

Sustainability that pays off.

The new Profiroll Rolling Die Shop – sustainable and efficient



The new Profiroll Rolling Die Shop under construction

Right now the new Profiroll Rolling Die manufacturing plant is under construction. This shop will operate as efficient as possible with usage of natural, renewable resources. On 2500 m² the most modern grinding center will be built that ensures efficiency and biggest savings of energy and allows a modern work environment for its employees.

Profiroll on growth course. While using existing areas near the headquarter a wide range of manufacturing capacity has been installed to fulfill customer needs: Mainly a short delivery time and quality satisfaction. Besides this, sustainability, efficiency and the individually perfect working place have not been in focus too much.

Due to the positive economic development the step was planned to set-up

a completely new factory: The Profiroll Rolling Die Shop. On prospective 2500 m² Cold Rolling Dies will be machined under consideration of optimal process chains with focus on lowest auxiliary times and shortest distances. In addition secondary targets have been defined under pressure to save energy and avoid emissions.

Many grinding machines for precise Rolling Dies create a lot of heat. Instead of using local cooling systems for every machine, as it was done in the past, one centralized cooling system for the whole plant will be installed. Main advantage: The bigger the cooling system, the bigger the savings due to higher efficiency. Rational calculations show at least savings of 315.000 kg CO₂ per year based on the 65% higher efficiency.

Instead of using warm water generation by using a heat pump or solar thermal system of bigger size the production related waste heat of



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compressors for pressured air is used to heat up industrial and showering water of employees to 60°C. This seemingly trivial idea saves 22.000 kg CO₂ per year.

Beyond the company an artesian well is located with an output of 36 m³ water per hour. In the future this spring water will be used to create a more pleasant environment for workers – in wintertime warm, in summertime cooler – and to ensure a stable climatic environment to keep stable microns in production.

Facts:

- Savings of 315,000 kg CO₂ per year thanks to a central cooling system for production technology
- Savings of 22,000 kg CO₂ for hot water production for domestic hot water
- Savings of 300 kWh per year thanks to artesian well

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