

# Granulators

AVAILABLE  
CUSTOM  
MADE

## Range of models

DEAGGLOMERATION OF BULK MATERIALS  
AND IQF FOOD PRODUCTS

### DESCRIP

The purpose of the granulator is to break up agglomerated bulk materials for improved flow characteristics. The rotating paddle assembly break up lumps by forcing them through a sizing screen.

They are also used as a precursor to fine milling equipment for the "pre-breaking" of larger products for better efficiency on milling equipment downstream.

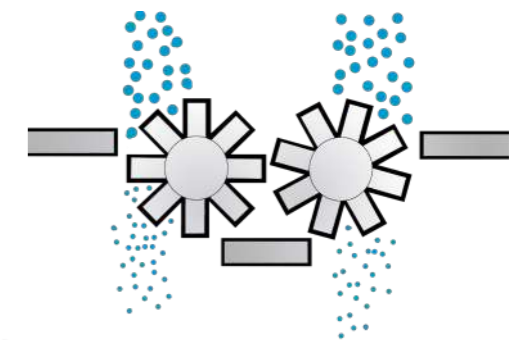
PALAMATIC PROCESS granulators can be installed on several types of unloading or storage equipment, such as: bulk bag unloaders, bag dump stations, hoppers, silos, etc.

Granulators can be installed on new or existing equipment. Our design office will work with your team to ensure the correct integration on your manufacturing line.

### PRINCIPLE OF OPERATION

The granulator consists of three or four chamfered paddles or scrapper blades that are mounted on the radius of a 90° drive shaft. When lumps encounter the spinning blades, they are pressed against the sizing screen. The size of the screen is defined based on the product application. Standard mesh sizes include 5x5, 10x10, 30x30 and 50x50 mm.

Depending on the material, removeable bars can be installed to provide a pre-breaking of the lumps. The granulator can be installed length-wise to allow for a high flow rate.



Granulator GR35 fitted with 3 interchangeable grids according to the materials to be treated

### Option



**Pre-crushing bars**  
for extremely caked  
products with high  
hardness level



Models	GR20	GR35	GR50	GR70
Flange dimensions*	8" X 8"	8" X 17.75"	11.75" X 25.5"	15.75" X 35.5"
Theoretical flow rate (FT <sup>3</sup> /HR)	1.18	1.75	5.89	8.83

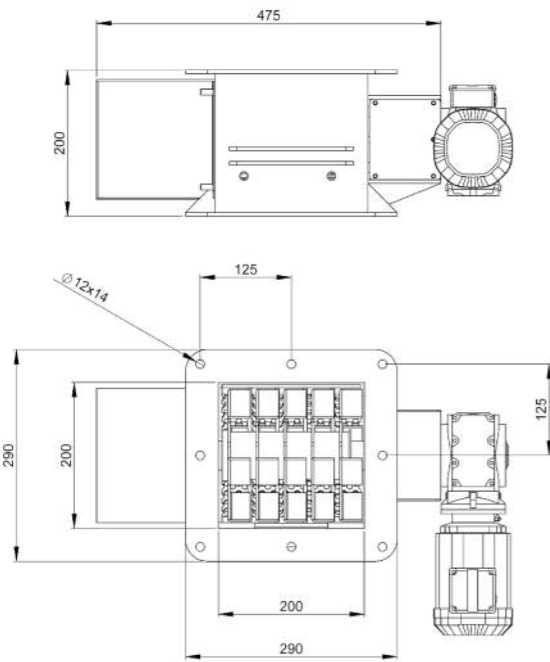
Due to its robust design and proven history across various applications, the granulator offers reliable deagglomeration performance.

Designed to offer high mechanical resistance, the Palamatic Process granulator can offer both safe and efficient operation. Due to its design, the industrial pre-breaker is easy to maintain and clean which eliminates the risk of cross contamination.

PALAMATIC PROCESS granulators are available in painted carbon steel and 304L or 316L stainless steel. The machine can be adapted to meet the requirement of each industrial process.

