

Funktionsliste der 3DViewStation-Produktfamilie

Information as per October 27, 2023. Errors excepted, information is subject to change without notice at any time.

| Functionality | | | Desktop, ActiveX | | | | | | | | WebViewer | | | | | |
|---------------|---------|----------------------|------------------|-------------|------------------|-----------|----------------------|------------------------|------------------|-------------------------|-----------|-------------|----------------------|------------------------|------------------|-------------------------|
| Category | Item | Detail | 2D basic | 2D advanced | 3D all importers | 3D export | 3D advanced analysis | 3D feature recognition | 3D IP protection | Technical documentation | WebViewer | 2D advanced | 3D advanced analysis | 3D feature recognition | 3D IP protection | Technical documentation |
| file | open | | ● | ● | ● | | | | | | API | ● | | | | |
| | import | | ● | ● | ● | | | | | | API | ● | | | | |
| | save as | | ● | ● | ● | | | | | | API | ● | | | | |
| | convert | | | | | ● | | | | | | | | | | |
| | print | | ● | ● | ● | | | | | | | | | | | |
| settings | search | search for a setting | ● | ● | ● | ● | ● | | ● | ● | ● | ● | ● | | ● | ● |
| | import | tessellation | | | ● | | | | | | ● | | | | | |
| | import | BREP | | | ● | | | | | | ● | | | | | |
| | import | attributes | | | ● | | | | | | ● | | | | | |
| | import | wireframes | | | ● | | | | | | ● | | | | | |
| | import | PMIs | | | ● | | | | | | ● | | | | | |

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| | import | help constructions | | | ● | | | | | | ● | | | | | |
| | import | views | | | ● | | | | | | ● | | | | | |
| | import | filter | | | ● | | | | | | ● | | | | | |
| | import | replace node names | | | ● | | | | | | ● | | | | | |
| | import | recursive file search | | | ● | | | | | | ● | | | | | |
| | import | incremental | | | ● | | | | | | ● | | | | | |
| | export | BREP or tessellation | | | | ● | | | | | ● | | | | | |
| | export | PDF + template | | | | ● | | | | | ● | | | | | |
| rendering | solid | | | | ● | | | | | | ● | | | | | |
| | wireframe | | | | ● | | | | | | ● | | | | | |
| | illustration | | | | ● | | | | | | ● | | | | | |
| | silhouette | | | | ● | | | | | | ● | | | | | |
| | opaque | | | | ● | | | | | | ● | | | | | |
| | material | | | | ● | | | | | | ● | | | | | |

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| | shadow | | | | ● | | | | | | ● | | | | | |
| | grid | | | | ● | | | | | | ● | | | | | |
| | invert | background | ● | ● | | | | | | | | | | | | |
| | black / white mode | | ● | ● | | | | | | | | | | | | |
| | full screen | | | | ● | | | | | | ● | | | | | |
| | split screen | | | | ● | | | | | | | | | | | |
| | focus | | | | ● | | | | | | ● | | | | | |
| | hardware accelerated | | ● | ● | ● | | | | | | ● | ● | | | | |
| | software mode | | ● | ● | ● | | | | | | ● | ● | | | | |
| | remove edges | | | | ● | | | | | | ● | | | | | |
| | re-calculate edges | | | | ● | | | | | | ● | | | | | |
| navigation | zoom | | ● | ● | ● | | | | | | ● | ● | | | | |
| | pan | | ● | ● | ● | | | | | | ● | ● | | | | |
| | rotate | | ● | ● | ● | | | | | | ● | ● | | | | |

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| | fly through | | | | ● | | | | | | ● | | | | | |
| | page | next | ● | ● | | | | | | | | ● | | | | |
| | page | previous | ● | ● | | | | | | | | ● | | | | |
| | layer | | | | ● | | | | | | | | | | | |
| | standard views | | | | ● | | | | | | ● | | | | | |
| | PMI views | | | | ● | | | | | | ● | | | | | |
| | functional views | | | | ● | | | | | | ● | | | | | |
| | play views | | | | ● | | | | | | ● | | | | | |
| | save views | | | | ● | | | | | | ● | | | | | |
| | load views | | | | ● | | | | | | ● | | | | | |
| selection | click | | | | ● | | | | | | ● | | | | | |
| | add | | | | ● | | | | | | ● | | | | | |
| | remove | | | | ● | | | | | | ● | | | | | |
| | rectangle | | | | ● | | | | | | ● | | | | | |

