BE&E

MAXIMA BIOMASS PELLETIZERS

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PELLETIZERS

Why choose a pellet mill from SALMATEC?
Because pelleting is our speciality

The pelletizer is our core product and the basis of our business success. The pelletizer has a significant impact on the shape and quality of your end product which means that you should always be able to rely on it one hundred percent. We are aware of this responsibility. This is our drive and our motivation.

Our SALMATEC pelletizers of the MAXIMA series are based on a modular design and therefore can be optimally adapted to a wide variety of tasks. In order to meet the high demands of a successful pelleting process, we ourselves place the highest demands on our design and manufacturing. Cutting edge 3D design combined with a high level of vertical integration ensures a consistently high level of quality. Without compromise.

Whether you use a machine with 29 or with 536 hp drive power, SALMATEC finds the best solution for you.

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 unique

Energy-efficent direct drive

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

Optimum press chamber design

- 3 or 2 rollers
- Special inlets for light bulk materials
- perfect pressure distribution on the ring die

State-of-the-art Standard Equipment

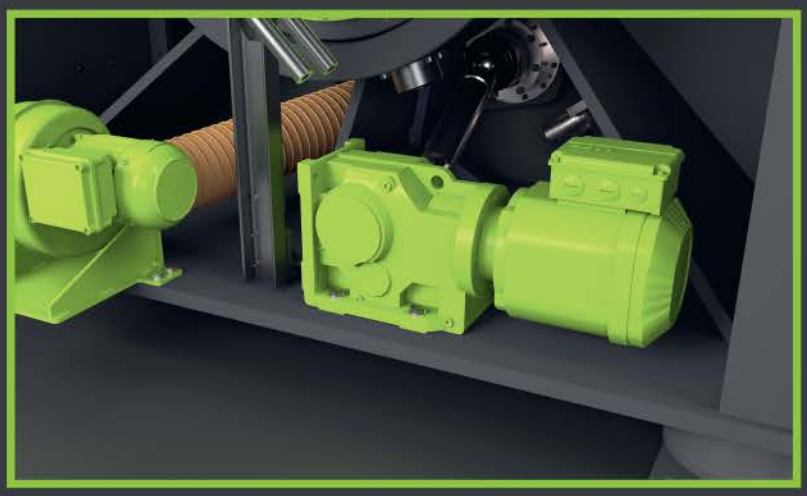
Even the standard equipment of our MAXIMA pelletizers offers you a substantial production advantage

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 effetive 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-belts
- The die can rotate with the access door open without causing any saftey-related losses



SALMATEC was an early adapter of the wood pelleting technology.
We have capitalized on decades of experience in the feed industy to develop our first biomass pellet mills in the 1990s. Since then, we have commissioned more than 450 wood pelletizers worldwide, resulting in an installed capacity of over 13,000.000 mt/year.

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Central Lubrication System

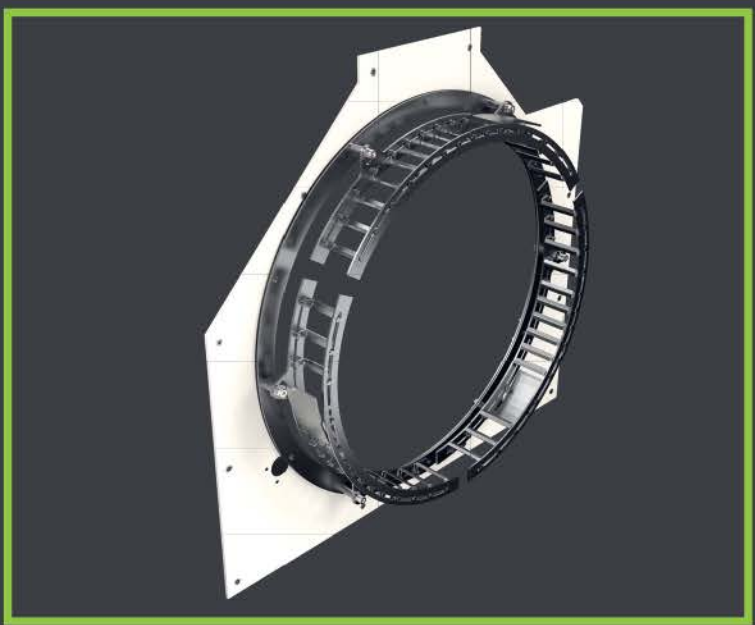
- Lubrication of the rollers and the main bearing
- Electronic lubrication pump
- Individual lubrication quantity regulation
- Automatically refillable
- Longer service life of the bearings
- Also suitable for minimal lubrication

