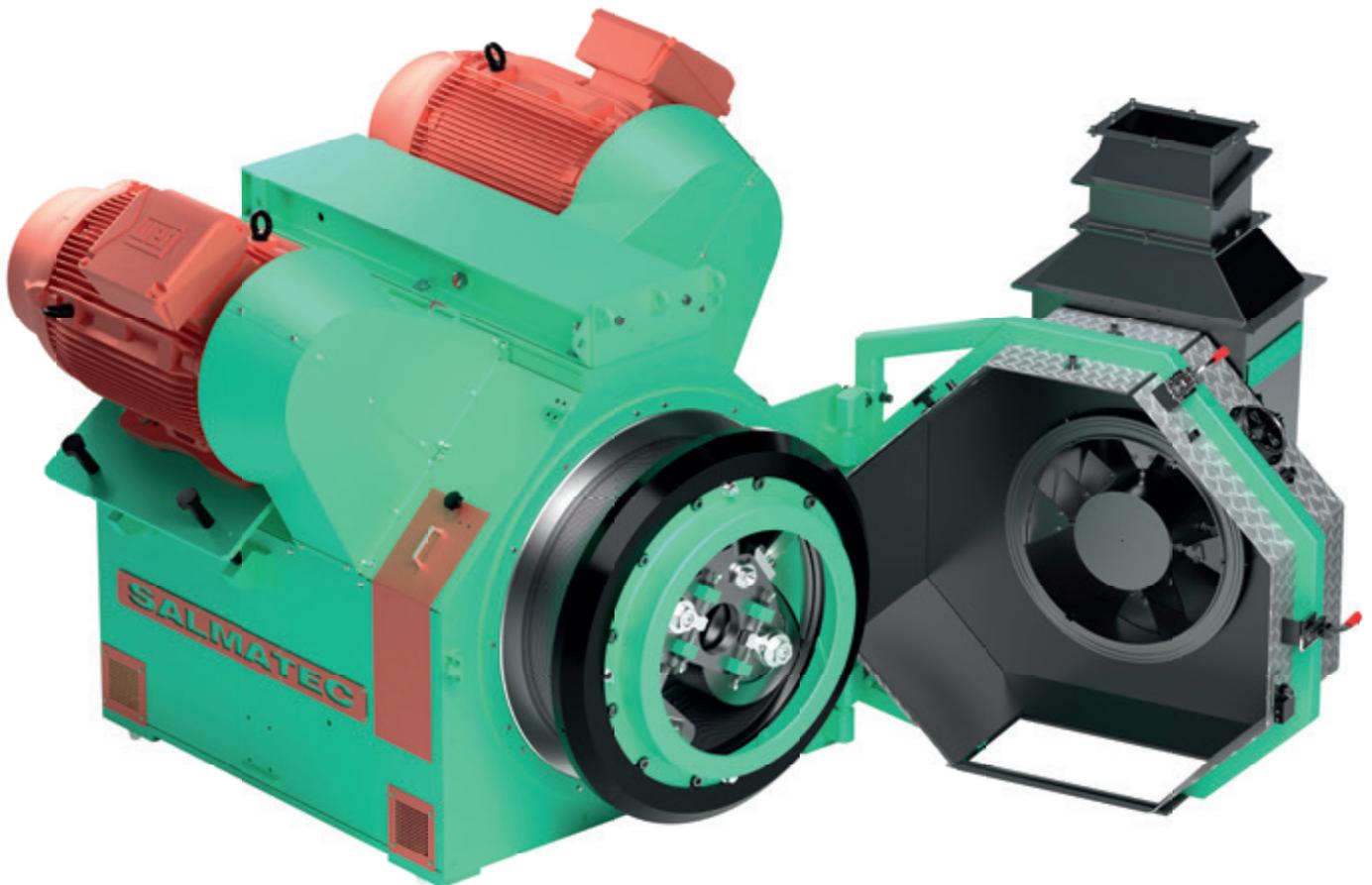
- Detection of the roller temperature at the rear of the roller axle
- To avoid excess temperature in the roller
- Longer bearing life time and higher availability
- Especially suitable for materials that are difficult to pelletize

## Painting

- Individual color design of your SALMATEC pelletizer
- In addition to our standard designs, any combination of RAL colors is possible

