| 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 |

| Category | Feature | | |
|---|---|---|---|
| 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 (autmated 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 | 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 | 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 |