

Reference project

Extruder

Plastics processing

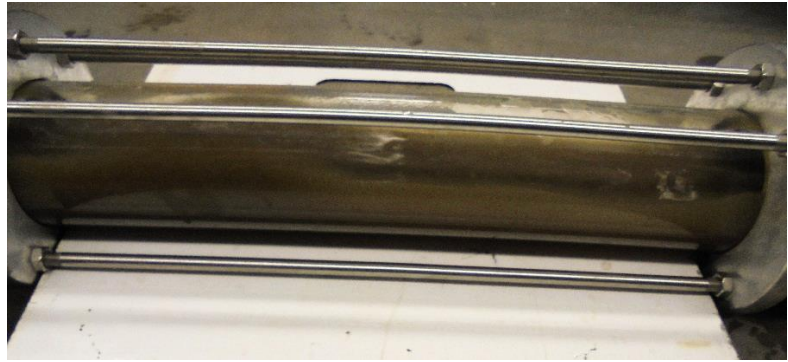


Figure 1: turbidity during cleaning monitored in inspection glass

Cleaning of a cooling system with 10 extruders at a manufacturer of plastic profiles

Assignment

- clean the feed of the main and connection pipes to extruders with Comprex®
- remove deposits and impurities from the system (Figure 1)
- recover system performance

Technical Data

- cooling system with:
 - cooling tower
 - feed and discharge of the main circuit
 - connection pipes to 10 coolings for extruders and cylinders
 - materials PE, PVC and copper
 - diameter up to DN 65
 - cooling medium rain water
- permitted pressure of the system approx. 4 bar

Cleaning using the Comprex® process

- mechanical cleaning by defined application of compressed air from Comprex® unit
- successive procedure by cleaning individual lines via distributor
- central feed of air and water via adapters (Figure 2)
- discharge of air and rinse water via several parallel pipes (Figure 3)
- discharge of rinse water via distributor (Figure 4)
- monitoring the progress of cleaning by turbidity via inspection glass (Figure 1)
- 2 technicians, 10 hours on site

Result of Comprex® cleaning

- deposits and coarse particles are mobilized and discharged from the system (Figure 1 and Figure 5)
- cooling performance recovered
- efficient and reliable operation ensured



Figure 2: central feed of air and water into a shaft



Figure 3: discharge via parallel connections



Figure 4: distributor for discharge



Figure 5: discharged coarse particles in inspection glass during cleaning