

GRS 180 /
GRS 300

Better slanted,
well-trying thousand fold

GRS 180 / GRS 300



GRS 180 – A x.x.x
GRS 300

Frame	_____
Suction box	_____
Trichter	_____

Technical datas:

Rotor cutting circle:	180/300 mm
Cutting length:	75/125 mm
Drive power:	2,2 – 5,5 kW
Throughput:	up to 38/80 kg/h

GRS 180 / GRS 300

Devided cutting chamber

- Easy screen removal
- Cutting chamber opens without tools
- Fast, economical cleaning

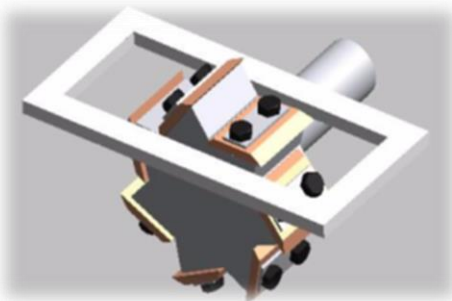


GRS 180 / GRS 300

Nearly insatiable

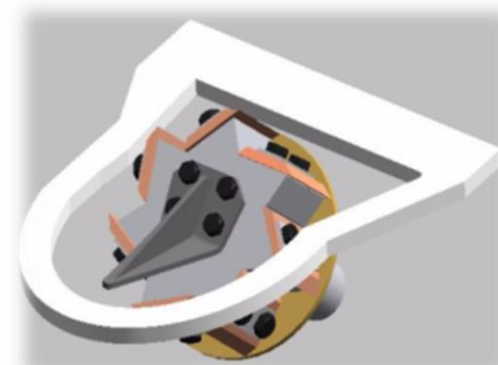
- Large cutting chamber opening
- Starts when the hopper is full

Competitor



horizontal mounted rotor

GETECHA

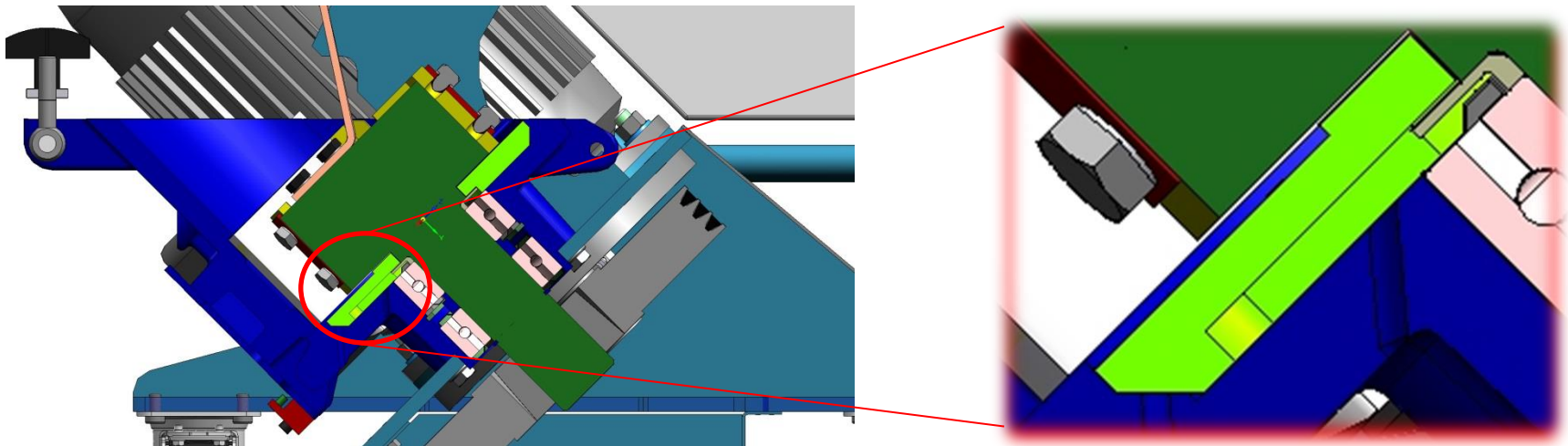


inclined mounted rotor

GRS 180 / GRS 300

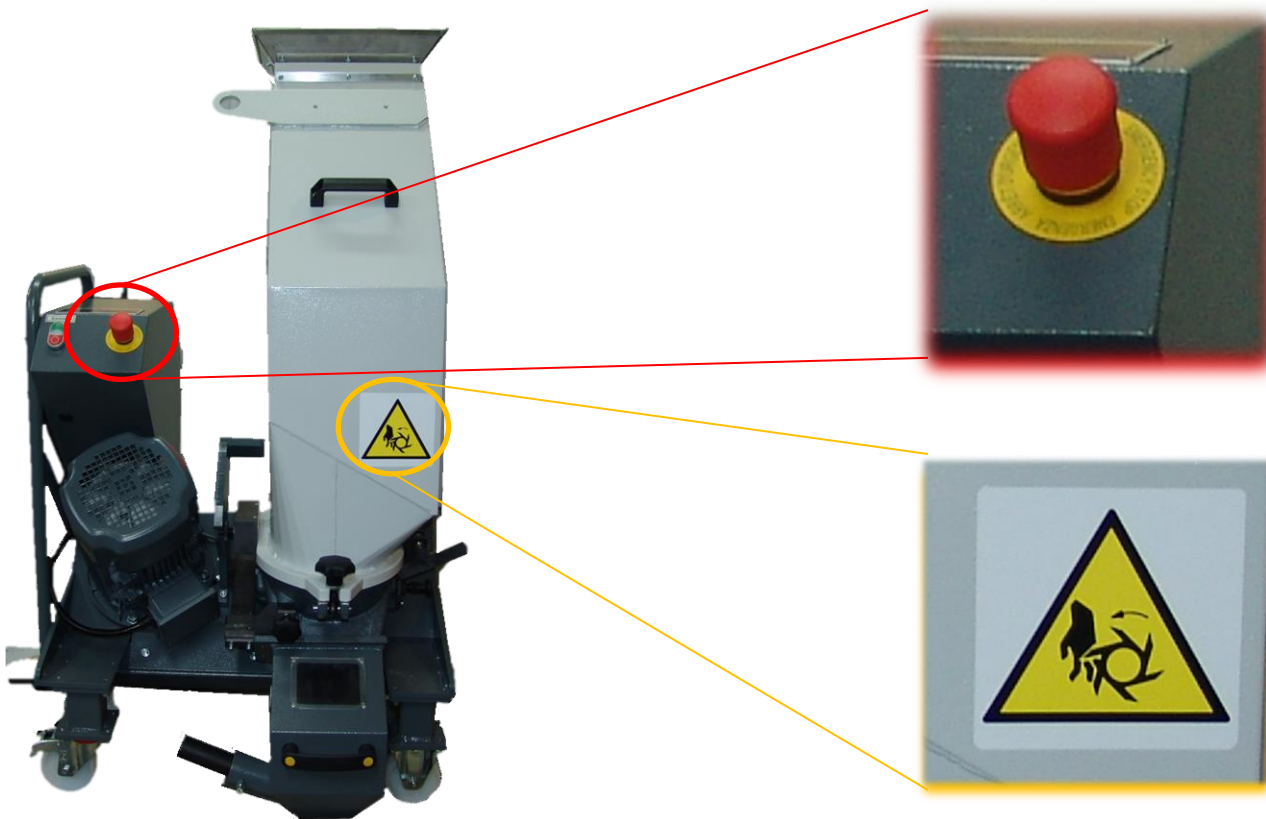
Self-cleaning steel plate

- Low fines
- Wear-proof hardened
- Easy to clean



GRS 180 / GRS 300

Sophisticated safety engineering



GRS 180 / GRS 300

Sophisticated safety engineering



GRS 180 / GRS 300

Sophisticated safety engineering



GRS 180 / GRS 300

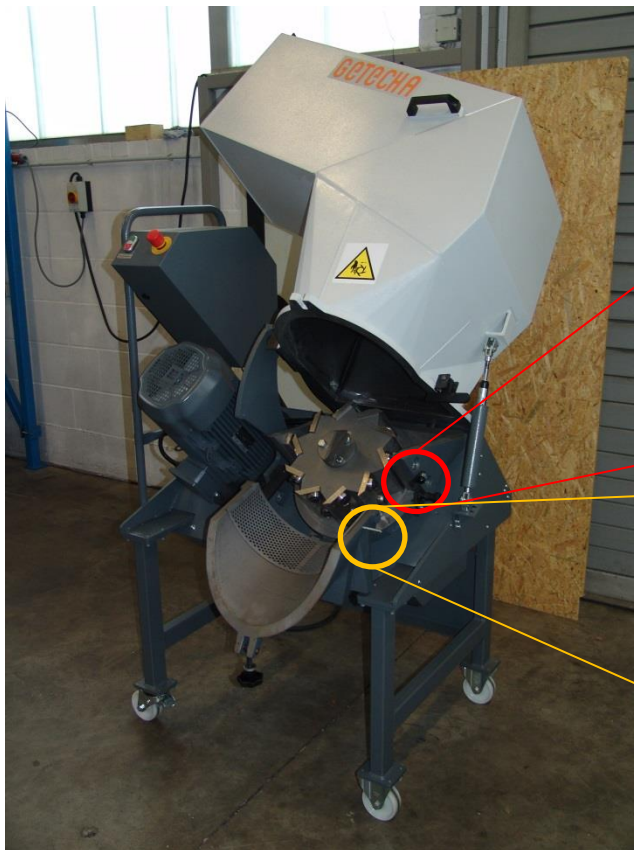
Sophisticated safety engineering



(Standard only on the GRS 300)

