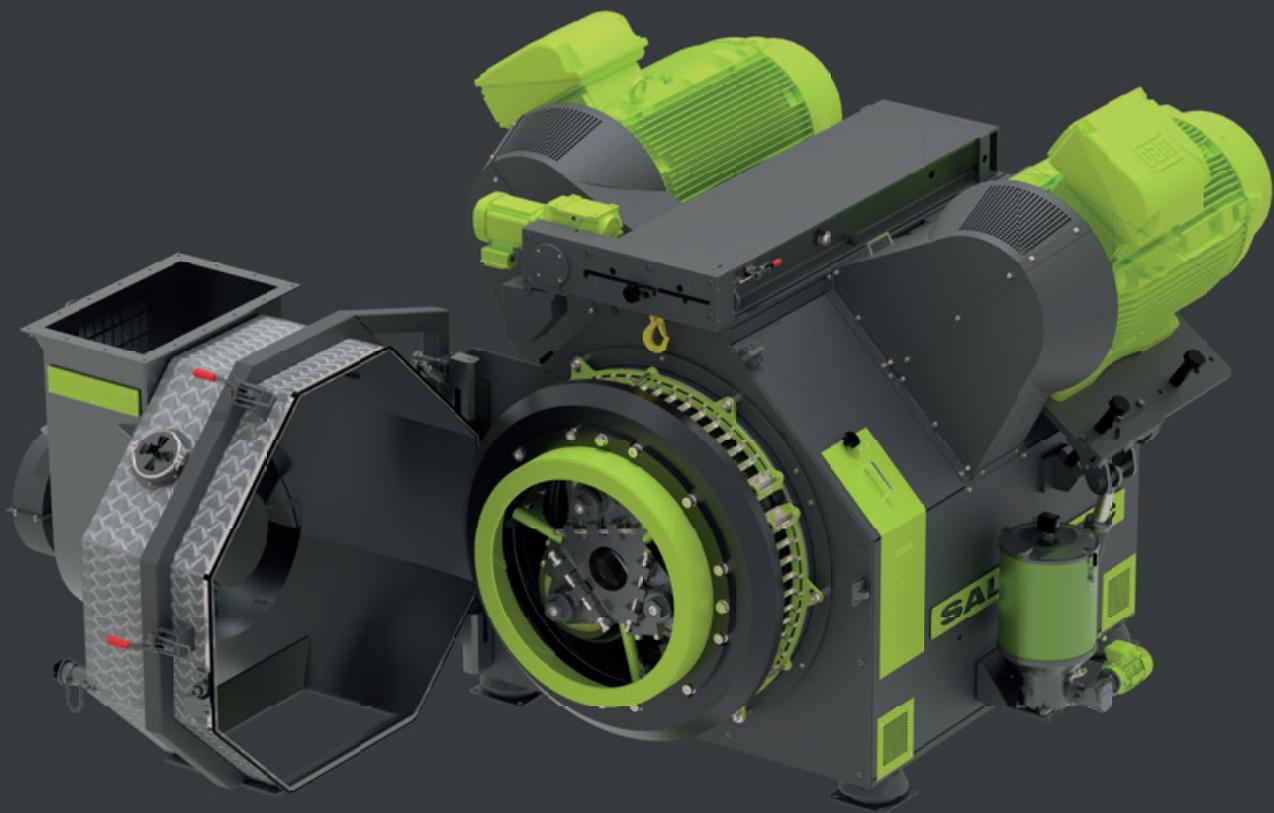




# MAXIMA BIOMASS PELLETIZERS



# SALMATEC

**Pelletizers 03**

**MAXIMA Model Series 04**

**Standard Equipment 05**

**Pelletizers Worldwide 06**

**Special Equipment 08**

**Type Overview 13**

**Sizes 14**

**S-Dies 15**



# 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 22 or with 400 kW 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-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

