

# Overengineered!?!

## MAGMA ECONOMICS

Technically Sound, Economically Smart.





# MAGMA ECONOMICS

Reduce **Cost** & **CO<sub>2</sub>**.  
Secure **Quality**.



## PROJECT PARAMETERS:

- **Product:** Brakedisk
- **Process:** sand casting, horizontal molding line
- **Metal:** cast iron, GJL-350
- **Casting weight:** 6 kg
- **Production volume:** 500,000/year
- **Cavities per mold:** 8 vs. 4
- **Cycle time:** 60 sec. vs. 22,5 sec.
- **Number of filters:** 4 vs. 1



**WITHOUT  
MAGMA ECONOMICS\***

**WITH  
MAGMA ECONOMICS\***

**QUALITÄT:**



OK

0,0 %

No change

OK

**KOSTEN:**



2.27 €/part

**-10 % per part**

Δ 0,23 €/pt. saved

2.04 €/part

**CO<sub>2</sub>:**



4.8 kg of CO<sub>2</sub>eq

0,0 %

No change

4.8 kg of CO<sub>2</sub>eq

Total savings:  
**115,000 €**

\*MAGMA ECONOMICS is an integral part of MAGMASOFT®

**MAGMA ECONOMICS** identifies savings potentials throughout the entire process – from **design variants**, to **casting systems**, to **process parameters**.

Become more cost-efficient and sustainable – without quality risk.

The complete story:

