NX for Simulation: Product capabilities in NX 8

NX 8.0 for Simulation capability chart

Legend

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- \+ Additional product required

	NX CAE																NX Nastran 8.0	
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Preprocessing																			
Geometry import																			
Neutral geometry transfer (IGES, STEP, JT™, Parasolid)	•	•	#	#	#	#	#	#	#	#	#	#	#			#	#		
Direct geometry transfer (CATIA V4, CATIA V5, Pro/E)	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		
Geometry modeling																			
Parasolid® geometry kernel	•	•	#	#	#	#	#	#	#	#	#	#	#			#	#		
Parametric solid and surface modeling	•	•	#	#	#	#	#	#	#	#	#	#	#			#	#		
Direct modeling with synchronous technology	•	•	#	#	#	#	#	#	#	#	#	#	#			#	#		
Feature modeling	•	•	#	#	#	#	#	#	#	#	#	#	#			#	#		
Assembly structure creation	•	•	#	#	#	#	#	#	#	#	#	#	#			#	#		
Interpart relationship	•	•	#	#	#	#	#	#	#	#	#	#	#			#	#		
Configurations	•	•	#	#	#	#	#	#	#	#	#	#	#			#	#		

NX

www.siemens.com/nx

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Preprocessing *(continued)*																			
Geometry editing prior to meshing																			
Direct editing with synchronous technology	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Defeature tools (geometry repair, feature suppression, stitch surface, remove hole/fillet, partitioning)	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Nonmanifold topology generation for volumes	•	•	#	#	#	#	#	#	#	#	#	#	#						
Mid-surfacing (constant and variable thickness)	•	•	#	#	#	#	#	#	#	#	#	#	#						
Automatic topology abstraction	•	•	#	#	#	#	#	#	#	#	#	#	#						
Manual topology modification tools	•	•	#	#	#	#	#	#	#	#	#	#	#						
Create surface from mesh face	•	•	#	#	#	#	#	#	#	#	#	#	#						
Meshing and modeling			#	#	#	#	#	#	#	#	#	#	#						
Beam modeling	•	•	#	#	#	#	#	#	#	#	#	#	#						
Automated bolt connection meshing	•	•	#	#	#	#	#	#	#	#	#	#	#						
Automated shell meshing	•	•	#	#	#	#	#	#	#	#	#	#	#						
2D mapped meshing	•	•	#	#	#	#	#	#	#	#	#	#	#						
Automated tetrahedral meshing	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Swept hexahedral meshing	•	•	#	#	#	#	#	#	#	#	#	#	#						
Surface coating	•	•	#	#	#	#	#	#	#	#	#	#	#						
Transition meshing	•	•	#	#	#	#	#	#	#	#	#	#	#						
Axi-symmetric meshing	•	•	#	#	#	#	#	#	#	#	#	#	#						
Batch meshing	•	•	#	#	#	#	#	#	#	#	#	#	#						
Mesh quality checks	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Material property creation and management	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Mass property calculations	•	•	#	#	#	#	#	#	#	#	#	#	#						
Physical property creation and management	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Variable element thickness	•	•	#	#	#	#	#	#	#	#	#	#	#						
Grouping	•	•	#	#	#	#	#	#	#	#	#	#	#						
FE assembly management	•	•	#	#	#	#	#	#	#	#	#	#	#						

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Preprocessing *(continued)*																			
Boundary conditions																			
Apply on geometry	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Apply to local coordinate system	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Apply on FE entities	•	•	#	#	#	#	#	#	#	#	#	#	#						
Apply on groups	•	•	#	#	#	#	#	#	#	#	#	#	#						
Axi-symmetric boundary conditions	•	•	#	#	#	#	#	#	#	#	#	#	#						
Automatic contact detection and setup	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Automated load transfer from motion analysis	•	•	#	#	#	#	#	#	#	#	#	#	#						
External solver data deck support (import and export)																			
Abaqus	+	+																	
ANSYS	+	+																	
LS-Dyna	+	+																	
MSC Nastran	+	•														•			
NX™ Nastran®	+	•														•			
NX I-deas™ (import only)	+	•																	
Analysis model-to-design associativity																			
Automatic analysis model update based on geometry change	•	•	#	#	#	#	#	#	#	#	#	#	#	#	#	•	•		
Postprocessing																			
Contour displays	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Beam cross-section contour displays	•	•	#	#	#	#	#	#	#	#	#	#	#						
Vector displays	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Isosurface displays	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Cutting planes	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Advanced lighting control	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Animations	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Complex dynamic response results	•	•	#	#	#	#	#	#	#	#	#	#	#						
Multiple viewports	•	•	#	#	#	#	#	#	#	#	#	#	#			•			

