

Legend	
Yes	Indicates functionality included
No	Indicates functionality not included and not available as an add-on
Upgrade Add-on	Functionality can be purchased as an add-on product after upgrading to non-Shining 3D Edition
Add-on	Functionality can be purchased as an add-on product
9	Teamcenter license required on top
11	Requires a node locked license or online monthly/annual subscription

Product Area	Key Feature/Function	Classic	Solid Edge Shining 3D Edition
	API (e.g. support for Shining 3D add-in)	Yes	Yes
	Cloud enabled (log-in license, follow-me settings, on-demand updates)	Yes (11)	Does not apply. License control is via dongle.
	3D Solid Edge model viewer	Yes	Yes
	Photo-realistic rendering (KeyShot)	Yes	Yes
	Design for cost (sheet metal only)	Yes	No
	Microsoft Surface Dial support	Yes	Yes
	Files created will open in commercial versions of Solid Edge and 2D drawings are not watermarked when printed	Yes	Yes
	WebPublisher	Add-on: SE314/SE315	Upgrade Add-on
Translation	2D translation (all common formats)	Yes	Yes
	3D translation (all common formats)	Yes	Yes
	Catia V4 Translator	Add on: SE330/SE331	Upgrade Add-on
	Catia V5 Translator	Add on: SE377N/SE377F	Upgrade Add-on
	Inventor migration (requires Inventor installation)	Yes	Yes
	Solidworks migration (requires Solidworks installation)	Yes	Yes
	Pro/Engineer migration (requires Pro/Engineer installation)	Yes	Yes
	JT translation	Yes	Yes
IFC import/export (for Building Information Modeling (BIM))	Yes	Yes	
	Freehand stylus sketching	Yes	Yes
	3D sketching	Yes	Yes
	Material library	Yes	Yes
	General part modeling - ordered (history-based)	Yes	Yes
	General part modeling - synchronous (intelligent direct-modeling)	Yes	Yes
	Hybrid part modeling (ordered and synchronous)	Yes	Yes
	Product & Manufacturing Information (PMI) / 3D driving dimensions	Yes	Yes
	3D face relationships	Yes	Yes
	Design intent recognition and control	Yes	Yes
	Steering wheel (universal geometry control tool)	Yes	Yes
	Procedural features (intelligent direct-modeling features)	Yes	Yes
	Pattern recognition	Yes	Yes
	Feature library	Yes	Yes
	Pattern by table	Yes	Yes
	Standards-based hole tool	Yes	Yes
	Slots	Yes	Yes
	Plastic part design (thin wall/region, rib, web network, lip & groover, vent, mounting boss)	Yes	Yes
	Tear off sketch (intelligent sketch copying)	Yes	Yes
	Family of parts (design configurations)	Yes	Yes
	Adjustable parts (e.g. spring deformation)	Yes	Yes

