Translation of the original declaration

EC-Declaration of Conformity

The company

NEUE HERBOLD
Maschinen- und Anlagenbau GmbH
Wiesenstrasse 44
74889 Sinsheim/Reihen
Germany

hereby confirm that the

Machine:	Granulator
Type of machine:	LM 450/600-S5-2
Serial number:	23596
Order number:	62544.0 STADLER GmbH

is in accordance with the relevant harmonized regulation directives of the community:

- Machinery directive 2006/42/EC
- EMV-directive 2004/108/EC

In accordance to annexe II 1 A of the machinery directive 2006/42/EC, have the protective intentions of the low voltage directive 2006/95/EC have been observed.

The authorized person for the compilation of the technical documentation in terms of the machinery directive is: Mr. Ulrich Hambrock

This declaration is no longer valid if the machine is modified without our consent.

Date: 20.06.2014 Signature (Manufacturer): _____

P. Abraham
(Managing Director)

www.neue-herbold.com

NEUE HERBOLD .com
Maschinen und Anlagenbau GmbH

Operation manual

Granulator LM 450/600-S5-2

LM	Granulator, light duty series
450	Rotor diameter in mm
600	Rotor length in mm
S	Rotor design
5	Number of rotor knife rows
2	Number of bed knife rows

Customer:	STADLER GmbH
Order no.:	62544.0
Machine no.:	23596
Year of construction:	2014

Attention: This granulator is not suited for the size reduction of metal and / or mineral materials!

Please keep this operation manual at the site of application and read before commissioning the machine!

Issue date: 20.06.2014

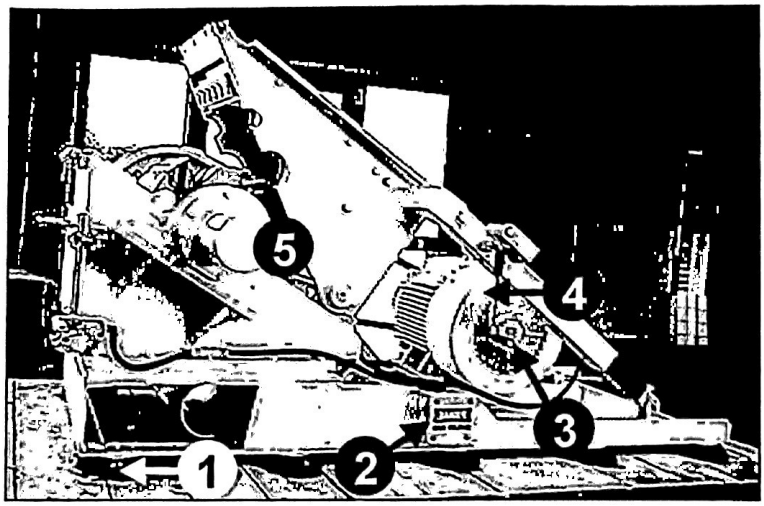
2 TECHNICAL DATA

Rotor dimensions:	Diameter in mm: Width of cut in mm:	450 600
Rotor knives:	No.:	5
Bed knives:	No.:	2
"V"-belt pulley Drive (Motor):	Diameter in mm: No. of grooves: Profile: Mounting:	250 5 SPC TL 3535
"V"-belt pulley Output drive (Granulator):	Diameter in mm: No. of grooves: Profile: Mounting:	560 5 SPC TL 4545
"V"- belts:	Length in mm: Profile: No.:	3550 SPC 5
Drive motor:	Power in kW: Make: Speed in min^{-1}: Voltage in V: Frequency in Hz: Design: Protection:	45 AC-Motore 1500 400 50 B3 IP54
Screen:	Material: Holes in mm: Thickness in mm:	St52-3 10 6
Machine weight:	Weight in kg	approx. 2800

4.2 Base frame

Illustration:

(1) Mouting pad
(2) Terminal box
(3) Hand winch
(4) Drive motor
(5) Granulator



The granulator, the suction trough, the drive motor, the hand winch and the terminal box for the electrical connections are mounted on the base frame. The base frame is equipped with a sufficient number of vibration and noise muffling mounting pads, which also exhibit holes for mounting onto the installation station.

