

Foundry Practice - Latest Edition

Foundry Practice 249

Foundry Practice is Foseco's technical journal and is provided free of charge to the foundry industry.

First published in 1932, Foundry Practice aims to keep customers informed of the latest developments in our proprietary products and services and encourage the implementation of best practice.

Articles highlight the latest innovations and show case studies of how we have worked with customers to improve processes, productivity and ultimately profitability.

Advances in process control, casting quality and energy efficiency through ladle lining technology.

Akdas Steel Foundry has adopted the KALTEK* ladle lining system for bottom pour ladles with capacities of 2 – 20 tonnes. The system provides technical and financial benefits relating to casting production. These include consistent pouring temperatures, elimination of ladle preheating, improved ladle related Health and Safety together with improved as cast quality.

PDF (3.87 MB)

Steel casting for Vienna's new ultra-low-floor tram.

Siemens Verkehrstechnik is one of the largest suppliers of systems for trams and other railbound vehicles in the world. This new Ultra-Low-Floor (ULF) tram used in the city of Vienna is equipped with the newest and most highly developed technology. The FWH steel foundry in Mülheim/Ruhr (Germany) delivers the portal wheel arches for the ULF vehicles.

The finishing of castings and the wheel arch sub-assembly takes place at GGH-Radsatz GmbH in Oberhausen.

The final assembly of the trams is done in Vienna at Siemens SGP Verkehrstechnik.

PDF (320 KB)

The influence of filter type and gating system design on the machinability of vertically parted grey iron castings.

This report describes the effects that well established different filter types and running system designs have on the machinability of vertically parted moulded castings.

Foundries with vertically parted moulding lines normally want to avoid applying filters because their use can, in some cases, lead to extended cycle times. Consequently, the use of filters has been relatively modest. Recently, however, increasing quality demands has led to a renewed interest from foundries.

PDF (459 KB)

Production of iron castings utilising a new generation of feeding systems.

A new generation of feeding systems has been developed to increase the pattern yield and reduce casting scrap by providing a consistent feed profile combined with ease of application and removal. The KALMINEX* K sleeve/core feeding system design was developed for use in medium-pressure, automated, horizontal, greensand moulding lines.

PDF (334 KB)