

RS 2400-A

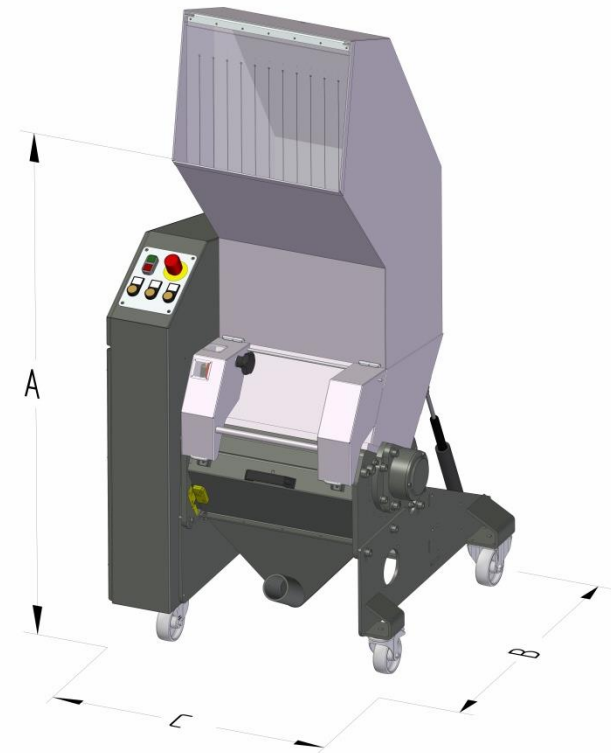
**High productive,
aggressive intake**

RS 2400-A

Sizes

	RS 2402	RS 2404	RS 2406
Cutting diameter (mm)	240	240	240
No. of rotary blades (pieces)	3	3 x 2	3 x 3
No. of stationary blades (pieces)	2	2	2
Cutting length (mm)	226	452	678
Throughput (kg/h)*	60 – 100*	100 – 160*	150 – 220*
Motor power (kW)	4,0	5,5	7,5
A	1.400 mm	1.400 mm	1.400 mm
B	890 mm	891 mm	892 mm
C	565 mm	790 mm	1.015 mm

* depending on screen size and material



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High productivity

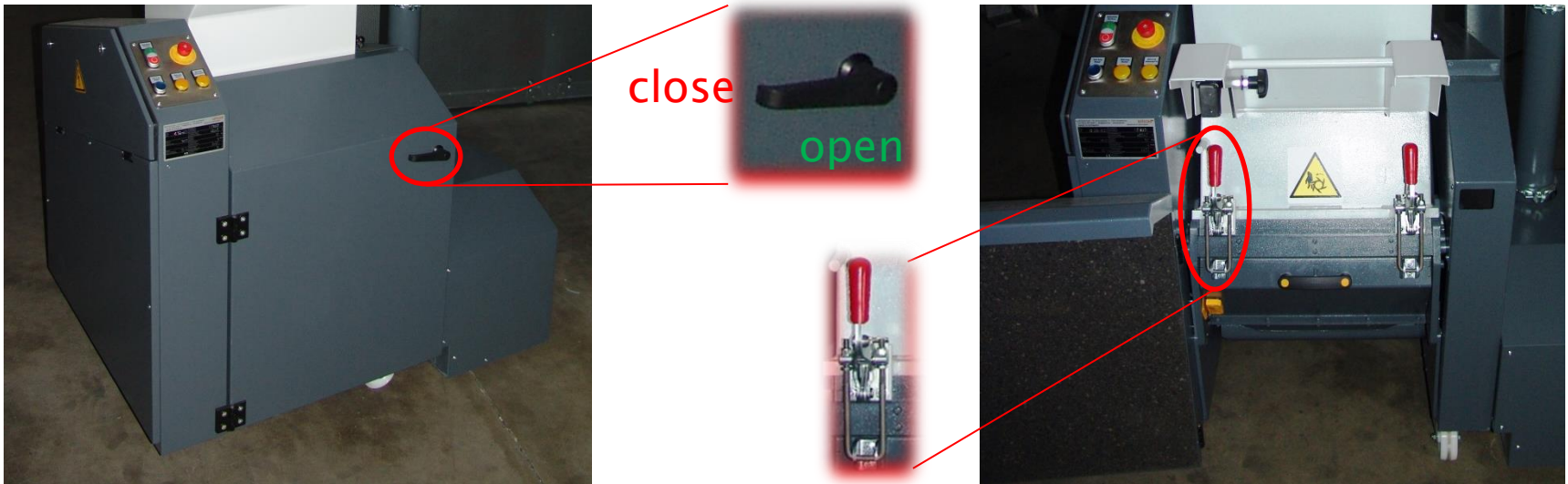
- Throughput up to 200 kg/h in continuous operation
- Pre-adjustable blades
- Short cleaning time
- Easy maintenance



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Fast, economical cleaning

- Easy to open hopper and cutting chamber



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Fast, economical cleaning

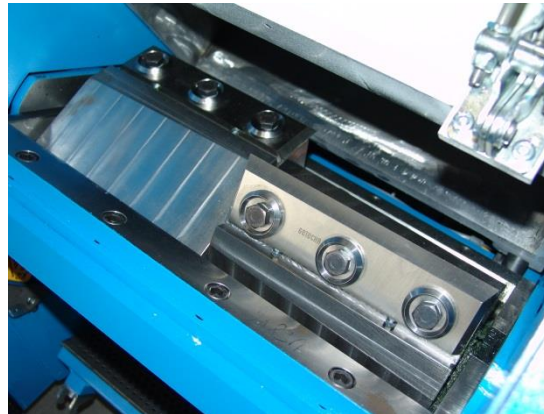
- Lock with quick release
- Good accessibility of components
- Toolless remove of the screen



