



AGTOS®

Rubber Belt Tumble Blast Machines

- Blast machines
- Second-hand machines
- Conveyor systems
- Service and spare parts



The tumble blast design is widely accepted as one of the most effective blasting processes for removing scale, rust and burrs from mass production parts. The tumble blast machine's endless rubber belt gently rotates the work pieces and uniformly exposes them to the abrasive stream for the entire blasting time. See for yourself by taking a closer look at the advantages of **AGTOS** blasting technology.

Advantages of AGTOS rubber belt tumble blast machines:

- Widened abrasive reclamation unit
- Disassembly of the belt from the backside
- Lateral roller guiding of the rubber belt
- Reinforced door lining

Decisive advantages of AGTOS rubber belt tumble blast machines



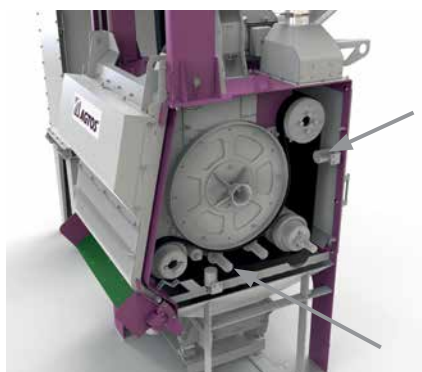
→ Extra wide abrasive reclamation unit

The abrasive circulating in the system falls over a wide cascade in order to be cleaned. The air stream can very well separate the fine particles. This reduces the wear and tear of the machine and

thus decreases the spare parts costs considerably. In addition, the abrasive can optimally be cleaned due to many different setting options.

→ Disassembly of the belt from the backside

Starting from machine size MG 1080, the rubber belt can also be disassembled from the backside of the machine. This is a decisive advantage as many machines are operated in an interlinked way. In this case, there are conveyor systems in front of the machines.



→ Lateral roller guiding of the rubber belt

An optimised guiding of the belt ensures a quiet operation of the machine even under high loads. The lateral guiding guarantees a proper belt run.



→ Reinforced door lining

The lining of the inside of the doors is constructed to have a high durability. It also offers an optimal noise protection.



→ AGTOS blasting technology

AGTOS turbines are solid aggregates that, thanks to fewer wear and tear parts and a higher abrasive flow-rate, work very efficiently.



→ AGTOS filter technology

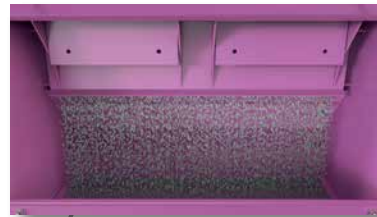
The innovative filter technology impresses with its powerful performance. The special characteristics include the conical filter cartridges which can be replaced quickly and easily via drawer elements outside of the casing. These cartridge filter systems can also be retrofitted for all types of older blasting machines.

Design of an AGTOS rubber belt tumble blast machine

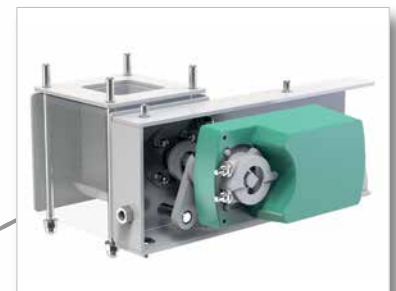
Bucket elevator unit with abrasive supply and large maintenance doors



Wind sifter for abrasive reclamation



AGTOS cartridge filter unit with functional pushing system for an easy exchange of the cartridges



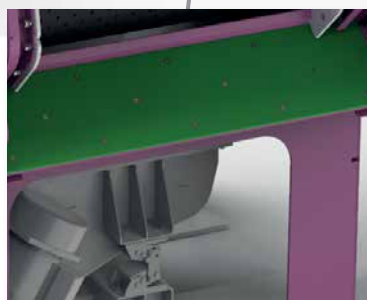
Shell valve for quantity regulation of the abrasive



