comprex
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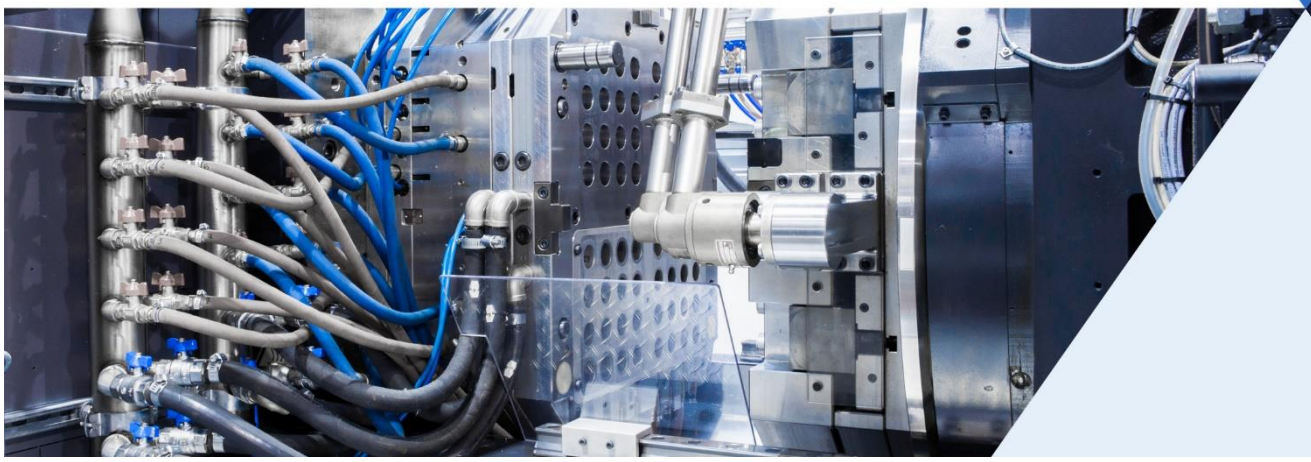
Krauss Maffei
Pioneering Plastics

We go one step further! Get to know comprex® ToolClean

comprex® ToolClean – Cleaning in the world of plastics



Do you have problems with deposits, downtimes and reduced cooling capacity in the plastic injection moulding sector?

Then we have the solution for you!

comprex® ToolClean cleans the cooling and temperature control circuits of the moulds.

Purely mechanical - with air and water.

This counteracts the build-up of deposits, biofilms and corrosion elements and ensures minimal waste in your production.

Advantages of comprex® ToolClean at a glance:

- Patented cleaning technology - without chemicals
- Independent of geometry
- Gentle cleaning process without pressure surges
- Energy saving: clear pipes - less pump energy
- Water saving, automated cleaning technology
- Improved cycle time
- Reduces cleaning time
- Stable production processes
- Constant product quality, therefore less scrap
- Improved cooling performance and hydraulics
- Mobile, stationary and system-oriented
- Cleaning of several channels possible at the same time
- No dismantling
- Cleaning of cooling lines up to 12 mm diameter and 8 m length
- Successful solution to meet legal requirements,
- e.g. sustainability CO2, energy management EN 50001
- Reduced need for water additives e.g. corrosion inhibitors or biocides
- Low maintenance
- Reduced wear of pump impellers of the temperature control units
- due to clean cooling water
- High-quality components
- Developed and made in Germany

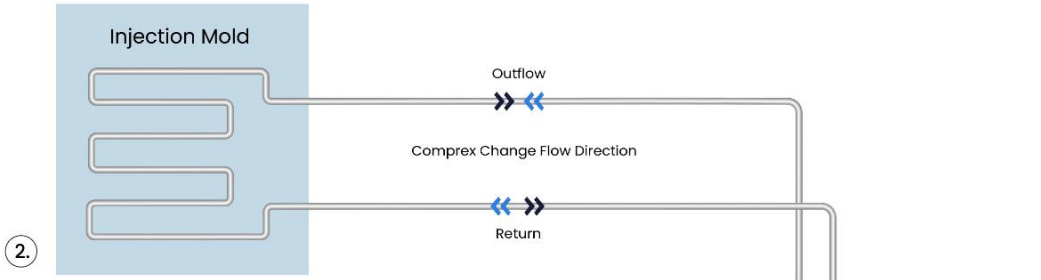
comprex® ToolClean is broadly applicable in plastic injection moulding

Areas of application for comprex® ToolClean

Mobile

- Cleaning of tools after dismantling and before equipping
- Cleaning of tools utilized by the machines as needed during breaks or maintenance work

