

CASE STUDY



Precision cleaning of high-quality connector elements

Machine: EGAclean 4100 / Industrial sector: Electronic components / 142



- Industry:** Connector elements
- Cleaning problem:** Replacement of a chlorinated solvent machine (Perchloroethylene) by a more environmentally friendly and qualitative machine. Due to the insufficient cleaning of the tapped blind holes (\varnothing 0.3 mm, L 5 mm) with Perchloroethylene the galvanic coating (Ni-Au) is not adhesive
- Soiling:** Mineral oil and chips that could not be removed with Perchloroethylene
- Solution:** Cleaning under vacuum with non-chlorinated AIII hydrocarbon
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| Phase 1: | Immerse cleaning | 70°C | 5 min. |
| Phase 2: | Immerse cleaning with ultrasonics | 65°C | 5 min. |
| Phase 3: | Vapour phase | 85°C | 4 min. |
| Phase 4: | Vacuum drying | 60°C | 8 min. |
- Approx. cycle time: 22 min.
- Requested quality:** Precision cleaning prior to plating, microscopic inspection
- Return on investment:** The cleaning machine avoids virtually all rejections after the coating of connector elements. The machine complies with legal requirements (EU).
- Characteristics of the application:** Rejections of the smallest connector elements have been reduced from approx. 30% to 0.1%