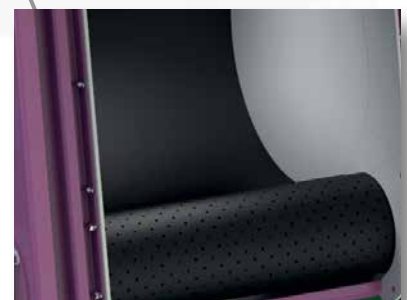
Control unit type TP700 Comfort



Abrasive reclamation by means of a vibro chute for immediate removal of burrs and waste parts



Careful discharge of the work pieces by means of a fold-out falling support coated with rubber



High-quality rubber belt with several layers of tissue for stabilisation reasons

Blasting efficiently with **AGTOS** rubber belt tumble blast machines – Real-life examples

Interlinking of tumble belt blast machines

For various reasons, interlinking several machines with an appropriate conveyor system is a good way to ensure a continuous production process. The capacity can easily be adapted to the production volume due to reserves.

Furthermore, the bottle neck effect is prevented because even if one machine is maintained, the production is continuing with the interlinked machines.

The change of the belt is carried out from the backside of the machine. Thus, there are no unnecessary assembly efforts.



Careful loading of shot blast machines by means of loading device



Unloading of the work pieces onto a conveyor belt and transfer to the next process step

Rubber belt tumble blast machines as an automatic blasting cell with manipulator

Clever planning can remove manual work from the blasting process. In this case, a rubber belt tumble blast machine working in batch mode is loaded out of boxes by a robot. These boxes are placed in a specially defined entrance area by forklifts.

Once the machine has been loaded, a high-speed door descends in order to seal against dust and noise. After the blasting process, the work pieces arrive on a feeding tray and softly fall into the already waiting box. It is the same box out of which the pieces had been coming from. Like this, the batch can easily be retraced.

The robot places the box in the exit area which is also clearly defined and the forklift truck can pick up the box from there and bring it to the next process step.



*Loading the feeder of an **AGTOS** rubber tumble belt blast machine by means of a robot*



The robot is the key element of the blasting cell.



Unloading of the shot blast plant and returning the work pieces into the provided box



Five interlinked rubber belt tumble blast machines



Rubber belt tumble blast machine with special loading device



Interlinked rubber belt tumble blast machines



Stand-alone solution with filter unit and control cabinet



Service for blasting machinery



Used machines are technically overhauled and then integrated into plant operations. Working on its own or as a general contractor, **AGTOS** undertakes disassembly, transport and re-assembly of the machines.

We place special emphasis on providing perfect customer service. This applies not only to the blasting equipment we manufacture, but also to other makes of equipment. Our service program includes:

- Spare parts
- Modernization and performance enhancement
- Repair and maintenance
- Instruction and training



Turbine parts for many turbine brands



A wide range of abrasive types can be delivered on short notice.



In addition to replacement turbine parts, we also supply filter cartridges, cleaning and sealing brushes, and pre-cut rubber and manganese blanks for many machine types.



Bucket elevator belts, buckets and screws for all makes of blast machinery

Modern customised shot blasting technology

AGTOS is manufacturing turbine wheel driven shot blast plants as special machine construction. Based on the different work pieces as well as the requirements concerning the surfaces and the spatial conditions of the customers, many different versions of rubber belt tumble blast machines are realised.

The following list contains the most common models and their most important technical data.



AGTOS rubber belt tumble blast machines are available in the following standard sizes:

Technical data	MG 0090	MG 0180	MG 0350	MG 0550
Filling capacity (l)	90	180	350	550
Belt dimensions ø x width (mm)	600 x 800	800 x 900	1.000 x 1.200	1.200 x 1.200
Max. single work piece weight (kg)	10	25	40	50
Max. weight per batch (kg)	200	400	800	1.000
Turbine(s) (number x kW)	1 x 7,5 1 x 11	1 x 7,5 1 x 15	1 x 22 2 x 11	1 x 22 2 x 11
Extraction capacity (m³/h)	1.250	2.000	2.600	4.500
Filter unit	PF 4-04	PF 4-06	PF 4-09	PF 4-12

You may find information about our tumble belt blast machines here:



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