



WALTHER TROWAL

We improve surfaces

- Mass finishing technology
- Shot blast technology
- Coating technology for small, mass produced parts
- Waste water technology
- Cutlery cleaning





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ABOUT WALTHER TROWAL

Tradition – made in Germany

Since 1931, Walther Trowal has been producing machines and installations for the process of improving surface finishes. Representing the highest quality and reliability in the industry, the company is considered to be the inventor of mass finishing technology. “Trowalising” is synonymous with mass finishing.

Besides the processing of surfaces by mass finishing or shot blasting, as well as the coating of small mass produced parts, Walther Trowal has also addressed the treatment of waste water resulting from these processes and has developed efficient and economic solutions.

With the know-how of three quarters of a century, we always consider individual solutions for our customers, customized according to their wishes and requirements. Walther Trowal representatives worldwide will be pleased to give any required advice, training and support.

In our test lab, we search for the optimum solution for your surface problem. This may be a stand-alone solution, or one that links installation of several machines, embedded with full knowledge of your production process.

Customer specific requirement (e.g.)

- Deburring
- Polishing
- Cleaning
- Coating
- Etc.

Selection of the most suitable process

- Mass finishing technology
- Shot blast technology
- Process water technology
- Coating of small mass produced parts

Customer optimized solution of the mass finishing problem

- Machine technology
- Process technology
- Support



The customer as partner

For us, close relationships to our customers are as important as the reliability of our products & services. Qualified consulting from the very beginning and continuous customer support therefore determine our actions.

Among other things, this includes:

- Consultation that optimizes process technologies
- Engineering the customer's specific process requirements
- Testing new processes in our own test lab
- Diagnosis, repair, maintenance, and service

Our specialists are always available to help with your problem solutions with flexibility, even an on-site visit, if necessary.





MASS FINISHING TECHNOLOGY

Experience makes the difference



Mass finishing is a mechanical /chemical process for the deburring, radiusing, smoothing, polishing, cleaning, degreasing and pickling of individual, mass produced parts.

The mass finishing process is determined by the interaction of machine, chips and compound/water. The chips (media) act like many little files on the work pieces which are made of various materials, such as metal, metal alloys, sintered metals, plastics and rubber.

The mass finishing process is applicable for very small as well as for very large work pieces with simple up to very complex geometries.

Machine program

Experience and know-how collected over the years are irreplaceable for the selection of the right combination of machine, work piece, chips and compound in order to obtain the optimum result for the customer.

Walther Trowal offers a comprehensive product line of different machines for the multitude of customer-specific requirements:

- Circular vibrators
- Trough vibrators
- Centrifugal disc finishing machines
- Continuous machines
- Drag finishing machines





Consumables

Trowalising is not only a certain process for the finishing of work piece surfaces, but offers a broad spectrum of possibilities to modify and improve surfaces in a specific way.

Optimum processing results are obtained by the right combination of a Walther Trowal machine on the one hand, as well as Walther Trowal chips (medias) and compounds on the other.