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Postprocessing *(continued)*																			
Geometry editing prior to meshing																			
Probing of results on nodes	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Postprocessing data table with sort/criteria	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Results listings	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Transparency display	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
Local coordinate system	•	•	#	#	#	#	#	#	#	#	#	#	#			•			
XY graphing	•	•	#	#	#	#	#	#	#	#	#	#	#					•	•
Bar graphing	•	•	#	#	#	#	#	#	#	#	#	#	#						
Synchronized contour and XY plotting displays	•	•	#	#	#	#	#	#	#	#	#	#	#						
Annotated graphs	•	•	#	#	#	#	#	#	#	#	#	#	#						
Output (JT, postscript, tif, etc.)	•	•	#	#	#	#	#	#	#	#	#	#	#						
External solver result file support																			
Abaqus	+	+																	
ANSYS	+	+																	
LS-Dyna	+	+																	
MSC Nastran	+	•														•			
NX Nastran	+	•														•			
Structural analysis																			
Structural linear																			
Static		•														•		•	•
Normal modes		•														•		•	•
Buckling		•														•		•	•
Structural linear dynamics																			
Modal transient																		+	•
Modal frequency																		+	•
Direct transient																		+	•
Direct frequency																		+	•

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Structural analysis *(continued)*																			
Structural linear dynamics *(continued)*																			
Shock spectrum											•							+	•
Random vibration																		+	•
Rotor dynamics																		+	•
Structural nonlinear																			
Basic implicit nonlinear analysis		•																•	•
Transient																		+	+
Geometric																		+	+
Elastic/plastic material																		+	+
Hyperelastic material																		+	+
Gasket material																		+	+
Nonlinear buckling																		+	+
Implicit solver																		+	+
Explicit solver																		+	+
Structural contact and connections																			
Surface-to-surface contact																		+	•
Node-to-node contact																		+	•
Spot welds		•																•	•
Rigid elements		•																•	•
Constraint elements		•																•	•
Glue connection		•																•	•
Advanced structural analysis capabilties																			
Dynamic response analysis											•							+	•
Superelements analysis module																		+	•
Direct matrix abstraction programming (DMAP)																		+	•
Design optimization module																		+	+
Aeroelasticity analysis module																		+	•

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Structural analysis *(continued)*																			
Parallel processing																			
Shared memory parallel (SMP)		•																•	•
Distributed memory parallel (DMP)																		+	•
Optimization																			
Topology optimization		+	•															+	+
Size and shape optimization		•																+	+
Laminate composites																			
Zone-based modeling		•								•								•	•
Ply-based modeling		•								•								•	•
Import ply orientations from FiberSIM										•									
3D layup extrusion										•									
Draping										•									
Ply materials		•								•								•	•
Laminate validation										•									
Optimization		•								•								•	•
Solver support for composites on Nastran, Abaqus, ANSYS, LS-Dyna										•									
View shell stress resultants, ply stresses, ply strains, ply failure indices (ply and bond) and ply strength ratios (ply and bond)		•								•								•	•
Enveloping, filtering and sorting tools										•									
Durability																			
Static events												•	•						
Transient events													•						
Strain gage durability													•						
Stress life												•	•						
Strain life												•	•						
Smith-Watson-Topper												•	•						
Weld life													•						