GRS 180 / GRS 300

Sophisticated safety engineering



(Standard only on the GRS 300)

GRS 180 / GRS 300

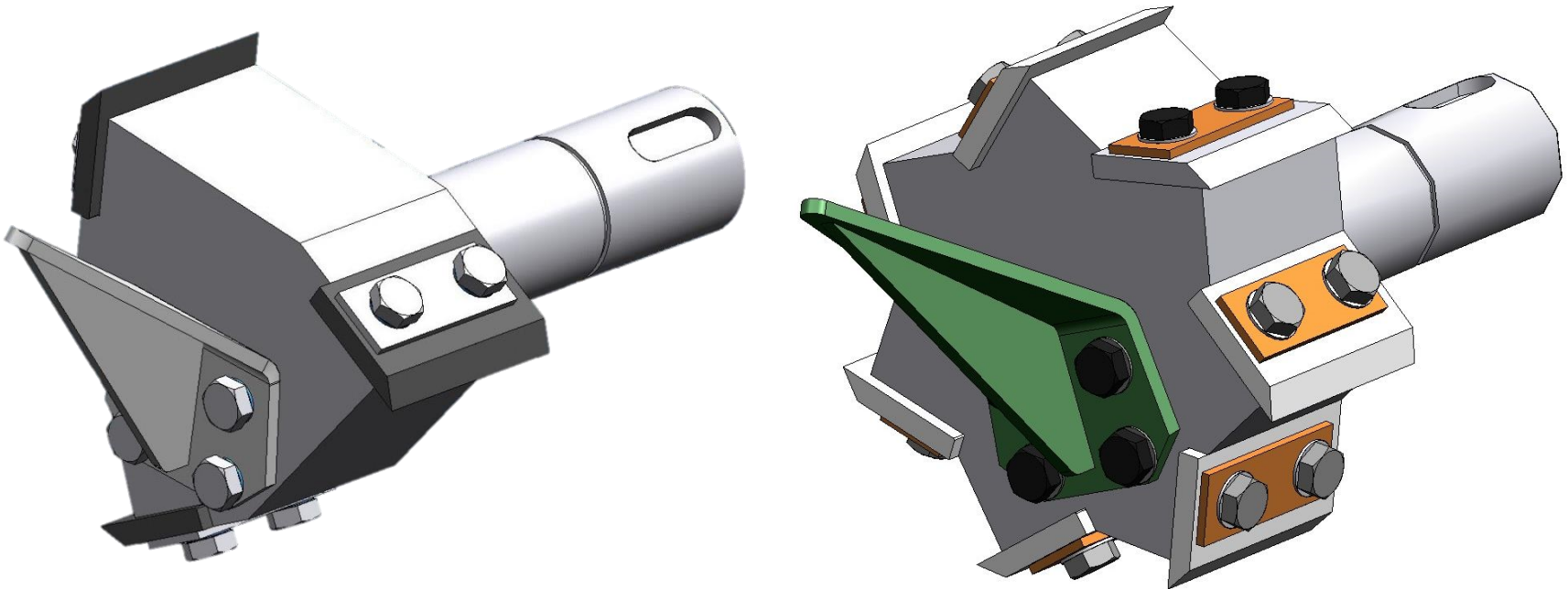
Be request and nevertheless standard

- Various rotor variants and wear-protection
- Hopper, frame or material container tailored to your production
- Optional water cooling or filling level monitoring



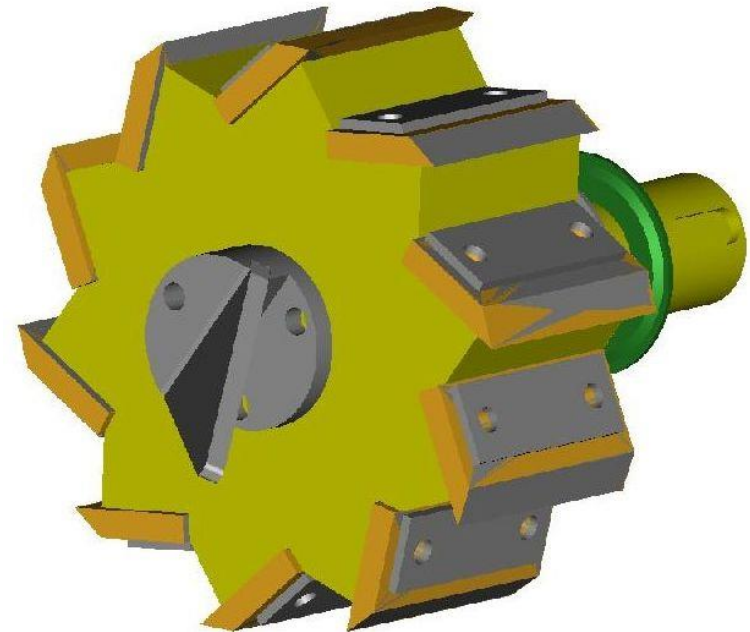
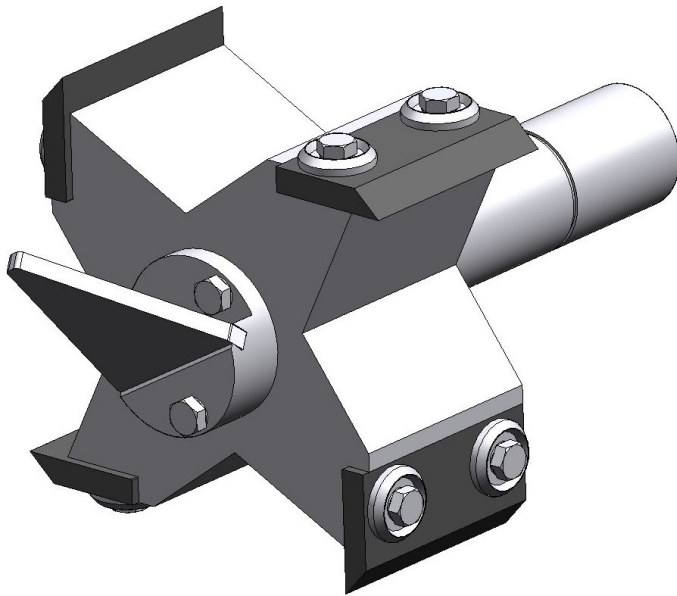
GRS 180 / GRS 300

Rotors of the GRS 180



GRS 180 / GRS 300

Rotors of the GRS 300



GRS 180 / GRS 300

GRS 180/300 Wear and tear package

- Wear and tear package

consisting of:

1. Screen nitrocarburised
2. Hardened pre-cutter



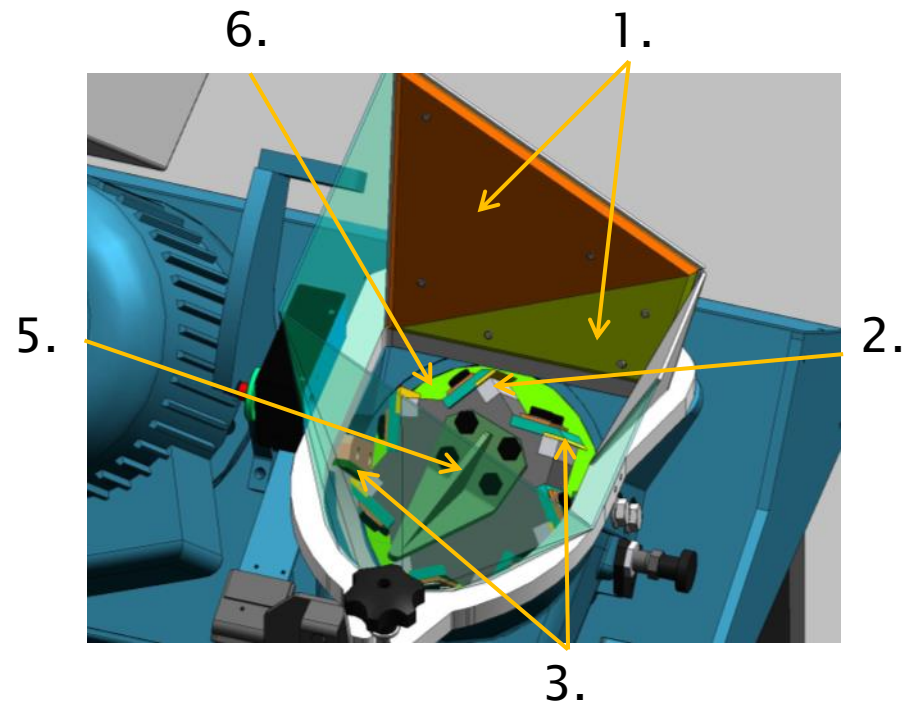
GRS 180 / GRS 300

GRS 180/300 Wear and tear package

- Extended wear and tear package

consisting of:

1. Wear and tear proofed plates in the hopper (exchangeable)
2. Wear rails underneath the rotary blades
3. Rotary and stationary blades with hard metal insert
4. Screen, wear and tear proofed
5. Pre-cutter, wear and tear proofed
6. Hardened steel plate

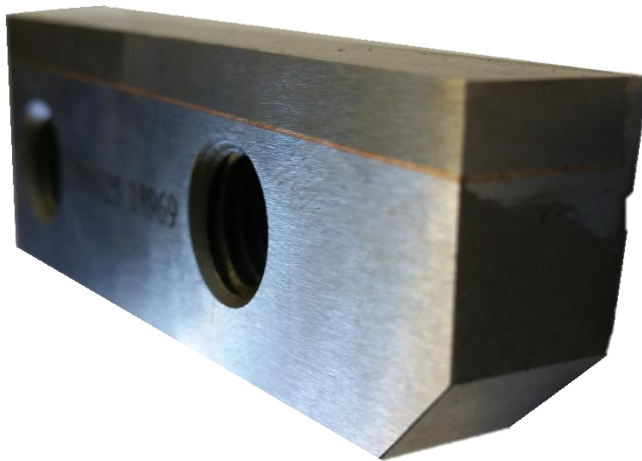


GRS 180 / GRS 300

GRS 180/300 Wear and tear package

- Blades with carbide insert

stationary blade



rotory blade



GRS 180 / GRS 300

Different hopper, frames and material container

Basic machine GRS 180

All prices in Euro!

valid from: 1 October 2015

last amendment: 1 October 2015

The prices are valid for machines with hopper versions 1 or 2.

Hopper version 2 is not available for frame versions 1, 3, 4 or 5 (due to existing safety regulations!)

Nomenclature

A

1.

1.

1.

= frame

= suction box

= hopper

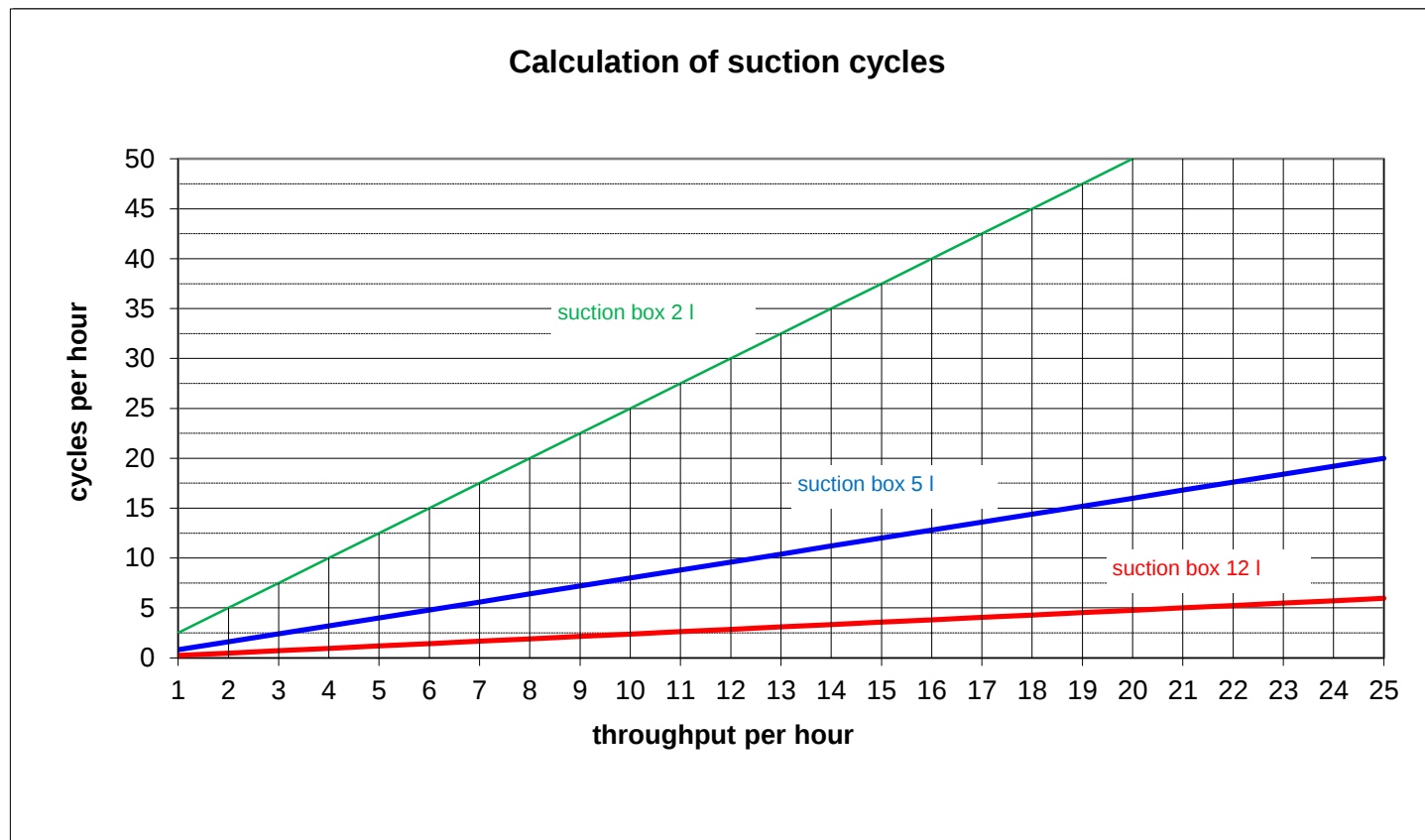
A 0000x = customized designs

			suction box versions									
			suction box standard 2 l / left	drum fill discharge	suction box enlarged 12 l / left	suction box standard 2 l / front	suction box with overflow 1 l / left	suction box with connection for blower	suction box enlarged 12 l / front	suction box enlarged 12 l / back	suction box with overflow 1 l / front	suction box enlarged 5 l / left
			1	2	3	4	5	6	7	8	9	10
frame versions	low built	1	A 1.1.x 4.710	not possible		A 1.4.x 4.805	not possible					
	high built (475 mm) for bagging or with overflow	2	A 2.1.x 4.894	A 2.2.x 4.851	A 2.3.x 5.166	A 2.4.x 4.989	A 2.5.x 4.989	A 2.6.x 5.132	A 2.7.x 5.261	A 2.8.x 5.261	A 2.9.x 5.084	A 2.10.x 4.946
	high built (250 mm) for suction box 3, 8, 9 and 10	3	A 3.1.x 4.838	A 3.2.x 4.795	A 3.3.x 5.110	A 3.4.x 4.933	A 3.5.x 4.933	A 3.6.x 5.076	A 3.7.x 5.205	A 3.8.x 5.205	A 3.9.x 5.028	A 3.10.x 4.890
	high built (10 mm) for integrated suction unit	4	not possible					A 4.6.x 7.528	not possible			
	high built (100 mm) for suction box 10	5	A 5.1.x 4.838	not possible		A 5.4.x 4.933	not possible	A 5.6.x 5.076	not possible			A 5.10.x 4.890

A 1.1.x = machine version
4.570 = price in Euro

GRS 180 / GRS 300

Suction cycles GRS 180



GRS 180 / GRS 300

Different hopper, frames and material container

Basic machine GRS 300

All prices in Euro!

valid from: 1 October 2015

last amendment: 1 October 2015

The prices are valid for machines with hopper versions 1 or 2.

Hopper version 2 is not available for frame version 1, 3 or 4 (due to existing safety regulations!)

Nomenclature

A

1.

