

CASE STUDY



Precision cleaning of turned parts

Machine: EGAclean 4100
Industrial sector: Turned parts / 123



- Industry:** Turned parts industry
- Cleaning problem:** Replacement of a non-resident wage labour cleaning by a fully automated cleaning machine for intermediate cleaning, final cleaning and drying of parts after chemical nickel-plating
- Soiling:** Mineral oil, chips
- Solution:** Cleaning under vacuum with non-chlorinated AIII hydrocarbon
- | | | | |
|----------|-----------------------------------|-------|--------|
| Phase 1: | Immerse cleaning | 65 °C | 2 min. |
| Phase 2: | Immerse cleaning with ultrasonics | 62 °C | 2 min. |
| Phase 3: | Vapour phase | 85 °C | 4 min. |
| Phase 4: | Vacuum drying | 60 °C | 2 min. |
- Approx. cycle time: 10 min.
- Requested quality:** Final cleaning, visual inspection
- Return on investment:** The machine complies with legal requirements (EU). The cleaning quality is better than the results achieved with the previous machine. Productivity has been more than doubled.
- Special feature of the application:** No risk of corrosion. After the chemical nickel-plating the parts are rinsed with water and are then automatically transported to the EGAclean machine for the drying process. The hydrocarbon film of approx. 10nm protects the parts from corrosion. In three shifts the cleaning machine cleans and dries approx. 6000 kg of goods per day, 6 days a week.