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| | all | | | | ● | | | | | | ● | | | | | |
| | merge | to single, recursive | | | ● | | | | | | ● | | | | | |
| | intelligent picking | | | | ● | | | | | | ● | | | | | |
| | drill down | | | | ● | | | | | | ● | | | | | |
| | hide | | | | ● | | | | | | ● | | | | | |
| | ghost | | | | ● | | | | | | ● | | | | | |
| | invert | | | | ● | | | | | | ● | | | | | |
| | delete | | | | ● | | | | | | ● | | | | | |
| | mode | select | | | ● | | | | | | ● | | | | | |
| | mode | ghost | | | ● | | | | | | ● | | | | | |
| | mode | hide | | | ● | | | | | | ● | | | | | |
| | mode | delete | | | ● | | | | | | ● | | | | | |
| | mode | face | | | ● | | | | | | ● | | | | | |
| | mode | color | | | ● | | | | | | ● | | | | | |

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| | by object type | | | | ● | | | | | | | | | | | |
| | search PMI | 3D file formats only | | | ● | | | | | | ● | ● | | | | |
| | search Markups | | | | ● | | | | | | ● | ● | | | | |
| | text search | 2D file formats only | ● | ● | | | | | | | ● | ● | | | | |
| | neighbourhood search | box | | | ● | | | | | | ● | | | | | |
| | neighbourhood search | sphere | | | ● | | | | | | ● | | | | | |
| | neighbourhood search | linear distance | | | ● | | | | | | ● | | | | | |
| Measurements & dimension | point | | ● | ● | ● | | | | | | ● | ● | | | | |
| | length | | ● | ● | ● | | | | | | ● | ● | | | | |
| | length | cumulated | ● | ● | ● | | | | | | ● | ● | | | | |
| | center | | ● | ● | ● | | | | | | ● | ● | | | | |
| | perimeter | | ● | ● | ● | | | | | | ● | ● | | | | |
| | radius | | ● | ● | ● | | | | | | ● | ● | | | | |
| | diameter | | ● | ● | ● | | | | | | ● | ● | | | | |

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| | area | | | | ● | | | | | | ● | | | | | |
| | area | cumulated | | | ● | | | | | | ● | | | | | |
| | angle | edge | ● | ● | ● | | | | | | ● | ● | | | | |
| | angle | line | ● | ● | ● | | | | | | ● | ● | | | | |
| | angle | point | ● | ● | ● | | | | | | ● | ● | | | | |
| | angle | coordinate system | | | ● | | | | | | ● | | | | | |
| | wall thickness | | | | ● | | | | | | ● | | | | | |
| | bounding box | world | | | ● | | | | | | ● | | | | | |
| | bounding box | part | | | ● | | | | | | ● | | | | | |
| | distance | points | ● | ● | ● | | | | | | ● | ● | | | | |
| | distance | lines | ● | ● | ● | | | | | | ● | ● | | | | |
| | distance | edges | | | ● | | | | | | ● | | | | | |
| | distance | axis | | | ● | | | | | | ● | | | | | |
| | distance | faces | | | ● | | | | | | ● | | | | | |

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| | distance | solids | | | ● | | | | | | ● | | | | | |
| | distance | combinations | | | ● | | | | | | ● | | | | | |
| | calibrate | | ● | ● | | | | | | | | | | | | |
| properties | volume | | | | ● | | | | | | ● | | | | | |
| | surface | | | | ● | | | | | | ● | | | | | |
| | density | | | | ● | | | | | | ● | | | | | |
| | mass | | | | ● | | | | | | ● | | | | | |
| | center of gravity | | | | ● | | | | | | ● | | | | | |
| | color | | | | ● | | | | | | ● | | | | | |
| | transparency | | | | ● | | | | | | ● | | | | | |
| | attributes | | | | ● | | | | | | ● | | | | | |
| | wires | color | | | ● | | | | | | ● | | | | | |
| | background image | color | | | ● | | | | | | ● | | | | | |
| | background | image | | | ● | | | | | | ● | | | | | |

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| | skybox | | | | ● | | | | | | ● | | | | | |
| analysis standard | section | coordinate system | | | ● | | | | | | ● | | | | | |
| | section | normal of face | | | ● | | | | | | ● | | | | | |
| | section | 3 points | | | ● | | | | | | | | | | | |
| | compare | quick | | | ● | | | | | | ● | | | | | |
| | compare | exact | | | ● | | | | | | ● | | | | | |
| | projected area | | | | ● | | | | | | ● | | | | | |
| | BOM | | | | ● | | | | | | | | | | | |
| analysis advanced | draft angle | | | | | | ● | | | | | | ● | | | |
| | split | | | | | | ● | | | | | | ● | | | |
| | clash | | | | | | ● | | | | | | ● | | | |
| | wall thickness | graduated heatmap | | | | | ● | | | | | | ● | | | |
| | convex hull | | | | | | ● | | | | | | ● | | | |
| | curvature | graduated heatmap | | | | | ● | | | | | | ● | | | |

