FEMtools 3.6

Standard Configurations Matrix

FEATURES / CONFIGURATIONS	FEMtools 3.6 Framework	FEMtools 3.6 Dynamics	FEMtools 3.6 Correlation	FEMtools 3.6 Model Updating	FEMtools 3.6 Optimization	FEMtools 3.6 Full Version
FEMtools Desktop (UI, Commands, Graphics Viewers)	•	•	•	•	•	•
FEMtools Database Management	•	•	•	•	•	•
FEMtools Script (incl. Mathematical Functions Library)	•	•	•	•	•	•
FEMtools API (Application Programming Interface)	•	•	•	•	•	•
ABAQUS Interface and Analysis Driver	(•)	(•)	(•)	(•)	(•)	(•)
ANSYS Interface and Analysis Driver	(•)	(•)	(•)	(•)	(•)	(•)
NASTRAN Interface and Analysis Driver	(•)	(•)	(•)	(•)	(•)	(•)
UNIVERSAL FILE (FEM) Interface and Analysis Driver	(•)	(•)	(•)	(•)	(•)	(•)
UNIVERSAL FILE Test Data Interface	•	•	•	•	•	•
Rigid Body Properties Extractor (Add-on)	(•)	(•)	(•)	(•)	(•)	(•)
Modal Parameter Extractor + DSP (Add-on)	(•)	(•)	(•)	(•)	(•)	(•)
Mesh Tools (Generation, Quality, Morphing,…)	•	•	•	•	•	•
Finite Element Matrices Library	•	•	•	•	•	•
Mass Analysis	•	•	•	•	•	•
Basic FEA Solvers (Static, Modal Analysis)	(•)	•	•	•	•	•
Dynamic Response Analysis (Frequency, Time)		•	•	•	•	•
Dynamics Substructuring (Superelements, FBA)		•	•	•	•	•
Structural Dynamics Modification (SDM)		•	•	•	•	•
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 3.6

Academic Configurations Matrix
(Limited Database Versions)

FEATURES / CONFIGURATIONS	FEMtools 3.6 Model Updating	FEMtools 3.6 Optimization	FEMtools 3.6 Full Version
FEMtools Desktop (UI, Commands, Graphics Viewers)	•	•	•
FEMtools Database Management	•	•	•
FEMtools Script (incl. Mathematical Functions Library)	•	•	•
FEMtools API (Application Programming Interface)	•	•	•
ABAQUS Interface and Analysis Driver	•	•	•
ANSYS Interface and Analysis Driver	•	•	•
NASTRAN Interface and Analysis Driver	•	•	•
UNIVERSAL FILE (FEM) Interface and Analysis Driver	•	•	•
UNIVERSAL FILE Test Data Interface	•	•	•
Rigid Body Properties Extractor (Add-on)	•		•
Modal Parameter Extractor + DSP (Add-on)	•		•
Mesh Tools (Generation, Quality, Morphing,…)	•	•	•
Finite Element Matrices Library	•	•	•
Mass Analysis	•	•	•
Basic FEA Solvers (Static, Modal Analysis)	•	•	•
Dynamic Response Analysis (Frequency, Time)	•	•	•
Dynamics Substructuring (Superelements, FBA)	•	•	•
Structural Dynamics Modification (SDM)	•	•	•
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			