

Announcement of the Launch of Simplified Rebar BIM Modeling Software

Okaya & Co., Ltd. is pleased to announce the launch of "Rebar system", a simplified rebar BIM modeling software for Autodesk Revit (*1), developed by RitaX, Inc., a structural engineering firm.

1. Background to the Launch

Until now, creating rebar models in Autodesk Revit has required users to manually input rebar shapes and layouts from scratch. This process has been highly labor-intensive and has relied heavily on the skills and experience of individual operators.

At the same time, the construction industry is facing a growing labor shortage. As Building Information Modeling (BIM) becomes more widely adopted, there is an increasing demand for more efficient rebar modeling and enhanced data integration from design through construction and fabrication.

2. Features of Rebar system

Rebar system simplifies and streamlines the creation of rebar models in Autodesk Revit, a process that has traditionally relied on manual work. The software also supports weight calculation, automatic generation of rebar schedules and bar bending schedules, and conversion to BVBS (*2) fabrication data.

(1) Significantly Simplified Rebar Model Input

Users can quickly and easily create rebar models in Revit by selecting from more than 20 predefined rebar shapes.

(2) Data Output for Fabrication

The software generates rebar schedules and bar bending schedules, converts them into BVBS format, and enables seamless integration with automated rebar fabrication machines.

3. Expected Benefits of implementation

- (1) Improved operational efficiency and reduced man-hour requirements
- (2) More accurate quantity and weight estimation
- (3) Enhanced integration between fabrication and delivery processes
- (4) Implementation of digital transformation (DX) in rebar work

4. Product Outline

Product	Rebar system
Supported Software	Autodesk Revit
Developer	RitaX Co., Ltd.

5. Future Initiatives

In addition to offering Rebar system, Okaya & Co., Ltd., in collaboration with its business partner RitaX, also provides rebar BIM modeling services using the software. Furthermore, the rebar fabrication data generated at construction-ready precision (*3) can be integrated with automated rebar fabrication machines as well as automated assembly robots currently under development. Through this integrated workflow, the Company aims to establish a rebar DX platform.

This enables seamless data integration from design through automated fabrication and automated assembly, significantly improving operational efficiency and productivity while helping address the construction industry's increasingly severe labor shortage.

Notes

- *1 BIM software widely used around the world in the architecture, engineering, and construction (AEC) industries.
- *2 The international standard data format for rebar fabrication data.
- *3 Fabricated rebars produced to the level of precision required for actual on-site assembly.

For Reference

- Exhibition Information

Okaya & Co., Ltd. will exhibit at Construction DX Expo+, where it will demonstrate Rebar system.

Exhibition Period	July 1 (Wed.) – July 3 (Fri.), 2026
Venue	Tokyo Big Sight (Free admission with advance registration)
Booth No.	C4-82

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