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Fast, economical cleaning

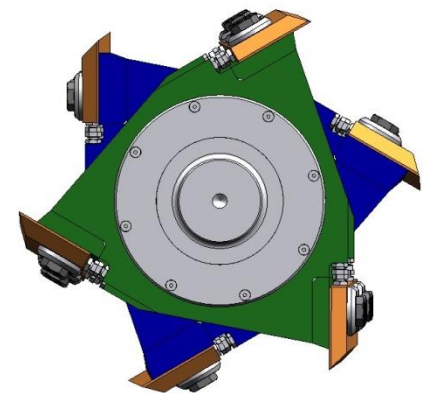
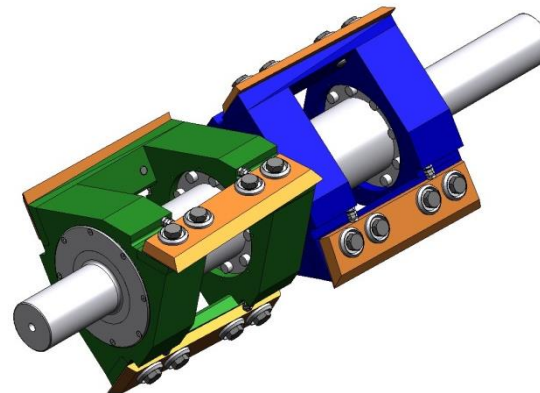
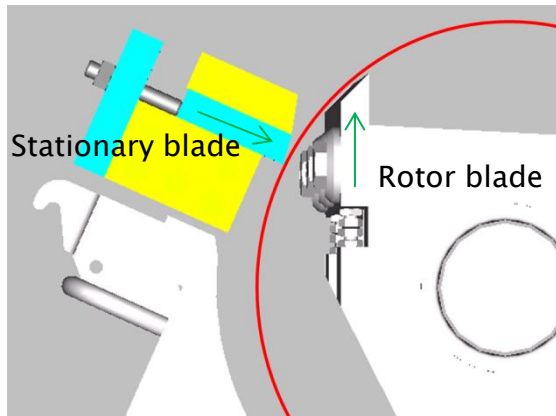
- Fully machined, smooth surfaces
- Pre-adjustable blades



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Reliable in operation

- Constant cutting circle guarantees uniform regrind
- Optimum cutting force distribution due segmented rotor design



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Reliable in operation

- External rotor bearing with high safety factor
(see slide 16-17)
- Massive pulley for additional flywheel mass



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Individually applicable

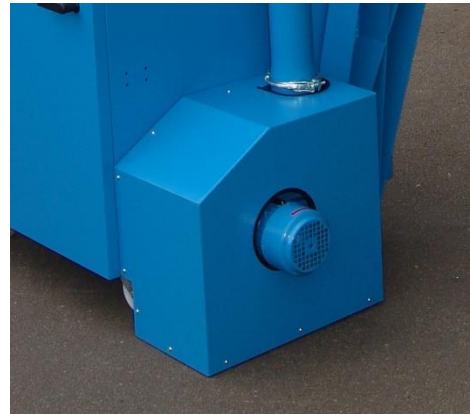
- Different rotor types (see slide 12–15) and wear protection packages available
- Visual indication of the operating status
- Compact modular design
- Additional equipment for almost any application



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Sound insulation as standard

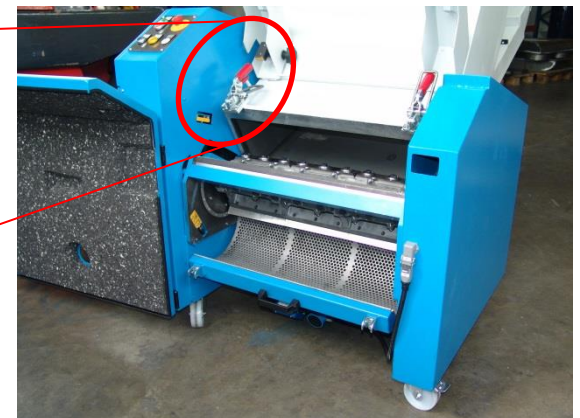
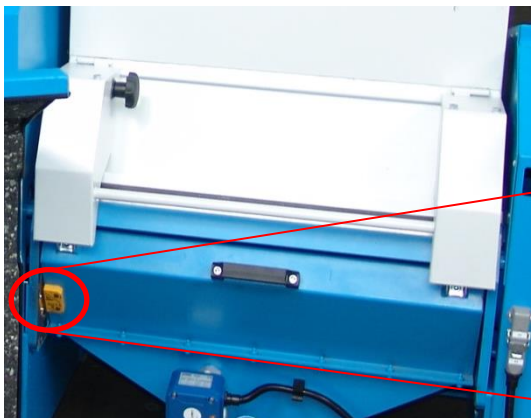
- Integrated sound insulation housing with double-walled hopper