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| | clearance band analysis | graduated heatmap | | | | | ● | | | | | | ● | | | |
| feature recognition | neutral axis | | | | | | | ● | | | | | | ● | | |
| | drill hole | | | | | | | ● | | | | | | ● | | |
| IP protection | distort tessellation | | | | | | | | ● | | | | | | ● | |
| | distort BREP | | | | | | | | ● | | | | | | ● | |
| | remove internal parts | | | | | | | | ● | | | | | | ● | |
| | remove internal faces | | | | | | | | ● | | | | | | ● | |
| | remove triangles internal | | | | | | | | ● | | | | | | ● | |
| | convex hull | | | | | | | | ● | | | | | | ● | |
| transform | move | | | | ● | | | | | | ● | | | | | |
| | rotate | | | | ● | | | | | | ● | | | | | |
| | scale | | | | ● | | | | | | ● | | | | | |
| | explode | | | | ● | | | | | | ● | | | | | |
| | mirror | | | | ● | | | | | | ● | | | | | |

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| | free drag | | | | ● | | | | | | ● | | | | | |
| | coordinate system to coordinate system | | | | ● | | | | | | | | | | | |
| | axis to axis | | | | ● | | | | | | | | | | | |
| | lock direction | | | | ● | | | | | | | | | | | |
| | lock rotation axis | | | | ● | | | | | | | | | | | |
| | animated rotation | | | | ● | | | | | | | | | | | |
| help construction | create coordinate system | | | | ● | | | | | | ● | | | | | |
| | create circle center | | | | ● | | | | | | ● | | | | | |
| | create point | | | | ● | | | | | | ● | | | | | |
| | create axis | | | | ● | | | | | | ● | | | | | |
| | activate coordinate system | | | | ● | | | | | | | | | | | |
| redline / markup | text annotation | | ● | ● | ● | | | | | | ● | ● | | | | |
| | circle | | ● | ● | ● | | | | | | ● | ● | | | | |

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| | rectangle | | ● | ● | ● | | | | | | ● | ● | | | | |
| | free hand | | ● | ● | ● | | | | | | ● | ● | | | | |
| technical documentation | generate BOM Ids | | | | | | | | | ● | | | | | | ● |
| | callout generate | automatic | | | | | | | | ● | | | | | | ● |
| | callout generate | interactively | | | | | | | | ● | | | | | | ● |
| | callout arrangement | automatic | | | | | | | | ● | | | | | | ● |
| | callout arrangement | interactively | | | | | | | | ● | | | | | | ● |
| | callout properties | shapes, balloons & lines | | | | | | | | ● | | | | | | ● |
| publish | bitmap | | ● | ● | ● | | | | | | API | API | | | | |
| | PDF | | ● | ● | ● | | | | | | API | API | | | | |
| | HLR to DXF | | | | ● | | | | | | API | | | | | |
| | HLR to SVG | | | | ● | | | | | | API | | | | | |
| | callout lines | | | | ● | | | | | | API | | | | | |
| | clipboard | | ● | ● | ● | | | | | | API | API | | | | |

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| | export | | | | ● | | | | | | API | | | | | |
| various | instances | optimize | | | ● | | | | | | ● | | | | | |
| | Skybox generator | | | | ● | | | | | | | | | | | |
| | undo | | ● | ● | ● | | | | | | ● | ● | | | | |
| | face extraction | | | | ● | | | | | | ● | | | | | |
| | color code | | | | ● | | | | | | ● | | | | | |
| | hyperlinking | | | | ● | | | | | | ● | | | | | |
| | UI | ribbon Office like | ● | ● | ● | | | | | | ● | ● | | | | |
| | UI | change color | ● | ● | ● | | | | | | ● | ● | | | | |
| | UI | change language | ● | ● | ● | | | | | | ● | ● | | | | |
| | UI | customize layout | ● | ● | ● | | | | | | ● | ● | | | | |
| | UI | extend by PlugIn | ● | ● | ● | | | | | | ● | ● | | | | |
| | UI | reset layout | ● | ● | ● | | | | | | ● | ● | | | | |
| | settings | save profile | ● | ● | ● | | | | | | ● | ● | | | | |

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| | settings | load profile | ● | ● | ● | | | | | | ● | ● | | | | |
| | 2D font replace | single, table | | ● | | | | | | | | ● | | | | |
| | 3D mouse support | 3D Connexion | | | ● | | | | | | | | | | | |
| | wires | remove | | | ● | | | | | | ● | | | | | |
| | wires | generate | | | ● | | | | | | ● | | | | | |
| | faces | remove | | | ● | | | | | | ● | | | | | |
| | faces | generate | | | ● | | | | | | ● | | | | | |
| | normals | remove | | | ● | | | | | | ● | | | | | |
| | normals | generate | | | ● | | | | | | ● | | | | | |
| | tessellation | reduce | | | ● | | | | | | ● | | | | | |
| | geometries | detect duplicates | | | ● | | | | | | ● | | | | | |
| | geometries | detect tiny | | | ● | | | | | | ● | | | | | |
| | geometries | re-center | | | ● | | | | | | ● | | | | | |