4.3 Drive

The drive of the rotor ensues by means of an electric motor via "V"-belts. The motor, which is mounted on sliding rails or a motor plate, can be adjusted for regulating the tension of the "V"-belts by means of tensioning screws. The "V"-belt pulley is attached with a special tensioning element to the motor shaft.

Please observe the operation manual from the manufacturer!

4.4 Granulator upper section

Illustration:
Granulator upper section (opened)

(1) Hydraulic hand pump

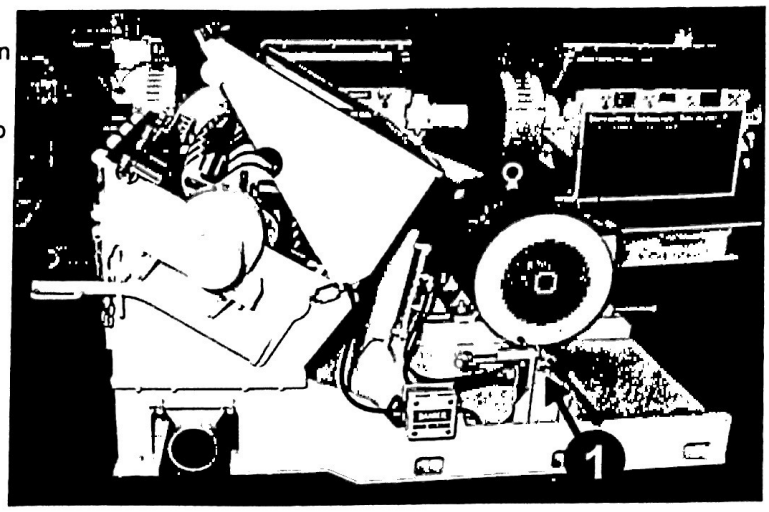
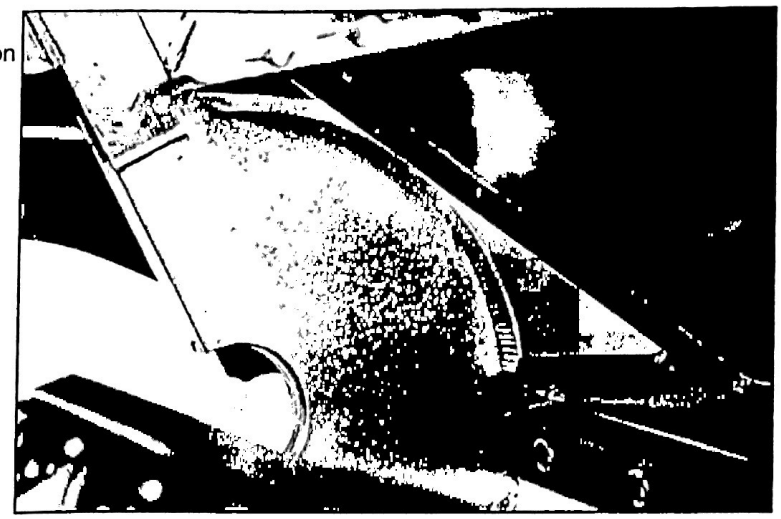


Illustration:
Granulator upper section (opened)

Anti-winding device



The granulator upper section can be opened or pivoted upwards for maintenance work and for cleaning. It is connected with the granulator lower section by means of a joint. Opening and closing ensues by means of a hand winch. The infeed hopper mounted on the granulator upper section pivots with the granulator upper section.
In addition, an anti-winding device is also integrated on the granulator upper section. This prevents foil strips, for example, becoming wrapped around the rotor axis and thus causing operational faults.