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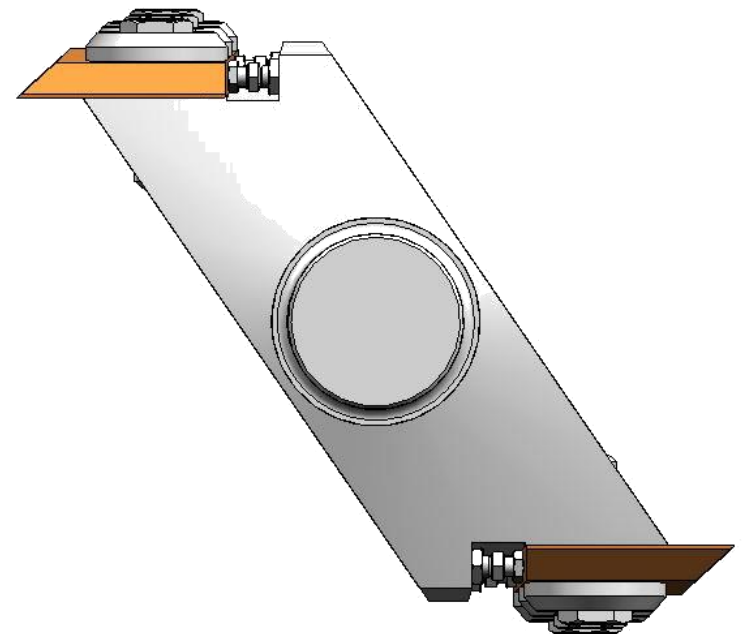
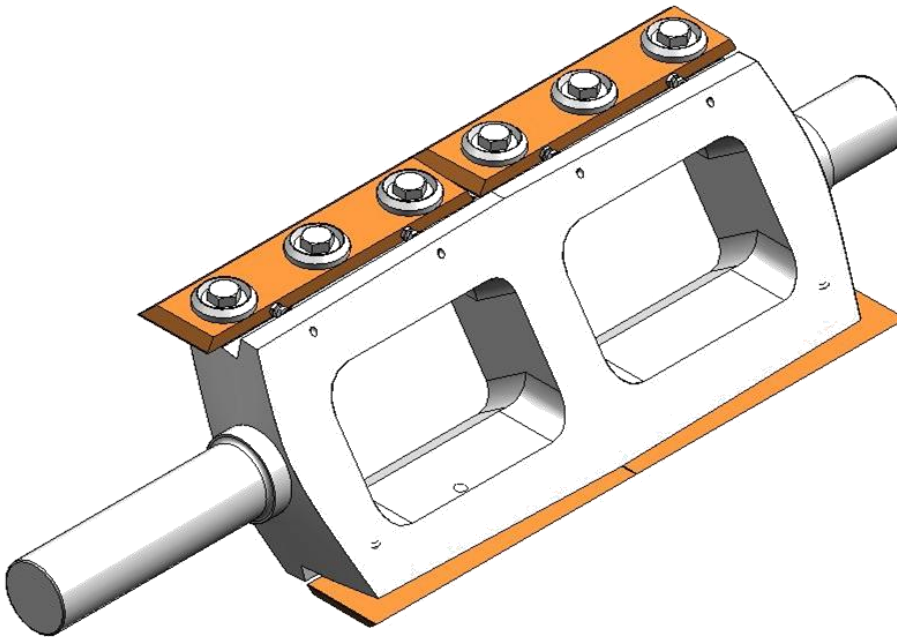
SECURITY is a top priority

- A safety limit switch at the hopper and the screen tray guarantees opening of the hopper and screen tray only when the rotor is at a standstill
- A switch on of the grinder is only possible if screen tray and hopper are completely closed



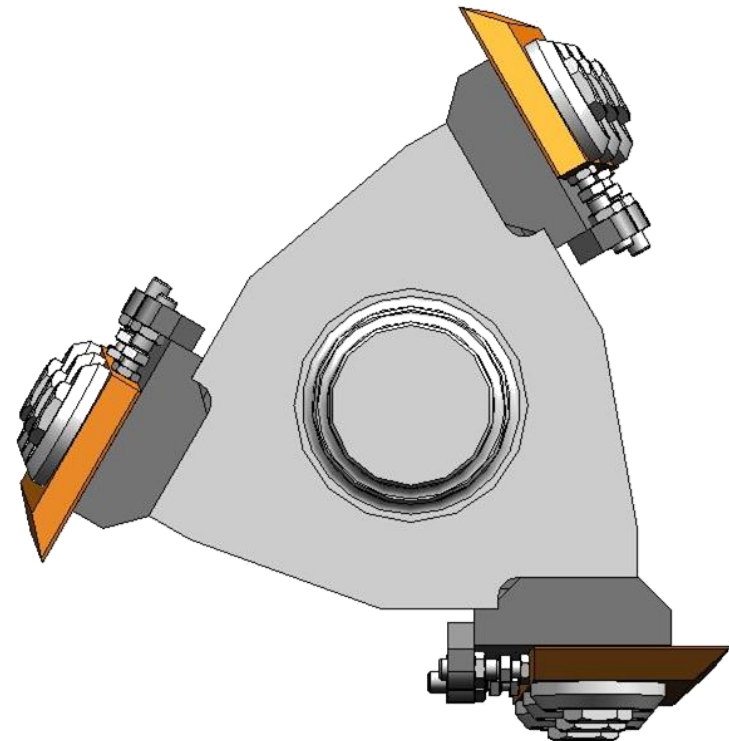
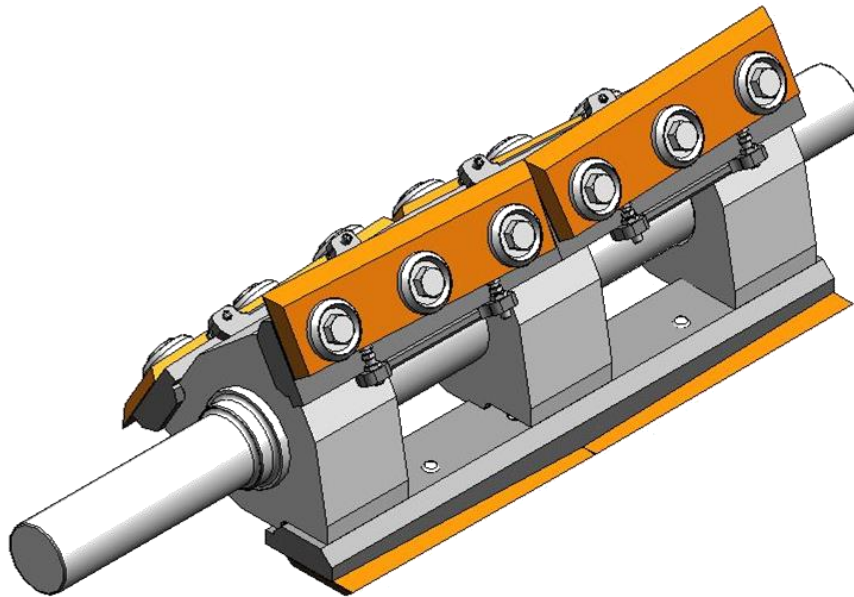
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2-blade open segment rotor



