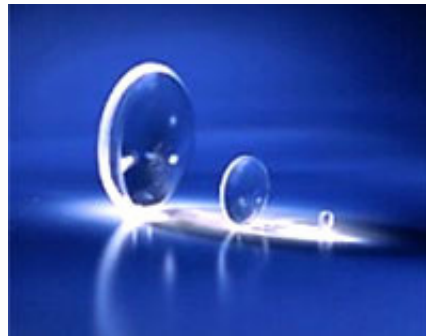


CASE STUDY



Cleaning of optical lenses

Machine: EgaClean 4100
Industrial sector: Optics / 151



Industry:	Optical systems																				
Cleaning problem:	Removal of epoxy resins on lenses after polishing																				
Soiling:	Epoxy resins, polishing residues																				
Solution:	Cleaning under vacuum with hot, customer-specific N-Methyl Pyrrolidone (NMP) <table><tr><td>Phase 1:</td><td>Immersion cleaning with ultrasonics</td><td>70°C</td><td>5 min.</td></tr><tr><td>Phase 2:</td><td>Micro filtration</td><td></td><td>5 min.</td></tr><tr><td>Phase 3:</td><td>Immersion cleaning with hot distillate</td><td>70°C</td><td>5 min.</td></tr><tr><td>Phase 4:</td><td>Vapour phase</td><td>85°C</td><td>3 min.</td></tr><tr><td>Phase 5:</td><td>Vacuum drying</td><td>60°C</td><td>3 min.</td></tr></table> Approx. cycle time: 25 min.	Phase 1:	Immersion cleaning with ultrasonics	70°C	5 min.	Phase 2:	Micro filtration		5 min.	Phase 3:	Immersion cleaning with hot distillate	70°C	5 min.	Phase 4:	Vapour phase	85°C	3 min.	Phase 5:	Vacuum drying	60°C	3 min.
Phase 1:	Immersion cleaning with ultrasonics	70°C	5 min.																		
Phase 2:	Micro filtration		5 min.																		
Phase 3:	Immersion cleaning with hot distillate	70°C	5 min.																		
Phase 4:	Vapour phase	85°C	3 min.																		
Phase 5:	Vacuum drying	60°C	3 min.																		
Requested quality:	Free of resins and particles, cleaning quality prior to final polishing																				
Return on investment:	Solvent consumption of 340 litres per year compared with 2000 litres using the previous cleaning machine.																				
Characteristics of the application:	The solvent's distillation guarantees a constant cleaning efficiency and a strongly reduced consumption. Basket dimensions 520 x 320 x 200 mm.																				