Mobile Usage



ToolClean System

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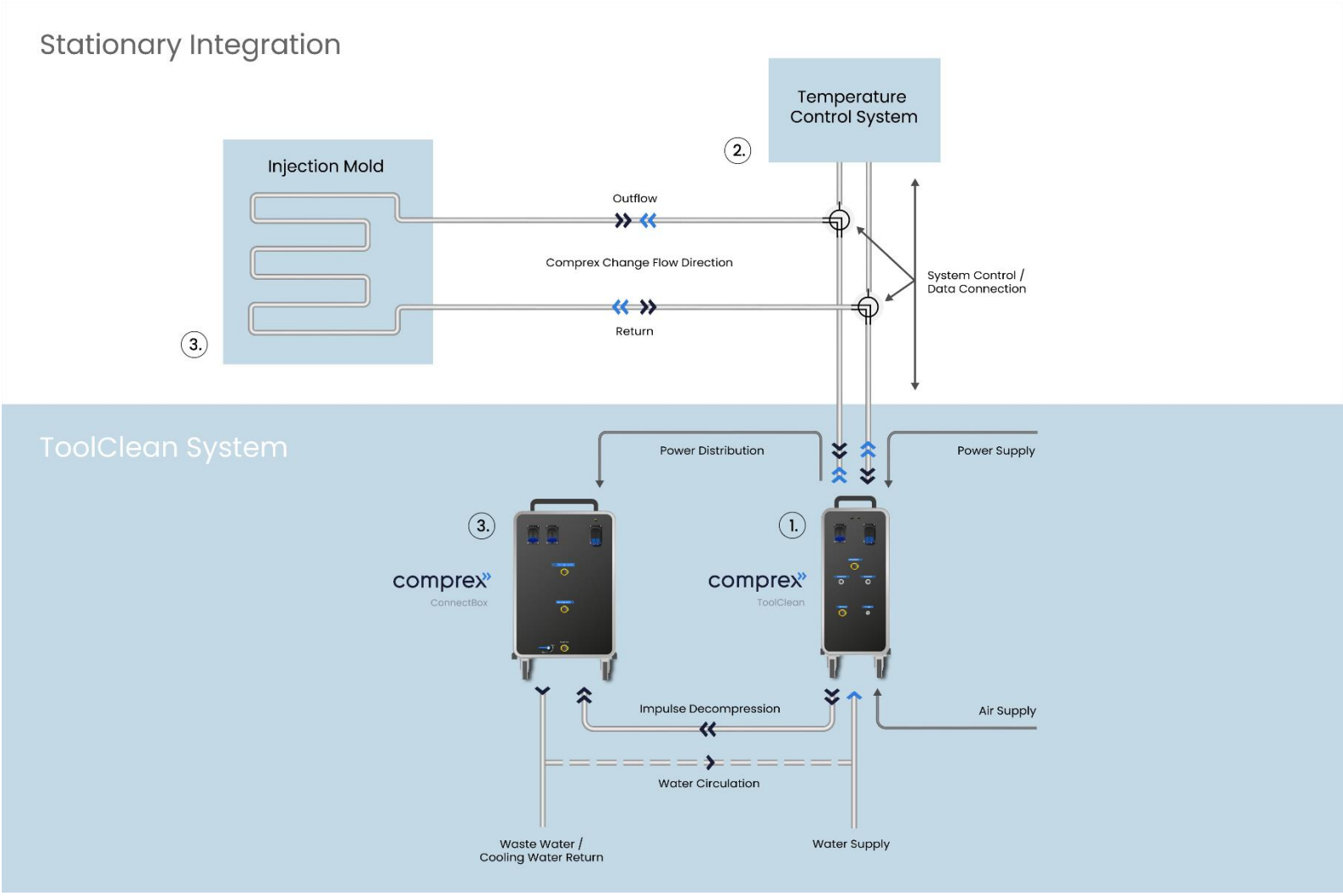
Stationary

- Stationary positioning on plastic injection moulding machines
- Integration of comprex® ToolClean into the temperature control circuits
- Return of the cleaning medium to the cooling circuit via ConnectBox
- Preventive or on-demand cleaning during breaks or maintenance work
- Manual or system-integrated



Special applications

- Reactivation of tools with severe accumulation of deposits
- Circulation of chemicals with ConnectBox alternating with comprex®
- Cleaning of temperature control units (sutibalitiy assumed)

comprex® ConnectBox

Decompression

- Depressurization and separation of the two phases compressed air and water

Separation

- Pre-filtration of the mobilised solids and sediments
- Internal filter fleece for documentation of the cleaning result

Filtration

- If required, filtration of the rinsing water through its own filter unit
- Redundant implementation (two parallel filter units) for uninterrupted operation

Circulation

- Integrated pump for returning the cooling water to the cooling system
- Alternative disposal of the waste water through outlet
- Provision for hydraulic measurement of the cooling ducts

Injection

- Addition of auxiliary substances (surfactants, processed water) possible in circulation mode

With our comprex® process, we offer an effective, sustainable and resource-saving cleaning alternative.

For more information on ToolClean, please visit: comprex.de/ToolClean

Successful practical example:

We cleaned the cooling and temperature control circuits of 2 moulds at KraussMaffei's technical centre in Munich. You can find all the results and the procedure under:

Practical example

We will be happy to advise you.

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