

CASE STUDY



Precision cleaning of components prior to assembly

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



- Industry:** Electronic industry
- Cleaning problem:** Replacement of a chlorinated solvent machine (Perchloroethylene) by a more environmentally friendly machine
- Soiling:** Cooling lubricants, mineral oil and finishing abrasions
- Solution:** Cleaning under vacuum with non-chlorinated AIII hydrocarbon
Basket weight: 100 - 200 kg
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|----------|-----------------------------------|-------|--------|
| Phase 1: | Immerse cleaning | 70 °C | 3 min. |
| Phase 2: | Immerse cleaning with ultrasonics | 65 °C | 3 min. |
| Phase 3: | Vapour phase | 85 °C | 5 min. |
| Phase 4: | Vacuum drying | 60 °C | 3 min. |
- Approx. cycle time: 14 min.
- Requested quality:** Intermediate and final cleaning. Surface tension > 50 mN/m
- Return on investment:** The cleaning machine is economically more efficient than the chlorinated solvent machine. The cleaning and drying quality is better than the results achieved with the chlorinated solvent machine. The consumption of Perchloroethylene lay at 3600 kg per year. With the non-chlorinated AIII hydrocarbon it now lies at 120 kg. The machine complies with legal requirements (SUVA and EU).
- Characteristics of the application:** Charges of up to 860 kg/hour.