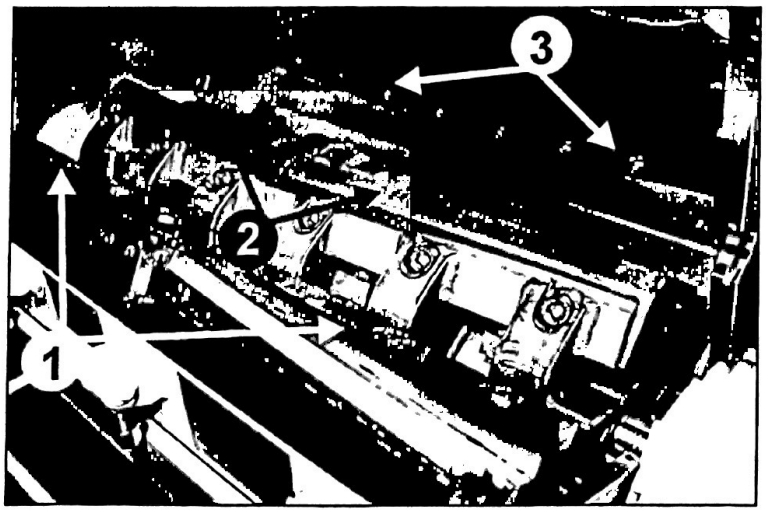
4.5 Granulator lower section

The granulator lower section and the drive are mounted onto the base frame. The rotor is arranged on bearings in the granulator lower section. The bearings lie outside the grinding chamber and are sufficiently sealed off against penetrating dirt. The bed and block knives which are installed in the granulator lower section are easily accessible and simple to install and dismantle. The ground material falls through a screen into the suction trough mounted underneath the rotor and can be sucked off from there.

4.5.1 Rotor, cutting knife and deflection wedge (optional granulator type SM)

Illustration:

(1) 2 Bed knives
(2) 2 Rotor knives
(3) 2 Block knives



The grinding material is ground between the rotating rotor knives and the bed knives which are fixed securely onto the granulator lower section.

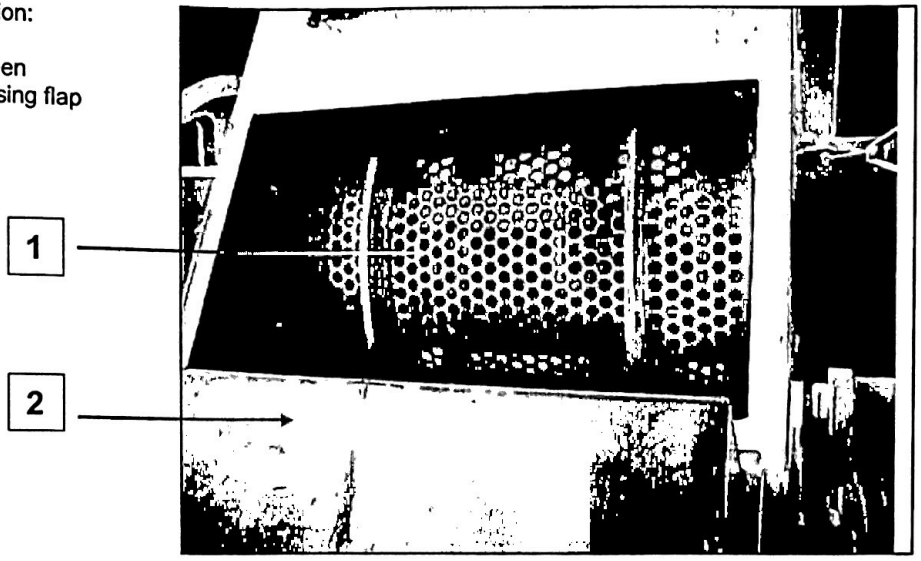
The design of the rotor has a significant influence on the quality of the grinding process and it's results. The rotor construction, the type of knife mounting and the number of knives have all been exactly matched to your task allocation.

The rotor is arranged on roller bearings, which are situated outside the housing. The "V"-belt pulley is attached by means of a DOKO tensioning element to the rotor axis. The rotor is dynamically counter balanced and has vibration-free concentricity. The rotor is accessible after opening the granulator upper section.