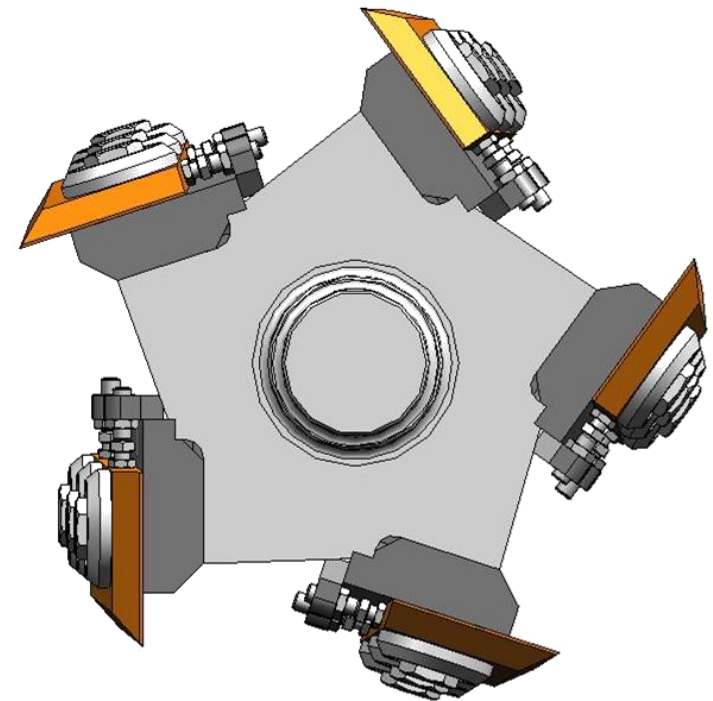
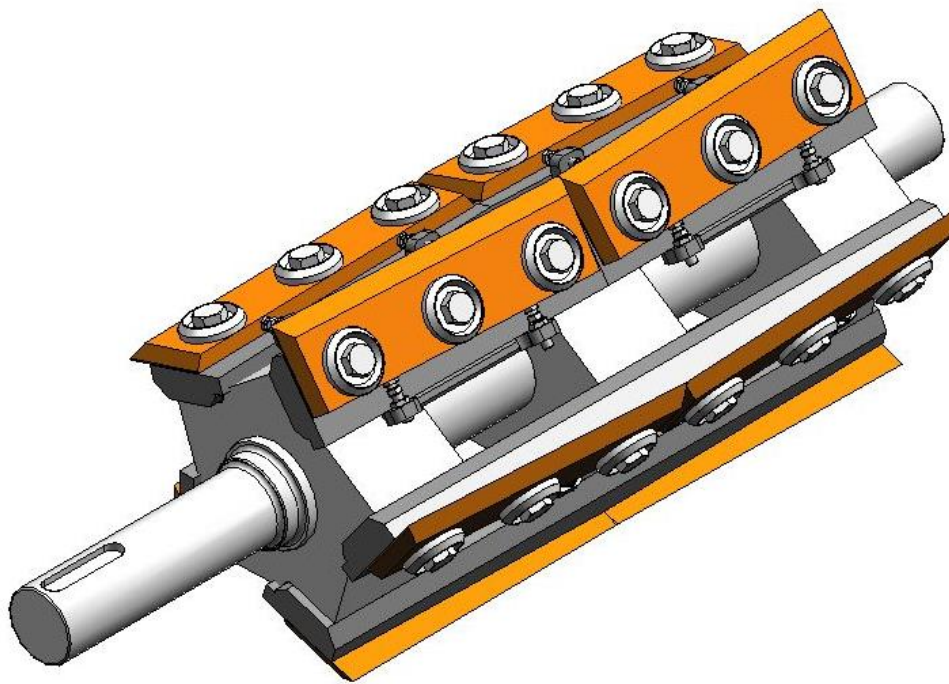
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3-blade open segment rotor