## Vibration Detection in 3 axes

- Microcontroller-based measuring system to record vibrations in all three axes
- From this, a combined signal is determined
- Easy connection to PLC





# MAXIMA Pelletizers Type Overview

Pelletizer Model	Drive Power	Die-Ø	Die Width
MAXIMA 360 Mini	15 - 37 KW	360 mm	40 mm
MAXIMA 450	74 - 150 KW	450 mm	100 - 115 mm
MAXIMA 500	74 - 150 KW	500 mm	100 - 135 mm
MAXIMA 580	74 - 150 KW	580 mm	100 - 150 mm
MAXIMA 700	150 - 320 KW	700 mm	100 - 225 mm
MAXIMA 840	180 - 400 KW	840 mm	90 - 270 mm
MAXIMA 900	220 - 500 KW	900 mm	125 - 300 mm
MAXIMA 1000	220 - 630 KW	1000 mm	300 - 350 mm

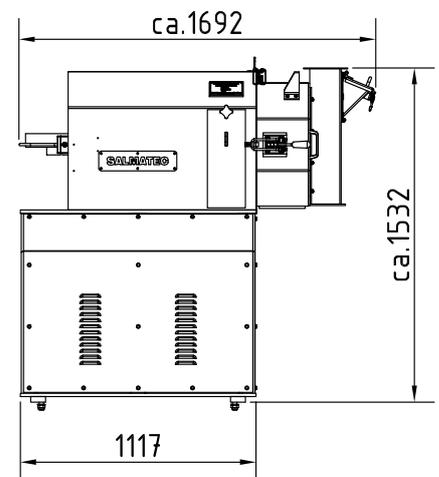
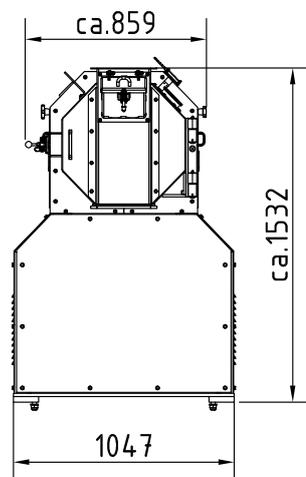
# SALMATEC

# MAXIMA Pelletizer Sizes

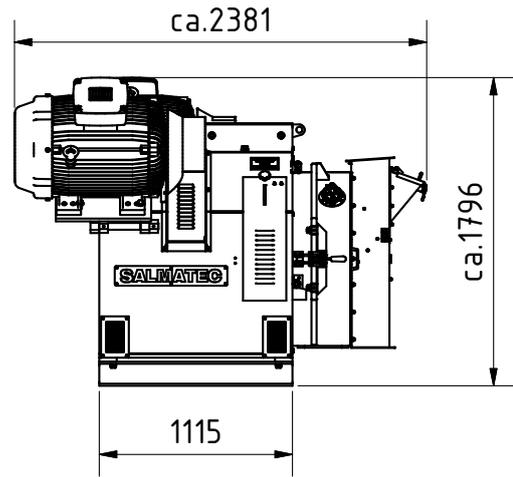
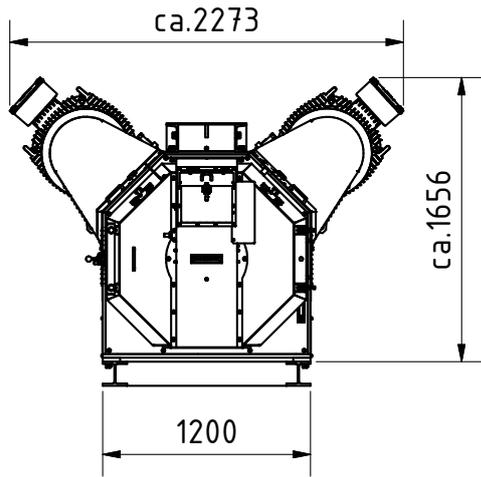
Core dimensions of the individual models