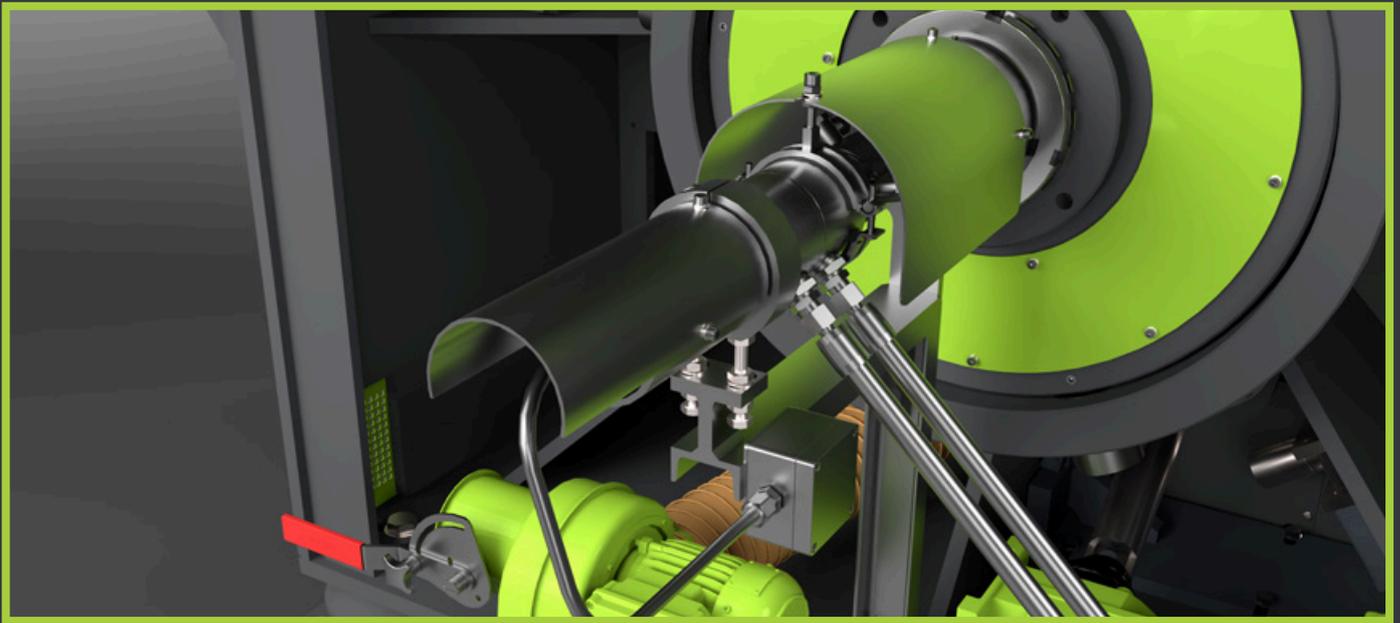
- 3 or 2 rollers
- Special inlets for light bulk materials
- perfect pressure distribution on the ring die

# State-of-the-art Standard Equipment

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

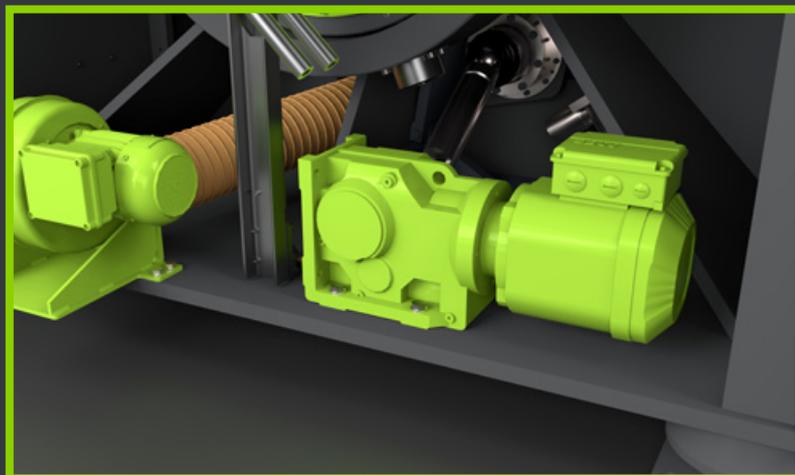
## Overload Clutch

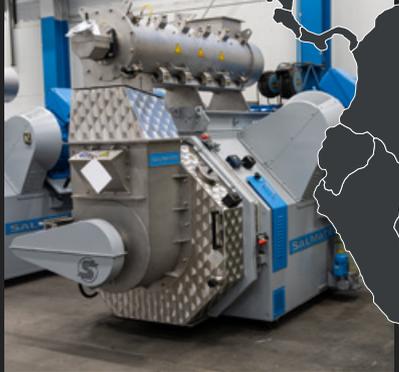
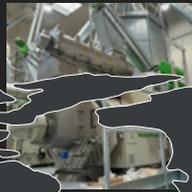
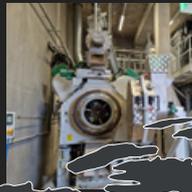
- To protect the pelletizer from overload and foreign body impact
- After triggering, the roller package runs freely
- The safety switch sends a signal to shutdown the rotation
- More precise and effective than conventional shear pins
- Quick restarting of the pelletizer after triggering



## Maintenance Drive

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





SALMATEC was an early adapter of the wood pelleting technology. We have capitalized on decades of experience in the feed industry 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.



