FOSECO

INTELLIGENT COATING UNIT (ICU) INSTALLATION TO AUTOMATE COATING APPLICATION

PARAMETER:

Alloy:	Grey and ductile iron
Core Making:	Up to 30kg
Pouring Temp.:	1400-1450 °C
Pouring Weight:	Up to 180kg per cluster
Moulding Process:	High precision shell moulding

HIGH PRECISION GREY AND DUCTILE IRON CAST COMPONENTS

FOUNDRY:

RSM Castings Ltd are located in Northampton, England. The company was established in 1975 to specialise in the shell moulded process and produce more than two million castings per year in grey and ductile iron.

FOSECO PRODUCTS

SEMCO* Sil 3104 F Coating

SEDEX* Filter

FEEDEX* Feeder Sleeve

POLITEC* Cold Box Binder

KEY BENEFITS

Operator independant

Uniform and consistent layer thickness

Data recording for audits

System is almost maintenance free
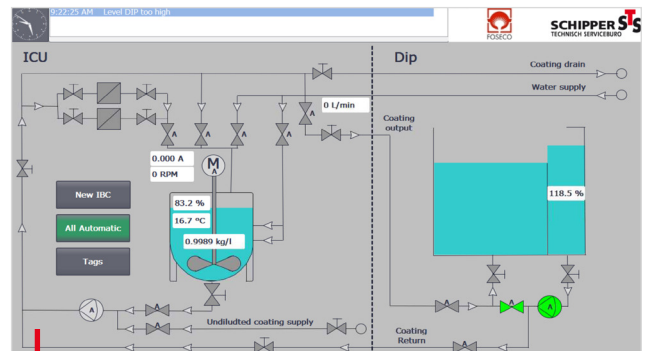
Smart, web connected control cabinet with touch screen remote viewing/data logging

ICU connected to container - automating preparation and application

THE CHALLENGE

To meet latest automotive industry demands RMS was challenged to improve coating application consistency, reduce casting defects at the same time, automate coating control and adjustment and to improve quality control.

OUR SOLUTION

The Intelligent Coating Unit (ICU) automates the process of measuring and controlling the dilution of refractory coatings to ensure the correct consistency is maintained and the properties required for optimum application are achieved.

THE OUTCOME

The use of the ICU unit resulted in a uniform coating layer thickness, reduced coating waste and increased core shop productivity by 25%. Casting scrap and rework levels were also reduced.

VESUVIUS

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