4 standard models:  
GR20 - GR35 - GR50 - GR70

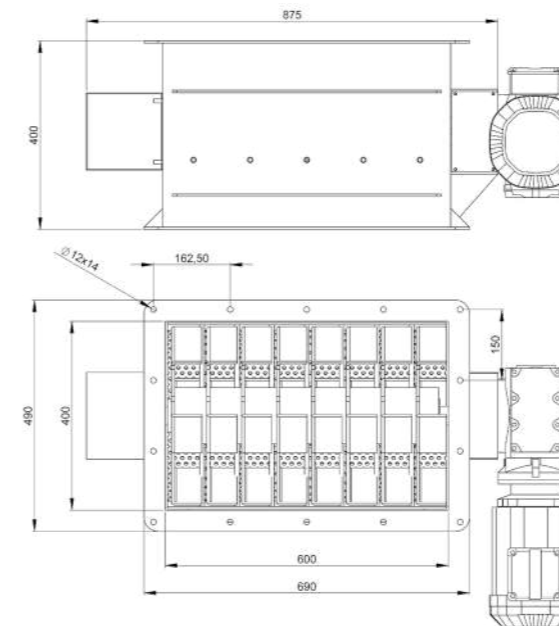
## ▶ GRANULATOR GR20



GR20

Models	GR20
Flange dimensions	8" X 8"
Theoretical flow rate FT <sup>3</sup> /HR	1.18
Motor power HP	3
RPM	30

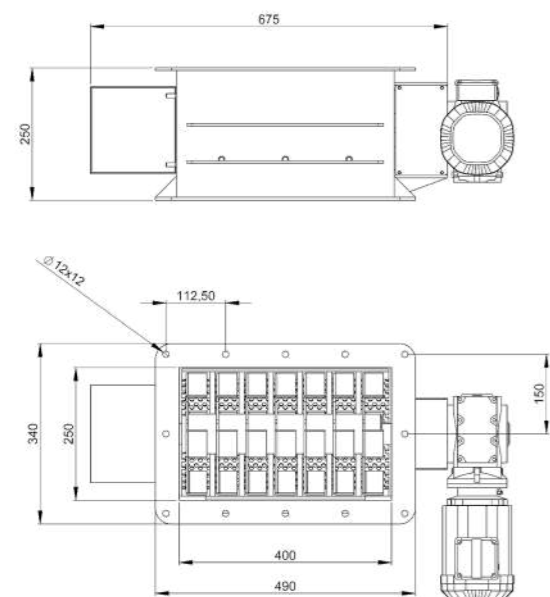
## ▶ GRANULATOR GR50



GR50

Models	GR50
Flange dimensions	11.75" X 25.5"
Theoretical flow rate FT <sup>3</sup> /HR	5.89
Motor power HP	7.25
RPM	20

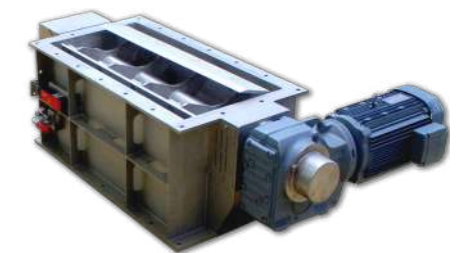
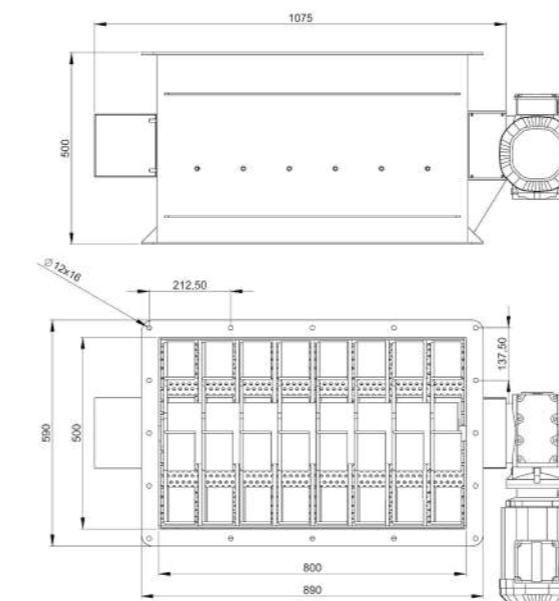
## ▶ GRANULATOR GR35



GR35

Models	GR35
Flange dimensions	8" X 17.75"
Theoretical flow rate FT <sup>3</sup> /HR	1.75
Motor power HP	4.5
RPM	30

## ▶ GRANULATOR GR70



GR70

Models	GR70
Flange dimensions	15.75" X 35.5"
Theoretical flow rate FT <sup>3</sup> /HR	8.83
Motor power HP	10
RPM	15