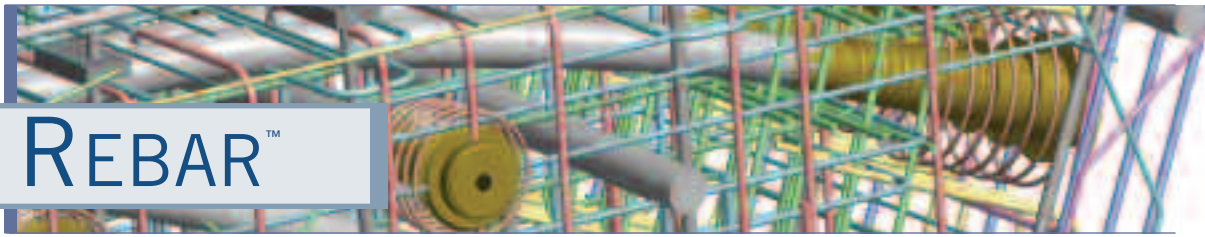


BENTLEY REBAR™



Reinforced Concrete Detailing and Scheduling

Bentley Rebar is 2D/3D software for reinforced concrete detailing and scheduling. It makes full use of MicroStation's interactive, easy-to-use interface to deliver a powerful concrete detailing system. The software is used for a range of structures: buildings, domes, towers, bridges, dams, industrial structures, and marine structures. Bentley Rebar ensures accuracy of design, quantities, and plans – regardless of the complexity.

Drafting Flexibility

Powerful routines enable users to quickly create accurate 2D reinforcement layouts. The detailing process is simple and easy to learn. It provides for straight reinforcement, closed ties, circular, spiral, and radial reinforcement. There are no restrictions on the shape of the concrete arrangement. Plan, section, and elevation details can be regular or irregular, and can include complex and varying concrete shapes. Reinforcement is instantly updated by the software whenever changes to the concrete arrangements are required.

Dynamic Bar Labeling

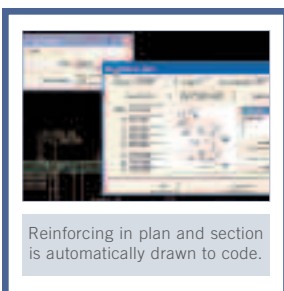
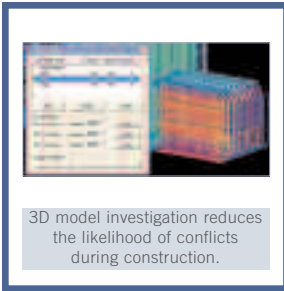
The labeling options are designed to eliminate errors traditionally associated with rebar detailing. Bar marks, bar quantities, spacings and diameters, and so on, are maintained automatically by the software across multiple views and throughout the entire drawing – saving many hours not just during detailing but also in the checking process. A list of user-defined labeling formats virtually eliminates the need to enter text manually in your bar call-outs.

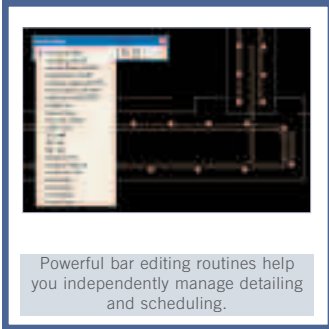
Automatic Scheduling and Charting

As reinforcement details are created, Bentley Rebar automatically assigns bar marks, determines bar shapes, and calculates bar lengths and dimensions. The software instantly updates bar charts with accurate quantities and bar mass summaries. Changes to the schedules and bar charts are made automatically as changes to the concrete arrangements occur.

Dynamic Dimensioning

Dynamic dimensions allow you to drive the size and shape of the concrete details. When it becomes necessary to resize concrete details, dimensions are attached to a detail using the dynamic dimensioning tool. Bentley Rebar prompts for these dimensions and then adjusts all the related concrete and reinforcement details when new sizes are entered.



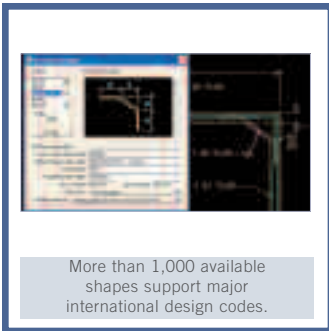


User-Definable Bar Codes

Reinforcement is drawn in accordance with your preferred design code. Bentley Rebar includes support for the majority of international design codes. Lap lengths, bar diameters, steel grades and designations, as well as hook and cog sizes, are all preset to the requirements of each code. You can modify this data at any time to suit special design conditions, or input your own data to comply with lesser-known codes.

Bar Shape Library

Bentley Rebar scans its Bar Shape Library to find a matching shape as each reinforcing bar is detailed. Required shapes are activated and deactivated at any time during a project from a selection of more than 1,000 shapes. These shapes cover all major international codes and a wide array of non-standard shapes.