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

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

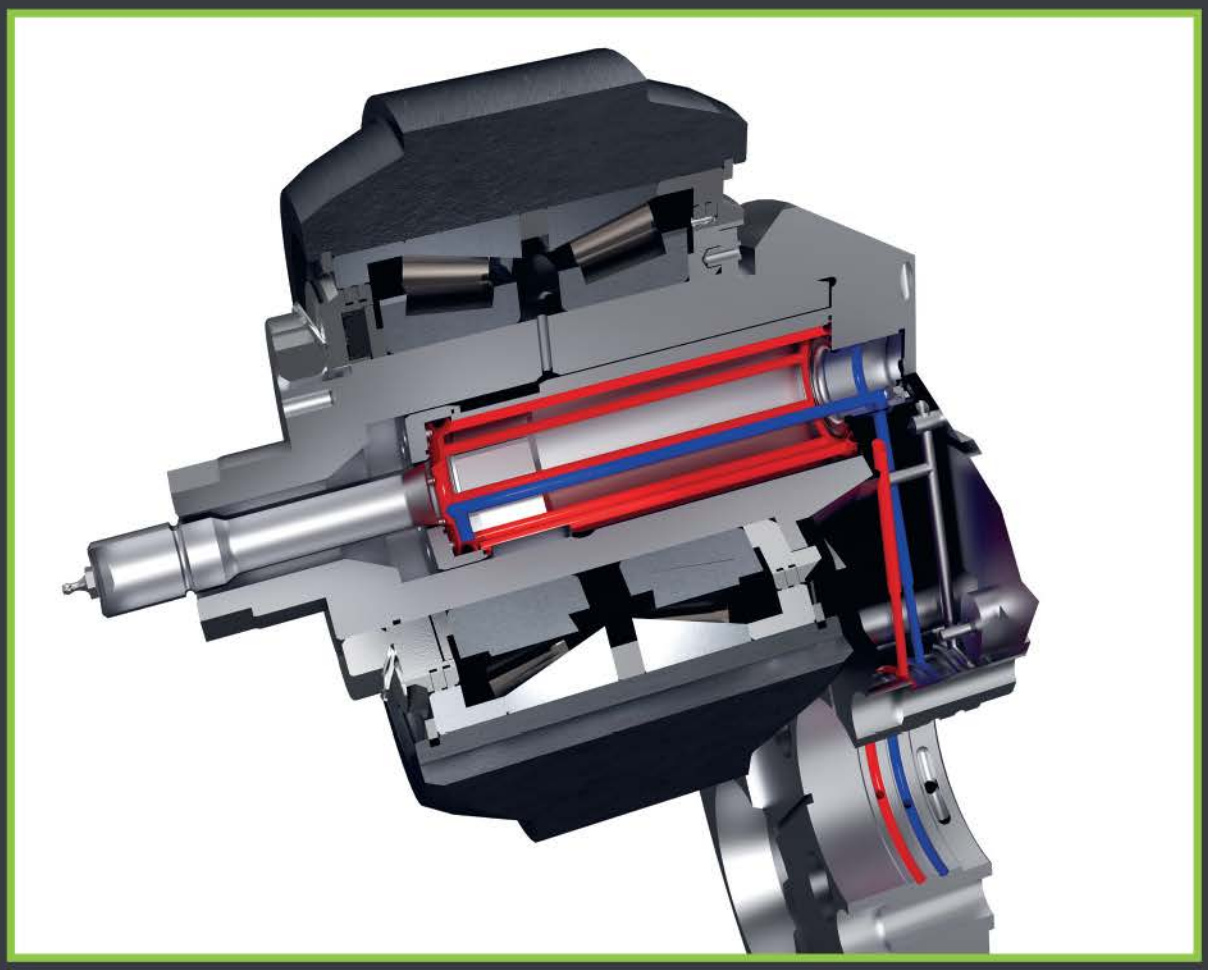
- Electric winch with robust chain
- Hydraulically extendable winch
- Shortens the time of the roller and die change
- Facilitates the handling of heavy press tools
- Statically tested