# SALMATEC

## 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



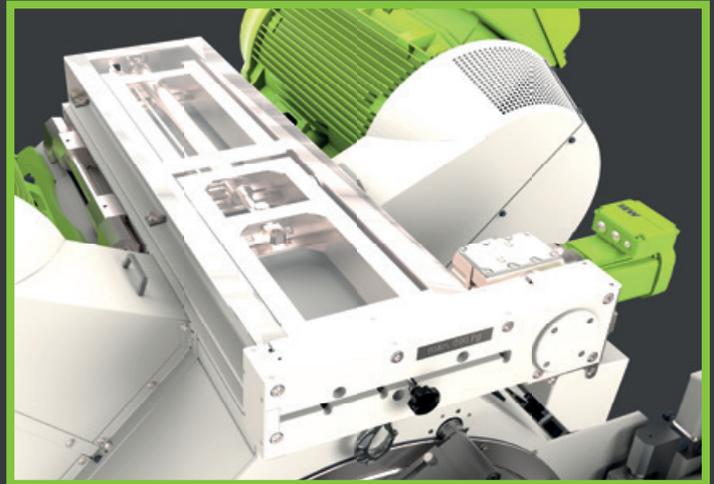
## Multi Knife

- 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



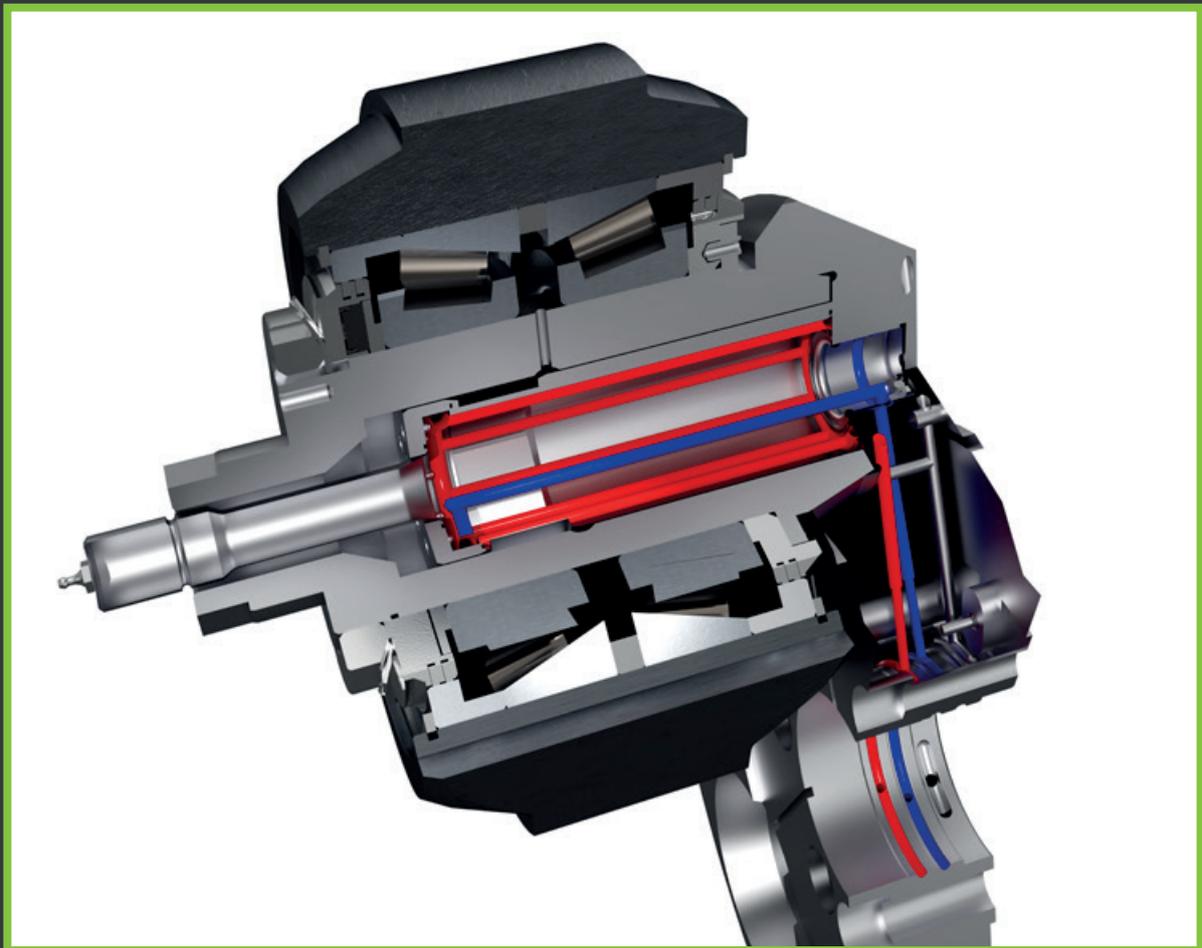
## Forced Feeder

- 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

