

RELIABILITY
FLEXIBILITY
SIMPLICITY
SUPPORT

FastTerrain is a complete software for terrain model creation and quantities estimation. Integrates very sophisticated triangulation and contours computation algorithms including functionality for break-lines, boundaries, surface editing as well as rich utilities for quantities estimation.

Main features

Autonomous software
Integrated within rich CAD environment
Terrain models and contours
Volume surfaces
Grade surfaces



Diolkos3D
Civil engineering Software

Merarhias 49
Serres, Greece 62125
+30 2321304151 ph
+30 2321064200 fax
www.diolkos3d.com



Diolkos3d
Civil engineering Software



FastTerrain

TIN models and quantities estimation

Terrain models
Contours
Volume surfaces
Grade surfaces

FastTerrain at work for you

CONNECTING YOUR OFFICE TO THE TECHNOLOGY YOU NEED

By using **FastTerrain**, with few simple steps you can compute complicated volume surfaces resulting from the intersection between TIN surfaces. Using volume surfaces you can quick compute enclosed volumes (fills and cuts) between surfaces with maximum accuracy. Grade surfaces resulting from the intersection between a TIN surface and a surface generated by excavation poly-line having side-slopes with grade on its edges (standard). On position of the foundation poly-line can be modified, watching in real-time the resulting earthworks volumes in order to equalize the earthworks quantities of fills and cuts.

FastTerrain is a complete and robust solution for designing different kinds of terrain models within rich CAD environment. The program offers detailed functionality for quick and easy insertion and modification for terrain models using graphic object modification commands, properties dialog or grips.



AUTOMATION

FastTerrain is automatically computing the geometry of the terrain TIN in every graphical modification . The user conceives the above calculations as a small delay during the commands that the program executes.

CAPABILITIES

- AUTONOMOUS SOFTWARE
- CAD ENVIRONMENT
- MULTIPLE SURFACES
- VOLUME SURFACES
- GRADE SURFACES
- CONTOURS
- 3D VISUALIZATION

flexible solution for every day practice

ADVANCED CIVIL ENGINEERING SOFTWARE

TERRAIN MODEL

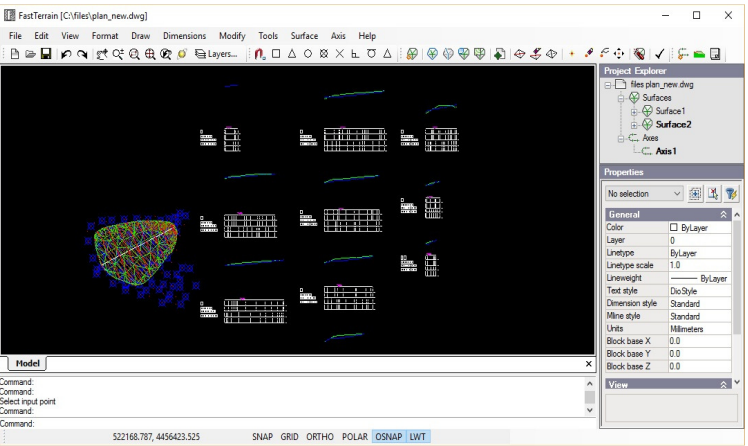
- Functionality for break-lines, and boundaries definition.
- Quick and accurate modeling even for large terrain models having thousands of points and faces.
- Quality models from very sophisticated triangulation algorithms. Compatibility with *.xyz file format.
- By defining axes along surface model the program is able to produce the cross-sections along a selected axis and the corresponding bill-of-quantities tables.
- Reports for bill of quantities (BOQ) using both average end area and fitted length methods
- Colorized 3D visualization

TECHNOLOGY

Slightly integrated within autonomous CAD environment, including all well-known CAD commands to edit graphic objects such as (Copy, Move, Rotate, Offset, trim etc). Export / Import of drawings with file format like DWG and DXF. Raster image insertion capability.

CONSTRUCTION

Import easily the survey data from total stations or GPS using text files. The program generates the terrain model and the cross-sections along a selected axis by using survey points taken in the worksite.



- Terrain model and contours creation.
- Subtract terrain models and measure the volumes of fills and cuts between them.
- Create excavation plan by using a single foundation poly-line.
- Quick manage of large models

SYSTEM REQUIREMENTS

Graphics:
O.S.: 128 MB DirectX
Windows XP,
Vista, 7,8,10



SUPPORT

All engineers in support team have special experience in variety kind of road and hydraulic design projects. We offer continuous and direct technical support without any extra fee.