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= frame

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A 0000x

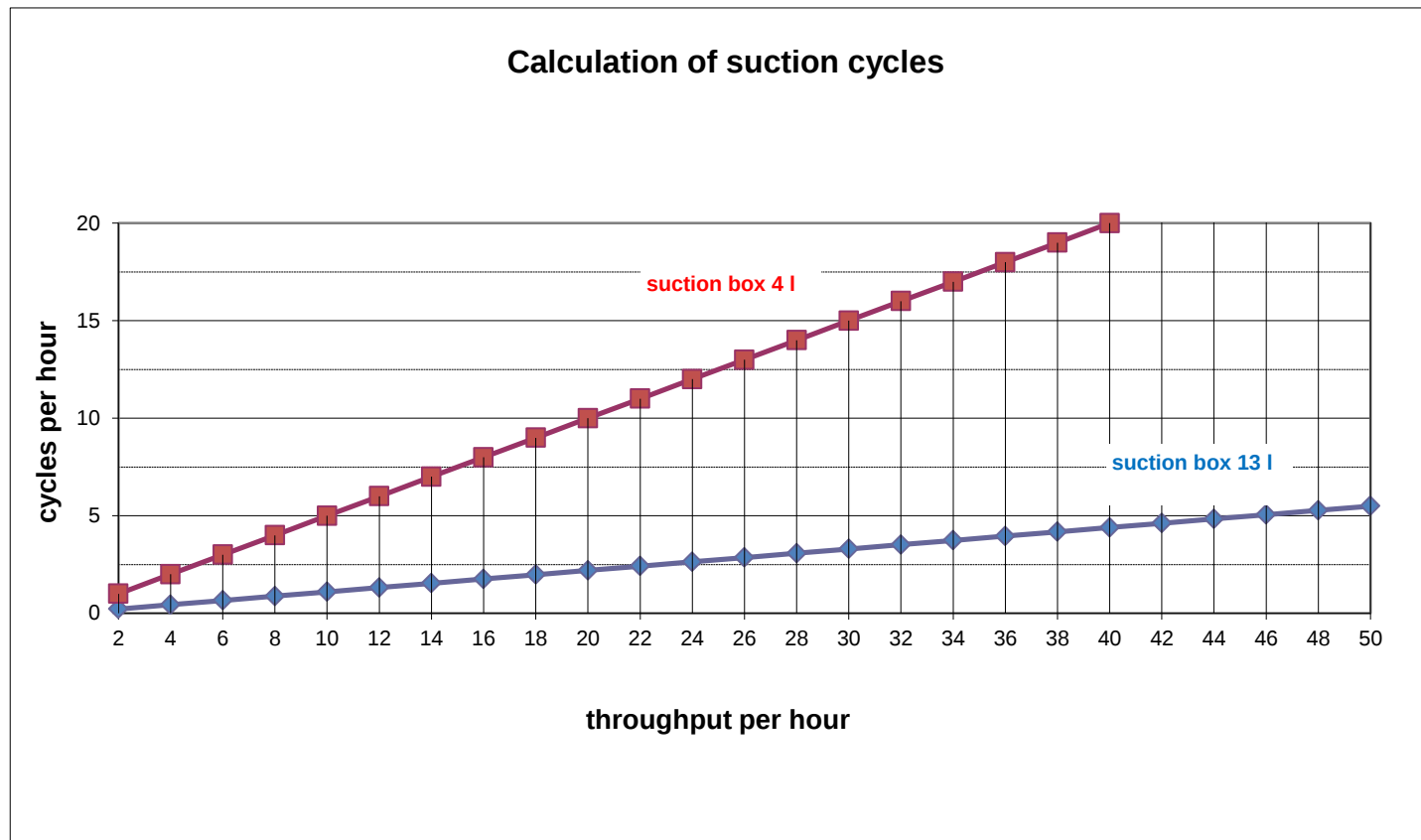
= customized designs

			suction box versions						
			suction box standard 4 l/ left	drum fill discharge	suction box enlarged 13 l/ left	suction box standard 4 l/ front	suction box with overflow 3 l/ left	suction box with connection for blower	suction box enlarged 13 l/ front
			1	2	3	4	5	6	7
frame versions	low built	1	A 1.1.x 8.200	not possible		A 1.4.x 8.295	not possible		
	high built (500 mm) for bagging or with overflow	2	A 2.1.x 8.405	A 2.2.x 8.346	A 2.3.x 8.687	A 2.4.x 8.500	A 2.5.x 8.505	A 2.6.x 8.655	A 2.7.x 8.782
	high built (250 mm) for suction box 1, 3 and 6	3	A 3.1.x 8.328	A 3.2.x 8.269	A 3.3.x 8.610	A 3.4.x 8.423	A 3.5.x 8.428	A 3.6.x 8.578	A 3.7.x 8.705
	high built (10 mm) for integrated suction unit	4	not possible						A 4.6.x 11.030 not possible

A 1.1.x = machine version
7.720 = price in EURO

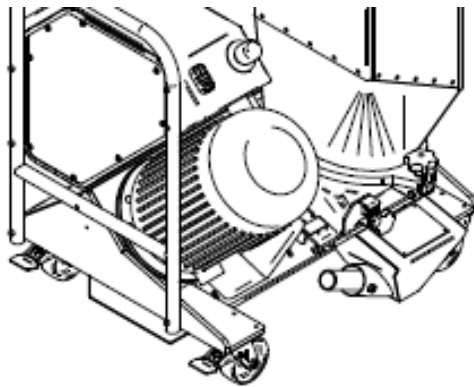
GRS 180 / GRS 300

Suction cycles GRS 180

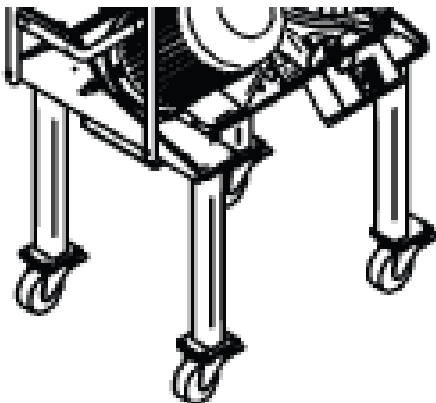


GRS 180 / GRS 300

Different frames



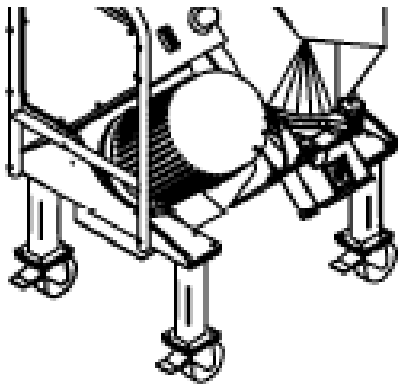
- 1.x.x
low built for
GRS 180 -> 2 l
GRS 300 -> 4 l
standard suction box



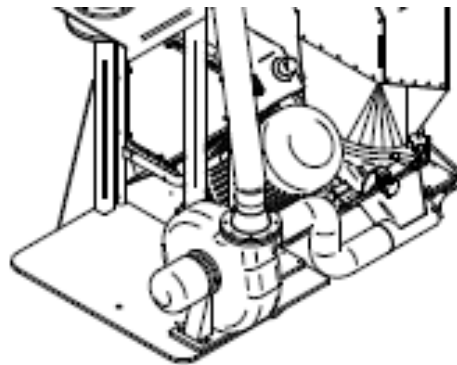
- 2.x.x
high built
GRS 180 -> (475 mm)
GRS 300 -> (500 mm)
for bagging or with
overflow

GRS 180 / GRS 300

Different frames



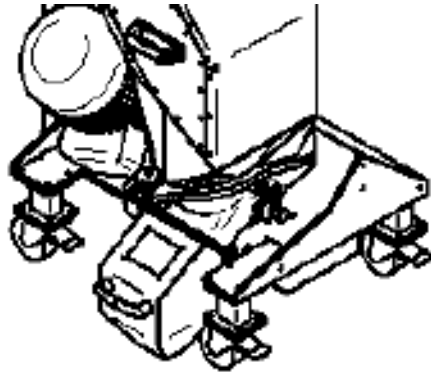
- 3.x.x
high built (250 mm)
for bigger suction box



- 4.x.x
for integrated suction
unit (10 mm)

GRS 180 / GRS 300

Different frames



- 5.x.x
high built (100 mm)
for suction box 5 l
(only for GRS 180)

GRS 180 / GRS 300

Different suction boxes



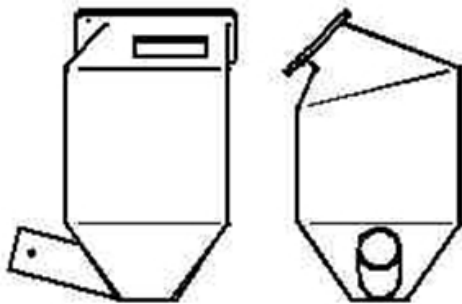
- x.1.x
suction to the left
volume GRS 180 = 2 l
volume GRS 300 = 4 l



- x.2.x
drumfill discharge

GRS 180 / GRS 300

Different suction boxes



- x.3.x
enlarged
suction to the left
Volume GRS 180 = 12 l
Volume GRS 300 = 13 l



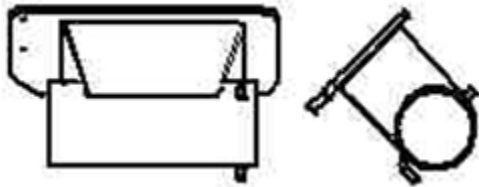
- x.4.x
suction to the front
volume GRS 180 = 2 l
volume GRS 300 = 4 l

GRS 180 / GRS 300

Different suction boxes



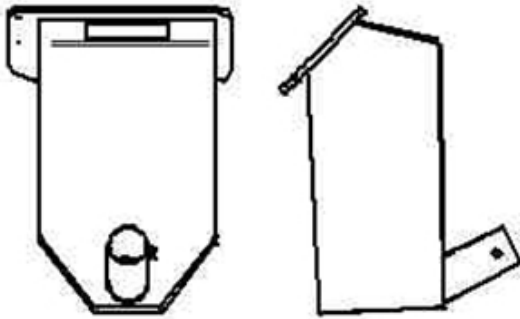
- x.5.x
with overflow
suction to the left
volume GRS 180 = 1 l
volume GRS 300 = 3 l



