

# SAVING-CAST LT



Calculation of the metal charge for melting black and nonferrous metals

Easy to Use

Operational Excellence

Reducing Cost

Optimizing Resources

Improving Quality

Sustainable Development



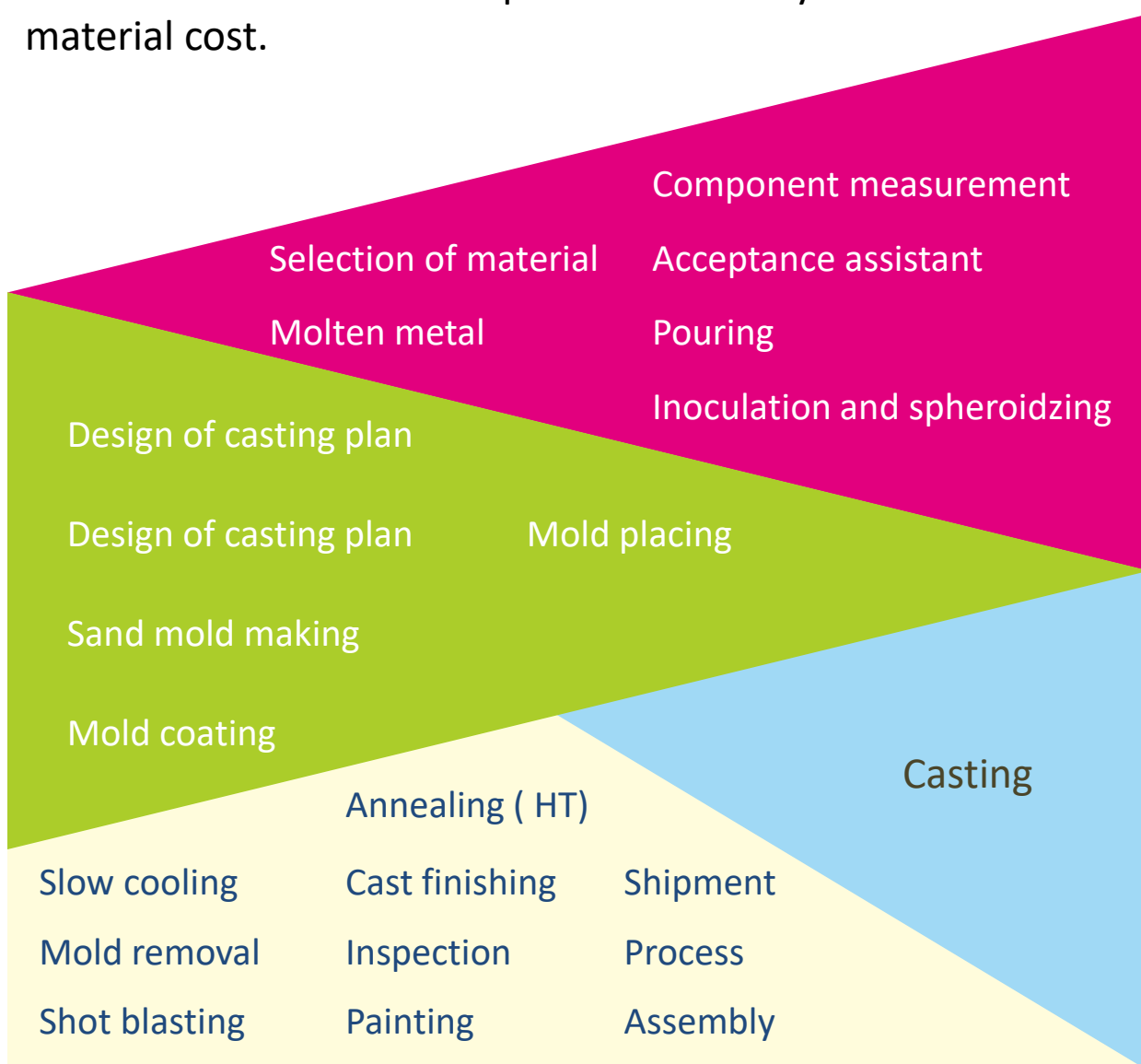
Calculation of the metal charge for melting black and nonferrous metals

## Casting Alloy Charging

SavingCAST is used for determination of the optimum structure of metal charge components for melting foundry alloys, including multi-component, cast irons, steels, aluminum, copper and other alloys of the set chemical composition.

