




# ALPHACAM

## Designer Feature Chart 2021.0

		Designer Essential ACSYS-ESS	Designer Standard ACSYS-STD	Designer Advanced ACSYS-ADV
<b>File Handling</b>				
	Create data file	•	•	•
	Open / Insert	•	•	•
	Cut / Copy / Paste / Delete	•	•	•
	Save / Save as / Save part as / Snapshot manager	•	•	•
	Send to CAM	•	•	•
<b>Edit</b>				
	Undo / Redo / Undo history	•	•	•
	Translate / Rotate / Mirror / Scale	•	•	•
	Edit Elements / Edit Properties	•	•	•
	Workplanes: Create / Transform	•	•	•
	Project on workplane	•	•	•
	Align / Project elements / Projected area / Materials		•	•
<b>Wireframe - Create and Edit</b>				
	Points / Lines / Circles / Rectangles / Slot / Circular slot / Polygon / Ellipse	•	•	•
	Chamfer / Fillet / Curves: Create / Join / Helix	•	•	•
	Offset / Dissolve / Reverse curve / Split element / Reprocess / Stretch	•	•	•
	Profiles: Create / Fillets / Merge / Gear	•	•	•
	Trim / Trim elements / Extend direct / Extend by length	•	•	•
	Pointsets: Points on elements / Linear / Circle centres / Circular / Manual	•	•	•
	Pointsets: Matrix / Add a point / Delete a point / Copy onto set	•	•	•
	Extract Edges / Draw axes / Wrap / Unwrap / Blend with curve / Sections / Offset on faces		•	•
	Curves: Isoparametric / Isocline / Intersection / Hyperbola / Parabola / Involute		•	•
<b>Solid and Surface Creation</b>				
	Primitive forms (Cuboid / Cone / Sphere etc.)		•	•
	Fill holes / Linear ruled / Piped / Surface by points / Surface from area		•	•
	Auto-constrained / Extend / Tangent / Join / Sweep / Helical / Surface drafts			•
<b>CAD Operations</b>				
	Boolean (Unite / Cavity / Intersect) / Sew sheet bodies		•	•
	Extrude / Revolve / Move faces / Blends / Chamfer / 3 face blend / Draft		•	•
	Cut bodies / Offset (3D) / Simplify / Edit radius		•	•
	Drilled and tapped holes: Create and Modify		•	•
	Remove face / Replace face / Dissolve body / Close to solid		•	•
	Features: Rotate / Translate / Mirror / Edit radial		•	•
	Assign tolerances to holes and shafts / Assign surface finish attributes / Apply images		•	•
	Surfaces: Orientation / Trim / Edit / Trim face-face / Delete edges / Edit boundary			•
<b>Mesh Modelling</b>				
	Convert to mesh / Mesh to surface / Mesh clean-up		•	•
	Extract mesh edges / Split mesh faces		•	•
<b>Analysis</b>				
	Validate bodies / Analyse profile / Dynamic section	•	•	•
	Distance 3D / Angle 3D / Bounding box / Geometric properties	•	•	•
	Status / Calculator	•	•	•
	Duplicated entities / Surface analyser / Mass		•	•

Annotations	ESS	STD	ADV
Text / Find text / Edit text / Note / Text leader / Note 3D / Point balloons / Balloon	•	•	•
Simple: Arc / Element / Angle / Point / Edit dimension	•	•	•
Diametral / Circle centre / Circle table	•	•	•
Cross / Hatch / Global scale	•	•	•
Datum / Chain / Ordinate / Positional	•	•	•
Masks: Load / Create / Update	•	•	•
Tolerances: Geometric tolerance / Surface finish	•	•	•

 <b>HEXAGON</b> <small>MANUFACTURING INTELLIGENCE</small>		ALPHACAM		Designer Modules 2021.0		ACCAD-001	ACCAD-002	ACCAD-004	ACCAD-005	ACCAD-006	ACCAD-007	ACCAD-011	ACCAD-013	ACADV-CUST
<b>Import / Export</b>														
CATIA V4 Import						•								
CATIA V5 / V6 / 3DEXPERIENCE / 3D XML Import							•							
NX / Unigraphics Import								•						
Creo / Pro/ENGINEER Import									•					
JT Open Import / Export										•				
<b>Additional Modules</b>														
2D Drawing											•			
Analysis												•		
Reverse – Prerequisite: Advanced													•	
Advanced Customisation														•

Third party CAD imports included in all system licences	
Part Modeler	
SMIRT	
VISI	
WORKNC CAD / WORKNC	
ACIS	
DWG / DXF	
IGES	
Inventor	
Parasolid	
PLY	
Point File	
Rhino	
Solid Edge	
SolidWorks	
SpaceClaim	
STEP	
STL	
VDA	