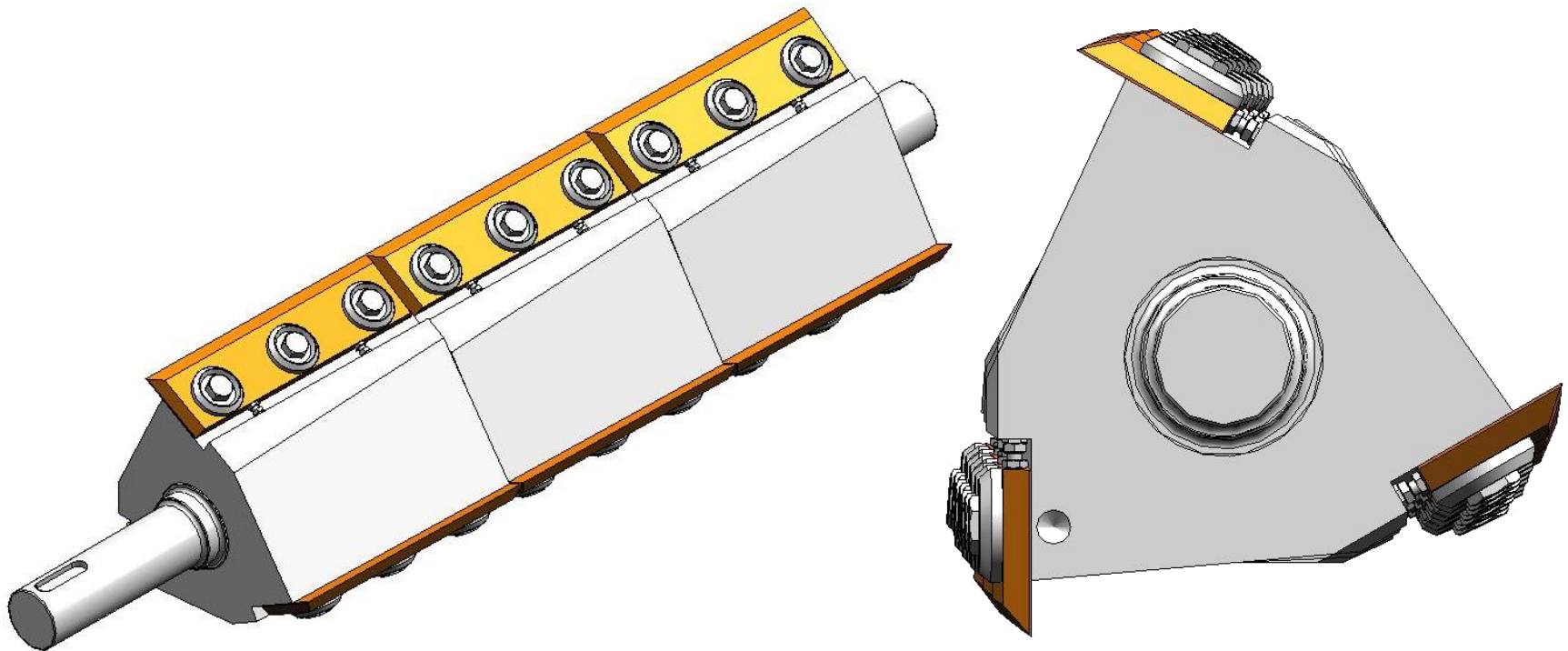
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5-blade open segment rotor



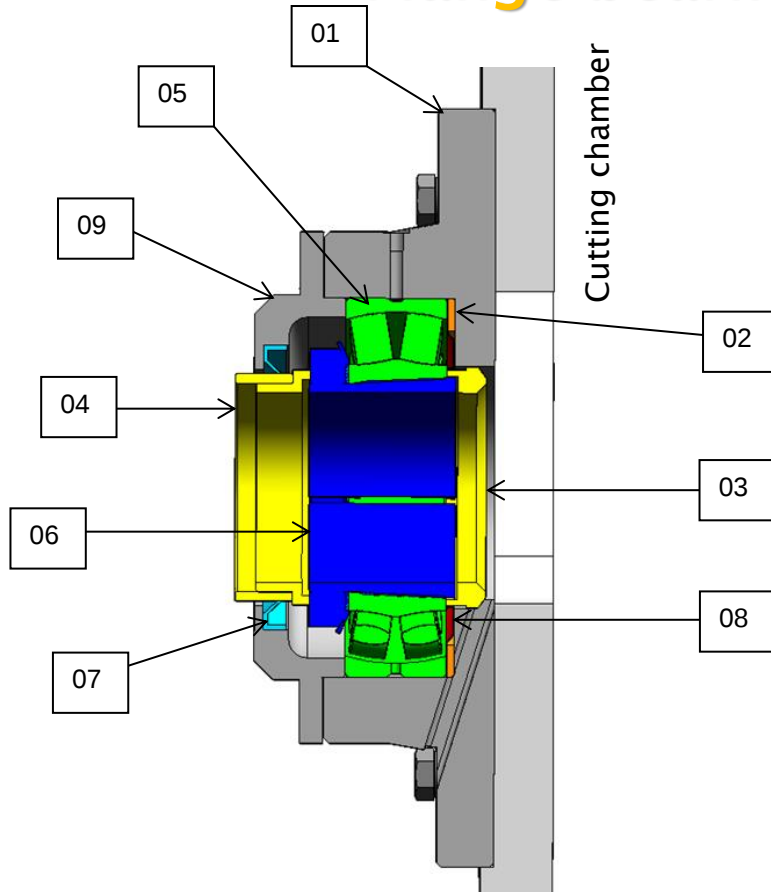
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3-blade casting segment rotor



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Flange bearing (fixed bearing)

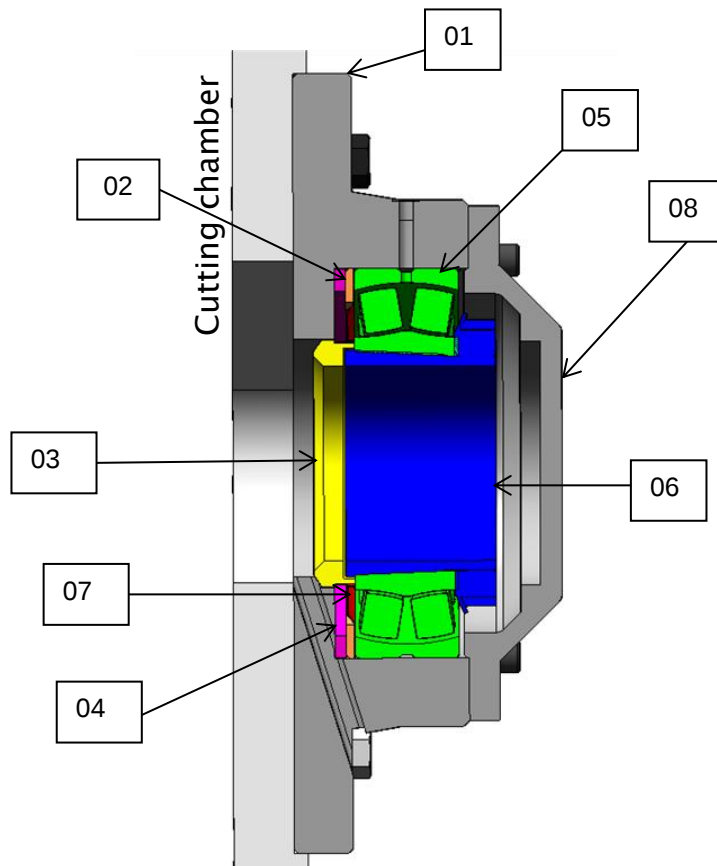


- Double-row cylindrical roller bearings
- Free space in the bearing with dust outlet duct
- Advantage compared to pillow block bearings: The stress points of the two bearings are closer to each other

Pos.	Anzahl	Benennung
01	1	Bearing flange
02	1	Distance ring
03	1	Fixed ring-bearing-rotor
04	1	Fixed ring-bearing-v-belt pulley
05	1	Ball joint bearing
06	1	Clamping sleeve
07	1	Rotory shaft seal
08	1	Sealing ring
09	1	Bearing cover

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Flange bearing (movable bearing)



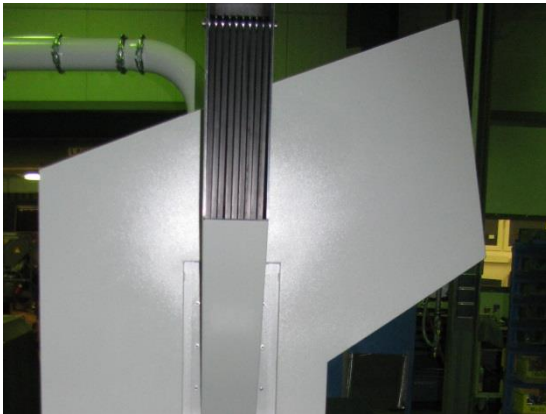
- Double-row cylindrical roller bearings
- Free space in the bearing with dust outlet duct
- Fixed bearing on the drive side
- Advantage compared to pillow block bearings: The stress points of the two bearings are closer to each other

Pos.	Anzahl	Benennung
01	1	Bearing flange
02	1	Distance ring
03	1	Fixed ring-bearing-rotor
04	1	Bearing adjustment
05	1	Ball joint bearing
06	1	Clamping sleeve
07	1	Sealing ring
08	1	Bearing cover

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Various hoppers

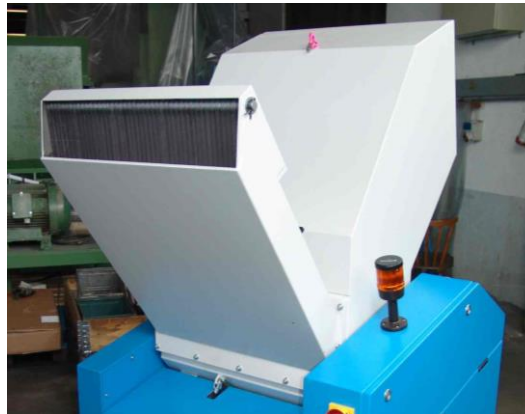
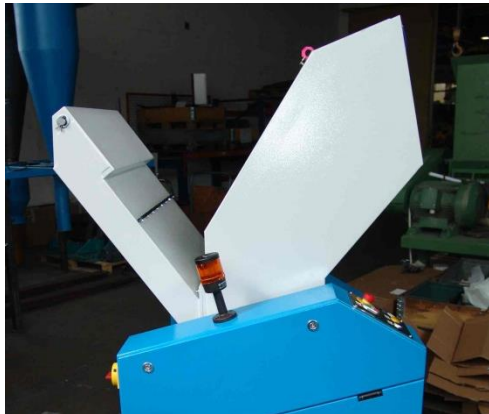
- Lateral bypass hopper for tubes and profiles



