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New polishing system for jewellery

Absolute precision in all three dimensions

A new surface finishing process is causing a stir in the jewellery industry. Rings from a wide variety of different materials can now be machine polished to a high lustre. OTEC Präzisionsfinish GmbH has developed a special finishing process for precisely this application. This enables the surfaces of jewellery rings to be polished to an elegant finish in all three dimensions.

The surface finishing of high-class jewellery is a demanding task. The more intricate a piece of jewellery is, the more difficult it is to achieve an even finish over the whole surface area whilst retaining the fine contours of the design. Manual finishing is very time-consuming and machine finishing is not normally recommended, since the items of jewellery may collide with one another in the machine. On the other hand it is very tiresome to have to polish harder materials such as platinum or stainless steel by hand.

OTEC Präzisionsfinish GmbH, the leading manufacturer of disc finishing and drag finishing machines, has now developed a new automated finishing process specially for the polishing of jewellery rings. In this process each ring is clamped in a special holder and dragged through a suitable medium. Each workpiece moves through a controlled path in all three dimensions. This results in a fast and even finish in a mere one to three hours depending on the initial state of the surface of the workpiece and the material concerned.

The new process can not only be used for gold and silver rings but is especially suitable for platinum, stainless steel and other materials which are very difficult to polish by hand. The only requirement is that the manufacturing process (turning) produces a relatively homogeneous surface or that the workpieces are pre-treated with a grade P400 abrasive.

Machine processing is not only simpler and therefore more economical than manual polishing but by clamping the rings and moving them through three dimensions they achieve a considerably more even and precise surface treatment. Furthermore, the structure of the design remains unaffected and the risk of workpieces colliding with each other is completely eliminated.

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With this new generation of drag finishing machines the workpieces also rotate around their own axis during processing. This results in a more aggressive treatment when compared with conventional drag finishing machines.

As usual, customers are invited to have a sample of their work processed free of charge in OTEC's research lab before they buy. This service is available to our customers all over the world.

OTEC Präzisionsfinish GmbH

OTEC GmbH specialises in precision engineering for the creation of perfect surfaces. OTEC machines offer cost-effective deburring, grinding, burnishing and polishing of tools and products. A network of over 60 agents and distributors enables OTEC to provide a local service for its international customers from many branches of industry. OTEC's customers benefit from the comprehensive know-how of this technology leader and its ability to obtain a perfect interplay of machine and processing medium.

Photos



Fig. 1: OTEC machines give a high-class finish to fine jewellery (Photo: OTEC).

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Fig. 2: Now platinum and stainless steel can receive the same fast and precise finish. (Photo: Otec)

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Fig. 3: OTEC Drag finishing machine for precise surface finishing. (Photo: OTEC)

Press contact

OTEC Präzisionsfinish GmbH
Helmut Gegenheimer
Dieselstrasse 8 - 12
75334 Straubenhardt-Feldrennach
Germany
Tel. + 49 (0) 70 82 - 49 11 20
Fax + 49 (0) 70 82 - 49 11 29
E-mail info@otec.de
www.otec.de