



FERROUS FOUNDRY

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Casting: High Precision grey and SG iron cast components

#### Foundry:

RSM Castings Ltd – Northampton, England

#### **Objectives:**

- Improve coating application consistency
- Reduce casting defects
- Automated coating control and adjustment
- Improved QC and standards to meet latest automotive requirements

## Alloy:

SG & grey Iron

## **Core making:**

Up to 30 kg

#### **Pouring temperature:**

1400-1450 °C

#### **Pouring weight:**

Up to 180 kg per cluster

#### **Moulding process:**

High precision shell moulding

## **Requirements:**

- Reduce wet layer thickness variation
- Automate coating use • Be compatible with latest best practise
- standards for robot dip application
- Improve QC recording for coating
- Supply a simple, robust and easy to use equipment

### Problems:

- Dip tank is also used to supply coating for other applications
- Operators dilution variations
- No reproducible coating control •

#### Improvements:

- Automated coating control and readjustment
- Reduced coating waste
- Reduced scrap level
- Impressed customers customer due to OC records

## **Foseco Products**

- SEMCO\* Sil 3104 F
- **SEDEX\*** Filter
- **FEEDEX** feeder sleeve
- **POLITEC Cold Box Binder**



Intelligent Coating Unit



Smart, web connected control cabinet with touch screen remote viewing/data logging



Only 3 buttons to operate



Advanced, fast and maintenance free inline density measurement system

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# **Key Benefits**

- Operator independent and consistent dilution of SEMCO Sil 3104 F resulting in a very regular layer thickness
- Uniform + consistent wet layer
- Data recording for audits .
- System is almost maintenance free
  - Very simple online access

