

GEARBOX HOUSING NON-FERROUS FOUNDRY FEEDING SYSTEMS



Sustainable and efficient foundry solutions: The FEEDEX NF1 Advantage

SUSTAINABILITY

THE CHALLENGE

As a leading foundry in Italy, Morini was committed to investing time and money in sustainable methods that would help reduce energy consumption and improve worker safety while increasing productivity. They were seeking innovative solutions that could help them achieve these goals and maintain their position as a major player in the European foundry sector.

FOUNDRY:

Fonderia Morini in Cotignola, Ravenna, Italy is one of the main aluminium foundries in Italy, using automatic sand casting technology and more recently the gravity die casting. Led by the founder's sons, the company invests in sustainable growth and produces high-quality castings.

PARAMETERS

Alloy: AlSi7Mg0.3 Casting weight: 22 kg Pouring weight old version: 61 kg Pouring weight new version: 48 kg Savings per casting: 13 kg Pouring temperature: 740 °C

FOSECO PRODUCTS

Old version:

5x natural feeders 4x KALMIN S 8/11K feeder sleeves 1x KALMIN S 4/95K feeder sleeve

New version:

4x FEEDEX NF1 VSN 191 feeder sleeves 2x FEEDEX NF1 VSN 72 feeder sleeves 1x FEEDEX NF1 VSN 118 feeder sleeve 1x FEEDEX NF1 VSN 35 feeder sleeve 1x KALMIN S 4/95 K feeder sleeve



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OUR SOLUTION

Our FEEDEX NF1 special exothermic feeders helped Morini eliminate the need for exothermic riser powders, reduce energy consumption and improve worker safety while increasing productivity. The FEEDEX NF1 concept delivered high exothermicity with improved feeding performance, very high strength, and easy and quick knock-off of the sleeve and riser stub.

KEY BENEFITS

- Casting weight reduction
- Number and size of sleeves reduction
- Reduced energy consumption (energy savings)
- Reduced fettling costs
- Less Aluminium remelting
- Higher productivity



THE OUTCOME

They have found in our FEEDEX NF1 special exothermic feeders, an ideal solution to save energy and time, reducing by almost 30% - 40% the total need of melted metal. It resulted in minimizing fettling costs, reducing process variation and lowering emissions. With the use of our FEEDEX NF1 special exothermic feeders, Morini was able to achieve their sustainability goals and maintain their position as a leader in the foundry industry.

Before (MAGMA Simulation - Solidification)





After (MAGMA Simulation - Solidification)

THINK BEYOND. SHAPE THE FUTURE.



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