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Various hoppers

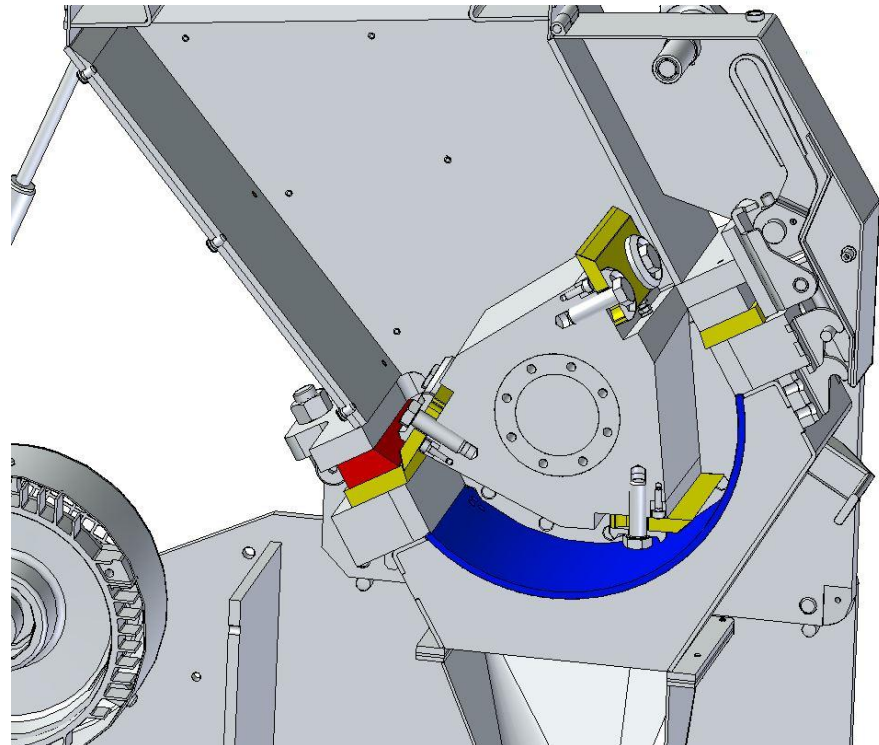
- Rear bypass hopper for plates



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Wear and tear package

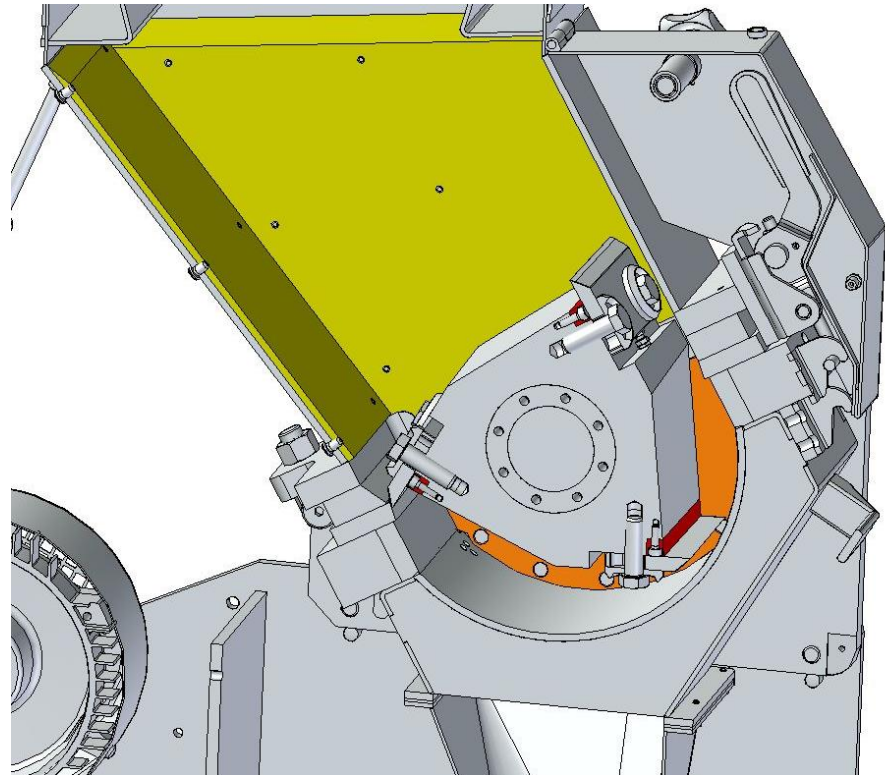
- Rotor and stator blades HSS
- Screen nitrocarburated
- Hardened knife carrier for the rear stator blade



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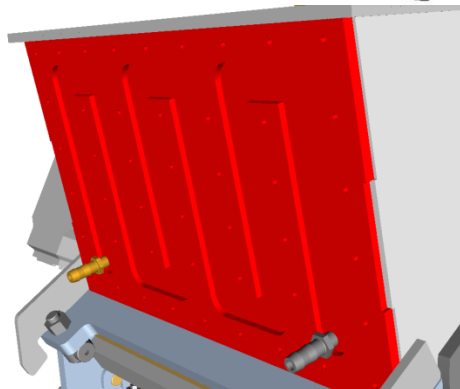
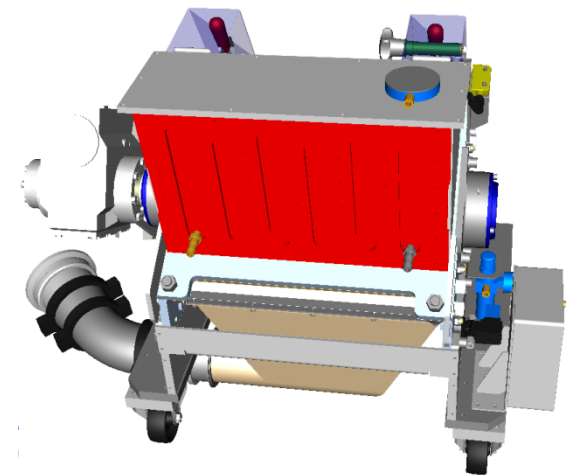
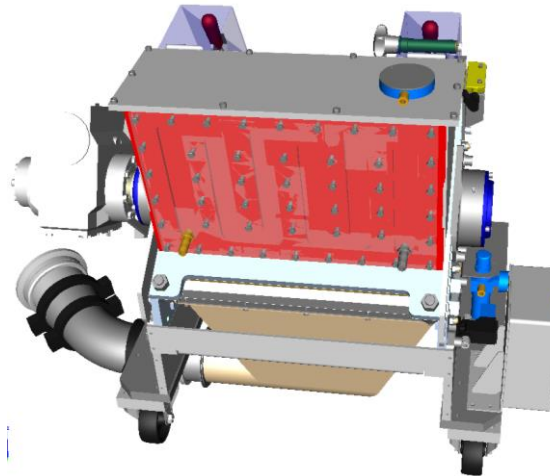
Extended wear and tear package

