

||||| AVIATION |||||



TROWAL SURFACE FINISHING SOLUTIONS FOR THE AEROSPACE INDUSTRY

WE IMPROVE SURFACES!





TROWAL – the technological leader for more than 8 decades!



Walther Trowal started building surface finishing machinery as early as 1931. Since then the company has become the technological market leader in the surface finishing industry by building a reputation of producing first class finishing equipment featuring state of the art engineering and sturdy design.

The term “**Trowalizing**” has even become part of the English language and stands for innovative surface finishing processes. While the company's main focus is on surface finishing technologies, Trowal also furnishes solutions for treating the waste water from mass finishing applications and offers a line of coating equipment for the decorative or protective coating of small, mass-produced parts.



With the knowhow accumulated for over 8 decades, we provide special surface finishing solutions that are custom engineered to match our customer's technological requirements. And in our test labs in Germany, USA and Asia we develop the optimum finishing processes for your components.

Our technical concepts range from stand-alone systems all the way up to fully automated finishing lines consisting of multiple machines which are integrated into your overall manufacturing process.

It goes without saying that our equipment, our media & compounds as well as our processes have been tested and are approved for use in the aero space industry. Walther Trowal is DIN/ISO 9001:2008 certified and is a **tier 1 supplier** to all OEM's and MRO's in the aerospace industry.





Trowal offers solutions for many aerospace finishing applications than 8 decades!

ENGINE PARTS

Turbine components like fan blades, compressor blades, blisks, turbine disks, engine casings, etc., require a perfect surface finish with low Ra readings. These are achieved by processing the parts in top of the line rotary vibrators equipped with the "gate clearing" feature for gentle and 100% unloading of the parts from the finishing machine. For somewhat more intensive finishing processes high performance Turbotron centrifugal disk finishing machines are utilized. And, the eco- friendly Trowapast finishing process produces surface finishes with Ra readings of $\leq 0.2\mu\text{m}$.

STRUCTURAL COMPONENTS

Trowal tub vibrators allow the efficient, cost effective finishing of the surface of large structural components used in wings, fuselages and landing gears with lengths of up to 6,000 mm (20 ft) and a maximum width of 1,300 mm (4.3 ft). The proven "multi vib" vibratory drive system guarantees an even, intensive movement of the media mass over the complete length of the vibratory tub producing an absolutely homogeneous finish on the parts surface.

OTHER COMPONENTS

Our latest technical development, the Multi Vibrator MV, allows the intensive finishing of the inner and outer surface of hydraulic housings. This versatile vibratory system is also ideally suited for processing delicate components which must not touch each other during the vibratory finishing process. Of course, Trowal also offers economic solutions for deburring mass produced bulk parts like screws, rivets, etc. And, of course, such bulk parts can be efficiently coated in our "Rotamat" coating systems for corrosion protection, visual differentiation and the dissipation of static electricity.





Optimum surface finishing solutions for our customers



Close customer relations are as important to us as the quality and durability of our products.

The development of optimum surface finishing solutions in close consultation with our customers and continuous customer support are key elements of our company philosophy.

Specifically, this includes

- In-depth technical consultation to develop the optimum finishing processes for our customers
- Adaptation of our equipment designs to specific customer requirements
- Sample processing in our test labs in Germany, USA and Asia
- Trouble shooting (on site or off site via modem), maintenance and repair service

Please contact us to help you with your surface finishing requirements. Our process engineers stand ready to assist you at any time.



WALTHER TROWAL!

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