The software also takes into account waste or increase of elements in the process of fusion. The build-in optimizer can help find the best balance of the cost and chemical composition accuracy to save material cost.

- For example: Scrap materials may contains expensive ingredients. Find out the best mix of scrap grades, fresh raw materials, ingots, to arrive at the required composition of alloy material. Min ingredients are selected based on cost and composition of various scrap materials available in stock.
- Automatic calculation of casting with cost optimization using the relevant information of the raw material in stock, always within the constraints imposed by the user.
- SavingCAST will let you prepare your charges at the lowest cost, saving time, avoiding human error, managing the stock and keeping track of your operations.
- SavingCAST is suitable for all casting process.



Reducing The Cost of Charges Up to **25%**

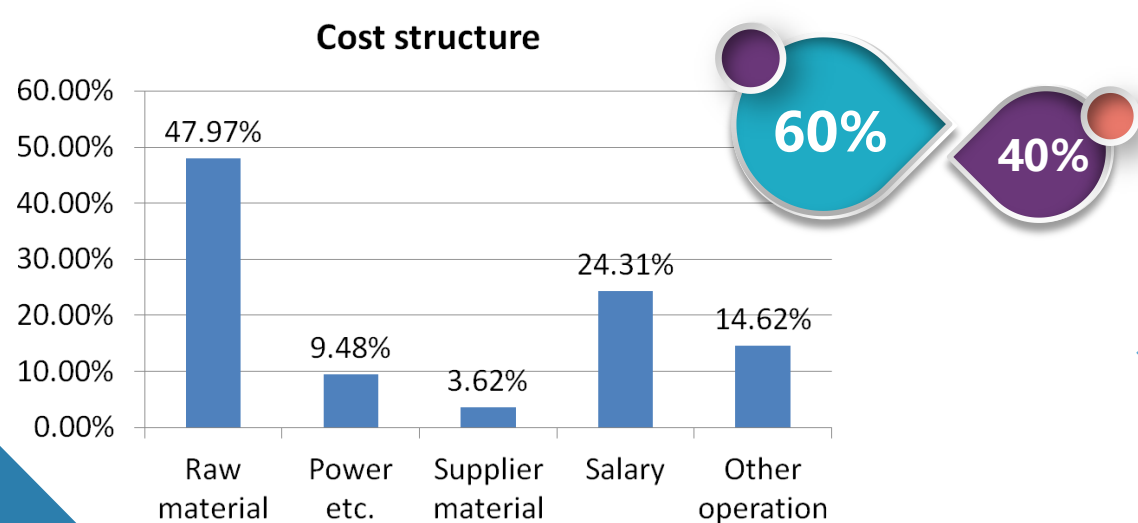
Improving **Quality** and **Competitiveness** of Your Company

Fast **Response Capability** to Changes

[www.c3p-group.com](http://www.c3p-group.com)

# Functional Features

- Working with the unlimited list of charge components
- Charge calculation for any multi-component alloys
- Calculation of the charge optimum structure at minimum cost
- Charge calculation on the basis of an average chemical composition of an alloy, within the limitations set by standards
- User defined databases of alloys and charge components
- High speed of computing processing
- Flexible result analysis tools
- Calculation result report transfer to MS Excel



