

Reference project
Machinery cooling
Plastics processing



Figure 1: injection molding machines

Cleaning of cooling circuits in injection molding machines

Assignment

- clean the cooling system (tool and hydraulic circuit) of the injection molding machine (Figure 1)
- remove deposits from the system
- prepare the components of the injection molding machine for relocation into a new building

Technical Data

- cooling system for injection molding machines
 - Arburg Allrounder: 470 A, 470 H, 470 S, 520 H
 - pipelines of feed and discharge DN 25
 - permitted pressure of the system approx. 3 bar

Cleaning using the Comprex® process

- mechanical cleaning with compressed, purified air from Comprex® unit (Figure 2)
- access to the system via standard adapters (Figure 3)
- discharge into waste water drain shaft (Figure 4)
- multistep procedure:
 - mechanical Comprex® cleaning
 - conditioning with citric acid solution
 - mechanical Comprex® cleaning to purge remaining deposits and citric acid
- 1 technician, approx. 4 hours per machine
- support by technical staff of the customer

Result of Comprex® cleaning

- deposits are mobilized and discharged from the cooling system
- safety and reliability of operation recovered
- improved hydraulics
- performance of cooling ensured
- efficient operation

Customer's statement:

Burkhard Müller and Frank Öwermann, Alhorn GmbH & Co. KG in Lübbecke, Germany
„We ordered Hammann GmbH for the cleaning of tempering units and machining centers during their relocation into a new production building. Cleaning with the Comprex-process has been performed professionally and to our fullest satisfaction. Therefore, our machinery is fully operational in its new environment for our future demands.“



Figure 2: Comprex® unit

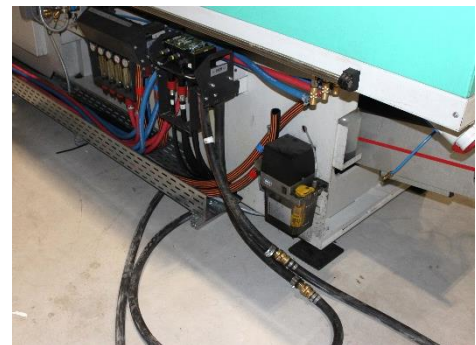


Figure 3: connection to cooling circuit via standard adapters



Figure 4: discharge into drain shaft