



Fig. 1: Ringler RE 201 deduster with Chiron FZ 12 processing centre

APPLICATION INFORMATION

Extracting plastic chips from processing centres

Festo | Stuttgart | Plastic chip extraction

Workpieces of plastic (POM) and aluminium are alternately processed dry and wet on a Chiron milling machine.

The plastic chips are neutralised during dry processing with ionised air and extracted by an aluminium room suction nozzle developed by Ringler. The design of the suction nozzle, which can be quickly and easily removed from the machine, allows a fast conversion from plastic to aluminium processing. The room suction system is deactivated when processing aluminium and sealed with a cover to prevent the penetration of cooling lubricants. The Ringler system could also be used to extract ALU chips with cooling lubricants on request. This would require a pre-separator with a second pipeline.

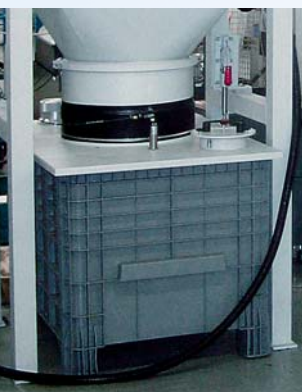
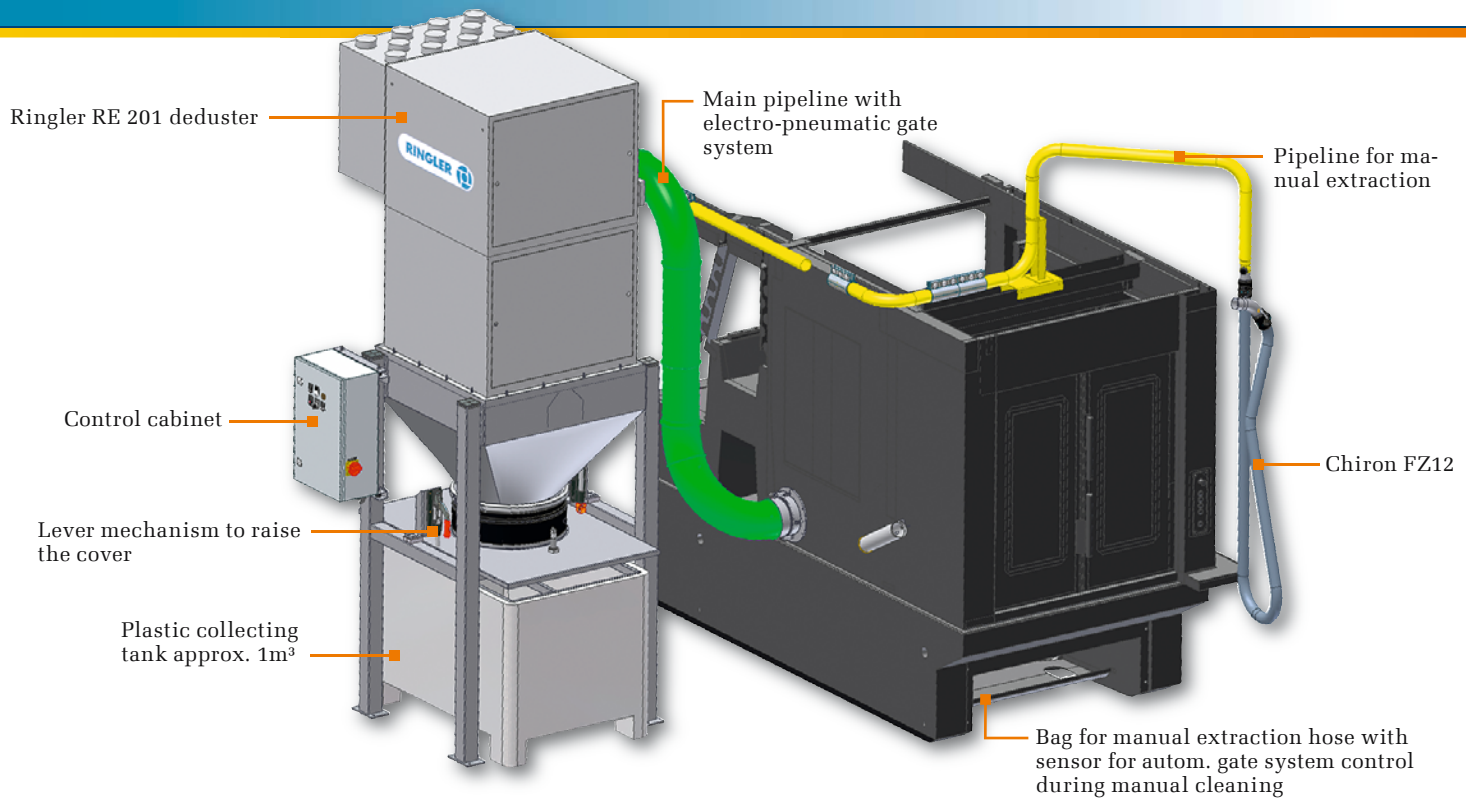


Fig. 2: Large-volume collecting tank of plastic



Picture description: Ringler RE 201 extraction system with Chiron milling machine

The aluminium suction nozzle has been designed by Ringler in Inventor3D so that it can be perfectly integrated into the machine geometry.

The lightweight aluminium construction means it weighs only a few kg and can be removed from the machine in seconds by the operator. This does away with any costly change-over time. Sensors that are mounted on the end of the pipeline and linked to the Ringler and Chiron control monitor wet and dry processing. The chips are ionised with compressed and collected via the suction nozzle before being extracted and discharged into a large plastic tank via the pipeline and Ringler

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extraction system. An ultrasonic sensor monitors the filling level.

After processing the machine can be cleaned with an easily moved, hand suction hose mounted on the swivel arm. The nozzle bag with integrated sensor automatically activates an electro-pneumatic gate system once the hose is removed. The operator is thus immediately provided with suction air and he can clean the machine.

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