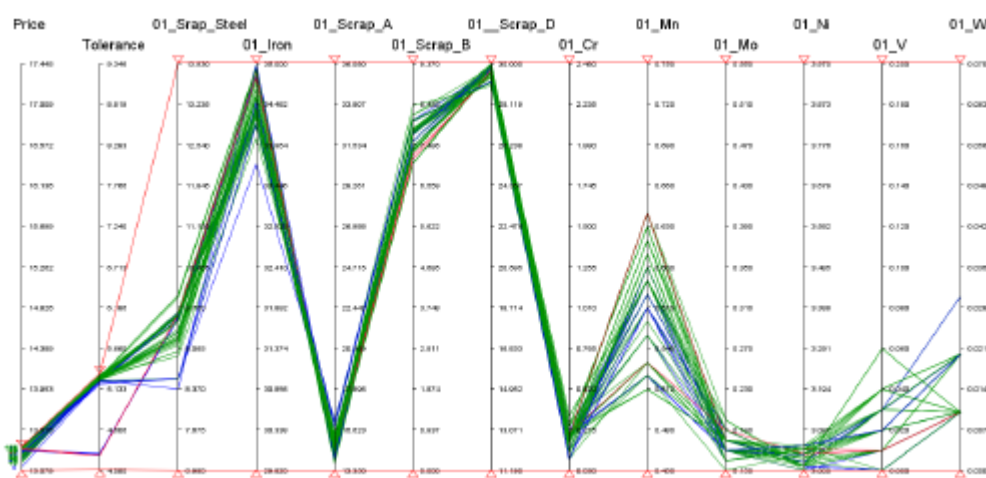
## Advantages of the Program

- Efficiency and speed of calculation within the process of production and under constantly changing assortment of charge materials and alloying additives.
- Graphics plot for the optimization result
- Multilanguage interface of the software

- With mechanical properties module, to analyze the influence of factors to final mechanical properties
- Flexible business plan for the software license

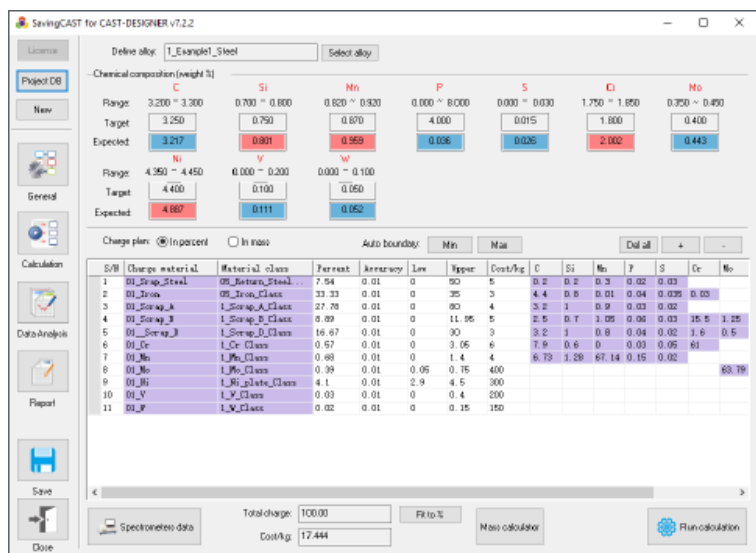
## Mathematical Formulas Management

Because sometimes it is not sufficient to specify the limits of chemical elements one by one, any formula that makes relations among them will be respected by SavingCAST when optimizing castings.



## Systems Integration

SavingCAST is able to prepare any casting at optimum cost, adapting to a specific production and recording the date information. It can also be integrated into any ERP/ database and spectrometer.



C3P Engineering Software International has been founded in 2006 and providing the professional design & analysis solution for the manufacturing industry. Our main products are "Cast-Designer", "Cast-Designer Weld", "Geo-Designer", "AI-FORM" and "SavingCAST", which were already captured the Global market. We have sold our products in more than 28 countries and those countries have our distributors. We are not famous by our Company name but by our products. The Software specially focuses on the virtual manufacturing field to provide end-to-end solution for metal casting, sheet metal forming, weld and assembly. Our solution built in the Design for Manufacturing, Design Capability, Advance Front Simulation, the last CAE technology, Automatic Optimization and Final Performance Validation to a whole package; to consider the Multi-Physics, Multi-Scale and Real Material. As a pioneer of numerical simulation solution provider, C3P Software provides the industry and the manufacturing business with comprehensive solutions and engineering services on a global basis to meet their expectation in high quality, on-schedule delivery within cost target. Our business scope covers software development, professional engineering service, and application software integration.

For more information, please visit: [www.c3p-group.com](http://www.c3p-group.com) or [www.cast-designer.com](http://www.cast-designer.com) or [www.ai-form.com](http://www.ai-form.com) or [shop.c3p-group.com](http://shop.c3p-group.com)

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