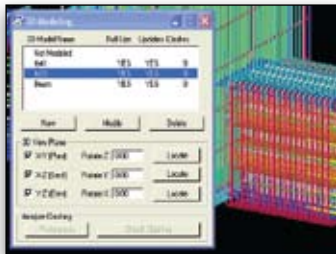




BENTLEY® POWERREBAR™

REINFORCED CONCRETE DETAILING AND SCHEDULING

Bentley PowerRebar is 2D/3D software for reinforced concrete detailing and scheduling. PowerRebar includes PowerDraft; it runs standalone with native DGN and DWG file formats and does not require a separate CAD platform. The software is used for a range of structures: buildings, domes, towers, bridges, dams, industrial structures, and marine structures. PowerRebar ensures accuracy of design, quantities, and plans – regardless of the complexity.



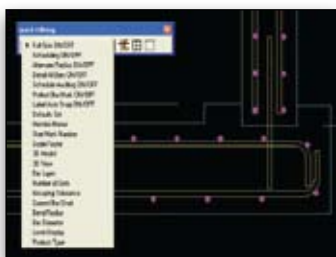
3D model investigation reduces the likelihood of conflicts during construction.



Bar charts are instantaneously updated as details are created/changed.



Reinforcing in plan and section is automatically drawn to code.



Powerful bar editing routines help you independently manage detailing and scheduling.

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, PowerRebar 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 PowerRebar 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. PowerRebar 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

PowerRebar 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

PowerRebar automatically creates and maintains three-dimensional models of reinforcement as 2D views of a structure are established. The 3D models are used in the investigation of reinforcement conflicts. Should a region of conflict be discovered, the 3D models repair themselves automatically as you make the necessary adjustments in the 2D views.

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.

SYSTEM REQUIREMENTS

Processor:

Intel Pentium or AMD AthlonT

Operating System:

Microsoft Windows XP Professional, Microsoft Windows 2000 (SP6 recommended), Microsoft NT (SP6 recommended)

RAM:

128MB minimum, 256MB recommended

Hard Disk:

140MB free disk space
107MB or more recommended

Input Device:

Windows pointing device

ABOUT BENTLEY

Bentley Systems, Incorporated is the global leader dedicated to providing comprehensive software solutions for sustaining infrastructure. Architects, engineers, constructors, and owner-operators are indispensable in improving our world and our quality of life; the company's mission is to improve the performance of their projects and of the assets they design, build, and operate. Bentley sustains the infrastructure professions by helping to leverage information technology, learning, best practices, and global collaboration – and by promoting careers devoted to this crucial work.

For more information, visit
www.bentley.com

BENTLEY OFFICES

Corporate Headquarters

685 Stockton Drive
Exton, PA 19341 USA
1-800-BENTLEY (1-800-236-8539)
Outside the US +1 610-458-5000

Bentley Systems Europe B.V.

Wegalaan 2
2132 JC Hoofddorp
Netherlands
+31 23 556 0560

Bentley Asia

Unit 1402-06, Tower 1,
China Central Place,
No. 81 Jianguo Road,
Beijing, 100025, China
+86 108 518 5220



BENTLEY POWERREBAR AT-A-GLANCE

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)

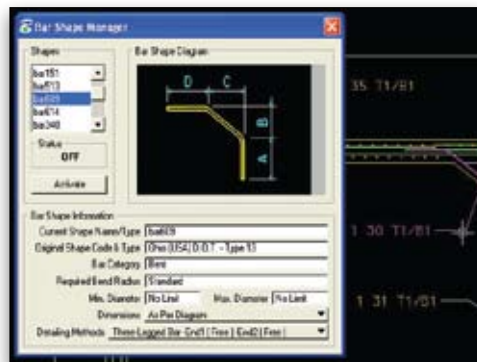
- ACI-318 (USA)
- BS8666:2000 (United Kingdom/ Singapore/ Hong Kong / South Africa)
- AS3600 (Australia)
- SKBI.89 (Indonesia)
- NZS3101 (New Zealand)
- Swedish Code
- User-definable bar code data
- Supported units: English, metric meters, centimeters, and millimeters

Scheduling Features

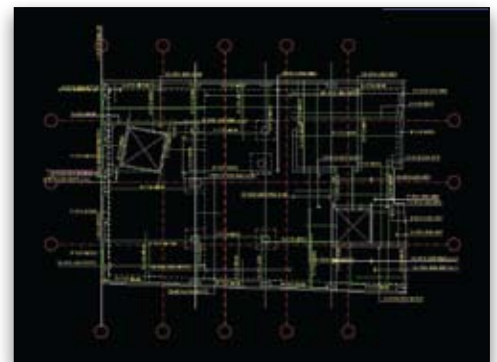
- Automatic shape detection, bar mark numbering, and schedule lengths
- Bar mark numbering methods – per drawing, member, layer, diameter, shape, or any combination
- Bar revisions and bar auditing
- Calculation of total bar mass summaries
- Import/export of bar charts from multiple DGN files
- Bar shape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



Dynamic dimensioning makes quick work of resizing details.



The software updates rebar details as you change concrete arrangements.