Process Simulator Professional Edition vs. Material Handling Edition

Process Simulator Professional allows you to build rich models. With the help of the Output Viewer, Microsoft Excel or Minitab you can easily analyze the simulation results. Based on the power user functions complex models can be created generically and maintainability of the model logic can be increased. This helps to increase your productivity. With **Process Simulator Professional** your company has an effective simulation tool at its disposal. It accelerates and improves the results of your continuous improvement programs as well as your Lean-Six-Sigma initiatives.

With the **Process Simulator Professional Material Handling Edition** you can now model the material flow in detail in your Process Simulator models. Along with the **drawing environment being scaled**, you now will have access to **Stations**, **Conveyors** and **Path Networks**.

These **well-thought-out functions for your success** can be found in the following tables.

Feature	Description and differentiation of the available functions	Pro	MH
Microsoft Visio Plug-In (**32bit and 64bit**) for Modelling	Convert existing diagrams and build new simulation models within the familiar and easy-to-use Visio application.	✓	✓
Fast Model Making & Script Language	Parameterize predefined model elements to graphically design your simulation models - without programming. If required, a powerful script language is available to implement user-specific logic.	✓	✓
Process Flows and Value Streams	Use any notation to model your processes. Process Simulator provides its own shape library for modeling value streams.	✓	✓
ProModel Simulation Engine	Harnesses the predictive power of the ProModel simulation engine to run scenarios and produce results for what-if analyses.	✓	✓
Scenario Management with the Output Viewer	Allows comparison and analysis of simulation results of different scenarios from the same model or from different models in the Output Viewer - **a graphical results editor**.	✓	✓
Bidirectional Interfaces to Microsoft Excel	Separate model and data. Use Microsoft Excel to validate your models (Build Time) and as a database to import simulation data and write results (Run Time).	✓	✓
Product Mix Simulation	Differentiation of process rules for different products: processing times, resource allocations, routings and user-defined behavior.	✓	✓
Simulate Employees and Transports	Modelling of static resources - employees and means of transport represent restrictions in the process flow.	✓	✓
Modelling AGVs and Material Handling	Use driverless transport systems as well as material flow and logistics systems in your simulation models.		✓
Mobile Resources on Path Networks	Definition of the running or travel paths including speed and acceleration as well as user-defined behavior.		✓
Conveyor Systems Belt & Roller Conveyors	Differentiation of belt and roller conveyors with definition of length, speed and user-defined behavior of the belt segments. At stations the material flow branches out or is merged.		✓

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Feature	Description of the common functions of Process Simulator Professional and Material Handling
Share Models with ProModel and MedModel	Allows models developed in Process Simulator to be opened in ProModel or MedModel for more extensive process and systems modeling.
Animation	Visio diagrams become graphically animated during simulation and depict the progress and state of the simulated processes over time.
Convert Existing Visio Diagrams to a Model	Convert existing Microsoft Visio diagrams to simulation models.
User-Defined Distributions	Define custom or empirical distributions.
Basic Logic Builder	Enables the modeling of activity details and resource usage through guided logic dialogs.
Storage and Supermarket Modeling	Model pull systems or Kanban systems with the help of supermarkets.
Hierarchical Modeling with Sub-Processes	Create hierarchical models.
Resource Pool Definition	Define group work models.
Custom Results Analysis with Excel	Realize custom evaluations in Microsoft Excel.
Six Sigma Analysis with Minitab	Use Minitab for "Six Sigma" analysis of your results.
Model Adjustments in Excel	Use Microsoft Excel to customize your simulation models.
Basic Subroutine Functionality	Allows construction of logic subroutines for the writing and maintaining of frequently used procedural logic in one place.
Utilizes Power of Visio Data Graphics	Enables direct visualization of simulation results, and of varied inputs, for multiple scenarios with their associated shapes on the Visio diagram.
Initialize Arrivals from Excel	Initialize your arrivals from Microsoft Excel.
2-Dimensional Arrays (Tables)	Allows the storing of large amounts of data in a single data structure for the model to access and use.
Import/Export of data from/to Excel	Allows the population of arrays from an Excel file when the model starts simulating.
Advanced Logic Builder	Incorporates advanced statements and functions in the Logic Builder - e.g. referencing entities, activities or resources by index in arrays and subroutines.
Subroutines with Transfer Parameters and Return Values	Allows passing of parameters to subroutines and returning calculated values. In turn, this enables the leveraging of arrays and parallel process subroutines.
Complex Expressions in Property Fields	Enter subroutines with a return value in place of a numerical value.
Free Form Logic	An additional logic window that allows logic to be entered without the Logic Builder. Enables more rapid model building and quicker copying and pasting of logic.
Intellisense for Fast Logic Creation	Start by writing your model code and Intellisense completes it automatically.
Syntax Guide for Quick Logic Help	Clear selection from the options of your command words.
Multi-Destination Flexible Routing	Use Flexible Routing to determine alternative targets in the model rather than graphing them.

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