

Best Selling Software in Japan on Casting CAE


The Highly-Integrated CAE System for Casting

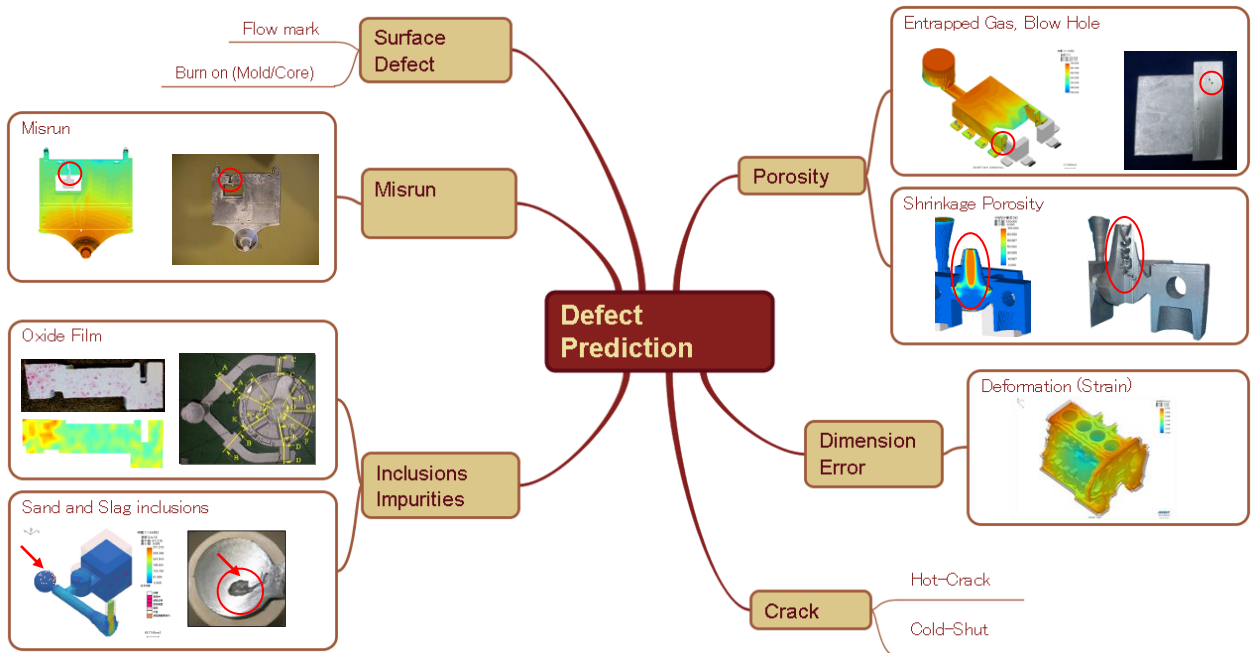
JSCAST



JSCAST - the casting simulation software evolving year-by-year, is mainly focused on the **high-accuracy** , **high-speed** and **high user-friendship**.

We offer our customers products and solutions with the **best cost-performance** and **best services** (initial training course, technical support).

【Simulation with High Accuracy】	【Benefits to Users】
 <p>Gas entrainments are very well reproduced in the simulation</p> <p>Evaluation of mold filling simulations using X-ray radiography</p>	<ul style="list-style-type: none"> • Low rejection-rate, High yield-ratio, Short lead-time (cost down) • Better solutions, and better qualities (More contracts) • Accumulation and heritage of casting technologies (Young engineer education) • Globalization (Reinforce collaboration between branches and departments, domestically and abroad)



A powerful casting CAE tool. Applicable to any of the casting alloys and most of the casting processes. Capable to identify main causes of various casting defects and develop counter-measures more effectively.

QUALICA Inc.

<http://www.qualica.co.jp/>

Simulations of An Investment Casting of large Scale

The 13th World Conference on Investment Casting

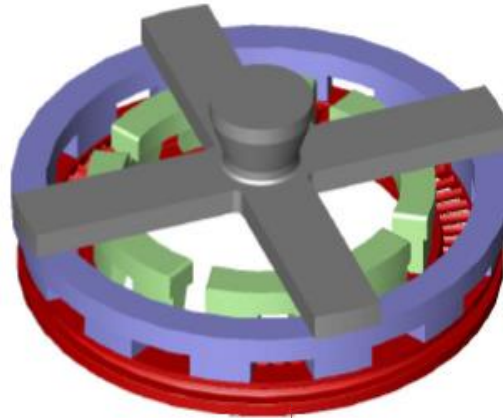
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Courtesy of King Parts Ltd.