4.5.2 Screen

Illustration:

(1) Screen
(2) Housing flap



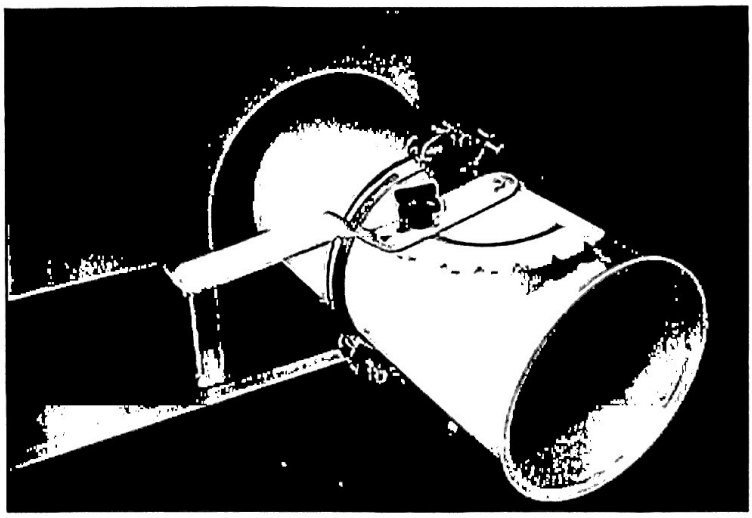
The assembled screen lies on discs which are attached on both sides to the side walls inside the granulator lower section. This discs do also align the position of the screen with the rotor.

The screen is slightly larger in it's radius than the cutting circle of the rotor knife. The screen perforation is selected according to the desired grain size of the grinding material. All grinding material parts which are smaller than the screen perforation fall through the screen into the suction trough. The screen is replaceable and can be pulled out towards the top after having opened the granulator upper section.

4.6 Discharge of grinding material

Illustration:

