



## DATA SHEET UMBERTO EFFICIENCY+



### WHAT ARE MY OPTIONS WHEN BUILDING A MODEL?

- Linear and non-linear process specifications
- Hierarchical modeling structure (any number of subnet levels)
- Freely definable parameters
- Calculation of Carbon Footprint with integrated GWP data (ecoinvent 2.2 GWP, PAS 2050, BioGrace). Optionally available with the latest ecoinvent 3.2 GWP data.
- Copy&Paste and Undo&Redo are available for editing
- Process specifications with user-defined functions (mathematical formulas)
- Save model sections in the module gallery for later reuse
- Integrate inventories and inventory changes
- Export and import of linear specifications as Excel file in the form of an aggregated input/output table



### WHAT ARE MY OPTIONS WHEN USING COST CALCULATION?

- Material Flow Cost Accounting (MFCA) to calculate the true cost of material losses
- Unit cost accounting
- Free definition of cost types and cost plans
- Material direct costs
- Disposal costs
- System and process costs
- Assign fixed and variable costs to each cost center



### WHAT ANALYSES AND REPORTS CAN I GENERATE?

- Mass and energy balances for the entire system as well as for sub-systems
- Material Flow Cost Matrix according to ISO 14051
- Analysis based on processes, products, flows
- Display cost analysis in tables or graphs
- Export of all result data to Microsoft Excel
- Sankey diagrams of cost, energy, and mass flows
- Sankey diagram graphics export is quick and easy
- If you are missing a specific report type, the Umberto Customizing Team will be happy to assist you in implementing it





### CAN UMBERTO BE LINKED WITH OTHER PROGRAMS?

- Using the Live Link to Microsoft Excel allows referencing cell values in Excel and link them to flows, coefficients or parameters in Umberto NXT models. Changes in the workbook are updated live.
- Linking to ERP systems such as SAP/R3 and integration of specialized tools such as Aspen Plus® or CHEMCAD can be achieved through cooperation with our Umberto Customizing Team.
- A link to sustainability management tools such as WeSustain or Enablon can be achieved by the Umberto Customizing Team in cooperation with our partners.
- For the repeated transfer of large amounts of data into Umberto models from various data sources, the Umberto Customizing Team will develop a convenient solution.



### WHERE DO I FIND HELP GETTING STARTED WITH UMBERTO?

- The tutorial allows learning the software with practical examples
- Comprehensive user manual describing all functions of the software
- Online help for quick answers
- Get help from other users in the Umberto community at [my.Umberto.de](http://my.Umberto.de)
- Public trainings, individual webtrainings, and in-house trainings are available



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