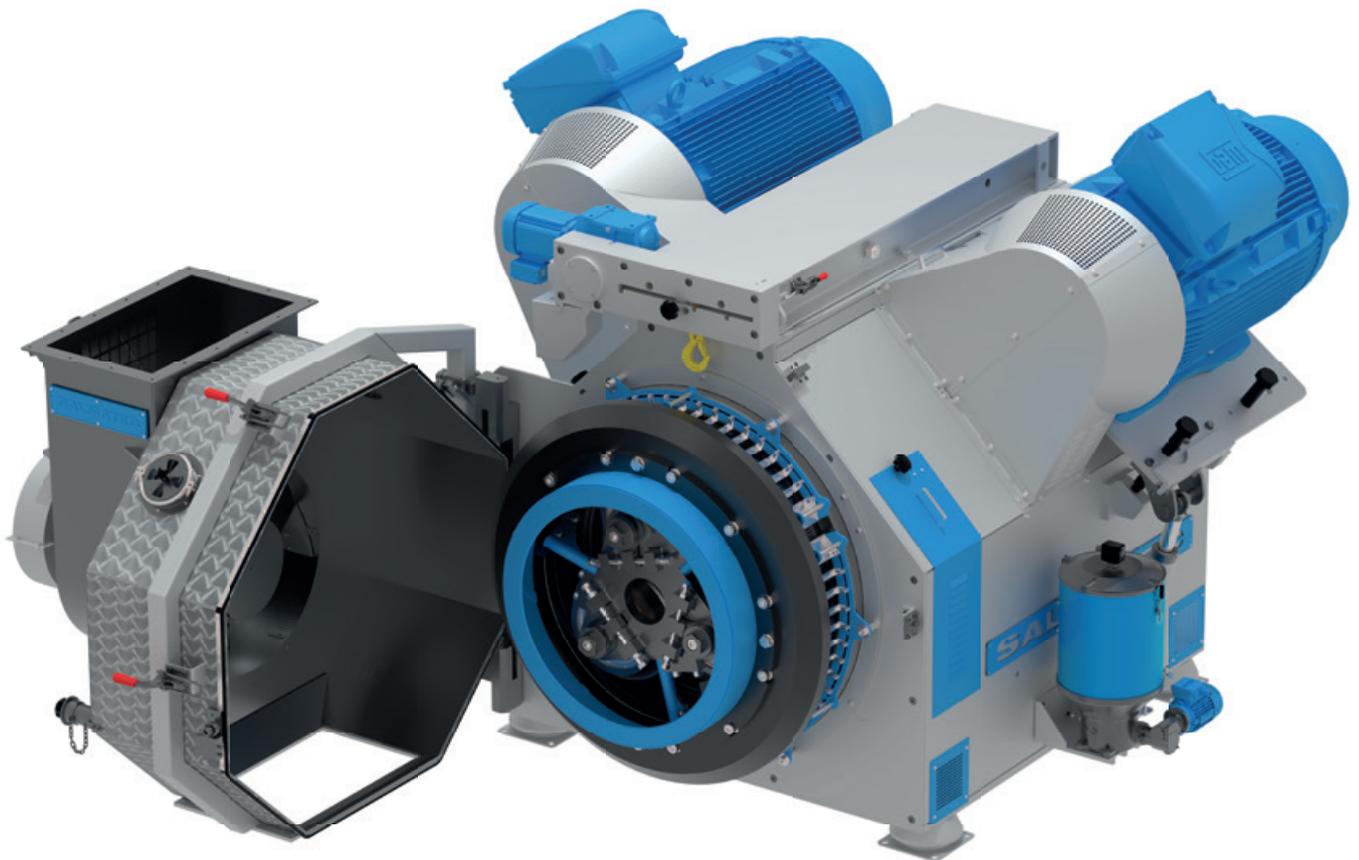
- Detection of the roller temperature at the rear of the roller axle
- To avoid excess temperature in the roller
- Longer bearing life time and higher availability
- Especially suitable for materials that are difficult to pelletize

