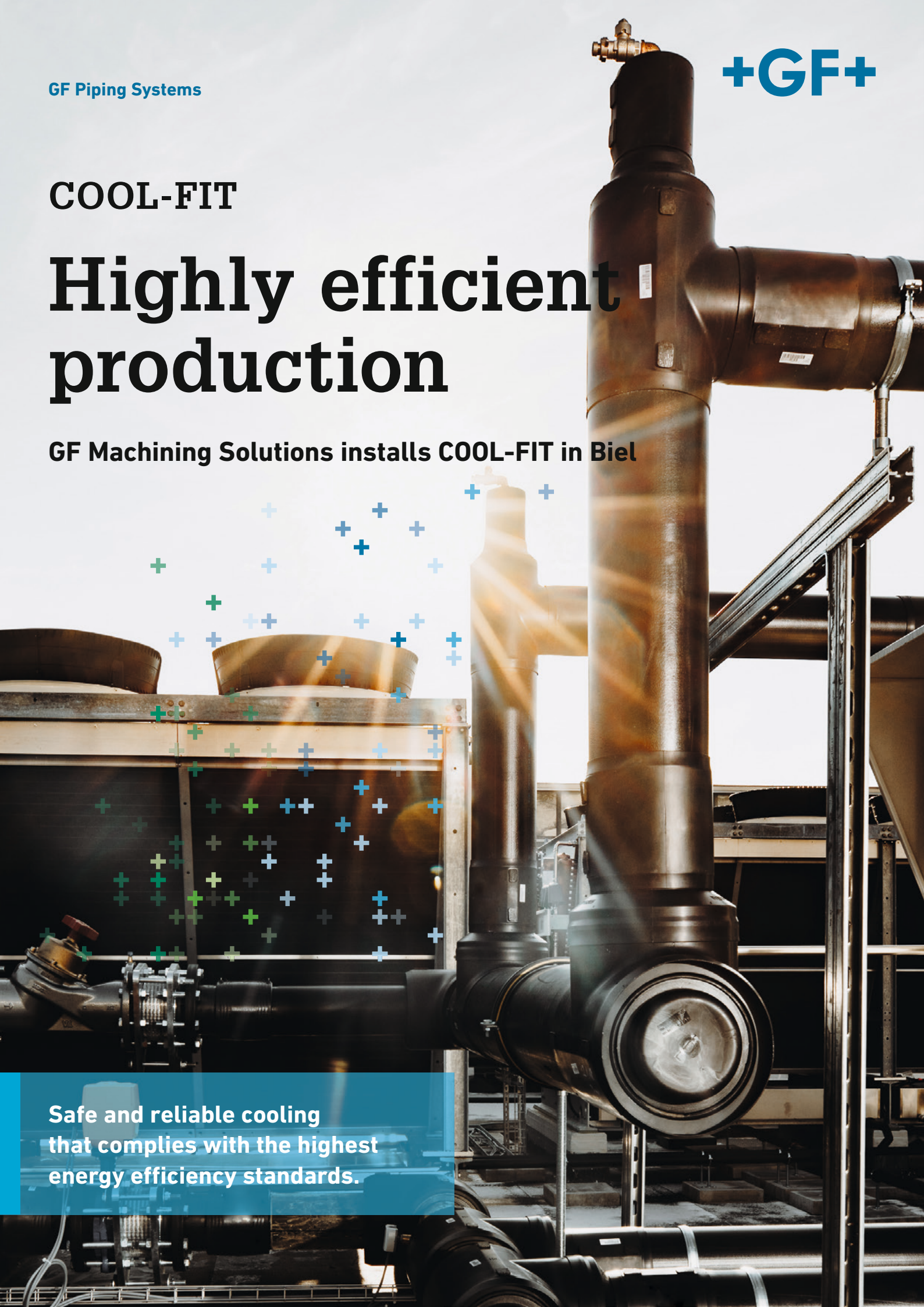


COOL-FIT

# Highly efficient production

GF Machining Solutions installs COOL-FIT in Biel

Safe and reliable cooling that complies with the highest energy efficiency standards.



# Safe cooling with COOL-FIT for maximum production output

GF Machining Solutions has built a state-of-the-art plant in Biel (Switzerland) for the production of machine tools and spindles. The site also boasts a cutting edge research and development center and a modern application center. The plant provides space for around 450 employees.

## Project background

The new innovation and production center complies with the strictest energy efficiency standards, with the plastic piping systems COOL-FIT 2.0 and COOL-FIT 4.0 for cooling and sanitary applications. These are to be found throughout the building, in production for process cooling, but also for the air conditioning of the office space. GF invested around CHF 100 million in the new industrial building.

## Selected technical solution

6'500 meters of pipes with dimensions from d32 mm to d225 mm, plus hundreds of different fittings and valves, were installed to cool the new industrial building with an area of 44'000 m<sup>2</sup>. The PE100 pipes and fittings in the COOL-FIT piping system from GF Piping Systems are insulated with highly efficient (HE) foam and protected with a robust jacket. This makes COOL-FIT the most durable, condensation- and corrosion-free solution for the transport of cold water.

## Improvements achieved

On average, the installed piping systems COOL-FIT 2.0 and 4.0 are 30% more energy-efficient than a metal piping system. Additionally, even more savings are achieved thanks to the better insulation and lower temperature conductivity of the eco-certified plastic system. The lower energy consumption becomes apparent not only looking at operating costs, but also contributes to better protection of the environment thanks to lower CO<sub>2</sub> emissions during production and transport. Furthermore, the new piping system wins the race with a long lifetime, maximum corrosion resistance and an appealing design.



Connection manifold on production machines.



Recooling on the roof of the production hall.

## Customer benefits

- **Cost savings through lower CO<sub>2</sub> emissions, thanks to high energy efficiency from pre-insulation.**
- **High production capacity by avoiding operational interruptions**
- **For service, thanks to corrosion-free pipes.**
- **High staff satisfaction thanks to the reliable and safe**
- **Cooling system in the office and production areas.**

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