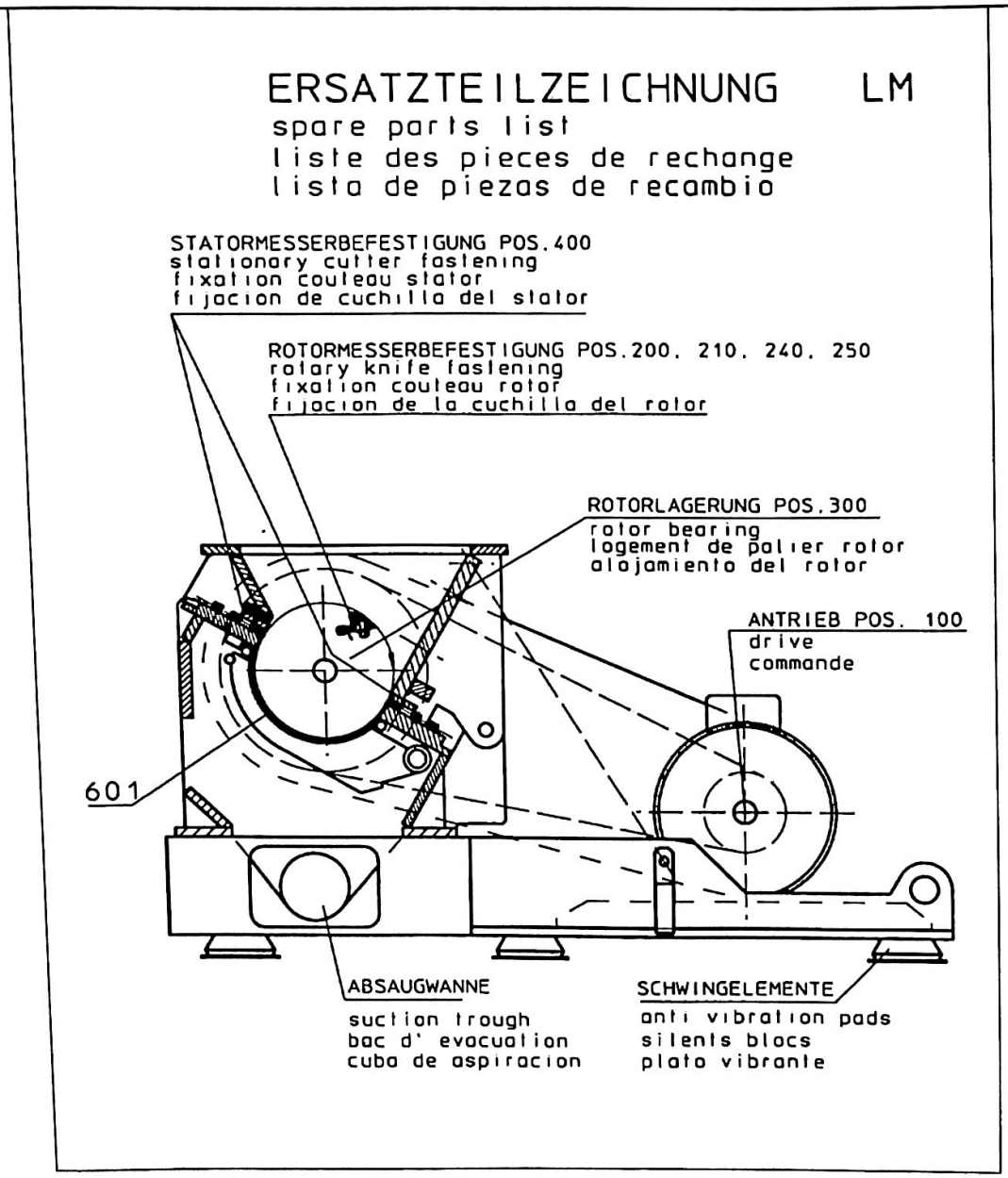
By-pass flap with air regulating flap



The ground material is sucked off by means of a blower (accessories) out of the suction trough of the granulator. During this process, air is sucked through the infeed hopper of the granulator and drawn through the grinding chamber. At the same time, the grinding chamber and the grinding material are cooled. In addition, a partial air current is sucked in through the by-pass flap which is located on the suction trough. This air current can be regulated with the help of an air regulating flap mounted here.

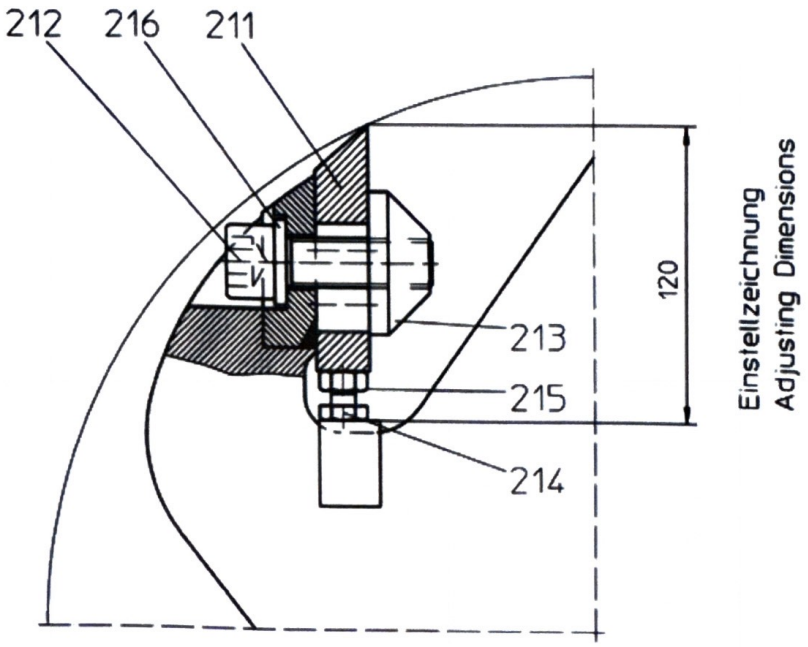
If a material blower is installed in your plant configuration, please observe the additional information for work with and on the material blower.

Illustration: *Spare parts drawing LM*



ROTORMESSERBEFESTIGUNG S - POS. 210

rotary cutter
couteau rotor
cuchilla del rotor
fissaggio lama rotore



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MB-S

Illustration: *Rotor bearing* ***POS. 300***