### **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





# MAXIMA Pelletizers Type Overview

Pelletizer Model	Drive Power	Die-Ø	Die Width	Production capacity
MAXIMA 360 Mini	22 KW 30 KW	360 mm	40 mm	0,5 t/h
MAXIMA 450	90 KW	450 mm	60 mm 78 mm 100 mm	1 t/h
MAXIMA 500	110 KW 150 KW	500 mm	60 mm 78 mm 100 mm	2 t/h
MAXIMA 620	90 KW 110 KW	620 mm	100 mm	2 t/h
MAXIMA 700	220 KW 264 KW	700 mm	78 mm 100 mm	3,5 t/h
MAXIMA 840	264 KW 320 KW 400 KW	840 mm	90 mm 100 mm 125 mm	6 t/h
MAXIMA 900	400 KW 500 KW	900 mm	100 mm 125 mm	7,5 t/h

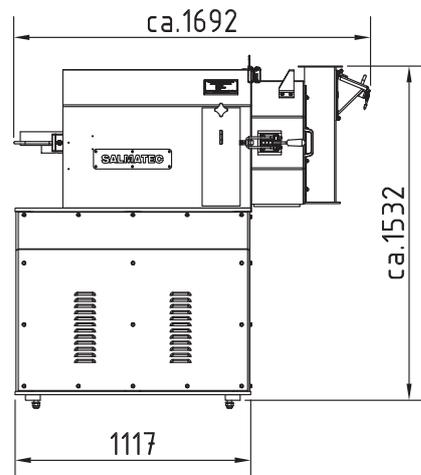
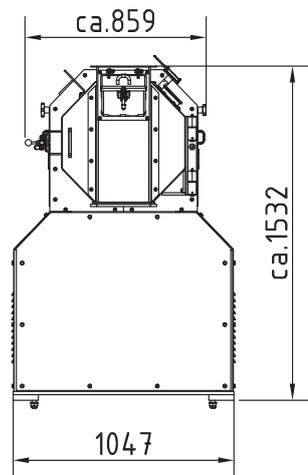


# SALMATEC

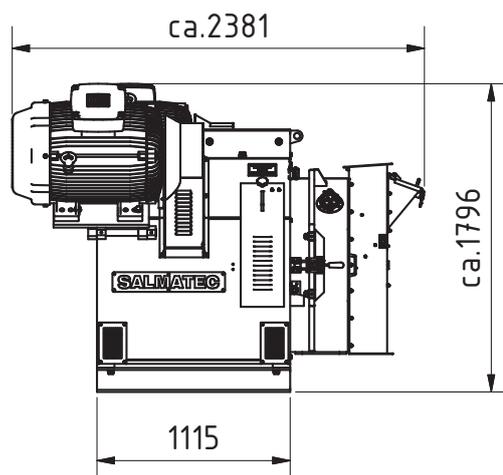
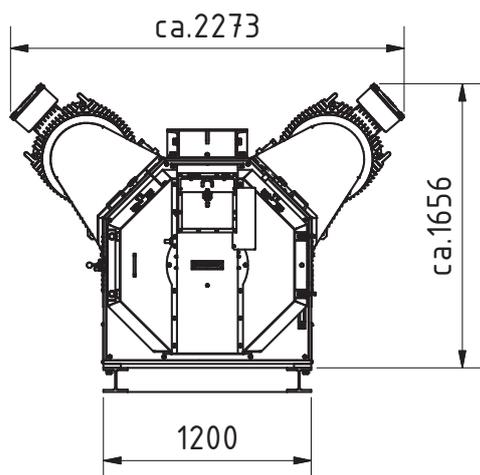
# MAXIMA Pelletizer Sizes

