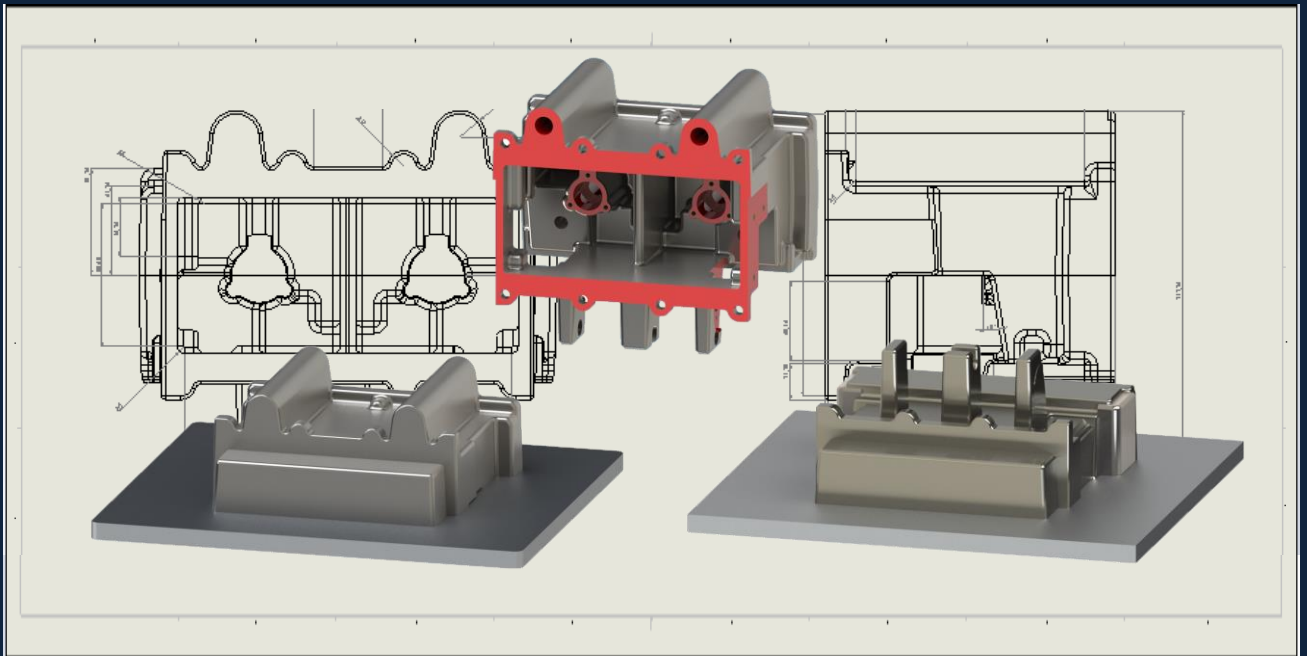


AutoCAST-Tooling

Create accurate models of as-cast part, pattern and core box in minutes



Are there any undercuts that need cores?

What is the best parting line to facilitate molding?

Where and how to apply the draft allowance?

How molten metal will feed during solidification?

Answer these and other important questions using AutoCAST Tooling – an innovative solution for semi-automatically creating models of as-cast part and tooling from as-machined parts.

Integrated into standard CAD software, the Tooling module gives users the power and flexibility to generate precise models in a short time within a familiar user interface.

Powerful analysis functions for parting plane, undercut and feeding provide automatic as well as interactive methods for creating the pattern design with minimum iterations.

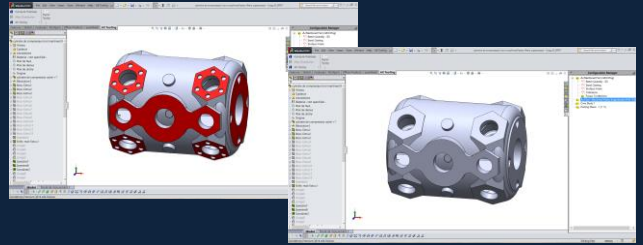
In-built functions suggest the correct values of machining, shrinkage and draft allowance, in accordance with various national and international standards.

