

LASER WELDING OF WATCH DIAL INDICATORS WITH THE ASSISTANCE OF INDUSTRIAL VISION

CHALLENGES

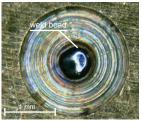
- Locate the exact positions of the dial indicators feet before welding.
- Not to damage (scratch) the face and indicators.
- Protect the lacquer on the face which is very sensitive to heat.
- Running small and large production volumes on the same machine.
- Handel various faces and indicators geometries.
- Easy and fast switch over to different faces and indicators.

ADVANTAGES

- Perfect welds of various high-quality materials
- Ability to weld small diameters

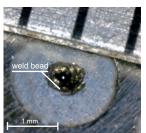
RESULTS

- ▶ 10x greater strength
- No damage to the face or the indicator
- Process time 3-5 seconds per indicator





weld seam from above





weld seam detail

CPAUTOMATION PRODUCT

GENERAL SPECIFICATIONS

| Welding machine | TLase |
|----------------------|----------|
| Speed | < 2 s |
| Positioning accuracy | +/- 1 µm |

