



## FOSECO PRO MODULE FOR MAGMA<sup>5</sup>



LIBRARY OF 3D GEOMETRIES AND THERMO-PHYSICAL DATA

- + Sleeve material data
- + Filter pressure drop data
- + Heat transfer coefficients
- + Parametric 3D library
- + Database search functionality

# THE FOSECO PRO MODULE FOR MAGMA<sup>5</sup>

Library of 3D geometries and thermo-physical data

The Foseco Pro Module is a parametric 3D library of sleeve and filter products, combined with proprietary thermo-physical data, which has been integrated directly into MAGMA casting process simulation software.

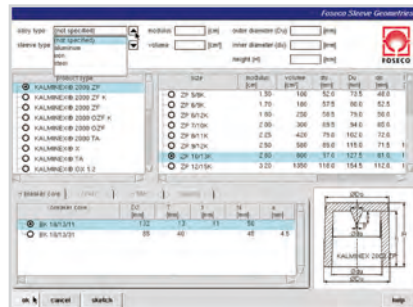
This tool, jointly developed by Foseco and MAGMA, supports the foundry simulation engineer by greatly simplifying the modelling of Foseco products and their performance within MAGMA<sup>5</sup>.

Simulation accuracy is improved by using performance data specific to Foseco sleeve and filter types, leading to greater confidence in the results.

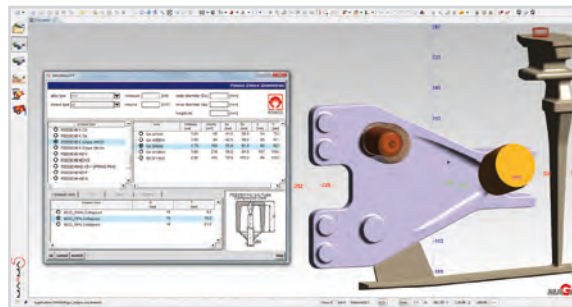
It facilitates optimisation of the casting quality and casting production processes, primarily through improved gating and risering system design.

## Key Functionality

- + Search and select from a library of Foseco sleeve or filter products directly in the MAGMA<sup>5</sup> geometry perspective.
- + Once a product is selected, it is automatically imported into MAGMA<sup>5</sup> as a 3D model.
- + Sleeve material thermo-physical data, filter pressure drop data and relevant Heat Transfer Coefficients are automatically assigned to their respective geometries.
- + The models are fully parametric and the user can easily change the size or configuration of the chosen product.
- + The library and functionality of the Pro Module is designed for use in gating and risering optimisation studies with MAGMA 5.3.



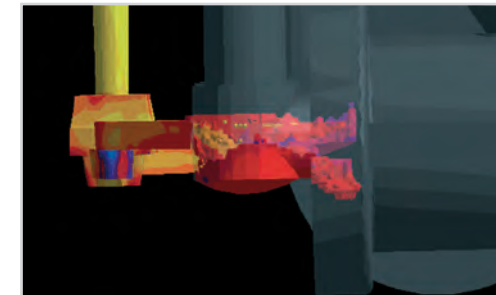
The Foseco feeding systems database interface



The Pro Module interface in MAGMA<sup>5</sup>



Simulation analysis of casting filling and solidification



Simulated filling of Valve Casting



Accurate thermo-physical data allows for correct prediction of filling, solidification and feeding of the casting



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COMMITTED TO FOUNDRIES

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