FEMtools 4
Standard Configurations Matrix

FEATURES / CONFIGURATIONS	FEMtools 4 Framework	FEMtools 4 Dynamics	FEMtools 4 Pretest and Correlation	FEMtools 4 Model Updating	FEMtools 4 Optimization	FEMtools 4 Updating and Optimization
FEMtools Desktop (UI, Commands, Graphics Viewers)	●	●	●	●	●	●
FEMtools Database Management	●	●	●	●	●	●
FEMtools Script (incl. Math Functions, DSP)	●	●	●	●	●	●
FEMtools API (Application Programming Interface)	●	●	●	●	●	●
ABAQUS Interface and Driver (Add-on)	(●)	(●)	(●)	(●)	(●)	(●)
ANSYS Interface and Driver (Add-on)	(●)	(●)	(●)	(●)	(●)	(●)
LS-DYNA Interface and Driver (Add-on)	(●)	(●)	(●)	(●)	(●)	(●)
NASTRAN Interface and Driver (Add-on)	(●)	(●)	(●)	(●)	(●)	(●)
SAP2000 Interface and Driver (Add-on)	(●)	(●)	(●)	(●)	(●)	(●)
UNIVERSAL FILE (FEM) Interface and Driver (Add-on)	(●)	(●)	(●)	(●)	(●)	(●)
UNIVERSAL FILE Test Data Interface	●	●	●	●	●	●
Data Acquisition for National Instruments (Add-on)	(●)	(●)	(●)	(●)	(●)	(●)
Modal Parameter Extractor (Add-on)	(●)	(●)	(●)	(●)	(●)	(●)
Rigid Body Properties Extractor (Add-on)	(●)	(●)	(●)	(●)	(●)	(●)
Mesh Tools (Generation, Quality, Morphing, …)	●	●	●	●	●	●
Finite Element Matrices Library	●	●	●	●	●	●
Mass Analysis	●	●	●	●	●	●
Basic FEA Solvers (Static, Modal)	(●)	●	●	●	●	●
Dynamic Response Analysis (Frequency, Time)		●	●	●	●	●
Dynamics Substructuring (Superelements, FBA, MBA)		●	●	●	●	●
Pretest Analysis			●	●		●
Shape and Function Correlation Analysis			●	●		●
Sensitivity Analysis				●	●	●
Design of Experiments and Response Surfaces				●	●	●
Probabilistic Analysis				●		●
Model Updating				●		●
Harmonic Force Identification				●		●
General Non-Linear Optimization					●	●
Design Optimization (Topology, Topometry, Shape, ...)					●	●

(●) = Optional module