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Structural analysis *(continued)*																			
Durability *(continued)*																			
Plate thickness correction for stress life and weld life													•						
Uni-axial stress/strain												•	•						
Bi-axial stress/strain													•						
Mean stress effects													•						
Notch effects													•						
Cyclic stress-strain relations													•						
Rainflow cycle counting													•						
NX Nastran results support												•	•						
MSC Nastran, Abaqus, ANSYS results support												•	•						
Durability reports												•	•						
Plots for fatigue life, damage and safety factors												•	•						
NX Response Simulation transient event durability													•						
Durability computation for NX flexible body motion solutions with Recurdyne or ADAMS													•						
Dang Van fatigue safety factor													•						
Damage computation for user-specified stress/strain histories													•						
Fatigue stress/strain history output (in NX 8.0.1)													•						
Quasi-static result path excitations (in NX 8.0.1)													•						
Thermal analysis																			•
Analysis types																			
Steady-state		•		•	•			•	•									•	•
Transient		•		•	•			•	•									•	•
Conduction																			
Phase change		•		•	•			•	•									•	•
Anisotropic thermal conductivity		•		•	•			•	•									•	•

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Thermal analysis *(continued)*																			
Convection																			
Free convection		•		•	•			•	•									•	•
Forced convection		•		•	•			•	•									•	•
Radiation																			
Surface-to-surface radiative heat transfer		•		•	•			•	•									•	•
Radiation matrix control		•		•	•			•	•									•	•
Multiple radiation enclosures		•		•	•			•	•									•	•
Diffuse view factor calculations with shadowing		•		•	•			•	•									•	•
Net view factor calculations		•		•	•			•	•									•	•
Hemicube-based view (form) factors calculation using graphics card hardware				•	•			•	•										
Radiation patch generation to condense large element-based radiation models				•	•			•	•										
Deterministic and Monte Carlo ray tracing					•				•										
Nongray multiband radiative heat transfer					•				•										
Solar heating with atmospheric and albedo flux models					•				•										
Radiative source definition					•				•										
Parallelized radiation solver					•				•										
Thermal modeling																			
Temperature-dependent properties		•		•	•			•	•									•	•
Heater and thermostat modeling		•		•	•			•	•									•	•
Temperature boundary conditions		•		•	•			•	•									•	•
Specular, transmissive surfaces		•		•	•			•	•									•	•
Nonlinear thermal contact				•	•			•	•									+	+
Thermal couplings				•	•			•	•										
Disjoint meshes support in assembly modeling				•	•			•	•										
Joule heating					•			•	•										

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Thermal analysis *(continued)*																			
Thermal modeling *(continued)*																			
Constant, time and spatially-varying heat loads and temperature constraints								•										+	+
Material charring and ablation					•				•										
Peltier cooler modeling					•			•	•										
1D hydraulic network modeling					•				•										
Advanced thermal couplings					•				•										
Advanced optical properties					•				•										
Environmental solar heating models																			
Articulation and motion modeling					•				•										
Orbital modeling and analysis									•										
Multi-layer shells specific formulation for MLI and TPS applications									•										
Direct interfaces to other radiation and thermal analysis tools for space systems (SINDA, ESATAN, TSS, ESARAD, TRASYS, Thermica)									•										
Electronic thermal components library								•											
PCB modeler and exchange change (ECAD/MCAD)				+	+	+	+	•											
Fluid dynamics																			
Fluid modeling																			
Steady-state flow						•	•	•											
Transient flow						•	•	•											
Laminar flow						•	•	•											
Turbulent flow						•	•	•											
Incompressible flow						•	•												
Compressible flow						•	•												
Forced, natural and mixed convection						•	•												
Heat loads and temperature restraints on the fluid						•	•												
Fluid buoyancy						•	•	•											

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Fluid dynamics *(continued)*																			
Fluid modeling *(continued)*																			
Multiple enclosures						•	•	•											
Multiple fluids						•	•	•											
Internal or external flows						•	•	•											
Porous media modeling						•	•												
Nonlinear fluid properties						•	•												
Humidity						•	•												
Automatic fluid domain and boundary layer meshing						•	•	•											
Automated connection of disjoint fluid meshes						•	•	•											
Fan models						•	•	•											
Embedded 2D/3D flow blockages						•	•												
Condensation							•												
Motion-induced flow							•												
General scalars and particle tracking							•												
Non-Newtonian fluids							•												
Multiple rotating frames-of-reference							•												
Two-phase flow							•												
Head loss inlets and openings (fixed or velocity dependent)								•											
Fluid swirl at inlet and internal fans								•											
Fluid recirculation loop models								•											
Parallel processing																			
Up to 8 cores on one machine							•	•											
Distributed memory parallel (DMP) – unlimited cores						+	+	+											

