

# bisonaire BLENDING Solution

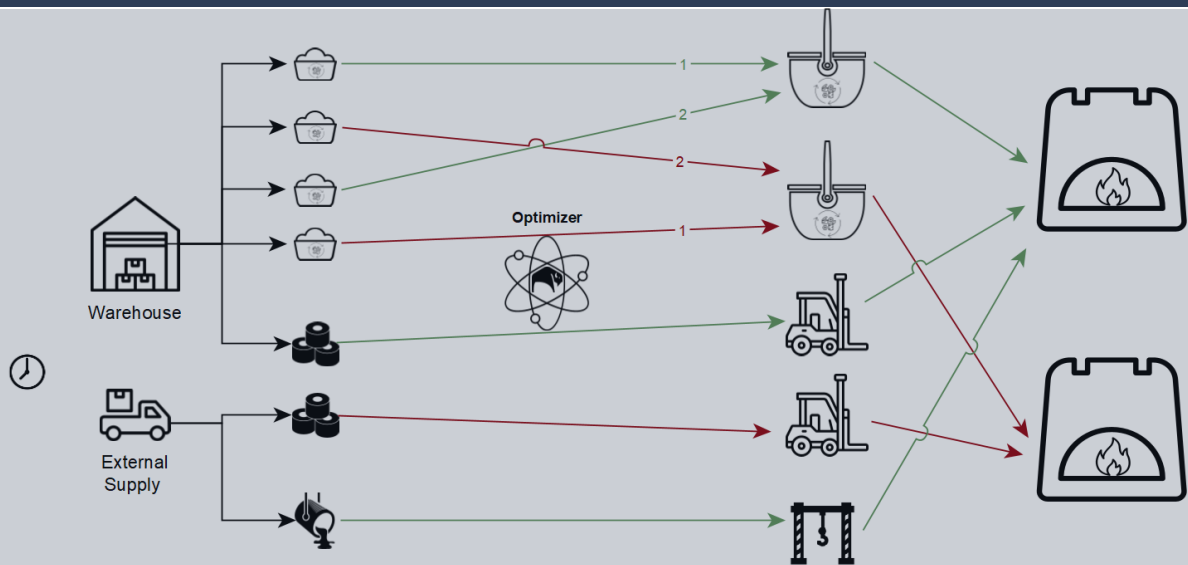
## Product features



### In A Nutshell

**bisonaire BLENDING** is a highly configurable software solution which supports the processes of storing and combining diverse input materials in order to match a given target alloy specification.

The heart of our product is the optimizer algorithm which was built to find the best solution for any complex blending puzzle.



### Features



- ✓ Automated real time batching respecting various input parameters
- ✓ Handling of complex storage situations and accessibility
- ✓ Live (re-)optimization and collaborative planning
- ✓ Adjustable rule- and KPI-based optimizing algorithm
- ✓ Highly configurable out-of-the-box standard solution
- ✓ Full extendability of the solution to customer requirements while remaining upgradeable
- ✓ Webclient and optionally cloud based
- ✓ Comparison between Predictive Analytics Result and KI-based Result (Charging batch optimized through machine learning, trained with actual data -> Improvement over time)
- ✓ Continuous and discontinuous casting
- ✓ Storage pre-planning algorithm to anticipate future productmix
- ✓ Complementing quintiq standard planning solutions as part of the Delmia brand

### Advantages



- ✓ Minimized use of expensive pure alloys and maximized scrap usage
- ✓ Optimized process for max. CO2 reduction
- ✓ Full process transparency
- ✓ Fast optimized blending even for challenging requirements
- ✓ Ad-hoc replanning
- ✓ Minimized required rinse batches

### Input

- ✓ Master data related to storage, material and resources (Scrap alloy to casting alloy mapping, furnace capacities, storage definition, ...)
- ✓ Transactional Data (Available material, scheduled furnace queue, Status and other Realtime Data such as spectral analysis, actual quantities, furnace status, charging batch status, ...)
- ✓ Constraints and rules related to storage, charging baskets, optimizer goals, material usage based on various attributes, item accessibility, ...



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