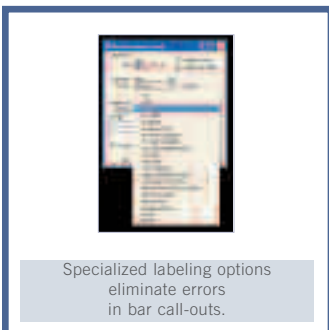


3D Modeling

Bentley Rebar automatically creates and maintains three-dimensional models of reinforcement as 2D views of a structure are established. The creation of rendered perspective views, fly-through movies, and panoramas using MicroStation's visualization tools facilitates the use of 3D models for investigation of reinforcement conflicts.

Powerful Bar Editing

A suite of specialized reinforcement editing routines helps you manage the detailing and scheduling process. For example, options are included to draw bars automatically in full size, to rescale entire details instantaneously, or to insert openings into a group of bar ranges.



Parametric Detailing

Bentley Rebar allows you to re-use your concrete details over and over, minimizing the need for duplication. Dynamic dimensions are a significant part of the parametric tool set. Adding a Prompt to a dynamic dimension allows you to quickly change that dimension from one detail to the next. Dynamic dimensions can also be linked via equations for intelligent resizing of concrete arrangements. Prompts and equations are added to individual bars to automate the changes in your reinforcement.

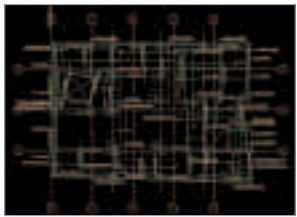
Rebar Object Library

User-definable objects make it easy to create new objects – from scratch or via quick modifications to existing objects. Concrete and reinforcement details are retrieved dynamically from the Rebar Object Library to suit new sizes and orientations. The objects are scheduled automatically as the dynamic dimensions are resized. Objects are useful for automating the detailing of stairways, beams, columns, slabs, walls, piers and footings, retaining walls, and bridges.

BENTLEY REBAR AT-A-GLANCE



Dynamic dimensioning makes quick work of resizing details.



The software updates rebar details as you change concrete arrangements.

Types of Detailing Routines

- Straight and bent multi-legged bars, including ties
- Radiused and circular ties
- Parallel and radial bar ranges
- Flood-fill of bar ranges
- Dynamic bar labeling
- Automatic 3D modeling
- User-defined object library for standard details

Bar Editing Features

- Dynamic dimensioning
- Dynamic reinforcement equations
- Dynamic reinforcement prompts
- Full-size detailing
- Automatic rescaling
- Bar member/layer adjustments

Bar Code Specifications (bar diameter data)

- ACI-318 (USA)
- BS8666:2000 (United Kingdom / Singapore / Hong Kong / South Africa)
- AS3600 (Australia)
- SKBI.89 (Indonesia)
- NZS3101 (New Zealand)
- Swedish Code
- User-definable bar code data
- Supported units: English, metric meters, centimeters, and millimeters

Scheduling Features

- Automatic shape detection, bar mark numbering, and schedule lengths
- Bar mark numbering methods – per drawing, member, layer, diameter, shape, or any combination
- Bar revisions and bar auditing
- Calculation of total bar mass summaries
- Import/export of bar charts from multiple DGN files
- Bar shape standards include: UK, Australia, France, South Africa, Sweden, USA, and numerous US and Canadian state/province transportation agencies
- User-definable bar shape standards

Bar Charting

- User-definable bar chart templates
- Multi-page formatting
- Inclusion of bar shape diagrams and dimensions
- User-defined headers and footers
- Bar chart export to ASCII, CSV/Excel, and manufacturing formats.

BENTLEY REBAR SYSTEM REQUIREMENTS

- Processor: Intel Pentium-based or AMD Athlon-based PC or workstation
- Operating system: Microsoft Windows XP Professional, Microsoft Windows 2000 (SP6 recommended), Microsoft NT (SP6 recommended)
- Memory: 128 MB minimum; 256 MB recommended
- Disk space: 140 MB minimum, 107 MB or more recommended
- Input device: Windows pointing device

ABOUT BENTLEY

Bentley Systems, Incorporated provides software for the lifecycle of the world's infrastructure. The company's comprehensive portfolio for the building, plant, civil, and geospatial vertical markets spans architecture, engineering, construction (AEC) and operations. With 2004 revenues exceeding \$300 million, Bentley is the leading provider of AEC software to the Engineering News-Record Top 500 Design Firms and major owner-operators.

To receive Bentley press releases as they are issued, visit www.bentley.com/bentleywire. For more information, visit www.bentley.com.

Bentley Worldwide Headquarters

Bentley Systems, Incorporated
Exton, PA, USA
+1 800 BENTLEY
+1 610 458 5000

Bentley International Headquarters

Bentley Systems Europe B.V.
JC Hoofddorp
THE NETHERLANDS
+31 23 556 0560