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Coupled analysis																			
Thermal-fluid				•	•	•	•	•											
Thermal-structural		•		•	•													•	•
Motion-structural		+															+	•	•
Motion-controls																	+		
Correlation																			
Modal analysis to physical modal test correlation														•					
Modal analysis to modal analysis correlation														•					
Analysis normal mode solution access and results viewing														•					
Pretest planning														•					
Geometry mapping														•					
Modal assurance criteria (MAC)														•					
Coordinate modal assurance criteria (COMAC)														•					
Cross-orthogonality														•					
Mode pairing														•					
Visual comparison														•					
Interactive design variable definition															•				
Dedicated DESOPT 200 – Model Update solution															•				
Design variable sensitivities															•				
Filtering of design variables															•				
Frequency and mode shape															•				
Embedded eigenvalue solver															•				
Multiple optimization algorithms															•				
Accommodation of FEM changes															•				
FEM and SIM update capability															•				

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Motion analysis																			
Kinematic simulation																	•		
Dynamic simulation																	•	+	+
Automatic assembly constraint conversion to motion joints																	•		
Association to part and assembly geometry																	•		
Joint couplers (gears, rack and pinion etc.)																	•		
Kinematic constraints																	•		
Motion drivers																	•		
Applied forces																	•		
Joint friction																	•		
Initial conditions																	•		
Spring/damper and bushings																	•		
2D and 3D body contact																	•		
General function operators																	•		
Driver control through articulation and spreadsheet																	•		
Static equilibrium																	•		
XY graph plotting																	•		
Design packaging tools																	•		
Capture assembly arrangements during animation																	•		
Multiple load case support																	•		
Integrated postprocessor																	•		
Load transfer to NX Advanced FEM/NX Advanced Simulation																	•		
Motion controls – co-simulation with Simulink or Matlab																	+		
Flexible bodies dynamic solution																	+		
Mutiple output formats (JT, VRML, animation movies, etc.)																	•		
Import Tecnomatix® Process Simulate Kinematics model																	•		

Additional notes

Characteristics of NX CAE

NX Advanced Simulation is a bundle that includes NX Advanced FEM and NX Nastran Desktop-Basic.

NX CAE add-on products require NX Advanced FEM or NX Advanced Simulation as a prerequisite.

Platforms supported – Windows (32 and 64-bit), Linux 64-bit.

Model and solution size is limited only by amount of memory available and hardware platform/OS.

Characteristics of NX Nastran Desktop

Solution initialized from CAE preprocessing environment (NX or Femap™ software) on the same system.

All solution definitions are performed in the preprocessing tool (either the preprocessor or as part of the Bulk Data Deck creation).

Solver execution is restricted to use with the same CPU as the FE preprocessing solution.

Model and solution size are limited only by amount of memory available and hardware platform/OS.

Platforms supported for NX Nastran Desktop – Windows (32 and 64-bit), Linux 64-bit.

The NX Nastran Basic bundle is a prerequisite for all add-on NX Nastran modules and the NX Nastran Advanced bundle.

The NX Nastran Advanced bundle is not available with Femap software.

DMP is not available in the NX Nastran Desktop version.

Characteristics of NX Nastran Enterprise

Solves any valid Nastran deck from any source (NX, Femap, MSC Patran, Altair HyperMesh and others).

Solver can be located on a different CPU from the preprocessing system, such as on a separate server or cluster.

Model and solution size is limited only by amount of memory available and hardware platform/OS.

Platforms supported for NX Nastran Enterprise – Windows (32 and 64-bit), Linux 64-bit, Unix.

The NX Nastran Basic bundle is a prerequisite for all add-on NX Nastran modules and the NX Nastran Advanced bundle.

The NX Nastran Advanced bundle is not available with Femap™ software.

One license of NX Nastran DMP can be used to spawn a solve over as many processors as wanted.

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