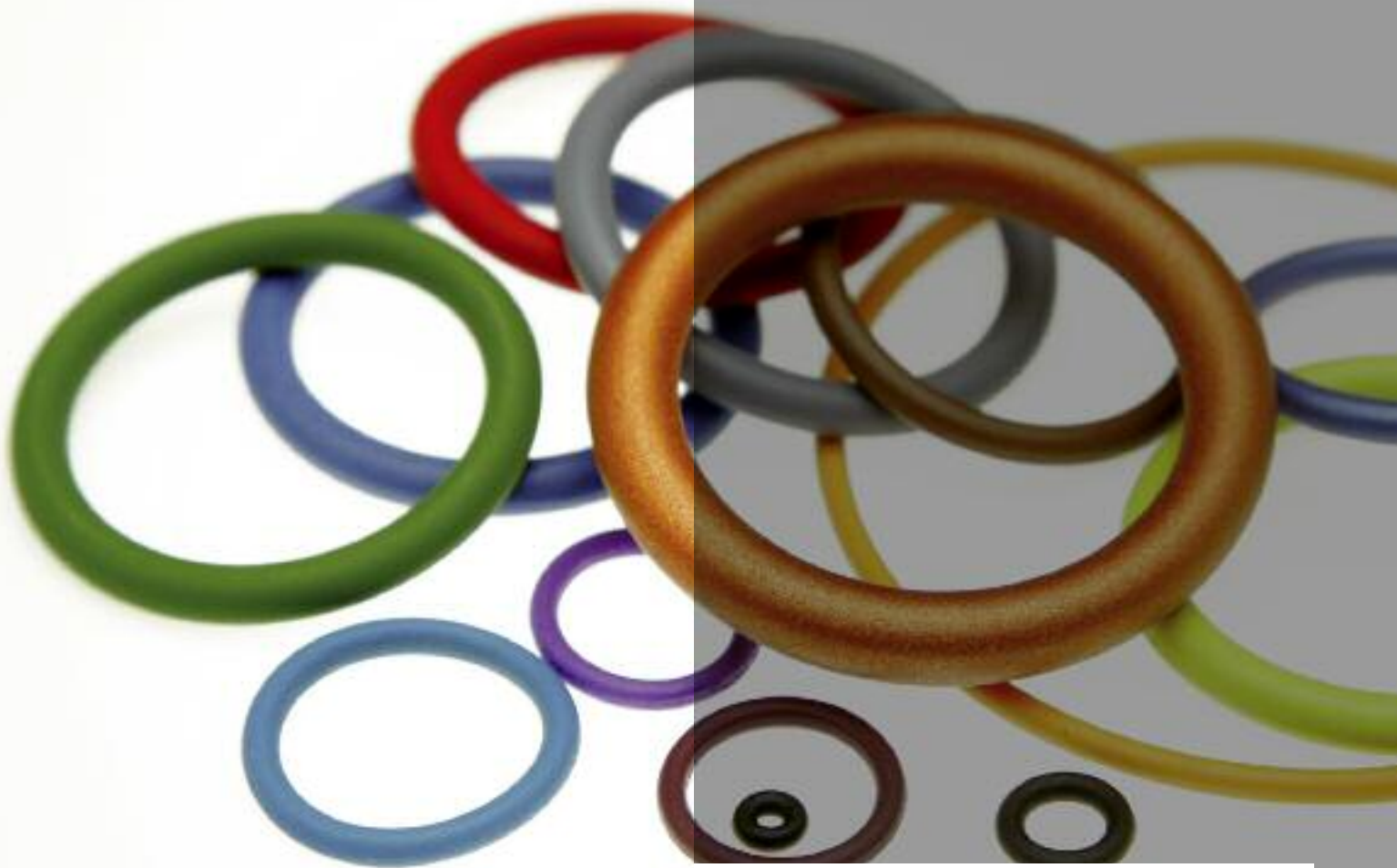
Chips (Media)

Walther Trowal offers a consistent product line of chips for all possible fields of application. During our 75 years of working in the mass finishing industry, a perfected assortment of chips and polishing media made of different materials, sizes, geometrical shapes and abrasive features were developed. For rough grinding or to obtain surfaces ready for electroplating, Walther Trowal always offers the optimum chips from our own product line.

Compounds

Compounds are used to support the grinding performance and for cleaning or conserving of work pieces, keeping the chips clean and abrasive. For optimum mass finishing results, the right compound is very important, which we have determined through our years of experience. The right compounds can improve the final results and reduce the costs of materials used during the process.