Weight changes and design modifications at various stages can be visualized and documented. The models can be used for machining and inspection, and to generate 2D drawings.

AutoCAST-Tooling Features

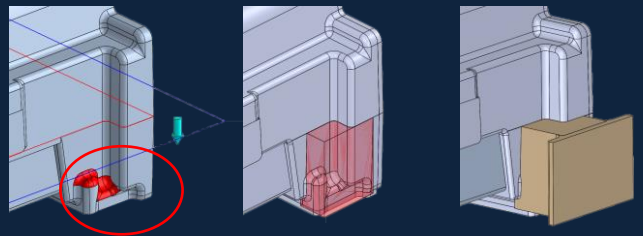
Machined holes

- Auto detection of faces to suppress on as machined part
- Multiple hole suppression in a single click
- Highlighting the weight variation from as machined to as cast



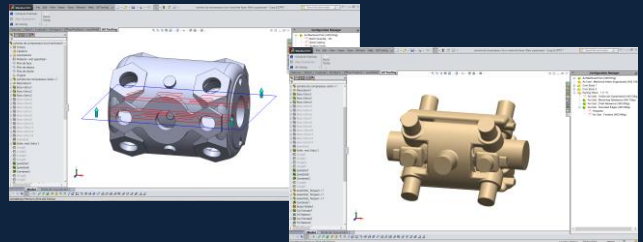
Parting Line & Undercuts

- Auto selection of parting plane location
- Identification of undercuts for a given parting plane
- Undercut volume merging with part
- Undercut core generation with core prints



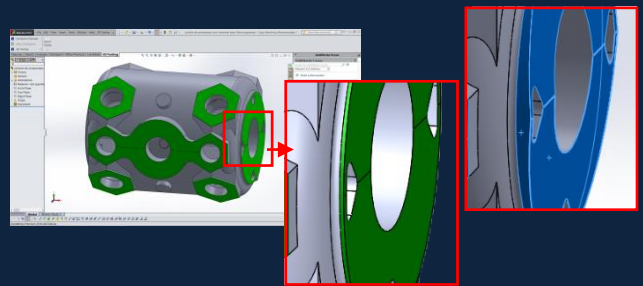
Cavity Cores and Core Prints

- Core model generation for complex cavities
- Shell core creation
- Core print generation



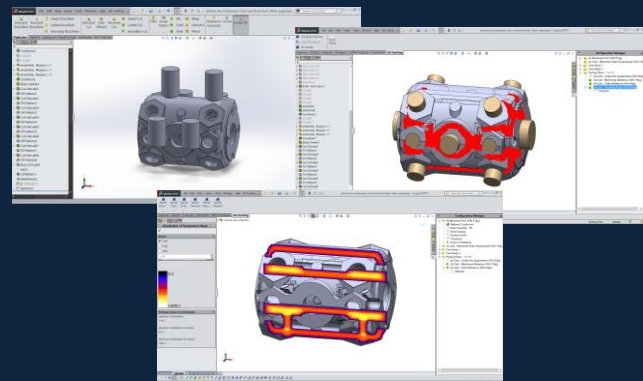
Allowances

- Machining allowance addition based on ISO 8062
- Unique draft allowance for each face
- Material specific shrinkage allowance



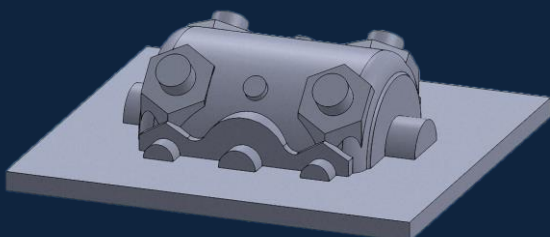
Feeders

- Hot spot simulation to identify location of feeders
- Modulus based feeder addition
- Easy selection of feeder design from multiple templates
- Identification of directional solidification issues



Pattern & Drawings

- Creation of cope and drag pattern models as final output
- Drawings with key dimensions highlighted



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