

## TopSolid 7 Design Modulewijzer

Een zwart ingekleurd rondje (●) betekent dat de module de functionaliteit bevat. Een blanco rondje (○) houdt in dat deze functionaliteit optioneel is.

	TopSolid'Design Advanced	TopSolid'Design Pro
<b>Advanced Assembly Modeling</b>		
Welded frame design and associated operations (mitre cuts & planar cuts)		●
Mechanical standard components libraries (screws & washers)		●
<b>Assembly Modeling</b>		
« Bottom-Up » Design by positioning constraints	●	●
« Top-Down » Design. Part synchronization in assemblies in-place	●	●
Creation and use of families	●	●
Exploded assemblies & mounting / dismounting animations	●	●
<b>Document management</b>		
Document management in projects	●	●
Database local and single user	●	●
Revision management	●	●
Database client (for multi user database possibility)	○	●
<b>Documentation</b>		
Detailed 2D drawing: Dimensions, section views and automatic hatching	●	●
BOM management: Flat or multi-level BOM, automatic part indexing	●	●
Define 3D PMI's, normalization ISO 14253 (GPS)	●	●

	TopSolid'Design Advanced	TopSolid'Design Pro
<b>Kinematics</b>		
Define mechanical joints (pivot, prismatic, gear and rack)	•	•
Define Physical Environment (forces & gravity)	•	•
<b>Part Modeling</b>		
2D and 3D sketches	•	•
3D volume and surface modeling	•	•
<b>Piping</b>		
3D sketch tools for pipeline design		•
3D pipeline design using piping standard components		•
<b>Realistic Rendering</b>		
Work in realistic rendering mode, according to materials textures and lights	•	•
Output and calculate hi-resolution bitmaps	0	0
<b>Sheet Metal Design</b>		
Design sheet metal parts and assemblies, with associated unfolding documents		•
Convert imported data into sheet metal parts		•
<b>Simulation</b>		
Kinematics and dynamics simulation: Animate and visualize results		•
TopSolid'Fea Express: Structural analysis on single parts		•