COATING OF SMALL MASS PRODUCED PARTS

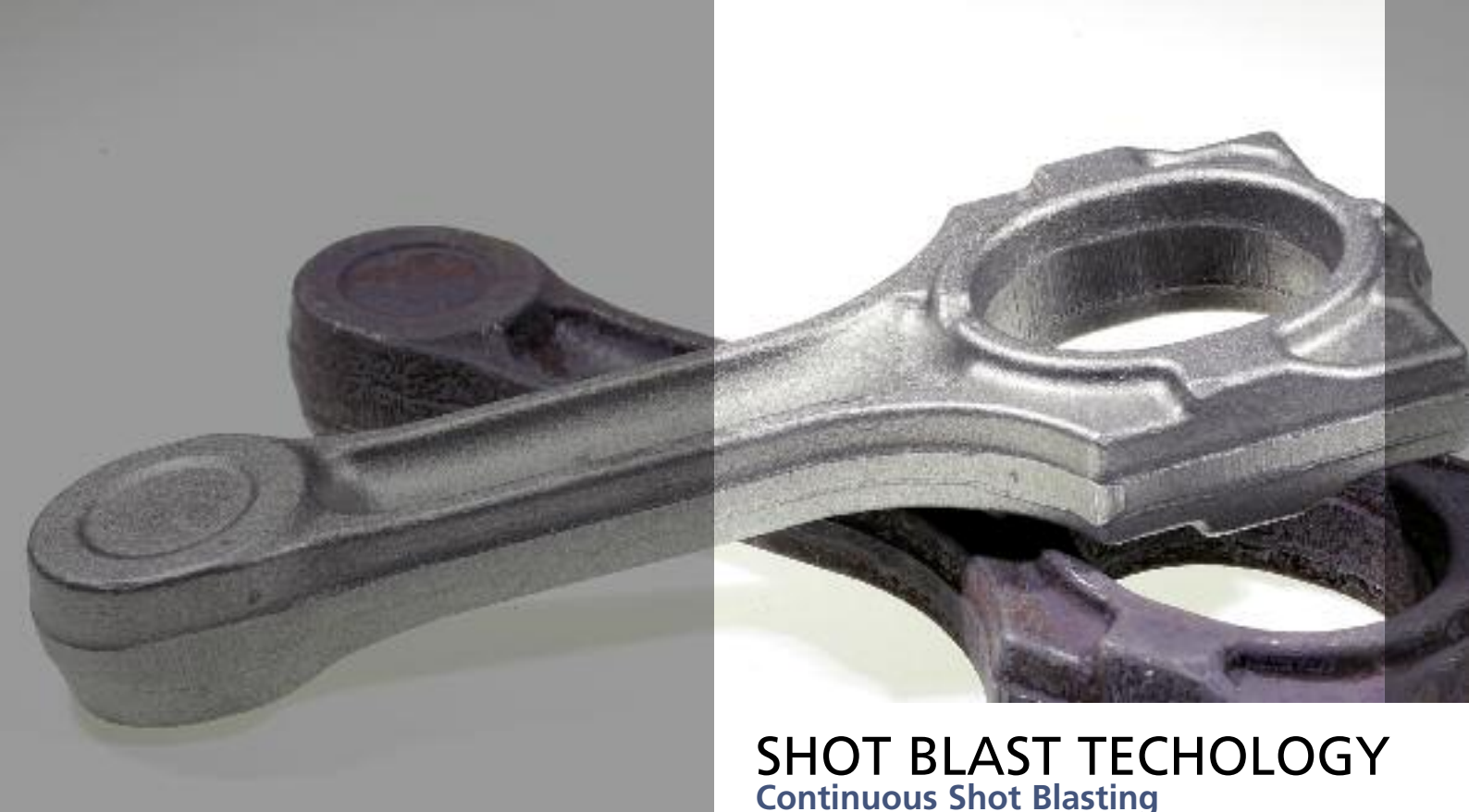
The Hot Drum Process

With the Rotamat, Walther Trowal has developed the ideal overall solution for surface coating of small mass-produced parts.

The coating of the parts takes place in a rotating drum protected by a sheet-metal housing. A spray gun distributes the coating onto the work pieces made of various materials such as metal, plastic or rubber, which roll off one another. The following coating processes can be carried out with the Rotamat:

- Decorative coating
- Coating with an anti-blocking agent
- Coating with a bonding agent
- Coating for corrosion protection
- Coating for electrical insulation

Little overspray, reproducible spraying results and easy parts handling distinguish the Rotamat, which is constructed with a modular design. Walther Trowal has improved this process during recent years and offers the Rotamat machine in various sizes.



SHOT BLAST TECHNOLOGY

Continuous Shot Blasting

Walther Trowal also set standards with their innovative troughed belt continuous shot blast machine, model range THM.

By means of our patented troughed belt transport system, the work pieces are transported uniformly through the machine and blasted. The advance movement is carried out by circulating the work pieces continuously.

The high capacity and degree of automation permit significant savings during the production process. A modular designed systems for parts loading and unloading permit a one-man-operation.

Walther Trowal offers the shot blast machines in different sizes, which are individually adapted to the parts size and customer-specific requirements.





WASTE WATER TECHNOLOGY

Environment firmly set in our sight

Waste water results from many production processes. Before it can go to drain, it has to be cleaned laboriously or it will be very costly to dispose. Walther Trowal has – with regard to a responsible view on environmental matters – optimized two processes during the last years, which permit companies to significantly reduce costs for disposal of the produced waste water. .

Centrifugal technology

By means of centrifugal force, solid matters are separated from the processing water with a gravitational acceleration of up to 2500 times, and are separated as solid sludge. The water can then be fed back to the finishing process.

The centrifugal technology can be used to remove solid matters from the following processing liquids:

- Processing water from mass finishing applications
- Varnishing baths
- Phosphatising baths
- Cooling waters for mechanical metal finishing
- Processing waters for wet blast processes
- Lapping processing waters
- Rinsing baths

To determine the proper method of treatment for customer processing water, we carry out comprehensive waste water analyses in our laboratory.

Flocculation technology

By means of flocculation, solid matters contained in the waste water, as well as most of the contaminants (metals, oils and grease) are removed from the water. So, the cleaned water can go to drain – according to local disposal laws.



CLEANING OF CUTLERY

The complete solution for cutlery

The cleaning of dirty cutlery, especially with dried-on leftovers, is very labor and cost-intensive.

With common dishwasher technology, clean, stain-free cleaning of cutlery cannot be achieved unless you wash each piece by hand.

Walther Trowal has developed the hydro-mechanical 3-step process, which, in one cycle:

- cleans
- rinses
- dries & polishes

Completely and automatically.

Cutlery parts of all kinds - teaspoons to soup ladles - can be cleaned with no problems and minimal staff while saving energy and cleaning supplies. And this process eliminates the time and labor-intensive pre-cleaning of soiled cutlery.

Refurbishing cutlery

With ongoing use, cutlery parts will often get dull with visible scratches and lime and corrosion stains that cannot be removed. With the Trowal cleaning technology, cutlery and stainless steel and silver kitchen equipment can be refurbished, looking like new again.