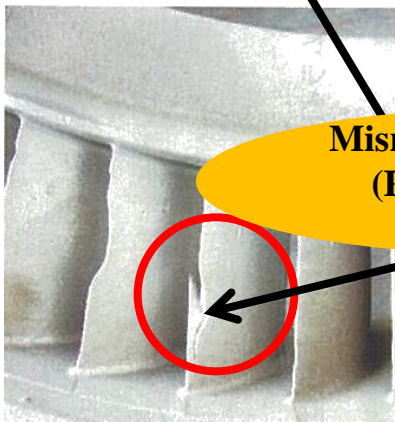


Casting Product

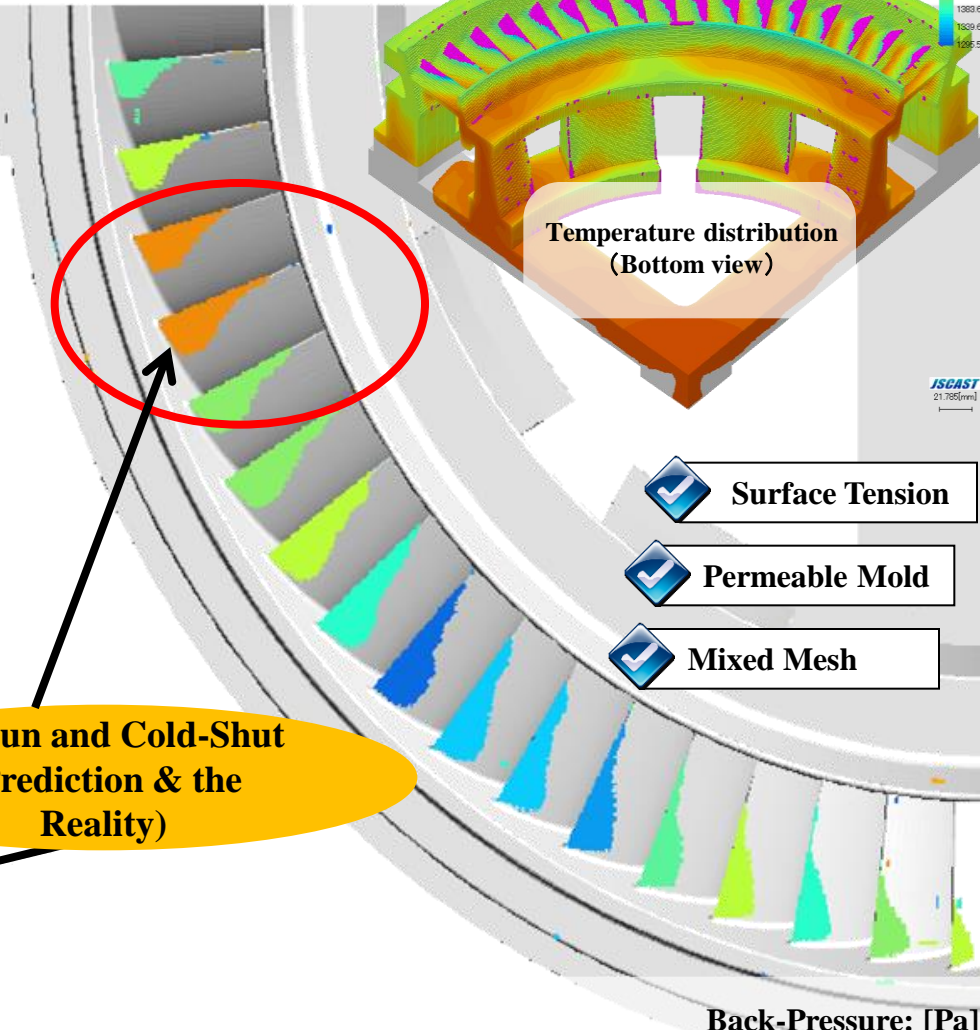


Initial Casting Design

Simulation Conditions
 Casting alloy : SCS13
 Pouring Temp: 1670°C
 TL: 1460°C
 TS: 1390°C
 ρ : 7.0g/cm³
 C_p : 0.18cal/g/°C
 λ : 0.07cal/g/°C/cm
 H : 50cal/g
 σ : 1800mN/m
 Contact Angle: 160°
 K (mold): 0.2 (JIS)
 Viscosity: 0.5(cm²/sec)
 (Temperature-dependent)



Misrun and Cold-Shut
 (Prediction & the Reality)



Back-Pressure: [Pa]

QUALICA Inc.

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