

## UV CURING OF ADHESIVE IN HAND WATCHES

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### The Client

The client is a designer and manufacturer of watches, jewellery and other luxury goods. The client is one of the biggest shareholders in the Indian watch market and is selling in more than two-dozen countries, with revenues of more than USD 1 Billion.

### The Process

UV curing is the one of the process step in hand watch manufacturing where you need glass to metal bonding.

### The Objective

The client was facing curing issues in colored glass as transmission efficiency of UV light decreases with increase opacity. The client consulted SIMCO to see if our curing solution could help solve the curing issues.

### Our Solution

Heraeus Noblelight Fusion UV's 300 W/inch and 600 W/inch, UV curing system were used to cure, hard to cure colored glasses due to higher energy provided by Fusion systems compared to any other UV system in comparison. The higher the peak irradiance, the deeper the penetration of UV rays, which helped resolving the curing issues faced by the client.

### The Results

The result was 90% of all glasses got cured with a single 300 W/inch system and 100% of them got cured with two 300W/inch systems. In tough cases 600W inch was advised to use as this system has higher peak irradiance than 300 W/inch systems. Separately due to more than 6000 hours of bulb life and consistent energy and spectrum of UV light they were able to reduce their rejection rate and downtime cost.

### Contact us to know more

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