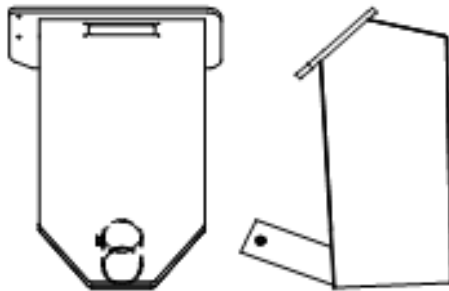
- x.6.x
for blower

GRS 180 / GRS 300

Different suction boxes



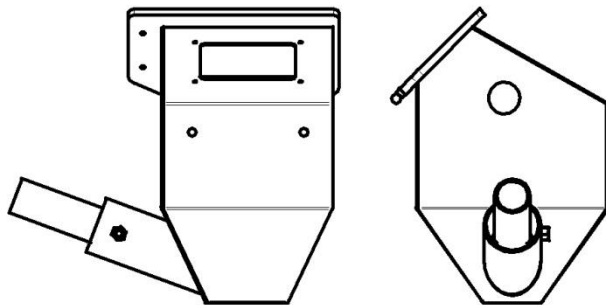
- x.7.x
enlarged
suction to the front
volume GRS 180 = 12 l
volume GRS 300 = 13 l



- x.8.x
enlarged
suction to the back
volume GRS 180 = 12 l
volume GRS 300 = 13 l

GRS 180 / GRS 300

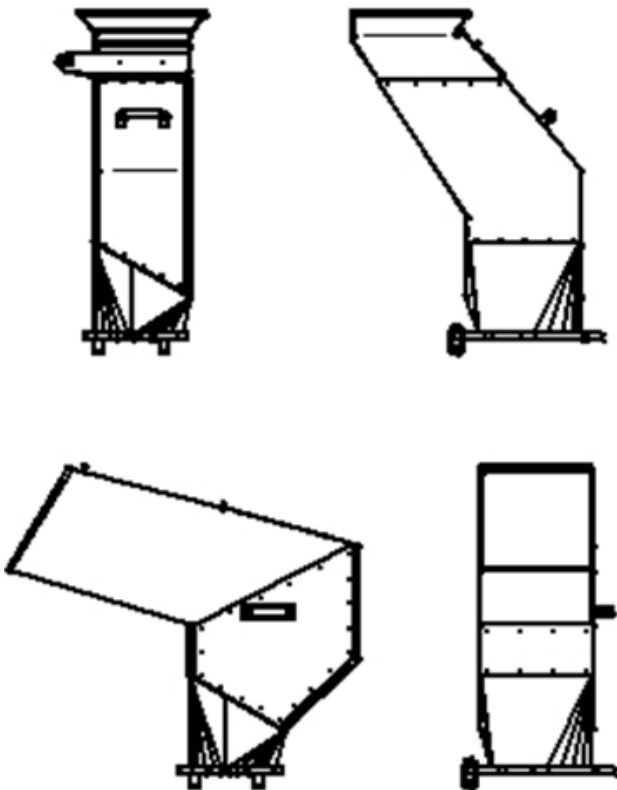
Different suction boxes



- x.9.x
with overflow
suction to the front
(Has not been executed yet)
- x.10.x
enlarged
suction to the left
volume GRS 180 = 5 l
volume GRS 300 = 13 l

GRS 180 / GRS 300

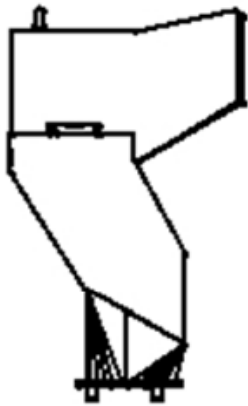
Different hopper



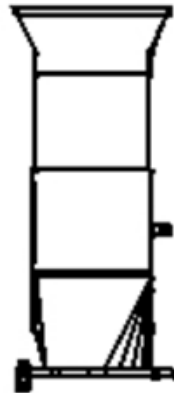
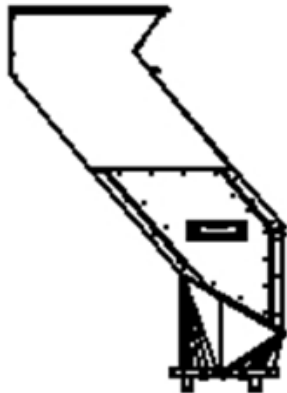
- x.x.1
open at the top for
feeding by hand or by
sprue picker
- x.x.2
sideways feeding by
hand (recommended
für high built
versions)

GRS 180 / GRS 300

Different hopper



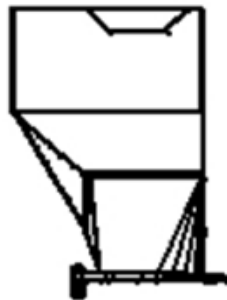
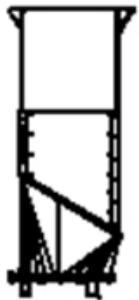
- x.x.3
belt conveyor hopper
with chute



- x.x.4
open at the top with
enlarged feed
opening by hand or
by sprue picker

GRS 180 / GRS 300

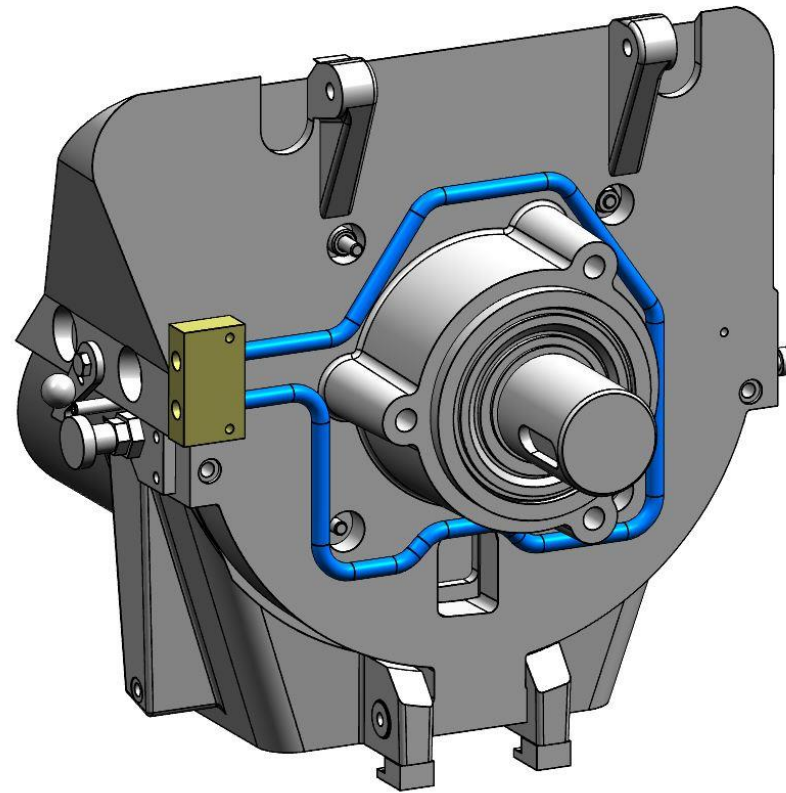
Different hopper



- x.x.5
low built hopper
version for separating
drum or belt conveyor
*(Standard only for
GRS 180)*

