About Extend+Manufacturing

To model discrete operations research, industrial engineering, and manufacturing systems, use Extend+Manufacturing. This bundled package combines Extend with two specialized libraries of blocks (Manufacturing and Statistics), an additional manual, and numerous examples.

Extend+Manufacturing allows you to model manufacturing systems, paper flow, material handling, service industries, networks, manufacturing systems, information processing, distribution systems, transportation, etc. It is an excellent tool to use to analyze options, predict bottlenecks, document operating procedures, and justify costs.

• The Manufacturing library is an extension of the "Discrete Event" library (included in the basic Extend package). The blocks in the "Manufacturing" library can be separated into two categories: "Discrete Event" library blocks with expanded capabilities and blocks which are specific to modeling discrete manufacturing, material handling, and distribution systems. Manufacturing blocks in the "expanded capabilities" category are Batch(10), Batch(Demand), Batch(Variable), Combine(5), Holding, Select DE Input(5), Select DE Output(5), Unbatch(Variable), Queue Reneging, and Process Preemptive. Blocks specific to a process are AGV, ASR, Bin, Buffer, Conveyor Belt, Conveyor Carousel, Crane, Fixture, Labor, Machine, Pallet, Station, Route, Route(Delay), Shutdown, Stock, Tool, and Transporter.

• The Extend+Manufacturing manual provides an extensive number of examples, concepts, and alternative approaches. It reviews resources and operations, closed and open systems, attributes, priorities and values, merging and routing streams of items or entities, setting processing time, joining items for processing, scheduling, routing decisions, choosing parallel operations, bringing a system on-line, shutting down operations, accumulating data, and more.

• To complement the examples in the manual, the +Manufacturing disk comes with over 1MB of example models to parallel the discussion in the manual.

• This package also contains a free Statistics library! Statistics blocks accumulate and report statistical information for particular types of blocks in discrete event models: activities, queues, or resources. In addition to the block label, block name, and the time the information was observed, each of the blocks report statistics that are specific to their type of block, such as utilization or average wait time.

6830 Via Del Oro, Suite 230 • San Jose, CA 95119 USA
Phone 408-365-0305 • FAX 408-629-1251