

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		•	•	•	•	•	•
Rigid Body Properties Extractor (Add-on)		(•)	(•)	(•)	(•)	(•)	(•)
Modal Parameter 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							

FEMtools 4 Academic Configurations Matrix (Limited Database Versions)	CONFIGURATIONS	FEMtools 4 Model Updating	FEMtools 4 Optimization	FEMtools 4 Updating and Optimization
		FEATURES		
FEMtools Desktop (UI, Commands, Graphics Viewers)		•	•	•
FEMtools Database Management		•	•	•
FEMtools Script (incl. Mathematical Functions Library, DSP)		•	•	•
FEMtools API (Application Programming Interface)		•	•	•
ABAQUS Interface and Driver		•	•	•
ANSYS Interface and Driver		•	•	•
LS-DYNA Interface and Driver		•	•	•
NASTRAN Interface and Driver		•	•	•
SAP2000 Interface and Driver		•	•	•
UNIVERSAL FILE (FEM) Interface and Driver		•	•	•
UNIVERSAL FILE Test Data Interface		•	•	•
Rigid Body Properties Extractor		•	•	•
Modal Parameter Extractor		•	•	•
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				