



- 2D draughting system
- 3D option
- Diverse application areas
- Incorporation of existing drawings
- Mixed raster and vector
- Cadastral

Computer-aided design

Designer 20 is a 2D/3D draughting system that has been designed for draughtsmen. It provides all the capabilities of a conventional drawing board but with the productivity improvements that computer-aided design systems bring.

In addition, Designer 20 has been developed specifically for use on a high-performance single user workstation, and thus takes full advantage of the environment which that provides.

Designer 20 is equally suited to Mechanical Engineering, Civil Engineering or Architectural applications.

3D option

The Designer 20 3D option allows the user to work on a construction plane or to use surface generation techniques such as surface of revolution, extrusions and B-splines. Models may be viewed as wire frames, with hidden-line removal, and in perspective.

Ease of Use

The use of on-screen icons and pop-up menus means that the user's attention need never be diverted away from the screen. The style of drawing has been kept deliberately similar to that used on a conventional drawing board, resulting in a ready acceptance of the system by new users.

Using existing drawings

Existing drawings held on paper can be captured in digital form using the Advent image capture system, and used in Designer 20 as a backcloth. This means that they can be used either for reference purposes against a new drawing, or modified using Designer 20, enabling new drawings to be created which are a mixture of paper and digital forms.

Features

- symbol and macro definition
- multiple scales on a single drawing
- comprehensive dimensioning
- fast cross-hatching
- 255 drawing layers
- drawing management system
- bill of materials function
- data sheet generation
- parametric design modules

Mixed raster and vector

To cope with the need to plot on top of a printed background, for example pipelines onto a map, Designer 20 allows the combination of raster and vector data. Using the Advent image capture system the map, in digital form, can be displayed as one of the 255 drawing layers in Designer 20. The pipelines can then be added using traditional vector drawing methods, and the composite drawing output on an electrostatic plotter.

Cadastral

This facility is for planners, developers, land management consultants, demographic researchers and property agents. Cadastral allows field survey data to be entered as bearings and distances, or as geographical co-ordinates, to define the positions of property boundaries and other physical features. These can be linked with other related records such as ownership and land-use classification.

Access to stored drawings

A whole library of drawings can be created by Designer 20. Using the system's powerful networking facilities it is possible to share such libraries and to transmit selected drawings to remote workstations.

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