- Changeable wear protection plate in the infeed zone
- Hardened side plates in the cutting chamber
- Hardened knife carrier for the rotor blades



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Water cooling



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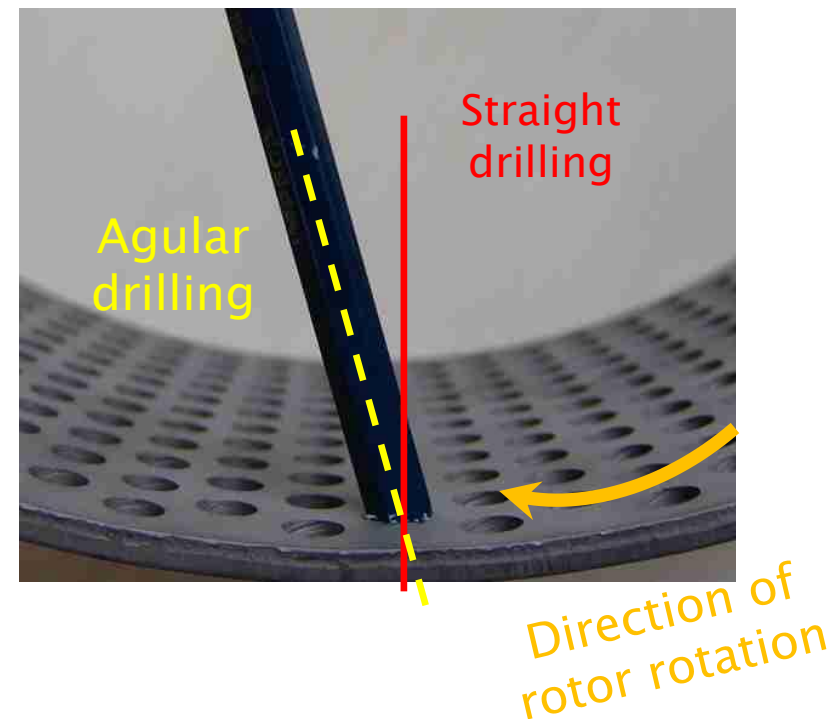
Problem: Long parts in regrind

- 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.

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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.



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Solution: Angular drilled screen

- 6 mm standard screen
- 6 mm angular drilled screen



RS 2400-A

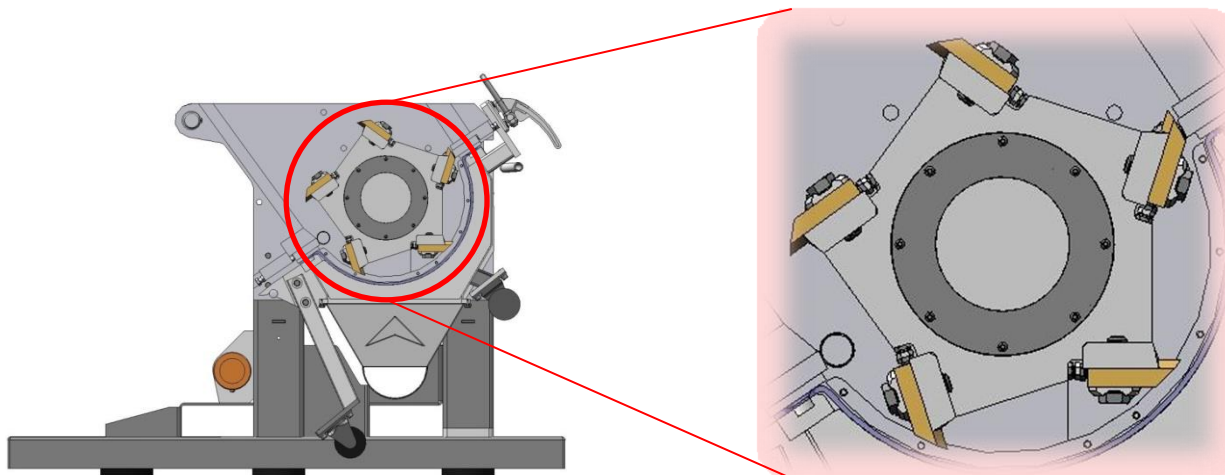
Problem: Too low throughput

- In one of the application actually matching grinder, the throughput of the grinder is too low. There must be found a way to increase the throughput of the grinder a little to satisfy the requirement.

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Solution: Increase the number of cuts at the same rotor speed

- The 3-blades rotor is replaced with a 5 blades rotor. Thus, when using 2 stator blades, the number of cuts increased from 6 cuts to 10 cuts per revolution. It is expected a higher rate of approx. 25–30%.



**Many thanks
for your attention**



Getecha GmbH