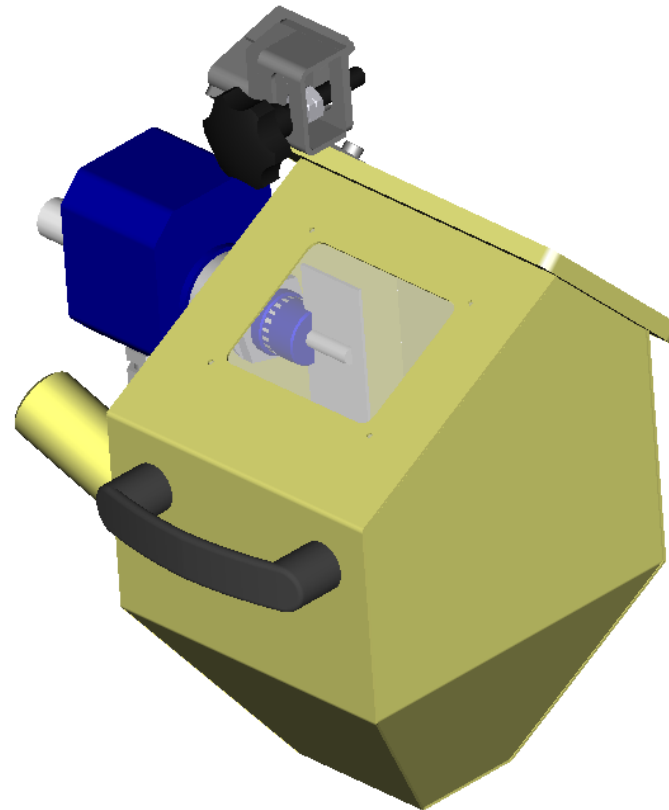
GRS 180 / GRS 300

Water cooling



GRS 180 / GRS 300

Level measuring switch – rotary wing



GRS 180 / GRS 300

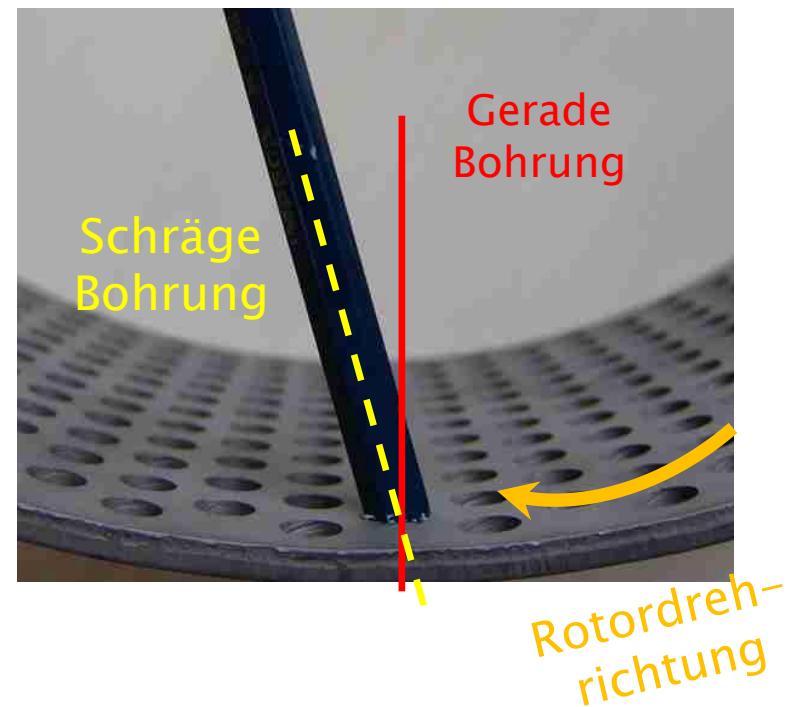
Problem: Long parts in regrind

- When granulating sprues or other applications where long parts are thinner than the screen holes, they can fall through the screen before they are gathered and cutted by the rotor blades. So long parts can occur in the regrind.
- This "long parts" may lead to disturbances in the further processing of the material in dosing or at the screw entrance of the extruder.

GRS 180 / GRS 300

Solution: Angular drilled screen

- The „long part“ is supported on the angular drilling and is braked. This is sufficient until the next rotor blade comes and cut the long part again.



GRS 180 / GRS 300

Solution: Angular drilled screen

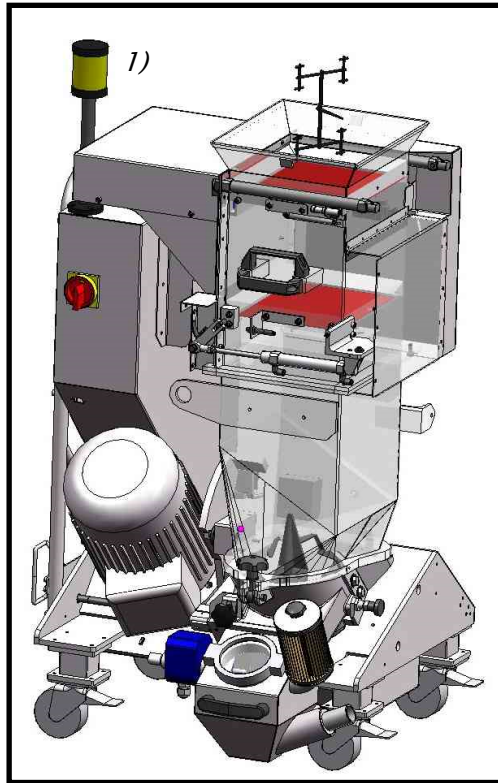
- 6 mm standard screen
- 6 mm angular drilled screen



GRS 180 / 300

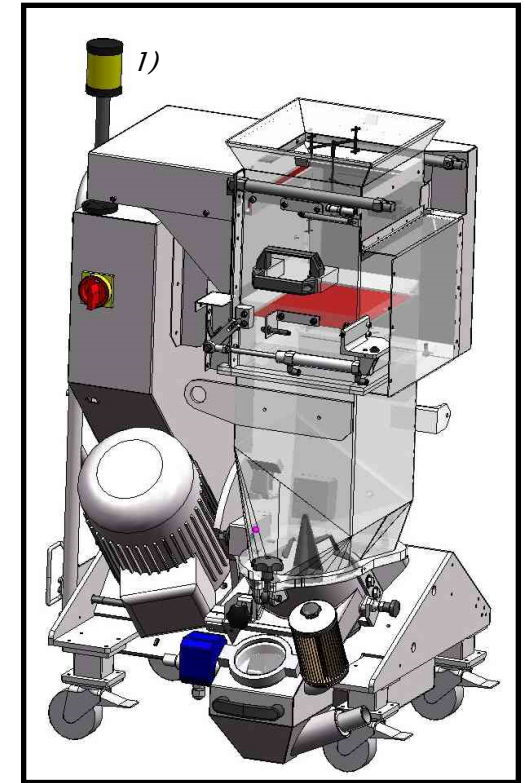
with sluice function

Workflow description/functionality

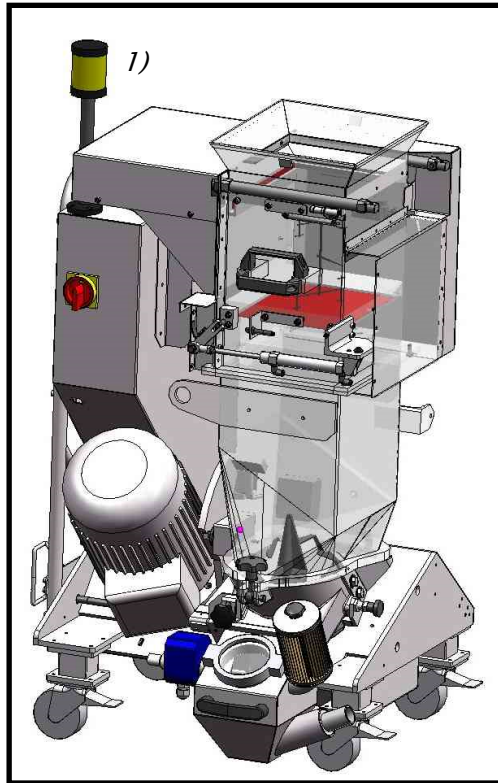


1) Flashing beacon optional

- **Basic position:**
Both sluice plates are closed
- **Sequence start:**
Occurs by picker (external signal) or time controlled, if the grinder is positioned under the separating drum
- **Sequence:**
Upper Slider opens completely, flap stays closed

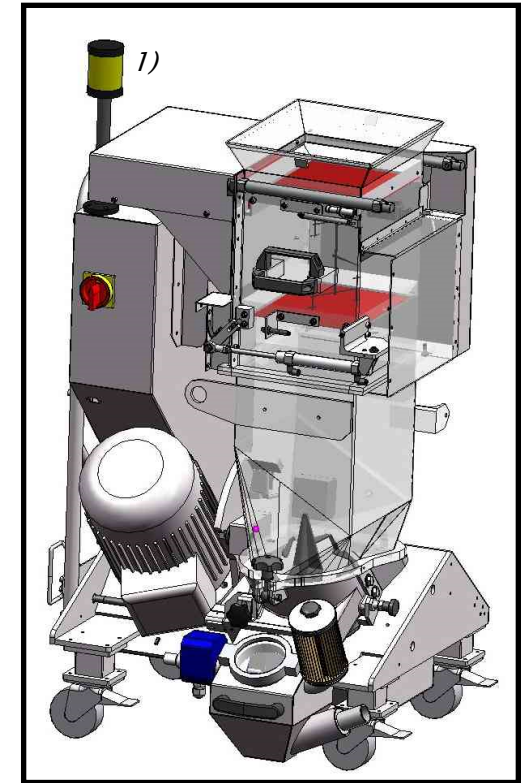


Workflow description/functionality

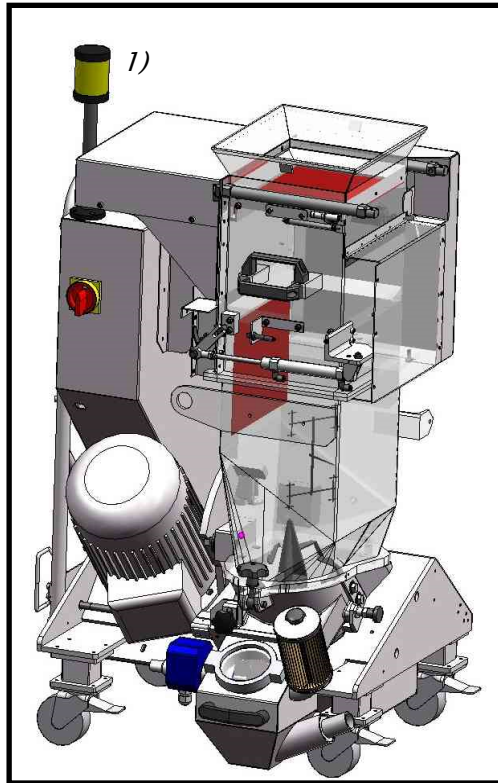


1) Flashing beacon optional

- The opening time of the upper slide can be freely adjusted
- At the end of the set opening time, the slide closed
- and reached its basic position