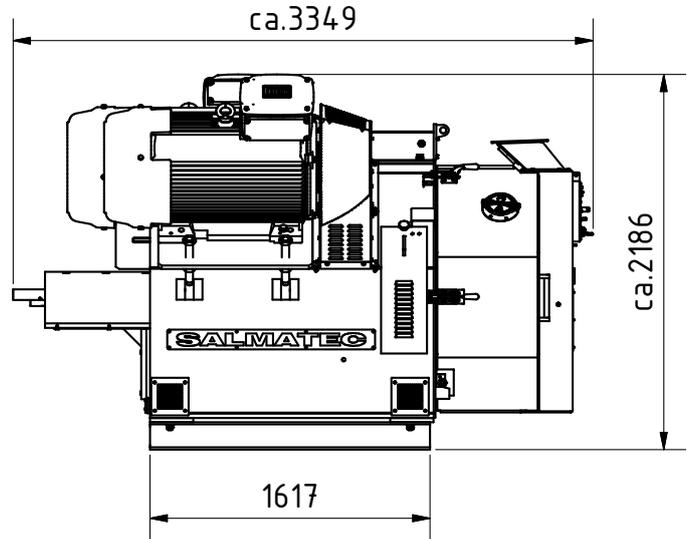
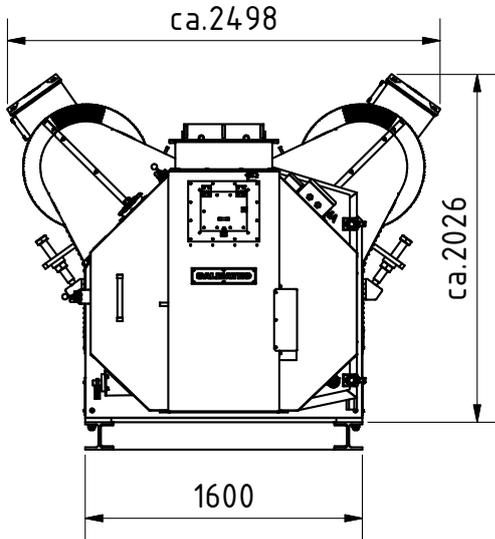
## MAXIMA 360 Mini



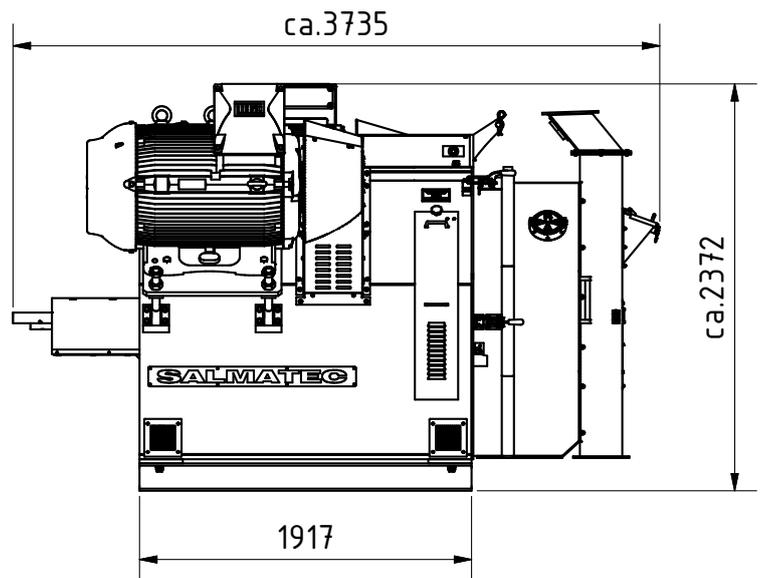
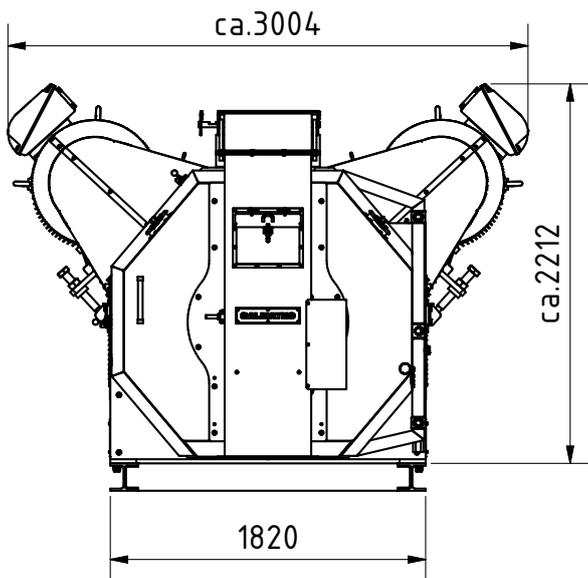
**MAXIMA 450 / MAXIMA 500 / MAXIMA 580**