Forced Feeder

- Specifically made for pelleting light bulk material
- Completely made of stainless steel
- Stainless steel conveyor paddles
- Stainless steel housing and conveyor shaft
- Inspection Opening

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

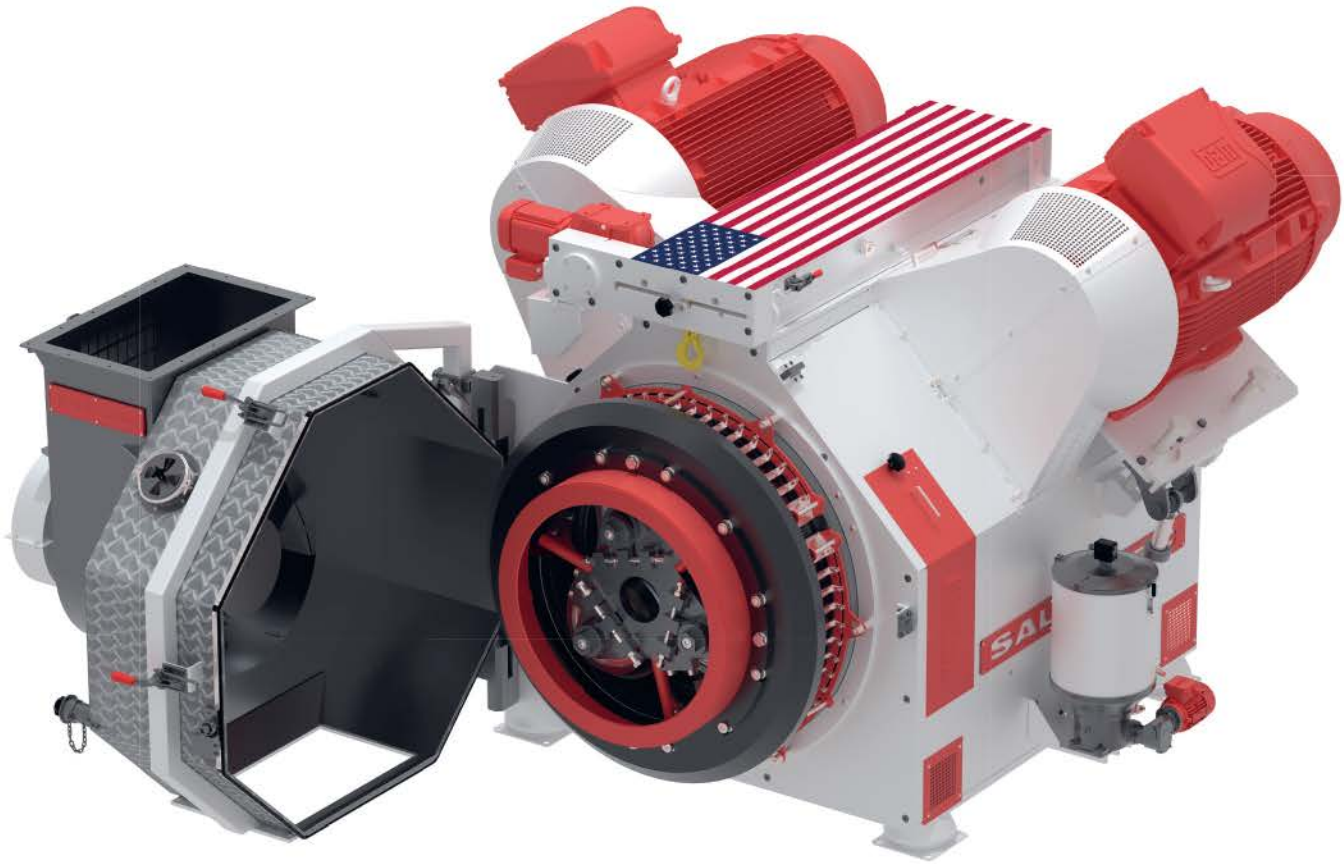
- Detection of the roller temperature at the rear of the roller axle
- To avoid excess temperature in the roller
- Longer bearing life time and higher availability
- Especially suitable for materials that are difficult to pelletize

