

# MODEL MAKER

## World-class, trusted and supported

Model Maker is a powerful, intuitive and integrated digital terrain modeling program, and the most advanced in the Model Maker Systems' software suite. That's why Model Maker is the choice of thousands worldwide.

### ITS MODULAR PROGRAMS ARE SMART AND AFFORDABLE

The program consists of 22 modules, which are available in four different versions of the program. The versions are determined by the number of survey points that each can model. This modular design gives users access to only those features required for their application and thereby the cost of the software can be reduced greatly.

### IT'S EASY AND INTEGRATED

Provision is made to input data manually using any survey method, importing data from electronic data recorders or GPS systems and from various fixed and free format ASCII files. Data can also be captured from existing drawings using the built-in digitizing option.

In addition, a facility exists to survey new data or to use an existing model to do real-time setting out work on site by connecting a computer to an electronic survey instrument in the field.

Our range of products is compatible with dwg, dxf, dgn, kml, xml, pdf, shp, sdf, wrc, ifc, cdm, yxz, dat, gen, ski, asc, gms, 12d, rxl, rd5 and txl file formats.

### IT GETS THE JOB DONE

Model Maker also includes a full and comprehensive integrated CAD link between the survey data and all the basic and advanced drawing functions. This enables the surveyor to create detail drawings efficiently on screen with his survey active in the background. In addition to the line styles available the user may also create new line styles and symbols to be used on drawings.

Survey observations are automatically reduced to Y, X, Z coordinates with retention of the original observation data. Station coordinates may be extracted from a trig file or typed in manually during the reduction. A double coding system is available whereby the user may identify specific detail. Two six-character alphanumeric codes per observation are available without any restriction of the meaning of specific codes.

The model is created using a fast automatic triangulation routine with or without restrictions. After the model is created the user still has full control over the various functions provided for editing the model graphically.

Once the model is created various calculations may be done, e.g. four methods of calculating volumes, extracting long or cross sections, slope and watershed analyses, three-dimensional viewing, area (plan and surface) and perimeter calculations, automatic toepoint generation for platforms, mine planning, rehabilitation (landscaping) of excavations and stockpiles, 3D-masshaul planning, powerline templating and earthdam design.

Output of results may be printed or saved in a file and drawings may be plotted directly to any HPGL-compatible plotter, plotfile or various CAD data exchange ASCII formats.



### APPLICABLE DISCIPLINES/FIELDS:

- Technical Surveying
- Land Surveying
- Consulting Engineer
- Mining Engineer
- Mining Surveyor (Opencast)
- Mining Rehabilitation
- Powerline Design
- Townplanning
- Landscaping
- Quantity Surveying
- Contractor Civil
- Agricultural Engineer