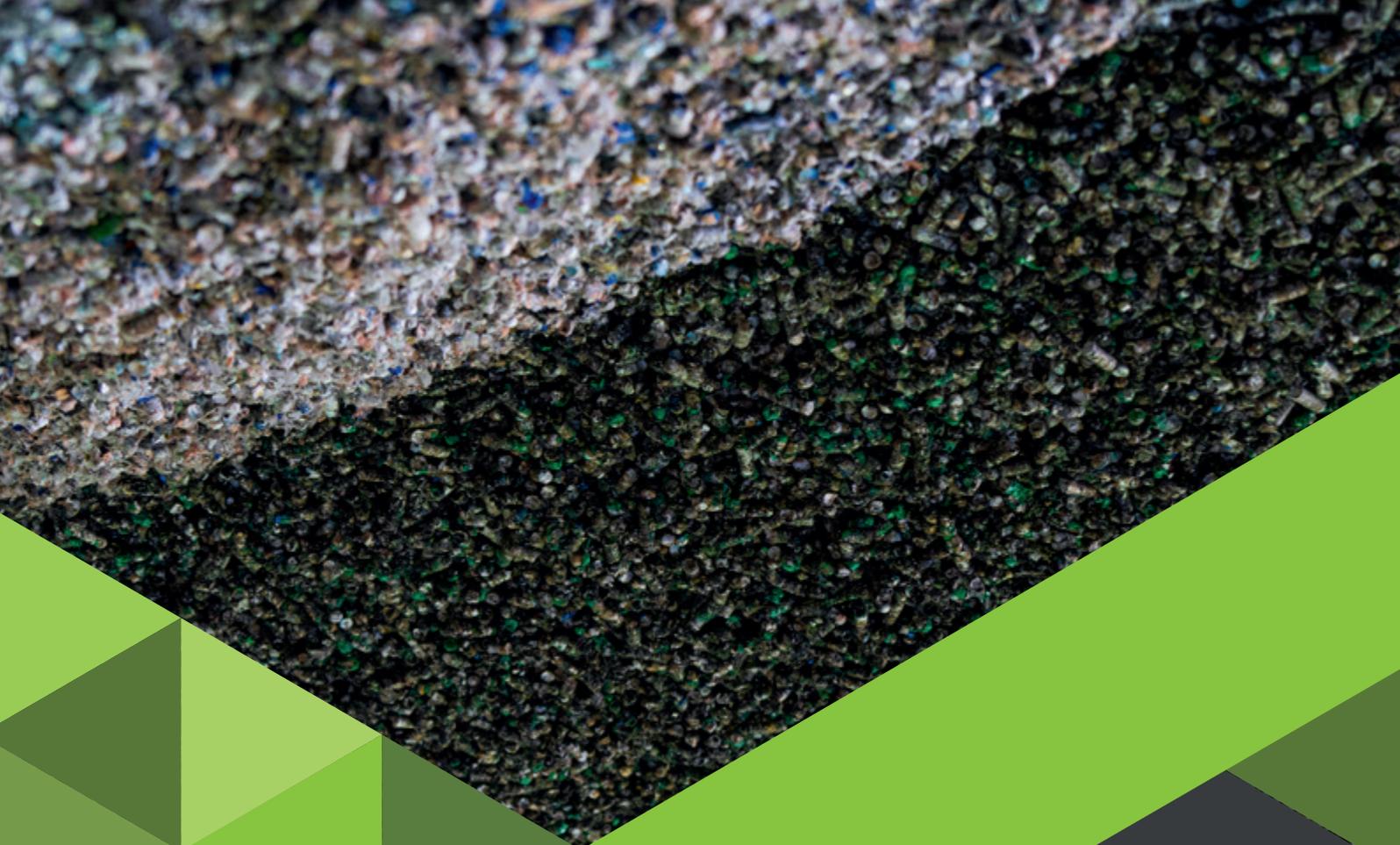


**MAXIMA 700 / MAXIMA 840**



**MAXIMA 900 / MAXIMA 1000**





## CONTACT INFO

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