



PELLETING  
TECHNOLOGY  
NETHERLANDS

## *Roller Mill HE-Serie*



**HIGH EFFICIENCY**  

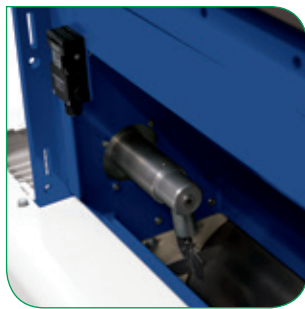

*Specialist in Pelleting equipment*

# Roller Mill HE-Serie

## General

The new PTN Roller Mill series HE is developed to break or structurize various materials, such as grains, oilseeds, biomass products and/or others. Herewith an optimum result and low energy requirements is achieved. An integrated rotating feeder in the top unit ensures an even flow to the breaking/structurizing rollers.

The large diameter axially rifled breaking rollers rotate at different speeds in opposite directions. Using accurate measurement, the large 300 mm structurizing rollers guarantee smaller particles with minimum fines.



## Features

- » Integrated rotating feeder from mild steel with two rotating directions:
  - › one direction to structurizing rollers.
  - › opposite direction by-pass structurizing rollers.
- » 1 electro pneumatically operated bypass flap under the rotating feeder.
- » Solid construction in mild steel.
- » Manual roller adjustment with read-out accuracy 0.1 mm.
- » Solid structurizing rollers made of 'Hartguss' material (5 to 6 time longer lifetime than chrome steel).
- » Oil free transmission by means of double toothed timing belt.
- » Inlet and outlet with flange, inclusive counter flange.

## Options

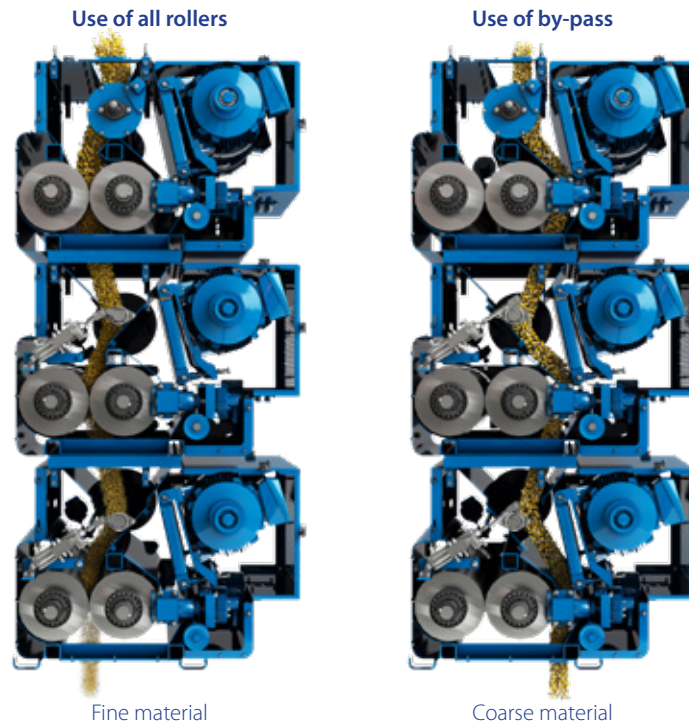
- » An electro-pneumatic operated bypass flap (in the double unit to bypass the lower unit, in the triple unit to respectively bypass the middle or lower unit).
- » Remote roller adjustment, with read-out accuracy 0.01 mm.
- » Available in different finishing standards.