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

Painting

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



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MAXIMA Pelletizers Type Overview

Pelletizer Model	Drive Power	Die-Ø	Die Width	Production capacity
MAXIMA 360 Mini	29 HP 40 HP	14 inches	1 ½ inches	0.5 mt/h
MAXIMA 450	120 HP	18 inches	2 ½ inches 3 inches 4 inches	1 mt/h
MAXIMA 500	148 HP 201 HP	20 inches	2 ½ inches 3 inches 4 inches	2 mt/h
MAXIMA 620	120 HP 148 HP	24 inches	4 inches	2 mt/h
MAXIMA 700	295 HP 354 HP	28 inches	3 inches 4 inches	3.5 mt/h
MAXIMA 840	354 HP 429 HP	33 inches	3 ½ inches 4 inches 5 inches	6 mt/h

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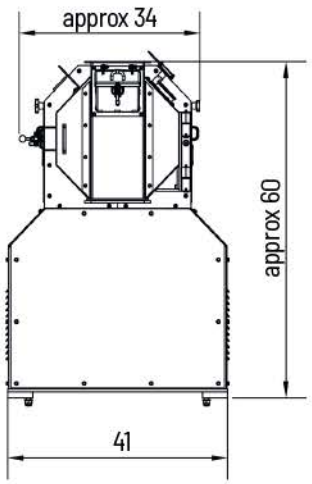
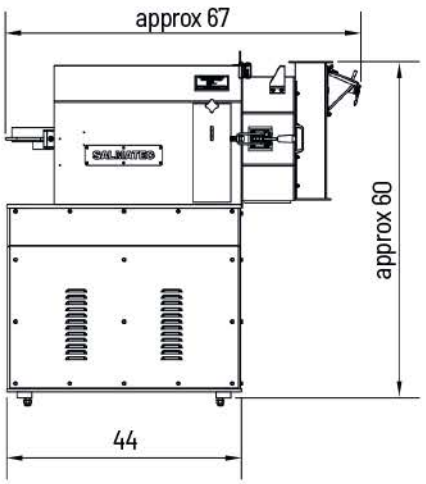
MAXIMA Pelletizer Sizes

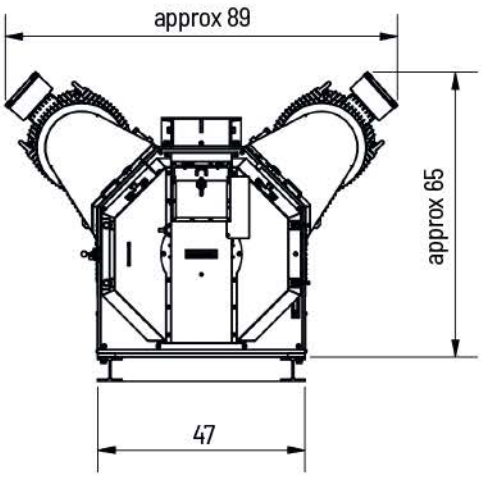
Core dimensions of the individual models

