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**IronCAD, LLC.** offers 3D design solutions with functionality tailored to fit your specific needs. 3D design data is seamlessly shared between product offerings allowing users to work effortlessly in a mixed design environment.



IRONCAD™



INOVATE™



IRONCAD  
DRAFT™

### 3D MODELING METHODS

<p>① INOVATE can open and edit structured parts, but it cannot create structured parts. Structured parts support multiple body capability.</p> <p>② INOVATE cannot create external-linked file associations, however INOVATE is able to open files that have externally linked files associated with them that were created in IRONCAD.</p>	Innovative Part Design Support			
	Structured Part Design Support		①	
	3D Dynamic Modeling (History and/or Non-History Based)			
	History Constraint Toggle Technology			
	3D Surfacing Modeling - Basic			
	3D Surfacing Modeling - Advanced		①	
	3D Direct Face Modeling (DFM)			
	3D Direct Face History Modeling (Structured Part Design)			
	Support for 3D Multiple Body Capabilities		①	
	Top-Down Assembly Design			
	Bottom-Up Assembly Design			
	3D Boolean Modeling			
	Assembly Modeling within a Single Scene			■
Assembly Modeling with External Linking Capabilities			②	
Parametric Modeling			③	
Sheet Metal Modeling			③	

### RENDERING

Photo-Realistic Rendering (Basic)			
Photo-Realistic Rendering (Advanced)			

### TRANSLATORS

2D DWG/DXG Support			④	
Support for SAT, X_T, IGES, STEP, CATIA V4 and Pro/E				⑥
Advance Support for CATIA V5, Pro/E, and UG	⑤		⑤	⑥

### COMMUNICATION TOOLS

3D E-mail Package Builder				
Web Publishing				
3D PDF Export				
2D PDF Viewer Support (Freely Distributable)				
3D Scene Viewer (Freely Distributable)				

### 3D ENVIRONMENT

<p>③ INOVATE is able to read sheet metal parts created in IRONCAD, however cannot edit them with standard sheet metal design tools and must resort to DFM tools to edit.</p> <p>④ INOVATE can import 2D into sketch environments but cannot export 2D data.</p> <p>⑤ Optional translators are available at additional costs.</p> <p>⑥ Support for Import only for all solid format translators. Optional import translators are available at additional costs.</p>	Library of Catalogs				
	IntelliShape Modeling Intelligence - Basic				
	IntelliShape Modeling Intelligence - Advanced				
	Dynamic View Sensitivity Modeling				
	SmartSnap® Technology				
	Behavioral Modeling				
	Variant Modeling (Design Variations)				
	SmartAssembly® Technology				
	IntelliStretch® Technology				
	Auto-Feature® (On-Demand feature recognition)				
	Dual Kernel Support (ACIS and PARASOLID)				
	Cruising Technology				
	Multiple Coordinate Systems Creation				
	Mechanism Kinematics				
	Dynamic Collision Detection				
	TriBall®				
	Handle Technology (Basic)				
	Handle Technology (Advanced)				
Auto-Project Sketching					
Reference Object Support (Datum Planes)			①		
Spreadsheet-Driven Parametric Design					
2D Sketching SmartSnap Feedback and Indicators					
Real-time Rendering Display Options Support					

### ANIMATION

Animation - Drag and Drop				
Animation - Key-Frame				
Animation Export to Video				

### 2D DRAWING ENVIRONMENT

2D Bidirectional Drafting/Detailing				
Integrated CAXA Draft 2D Drafting/Detailing				
Library of Catalogs				
Parametric 2D Parts Library				