

Obstacle Surface Planner

The optimum tool for obstacle clearance compliance



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Safe operations are the main priority for every airport and a critical component in achieving this involves the protection of departure and approach paths. Obstacle Surface Planner assists with this challenge by allowing planners to precisely control and establish the multitude of existing or potential obstacles in an airport's surrounding environment.

Obstacle Surface Planner ensures compliance with FAA and ICAO regulations, which in turn helps to ensure maximum safety in all aircraft operations. The software effortlessly creates the various Obstacle Limitation / Clearance Surfaces through a series of built-in algorithms and presents them graphically. The surfaces can be depicted based on either ICAO or FAA standards, in a complete 2D or 3D AutoCAD environment that allows for easy integration into an Airport Layout Plan, an airport's obstacle map, or other types of software including GIS applications.

What's more, potential construction objects or existing obstacles can also be presented in 3D and are recognized by the software. If any objects intersect or penetrate the surfaces, the software will present this data in an easy-to-read format, allowing the planner to identify heights and obstacle locations.

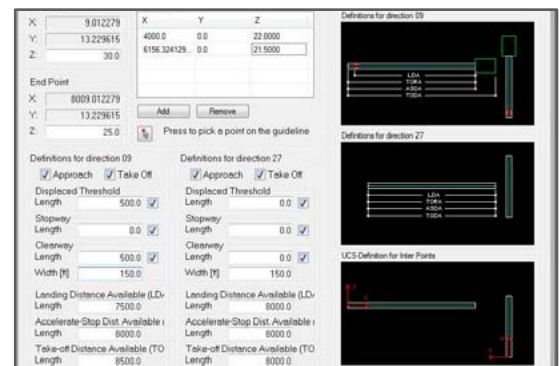
Ease of Use

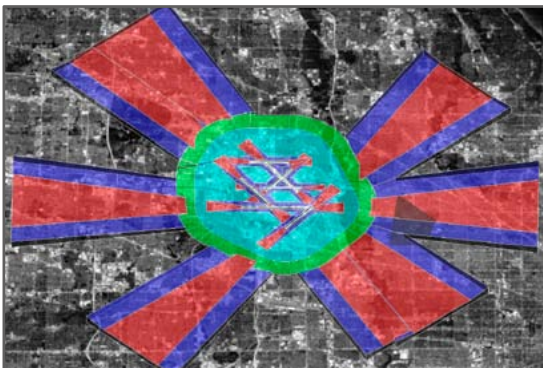
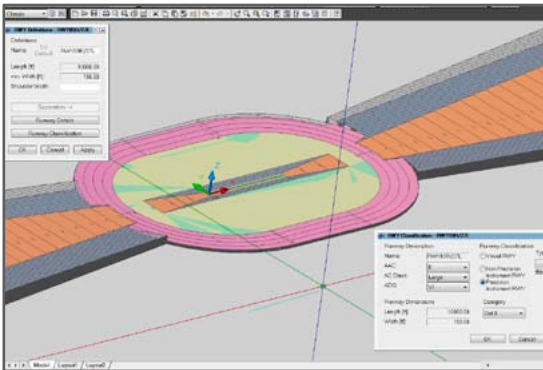
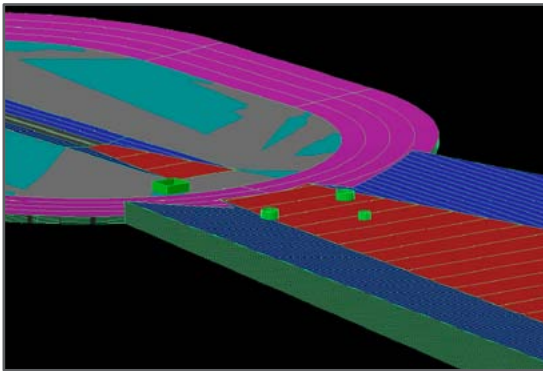
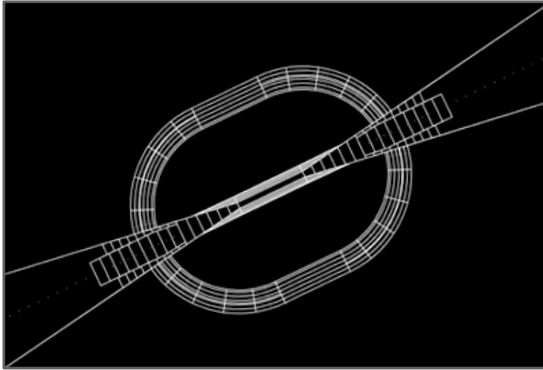
Obstacle Surface Planner features an easy-to-use icon system which utilizes information windows that are organized in a "top-to-bottom" format, ensuring that no critical entry item is missed.

- » Flexibility to select the module(s) that best suit your needs
- » Easily accessible icons and pull-down menus for systematic data entry
- » Seamless integration in AutoCAD®, utilizing built-in 3D capability

Autodesk®
Authorized Developer

Available as a Standalone or Network license, compatible with AutoCAD® (not LT) from 2007 onwards.





Base Module

The Base module is the foundation for every license, containing the majority of obstacle surfaces and the basic functionality to create the surfaces in a 2D or 3D environment. The Base module includes functionality to:

- » Create runway environments, including single or multiple runway scenarios, parallel runways or intersecting runways
- » Create approach and departure scenarios based on the types of approaches, airplane design groups and aircraft approach categories
- » Create Obstacle Limitation / Clearance Surfaces and Obstacle Free Zones including: Horizontal, Conical, Approach, Transitional and Primary surfaces
- » Create automatic contour lines for height intervals as specified by the user
- » Change layers and colors to create a CAD-based graphical depiction
- » Control work using extensive administration options
- » View Obstacle Surfaces and Obstacle Free Zones in 2D and 3D

Advanced Module

The Advanced module offers extended capabilities to define 3D obstacles and assess their clearances, as well as tools which provide for fast and reliable obstacle clearance organization, analysis and in-depth studies based on geographical input. The Advanced module includes functionality to:

- » Create 3D obstacles that can either be defined by the software or imported from other CAD based programs (existing 3D models of objects)
- » Assess obstacle clearance through the "OLS Object Intersection" mode (shows object height at surface and amount of penetration)
- » Create an overview information table for all obstacles in the session
- » Depict in 3D those obstacles that are penetrating the 3D surfaces
- » Add or import images and geographical information (height-fields) based on topography or terrain
- » Detect surrounding terrain surfaces in 3D, i.e. closely located mountains, hills or landmarks

Accuracy

Obstacle Surface Planner is developed using user-input and software operation methods that provide the utmost in accuracy with regard to items such as: runway types (lengths and widths), displaced thresholds, differing runway end elevations, differing longitudinal runway elevations, surface locations and dimensions, and overall 3D depictions based on the location of the Primary Surface/Runway Strip. Main features include:

- » Simple data selection capability relating to visual, non-precision and precision instrument approaches (up to CAT-III precision approaches)
- » Entry of displaced thresholds, stopways, clearways and runway edges
- » Entry of multiple elevation points along the runway centerline to ensure Transitional Surface accuracy
- » Automatic Declared Distances calculations presented in visual format. (LDA, TORA, TODA, ASDA)
- » Create 3D surfaces based on actual regulations and standards

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