

DESIGNER Feature Chart 2025.1

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PS-STD-DES

General & File Handling

New file / Open / Insert / Save / Save as / Save part as

●

Cut / Copy / Paste / Delete / Snapshot manager

●

Send to CAM / Share in the Nexus 3D Whiteboard

●

Custom themes & commands / Macros & Scripting / Direct editing / Undo history editing

●

Edit

Edit properties / Undo / Redo / Undo history / Translate / Rotate / Mirror / Scale

●

Workplanes: Create / Transform / Project on workplane

●

Align / Project elements / Projected area / Materials / Repeat on element

●

Wireframe - Create and Edit

Edit elements / Points / Lines / Circles / Rectangles / Slot / Circular slot / Polygon

●

Ellipse / Chamfer / Fillet / Trim / Trim elements / Extend

●

Hyperbola / Parabola / Involute

●

Curves: Create / Join / Blend with curve / Helix / Point interpolation / Rib / Projected

●

Offset / Dissolve / Reverse curve / Split element / Reprocess / Stretch

●

Profiles: Create / Fillets / Merge / Gear

●

Pointsets: Points on elements / Linear / Circle centres / Circular / Manual

●

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Pointsets: Matrix / Add a point / Delete a point / Copy onto set	●
Extract Edges / Draw axes / Wrap / Unwrap / Sections / Offset on faces	●
Curves: Isoparametric / Isocline / Intersection	●
Inspection points: Create / Modify / Export	●
Solid and Surface Creation	
Primitive forms (Cuboid / Cone / Sphere etc.)	●
Fill holes / Linear ruled / Piped / Surface by points / Surface from area	●
CAD Operations	
Boolean (Unite / Subtract / Intersect) / Sew sheet bodies	●
Extrude / Revolve / Move faces / Blends / Chamfer / 3 face blend / Draft	●
Cut bodies / Offset (3D) / Simplify / Edit radius / Automatic trim	●
Drilled and tapped holes: Create and Modify / Male threads	●
Remove face / Replace face / Dissolve body / Close to solid / Auto trim	●
Features: Rotate / Translate / Mirror / Edit radial / Create pattern	●
Apply tolerances to holes / Surface finish attributes / Apply Images	●
Automatic trim / Simplify edges	●
Mesh Operations	
Convert to mesh / Mesh to surface / Mesh clean-up	●
Extract mesh edges / Split mesh faces	●

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Analysis

Validate bodies / Analyse profile / Dynamic section / Sanitise part names

●

Distance 3D / Angle 3D / Bounding box / Geometric properties / Status

●

Duplicated entities / Surface analyser / Mass / PMI Labels

●

Draft / Curvature / Altitude / Edge / Face area / Face type / Compare

●

Thickness / Solid interference

●

Annotations

Text / Find text / Edit text / Note / Text leader / Note 3D /

●

Arc / Element / Angle / Point / Edit dimension / Coordinate / Height mark

●

Diametral / Circle centre / Circle table

●

Point balloons / Balloon / Cross / Hatch / Global scale

●

Datum / Chain / Ordinate / Positional

●

Bill of Materials / BOM Labels

●

Masks: Load / Create / Update

●

Tolerances: Geometric tolerance / Surface finish

●

2D Drawing

Create views / Dynamic view creation / Multiple views / Sections / Detailed views

●

Outbreaks / Cropped views / Grid on views

●

DESIGNER Modules 2025.1

	PS-XC4	PS-XC5	PS-XNX	PS-XCREO	PS-XJT	PS-ADSU	PS-ELEC	PS-RE	PS-SHM
Import / Export									
CATIA V4 Import	●								
CATIA V5/V6 Import/Export		●							
NX Import/Export			●						
Creo / Pro/ENGINEER Import				●					
JT Open Import/Export					●				
Additional Modules									
Surfaces						●			
Electrode Design							●		
Recreate								●	
Sheet Metal (Subscription only)									●

Modules	Description
<u>Surfaces</u>	A module for advanced surface creation and edition: Functions include Lofted / Tangent / Swept / Helical / Extension / Surface drafts / Bend relief / Large offset / Split line / Parting plane / Advanced trimming and surface editing
<u>Electrode Design</u>	A module for creating and preparing electrodes. Functions include Electrode extraction / Stock definition / Simulation & collision checking / Holder management for Erowa, System 3R & Hirschmann / HTML Reports. Includes <u>Surfaces module</u>
<u>Recreate</u>	A module for reverse engineering. Functions include Connection to Hexagon scanning & probing devices / Cloud and mesh clean-up / Geometric and freeform solid and surface creation / Auto-surfacing / Compare. Includes <u>Surfaces module</u>
<u>Sheet Metal</u> (Subscription only)	A module for processing, editing, and creating sheet metal parts. Functions include Access to material database / Disassembly / Manufacturing Pack / Bend allowance / Split edge & face / Add bends / Remove bevels / Corner reliefs / Flange management / Add tabs. Includes <u>Surfaces module</u>

DESIGNER | Recreate Hardware connectivity

Connection via RDS	Direct connection with any Hexagon RDS supported portable devices
One-click connection	Hexagon Handheld devices: MARVELSCAN & ATLASCAN
OptoCat plug in	Structured Light Scanner (SLS)

CAD Imports Included	Exports Included
Part Modeler	3D PDF
PC-DMIS	ACIS
VISI	DWG / DXF
WORKNC CAD / WORKNC	FBX
ACIS	GDML
Cadds	GLTF
DWG / DXF	IGES
FBX	MEG
IFC	OBJ
IGES	Parasolid
Inventor	STEP
OBJ	STL
Parasolid	VDA
PLY	BMP / JPEG / PNG / WMF
Point File	
Revit	
Rhino	
Solid Edge	
SOLIDWORKS	
SpaceClaim	
STEP	
STL	
VDA	