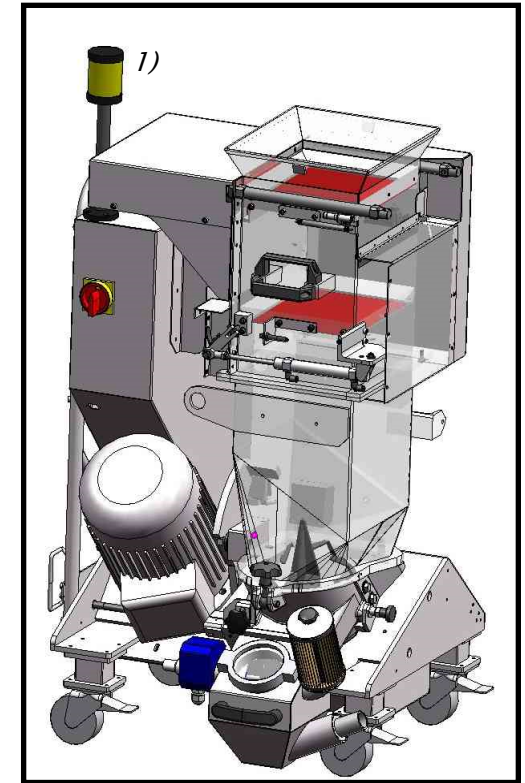


Workflow description/functionality

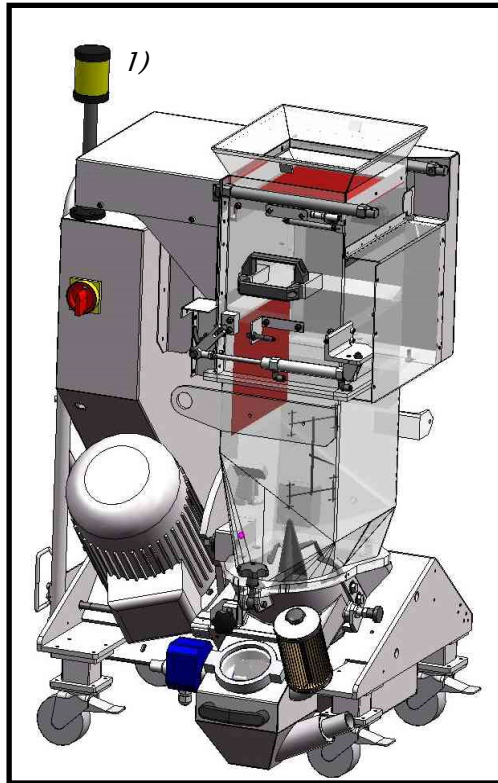


1) Flashing beacon optional

- Time-delayed the lower door pivots completely of
- At the end of the set opening time, the flap closed
- and reached its basic position again

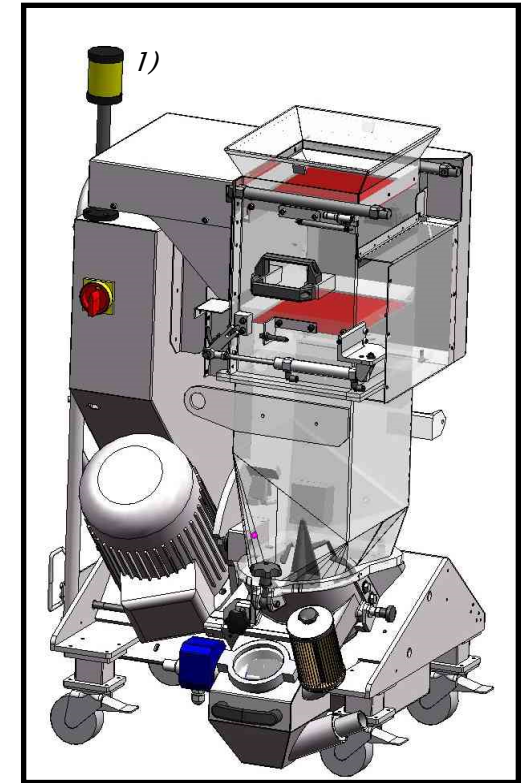


Workflow description/functionality



1) Flashing beacon optional

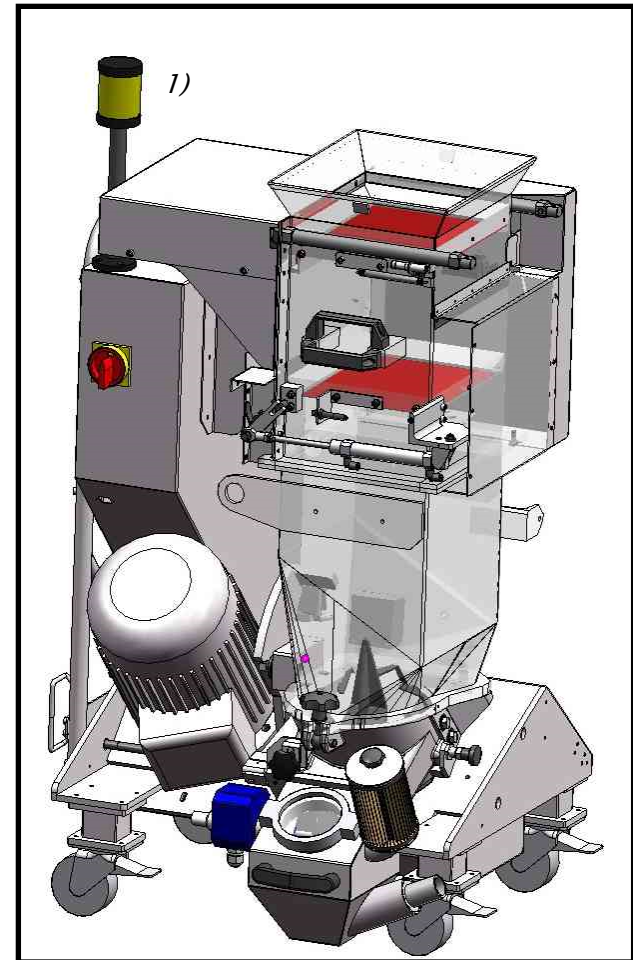
- If the flap can not close because of a jammed sprue, the flap opens again and try again to close. After 3x unsuccessful attempt at closing, the grinder goes into failure



Benefit of the sluice hopper

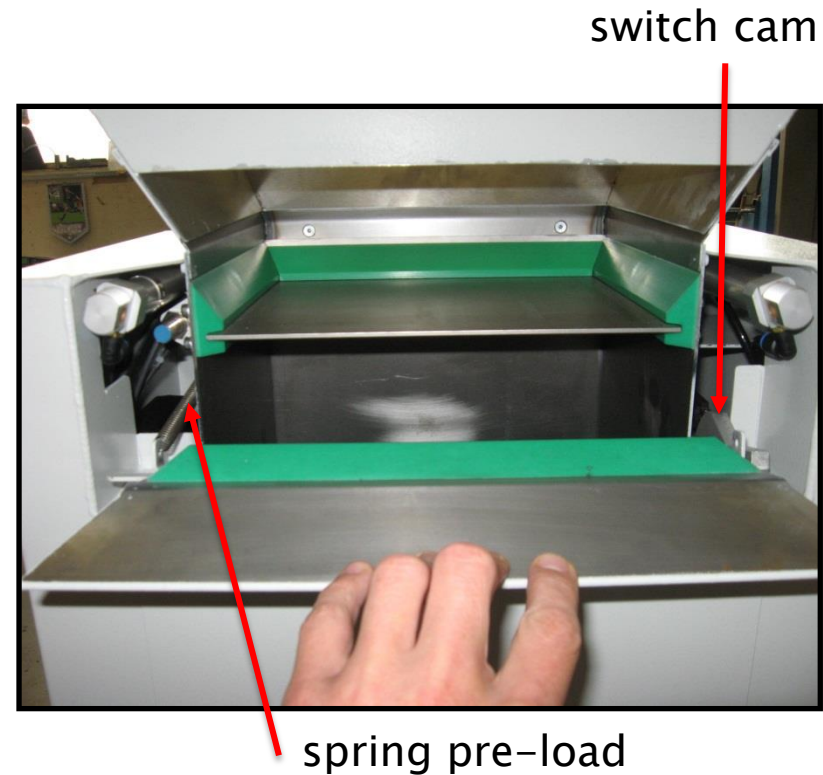
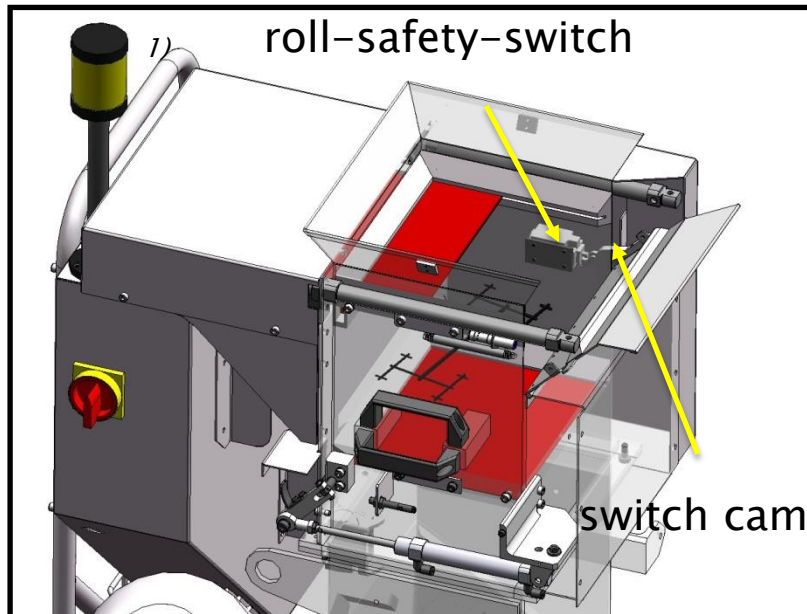
- No throwing out of the hopper by regrind or pre-crushed because a sluice plate is always closed
- No damming of sprues in the hopper by renunciation of flyback curtains and hopper deflections
- Reduction of the noise level, because the hopper is closed by at least one sluice plate
- Possibility of material cooling on top of the upper slide