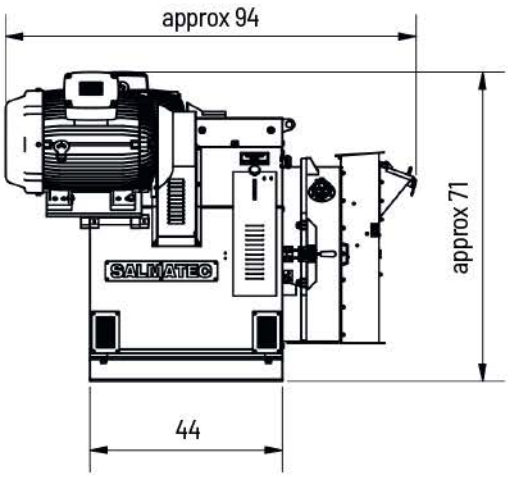
MAXIMA 360 M



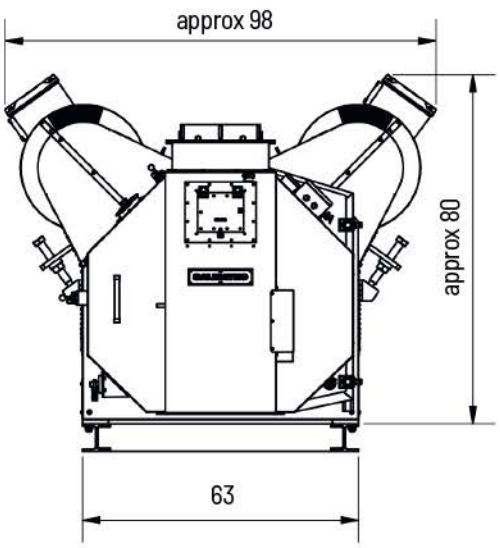


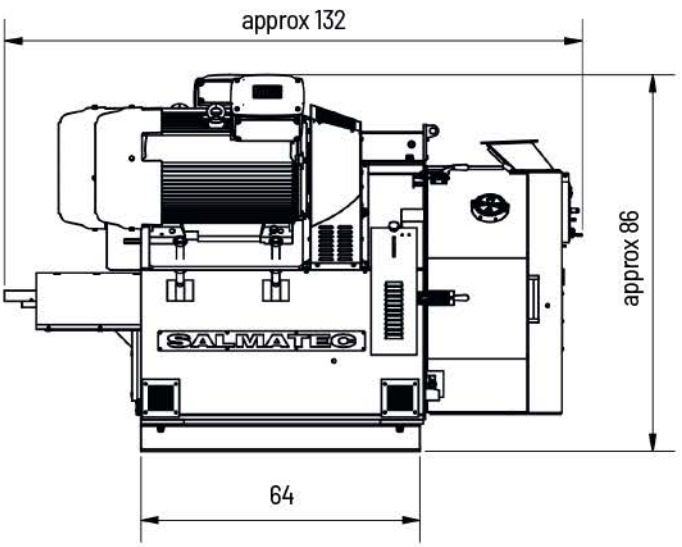
MAXIMA 450 / MAXIMA 500



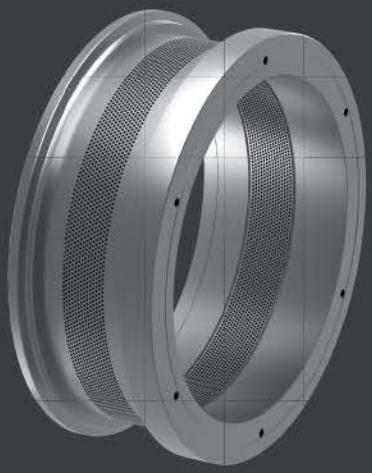


MAXIMA 620 / MAXIMA 700 / MAXIMA 840

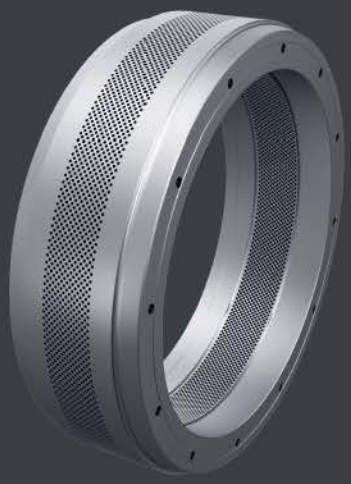


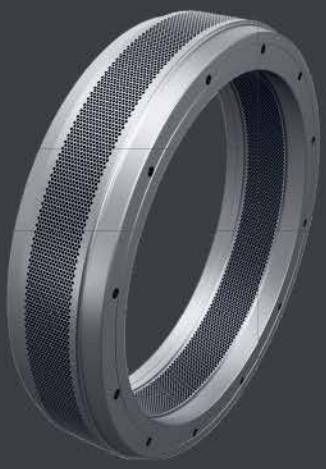


MAXIMA S-Dies



traditionell dies





MAXIMA 840-125**S**

Especially for our MAXIMA series, we have developed a special type of die: the **S**-die. It offers the same working width as a classic die but comes with a smaller overall width.

This reduces the use of steel material and decreases the weight of the die.
As a result, it is easier to handle, and at the end of its lifespan, less steel ends up in the scrap.

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