## Core dimensions of the individual models

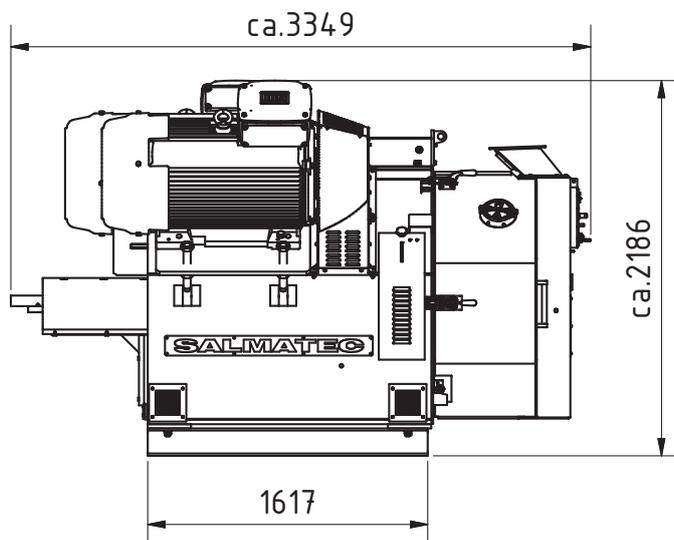
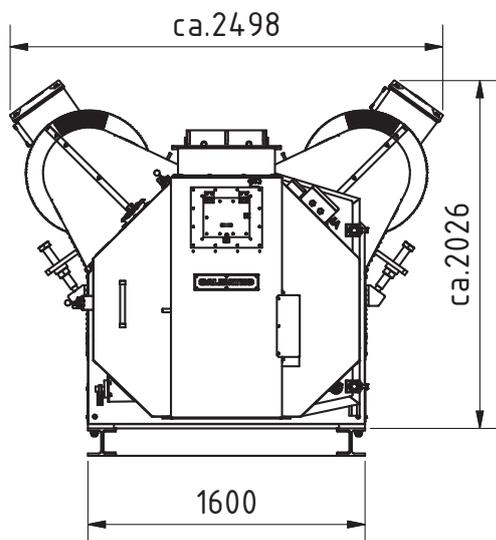
### MAXIMA 360 Mini



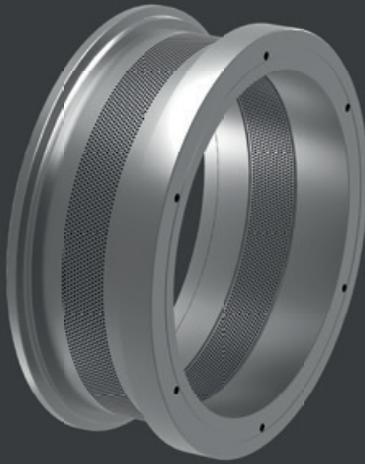
### MAXIMA 450 / MAXIMA 500



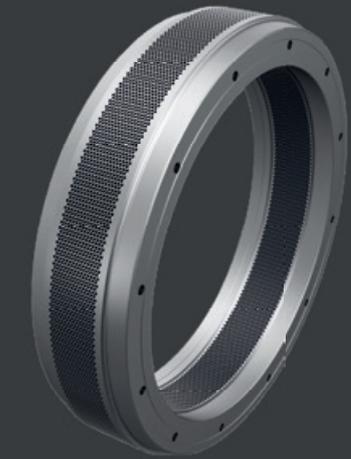
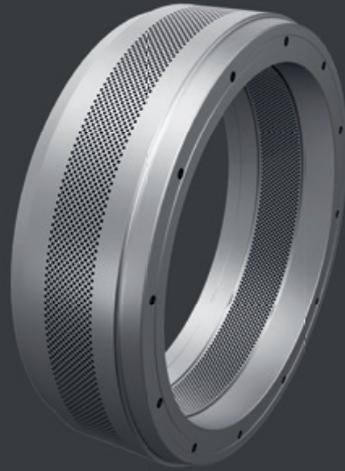
### MAXIMA 620 / MAXIMA 700 / MAXIMA 840



# MAXIMA S-Dies



traditional dies



MAXIMA 840-125S

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.





## CONTACT INFO

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+49 4172 9897-0



[www.salmatec.de](http://www.salmatec.de)  
[info@salmatec.de](mailto:info@salmatec.de)



Hauptstraße 79  
21376 Gödenstorf  
Germany