1) Flashing beacon optional



Clamp and contact safety at the upper slide

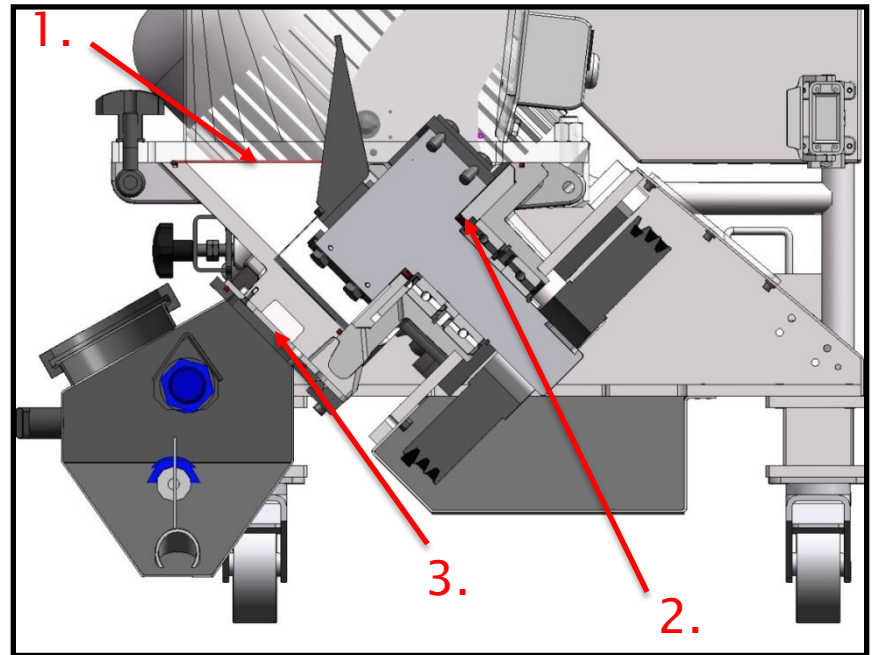
- If the flap is opened further, then activates a switch cam a roll-safety-switch. Emergency stop is activated



1) Flahing beacon optional

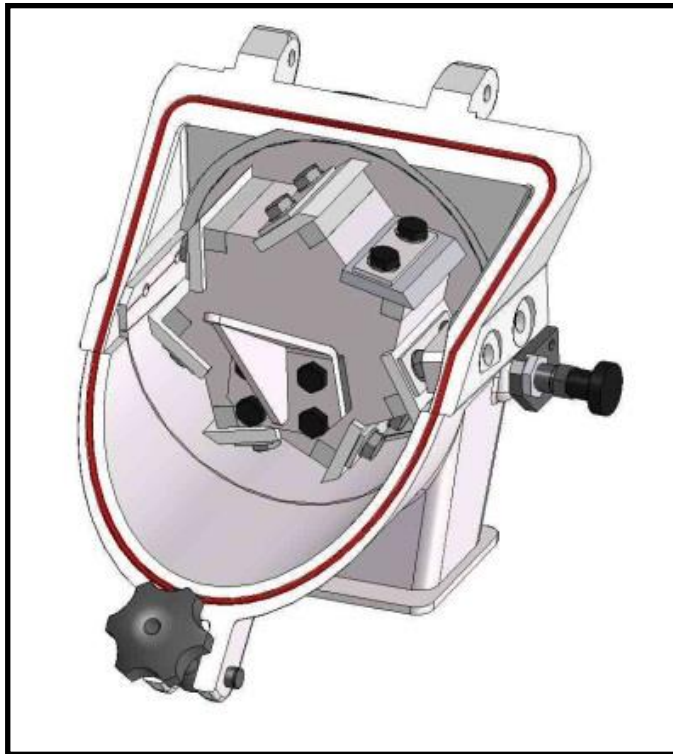
Dustproof version

1. **Cutting chamber**
embedded O-ring seal in the contact surfaces
2. **Rotorshaft**
additional shaft seal between the rotor shaft and steel disc
3. **Suction box und suction nozzle**
embedded O-ring seals in the contact surfaces and two O-rings at the circumference of the suction nozzle

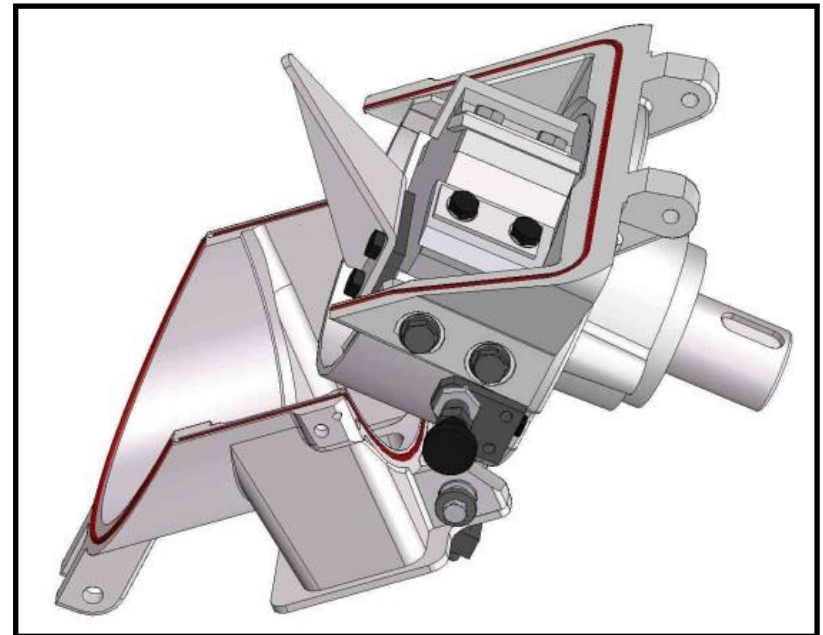


Dustproof version

1. Cutting chamber
(closed)

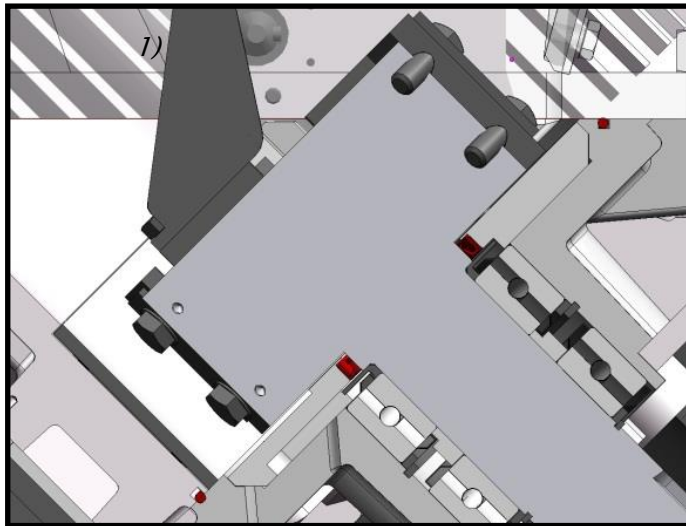


1. Cutting chamber
(opened)

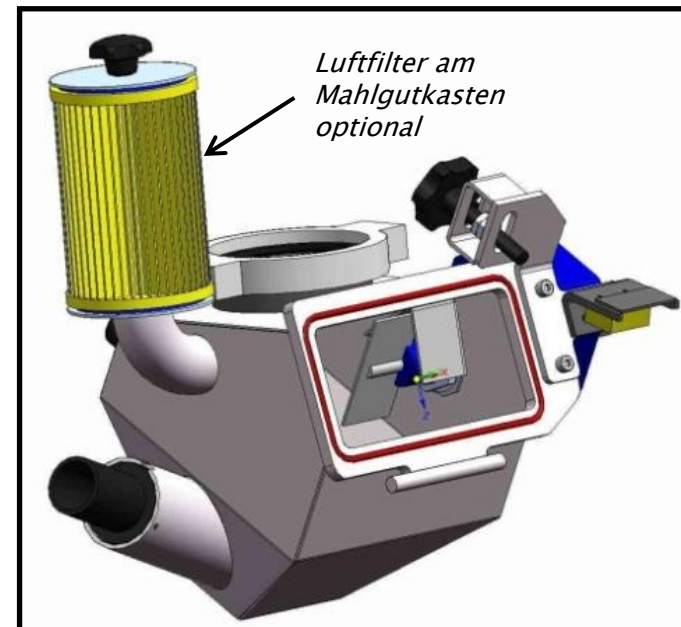


Dustproof version

2. Rotorshaft



3. Suction box



Accident safeguard and gas spring support

Gas spring

Support opening and closing of the hopper



**Vielen Dank für Ihre
Aufmerksamkeit**



Getecha GmbH