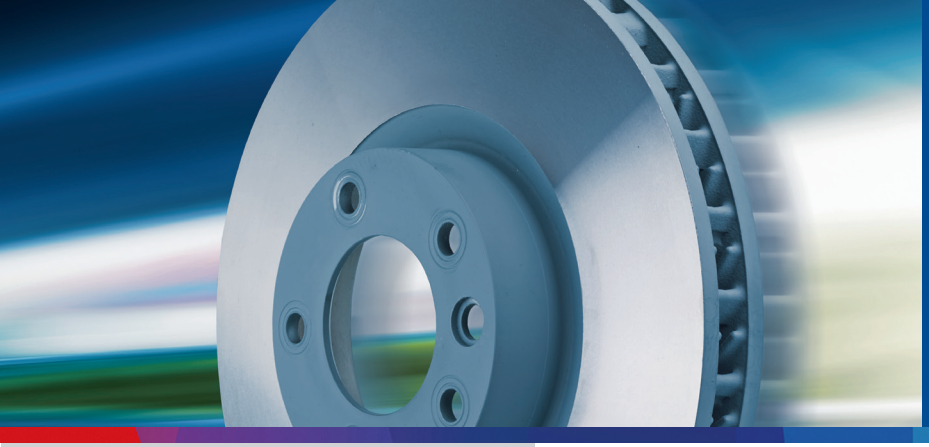


Buderus
GUSS

# Newsletter

May 2022

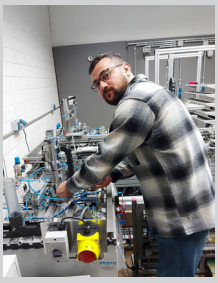
## Brief reports

WIN WIN

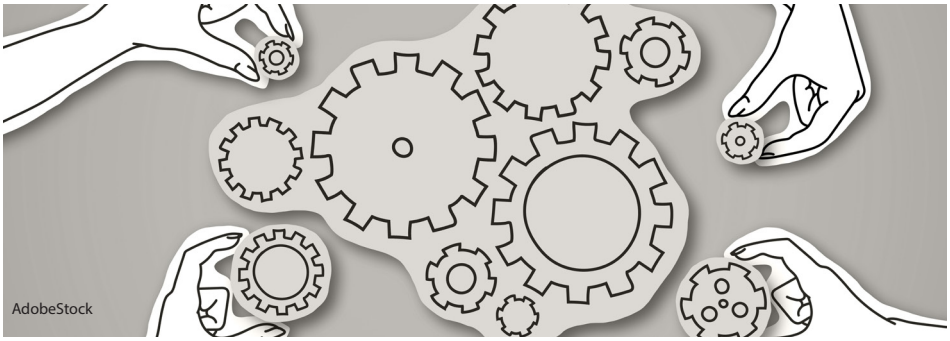
### Training portfolio expanded

External training for machine and plant operators at Buderus Guss restructured

For many years, Buderus Guss has offered its employees the opportunity to prepare for the external examination with the aim of gaining professional qualifications and thus also being able to work more proficiently in their area of responsibility or to develop further in the area of machine and plant operator. Up to now, the external training took place in a network, i.e. only the practical part was completed in the Buderus Guss training workshop. Now Buderus Guss has expanded its training portfolio by bundling both the practical and the theoretical part in the training workshop This has many advantages. The two training supervisors, Alexander Blöcher and Stephan Lauber, now do what the vocational schools would otherwise have done. "We have thus created a real win-win situation. We can offer quasi-tailored solutions for the learning objectives and provide the future machine and plant operators with individual support in terms of both time and subject matter," explains Henry Hornburg from Buderus Guss Human Resources Development.



Fahrettin Taskiran (left) and Osman Ciraci are the first to complete both the practical and theoretical parts of the exam preparation in the training workshop at Buderus Guss as part of the reorganisation.



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## Successful teams at Buderus Guss get optimization projects off the ground

### Burr-free casting of solid brake discs

The aim was to save a work step in the raw casting processing in order to save time and costs without much effort.

Background: During the casting of solid brake discs, a burr formed on the outer diameter of the brake discs due to the process. As small as this burr appeared, it nevertheless necessitated an operation in the machining of the raw castings. The burr had to be ground off in order to allow any further machining at all. The riser connection was identified as the cause of the burr residue.

A small trick with a big effect brought the desired result: In the casting technology, the feeder connection and the gate geometry could be optimized so that this ‚unpopular' burr no longer occurred during casting.

"The estimated savings potential from the elimination of burr grinding for solid brake discs is in the high five-digit range in the future and opens up further possibilities for us for future optimization projects," says Steffen Sasse, Foundry Manager at Buderus Guss.

The result after about half a year of project work: The brake disc is cast burr-free due to modified feeder connection and gate geometry.

### Reduction of moulding material costs

Reducing the amount of moulding material on the moulding lines offers potential savings in many respects: the less moulding material per moulding bale, the less mixing is required, material wear is reduced, variable costs such as additives for moulding sand, energy and maintenance are reduced, time is saved and the environment is less polluted.

Moulding material is the sand mixture from which the moulds - the so-called bales - are made.

Sabrina Müller, process engineer at Buderus Guss, initiated the optimisation project six months ago and, together with the moulding plant team, the first successes have now been achieved.

"According to certain parameters, the moulding sand quantities per bale were reduced so that, in addition to saving process costs, we were also able to effectively shorten the cycle times in some cases and thus become faster. As part of the project, we jointly defined and reviewed the possible risks associated with reducing the bale thickness. Our goal is to achieve the maximum possible reduction in bale thickness with maximum process reliability," explains Hans-Christoph Bodenburg, Group Manager in the Moulding Systems Team at Buderus Guss.