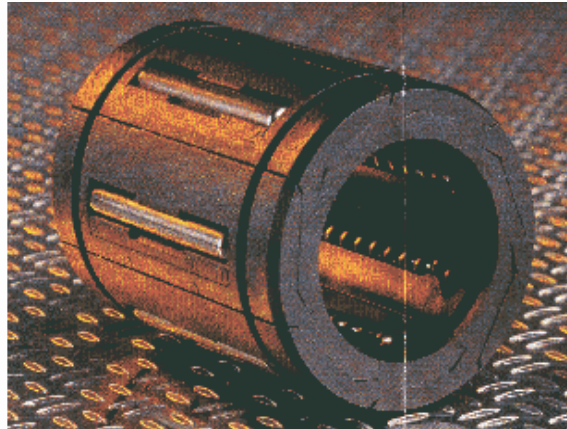


CASE STUDY



Precision cleaning of components prior to assembly

Machine: EGAclean 4100 / Industrial sector: Micromechanics / 122



- Industry:** Micromechanics (ball bearings)
- Cleaning problem:** Replacement of a chlorinated solvent machine (Trichloroethylene) for intermediate and final cleaning
- Soiling:** Cooling lubricants, mineral oil and abrasions
- Solution:** Cleaning under vacuum with non-chlorinated AIII hydrocarbon
- | | | | |
|----------|-----------------------------------|------|--------|
| Phase 1: | Immerse cleaning | 70°C | 3 min. |
| Phase 2: | Immerse cleaning with ultrasonics | 70°C | 3 min. |
| Phase 3: | Vapour phase | 90°C | 4 min. |
| Phase 4: | Vacuum drying | 60°C | 5 min. |
- Approx. cycle time: 15 min.
- Requested quality:** Cleaning and drying quality: precision cleaning. Inspection acc. to ISO 4406 and 3938 (no. and weight of particles)
- Return on investment:** The cleaning and drying quality corresponds to the results achieved with the chlorinated solvent machine. Operating costs and especially the solvent and energy consumption as well as the disposal costs are lower. The continuous vacuum distillation guarantees the solvents recycling. The solvent does therefore not have to be exchanged. The machine complies with legal requirements (EU).
- Characteristics of the application:** No risk of corrosion.
Particle contamination < 13mg/m²

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