Part modeling	Direct editing (history-based)	Yes	Yes
	Divide part	Yes	Yes
	Helical protrusion/cutout	Yes	Yes
	Live sections (instant sectional sketch)	Yes	Yes
	Mirror part copy	Yes	Yes
	Part copy	Yes	Yes
	Multi-body modeling	Yes	Yes
	Duplicate feature/body	Yes	Yes
	Simplification tools	Yes	Yes
	Variable table	Yes	Yes
	Sensors	Yes	Yes
	Inspection tools (curvature combs, curvature shading, draft face analysis, zebra stripes)	Yes	Yes
	Split lines & parting surfaces	Yes	Yes
	Helical and spiral curves	Yes	Yes
	Blends	Yes	Yes
	Constant radius round	Yes	Yes
	Variable radius round	Yes	Yes
	Surface modeling	Yes	Yes
	Goal seek (automated 2D and 3D engineering calculation to reach a desired design goal)	Yes	Yes
	Reverse engineering (e.g. 3D scanning) tools	Yes	Yes
	Generative design	Yes	Yes
	Generative Design Pro (pro tools e.g. export for 3D printing/editing, manufacturing controls, and much more)	Add-on: SE395N/SE395F	Upgrade Add-on
Convergent Modeling (mesh and b-rep modeling)	Yes	Yes	
Sheet metal modeling	Fundamental sheet metal modeling	Yes	Yes
	Contour flange	Yes	Yes
	Hem	Yes	Yes
	Slots	Yes	Yes
	Formed features (dimple, louver, drawn cutout, bead, gusset, etch, emboss)	Yes	Yes
	Jog & bend	Yes	Yes
	Create sheet metal by wrapping	Yes	Yes
	Convert thin part to sheet metal	Yes	Yes
	Automated flat pattern	Yes	Yes
	Blank body (flatten complex shapes)	Yes	Yes
	Component assembly / relationships	Yes	Yes
	Adjustable assembly (e.g. operational door hinge sub-assembly)	Yes	Yes
	Assembly relationship manager	Yes	No
	Assembly variables	Yes	Yes
	Auto-relate	Yes	Yes
	Auto-constrain	Yes	No
	Capture fit	Yes	Yes
	Collision detection	Yes	Yes
	Family of assemblies (design configurations)	Yes	Yes
	Top down/in-context modeling	Yes	Yes
	Assembly view tools (isolate, hide/show toggle)	Yes	Yes

Assembly modeling	Pattern adjustable parts	Yes	Yes
	Product & Manufacturing Information (PMI)	Yes	Yes
	Simplification tools	Yes	Yes
	Systems libraries (re-usable component & feature set)	Yes	Yes
	Zero D (conceptual assembly layout)	Yes	Yes
	Duplicate & Clone (component and feature driven patterning)	Yes	Yes
	Zones	Yes	Yes
	Animation	Yes	Yes
	Explode	Yes	Yes
	Frames & weldments	Yes	Yes
	Engineering reference (automated design of cams, gears, pulleys & shafts, springs, beams & columns)	Yes	No
	Standard parts administrator and basic library	Yes	No
	Machinery library (standard parts extension)	Yes	No
	Electrical routing	Add-on: SE360/SE361	Upgrade Add-on
	XpresRoute (pipe & tube routing)	Add-on: SE304/SE306	Upgrade Add-on
	Piping library (standard parts extension)	Add-on: SE323/SE324	Upgrade Add-on
	Mold tooling and electrode design	Add-on: SE316/SE317	Upgrade Add-on
	Electrode design	Add-on: SE365/SE366	Upgrade Add-on
	Drafting / Drawing	Native 2D drafting	Yes
Create 3D from 2D views (including dimension migration)		Yes	Yes
Automated 2D drawings (general drawing production from 3D model)		Yes	Yes
Block tables		Yes	Yes
Parts lists		Yes	Yes
Bend tables		Yes	Yes
Hole tables		Yes	Yes
Tolerance tables		Yes	Yes
Drawing compare		Yes	Yes
Diagramming		Yes	Yes
Nailboards		Yes	No
Multi-core drawing view update		Yes	Yes
Simulation		Motion simulation	Yes
	Simulation Express (basic stress and vibration/modal)	Yes	Yes
	Simulation (full stress, vibration/modal, buckling, thermal, optimization)	Add-on: SE385N/SE385F	Upgrade Add-on
Manufacturing	3D printing preparation	Yes	Yes
	STL and 3MF export (with color printing support)	Yes	Yes
	3D printing service	Yes	Yes
Data management	Built-in data management	Yes	Yes
	Cloud enabled (cloud storage e.g. Dropbox integration)	Yes	Yes
	Design Manager	Yes	Yes
	Embedded Client (Teamcenter integration for Solid Edge)	Add-on: SE375N/SE375F (9)	Upgrade Add-on
	Requirements Management	Add-on: SE379N/SE379F	Upgrade Add-on
	Cloud native, browser based collaboration (view, mark-up/comment, share) and online storage	Free add-on: Solid Edge Portal	Free add-on: Solid Edge Portal