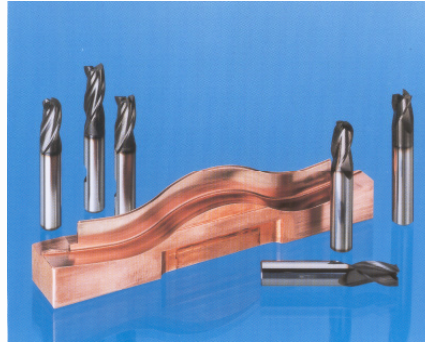


CASE STUDY



Precision cleaning prior to vacuum coating

Machine: EGAclean 4100 / Industrial sector: Tool coating / 171



- Industry:** Physical vapour deposition (PVD)
- Cleaning problem:** Replacement of a water-based cleaning machine used for cleaning prior to physical vapour deposition (PVD)
- Soiling:** Mineral oil and particles
- Solution:** Cleaning under vacuum with non-chlorinated AIII hydrocarbon
- | | | | |
|----------|-----------------------------------|-------|--------|
| Phase 1: | Immerse cleaning | 70 °C | 7 min. |
| Phase 2: | Immerse cleaning with ultrasonics | 62 °C | 7 min. |
| Phase 3: | Vapour phase | 85 °C | 5 min. |
| Phase 4: | Vacuum drying | 60 °C | 6 min. |
- Approx. cycle time: 25 min.
- Requested quality:** Precision cleaning prior to physical vapour deposition (PVD)
- Return on investment:** The cleaning quality has been improved. Compared with the water-based cleaning machine, tapped blind holes are efficiently cleaned and dried. There is no risk of corrosion. The investment and operating costs have been reduced by approx. 50%. The machine complies with legal requirements (EU).
- Characteristics of the application:** It is the first time that a non-chlorinated AIII hydrocarbon cleaning machine has been installed at this customers factory. The high productivity makes it possible to achieve a high return on investment.