

	Limited Size Products	
	Basic License for Solver Academy	Analytic Solver Upgrade
	Nearly All Features, Low Size Limits	Expanded Size Limits for Optimization Basic Size Limits for Simulation, Data Science
Built-in Solver Engine		
Evolutionary	Yes	Yes
Linear	Yes	Yes
Nonlinear	Yes	Yes
Interval Global	Yes	Yes
SOCP Barrier	Yes	Yes
Optimization Problem Types and Sizes		
Solvers LP, MIP, NLP, and NSP problem types	Yes	Yes
Special Solvers for QP, QCP, and SOCP problem types	Yes	Yes
Linear Variables x Constraints	200 x 100	2,000 x 8,000
Nonlinear Variables x Constraints	200 x 100	500 x 250
Non-Smooth Variables x Constraints	200 x 100	500 x 250
Integer Variables	Up to 200	Up to 1,000 for LP and 500 for NLP/NSP
Accepts optional plug-in Solver Engines (w/ unlimited Variables x Constraints)	No	No
Constraints		
Normal, Integer, Binary, semi-continuous, and AllDifferent Constraints	Yes	Yes
Second Order Cone Constraints	Yes	Yes
Probabilistic and Chance Constraints	Yes	Yes
Global Optimization		
Non-Smooth Problems (Evolutionary)	Yes	Yes
Nonlinear Problems (Multistart)	Yes	Yes
Nonlinear Problems (Interval Global)	Yes	Yes
Plug-in Solver Engines (Several Approaches)	No	No
Simulation / Risk Analysis		
High-speed Monte Carlo simulation	Yes	Yes
Parameterized Simulations x Monte Carlo Trials	10 x 2500	10 x 2500
Simulation Uncertain Variables x Functions	50 x 25	50 x 25
Decision Trees	Yes	Yes
Advanced Stochastic Optimization	No	No
Forecasting / Data Science		
Data Visualization, Charting, Data Transformation	Yes	Yes
Time Series Forecasting (ARIMA, Exponential Smoothing)	Yes	Yes
Feature Selection, Clustering, Classification, Prediction, Association Rules	Yes	Yes
Text Mining Vocabulary Terms x Documents	50 x 100	50 x 100
Data Partition Columns x Rows	50 x 65,000	50 x 65,000
Training Set / Database Query Rows	10,000 x 1,000,000	10,000 x 1,000,000

	Full Sized Products		
	Analytic Solver Simulation	Analytic Solver Optimization	Analytic Solver Data Science
	Full Size Limits for Simulation Basic Size Limits for Optimization, Data Science	Full Size Limits for Optimization Basic Size Limits for Simulation, Data Science	Full Size Limits for Data Science Basic Size Limits for Optimization, Simulation
Built-in Solver Engine			
Evolutionary	Yes	Yes	Yes
Linear	Yes	Yes	Yes
Nonlinear	Yes	Yes (Upgraded Engine)	Yes
Interval Global	Yes	Yes	Yes
SOCP Barrier	Yes	Yes	Yes
Optimization Problem Types and Sizes			
Solvers LP, MIP, NLP, and NSP problem types	Yes	Yes	Yes
Special Solvers for QP, QCP, and SOCP problem types	Yes	Yes	Yes
Linear Variables x Constraints	200 x 100	8,000 x 8,000	200 x 100
Nonlinear Variables x Constraints	200 x 100	1,000 x 1,000	200 x 100
Non-Smooth Variables x Constraints	200 x 100	1,000 x 1,000	200 x 100
Integer Variables	Up to 200	Up to 2,000 for LP and 1,000 for NLP/NSP	Up to 200
Accepts optional plug-in Solver Engines (w/ unlimited Variables x Constraints)	No	Yes	No
Constraints			
Normal, Integer, Binary, semi-continuous, and AllDifferent Constraints	Yes	Yes	Yes
Second Order Cone Constraints	Yes	Yes	Yes
Probabilistic and Chance Constraints	Yes	Yes	Yes
Global Optimization			
Non-Smooth Problems (Evolutionary)	Yes	Yes	Yes
Nonlinear Problems (Multistart)	Yes	Yes	Yes
Nonlinear Problems (Interval Global)	Yes	Yes	Yes
Plug-in Solver Engines (Several Approaches)	No	Yes	No
Simulation / Risk Analysis			
High-speed Monte Carlo simulation	Yes	Yes	Yes
Parameterized Simulations x Monte Carlo Trials	Unlimited x Unlimited	10 x 2500	10 x 2500
Simulation Uncertain Variables x Functions	Unlimited x Unlimited	50 x 25	50 x 25
Decision Trees	Yes	Yes	Yes
Advanced Stochastic Optimization	No	Yes	No
Forecasting / Data Science			
Data Visualization, Charting, Data Transformation	Yes	Yes	Yes
Time Series Forecasting (ARIMA, Exponential Smoothing)	Yes	Yes	Yes
Feature Selection, Clustering, Classification, Prediction, Association Rules	Yes	Yes	Yes
Text Mining Vocabulary Terms x Documents	50 x 100	50 x 100	Unlimited x Unlimited
Data Partition Columns x Rows	50 x 65,000	50 x 65,000	Unlimited x Unlimited
Training Set / Database Query Rows	10,000 x 1,000,000	10,000 x 1,000,000	Unlimited x Unlimited