|                            | SINGLE    |            |            | DOUBLE    |            |            | TRIPLE    |            |            |
|----------------------------|-----------|------------|------------|-----------|------------|------------|-----------|------------|------------|
|                            | PRM307-S  | PRM313-S   | PRM318-S   | PRM307-D  | PRM313-D   | PRM318-D   | PRM307-T  | PRM313-T   | PRM318-T   |
| Top unit                   | 1         |            |            | 1         |            |            | 1         |            |            |
| Extra breaking units       | -         |            |            | 1         |            |            | 2         |            |            |
| Inlet (mm)                 | 612 x 142 | 1212 x 142 | 1752 x 142 | 612 x 142 | 1212 x 142 | 1752 x 142 | 612 x 142 | 1212 x 142 | 1752 x 142 |
| Outlet (mm)                | 606 x 477 | 1206 x 477 | 1746 x 477 | 606 x 477 | 1206 x 477 | 1746 x 477 | 606 x 477 | 1206 x 477 | 1746 x 477 |
| Roller working length (mm) | 700       | 1300       | 1840       | 700       | 1300       | 1840       | 700       | 1300       | 1840       |
| Rollers Ø (mm)             | 300       |            |            | 300       |            |            | 300       |            |            |
| Motor (kW)                 | 1x 18,5   | 1 x 37     | 1 x 45     | 2 x 18,5  | 2 x 37     | 2 x 45     | 3 x 18,5  | 3 x 37     | 3 x 45     |
| Capacity (t/h)             | 0 - 10    | 8 - 18     | 15 - 25    | 0 - 20    | 8 - 32     | 15 - 45    | 0 - 28    | 8 - 44     | 15 - 60    |
| Length (mm)                | 1446      | 2136       | 2676       | 1446      | 2136       | 2676       | 1466      | 2136       | 2676       |
| Width (mm)                 | 1366      | 1366       | 1366       | 1366      | 1366       | 1366       | 1366      | 1366       | 1366       |
| Height (mm)                | 875       | 875        | 875        | 1750      | 1750       | 1750       | 2625      | 2625       | 2625       |

*\*data may change without prior notification*

## Top Unit

The top unit consists of a rotating feeder, to be controlled by frequency converter, which can rotate in two directions. One rotating direction of the feeder is to the two breaking rollers. The opposite direction is the bypass function. Driven by electric motor, with V-belt transmission on the motor side. A double toothed timing belt connects both rollers on the other side. Sensor for speed control of structure roller transmission.



*The coarse material can be transported through 1,2 or 3 pairs of rollers, each pair with different ruffles. This is completely flexible so the fineness of structurizing can be controlled completely.*

## Extra units

The top unit can be extended with one or two extra breaking/structurizing units, each consisting of two solid structurizing rollers. This ensures an optimum structurizing result.

# High Efficiency Line

## General

The development of our new High Efficiency (HE) line concentrates not only on higher performances and a more hygienic design but also to lower energy consumption. The new HE line gives excellent access to all maintenance areas. With this HE line PTN takes a new step forward.

## Advantages

- » More capacity at same energy level.
- » Possibility of capacity increase due to modular design.
- » Frequency controlled dual rotation feeder (by-pass function), frequency converter not included.
- » Even distribution of the product to the entire working length of the breaking/structurizing rollers.
- » Simple adjustment of the breaking/structurizing gap.
- » Rollers are easily exchangeable from the front and the sides.
- » 50% more revision options of the rollers.
- » Easy access for cleaning and maintenance.

**HIGH EFFICIENCY**

F E E D E R   S C R E W

C O N D I T I O N E R

T C S - R T B

B O A   C O M P A C T O R

P E L L E T   M I L L

C O O L E R

C R U M B L E R

R O T O R   S I F T E R



PTN produces and develops high-quality, reliable machines. It strives to provide its customers with the following benefits through its products:

- » Higher yields.
- » Lower energy consumption.
- » Low maintenance requirements.
- » Access to state-of-the-art technology.

As a globally operating, specialized manufacturer of pelletisers and related machinery it is our ambition to expand to become the most respected professional OEM (Original Equipment Manufacturer).

Our strategy for achieving this ambition is to:

- » Expand and consolidate the global network of professional sales and service points.
- » Create a virtual and real image of professionalism, quality and innovation as well as a high level of standardisation and digital accessibility for strategic partners.
- » Transform technology, know-how and competences into technical and commercial added value.
- » Generate stable growth in sales and profit.



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