

CASE STUDY



Cleaning of watch parts

Machine: EGAclean 4000

Industrial sector: Turned parts / 123 & Watch making industry / 111



- Industry:** Precision turned parts, watch components
- Cleaning problem:** Replacement of a chlorinated solvent machine for intermediate and final cleaning
- Soiling:** Mineral oil, chips
- Solution:** Cleaning under vacuum with non-chlorinated AIII hydrocarbon
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| Phase 1: | Immerse cleaning | 40 °C | 4 min. |
| Phase 2: | Immerse cleaning with ultrasonics | 40 °C | 4 min. |
| Phase 3: | Vapour phase | 90 °C | 6 min. |
| Phase 4: | Vacuum drying | 60 °C | 4 min. |
- Approx. cycle time: 18 min.
- Requested quality:** Precision cleaning, visual inspection
- Return on investment:** The machine complies with legal requirements (EU). The cleaning and drying quality is equivalent or better than the results achieved with the chlorinated solvent machine. The economic efficiency has been highly increased due to lower investment and operating costs.
- Special feature of the application:** Chips are separated by two filter cartridges; one for precious metals, the other for non-precious metals.