



PressRelease

August 25, 2026
Arent Inc.

Arent Launches Official Version of "ASPO," a New Add-in Series Bridging Plant Design and Construction

Incorporating beta feedback with expanded features. Data integration from design to construction reduces piping support fabrication drawing man-hours by up to 83%*

*Based on internal testing



Official Release — Following Beta



"ASPO" — An Add-in Series Bridging Plant Design and Construction

Up to 83% Reduction in Drawing Man-Hours!

*Based on internal testing

Linking support fabrication and spool drawings to reduce verification workload



Arent Inc. (Headquarters: Minato-ku, Tokyo; CEO: Hiroki Kamobayashi; hereinafter "Arent"), a company driving DX in the construction industry, is pleased to announce the official release of "ASPO," an add-in series designed to support operational transformation in the plant design and construction domain.

The series comprises "ASPO Support Fab," a tool for automated generation of piping support fabrication drawings, and "ASPO Spool Manager" (patent pending), a tool for spool drawing generation. Since the end of April 2026, a beta version (Rev. 0A) has been available to a limited number of trial users. Based on feedback from those early adopters, Arent has now expanded and improved its features and functionality for this official release.

■ Key Improvements from the Beta Version

<ASPO Support Fab>

- Added steel supports, expanding the range of supported support types
- Rack steelwork can now be included in drawings
- Improved support grouping functionality
- Dimension output now supported for AutoCAD Plant 3D standard supports as well

<ASPO Spool Manager>

- Improved weld marker visualization
- Error check results can now be exported to file
- Enhanced overall stability
- Weld information output to Autodesk Forma now supported

■ Background: Combining Industry Expertise with Advanced Development Capabilities

Arent has been supporting the digitalization of the plant industry through products such as "PlantStream®," an AI-powered 3D CAD system for automated plant piping design. In addition to developing and providing the "LightningBIM" series of add-ins for Autodesk Revit®, Arent entered into a Solution Provider agreement with Autodesk in March 2025.

By combining deep practical knowledge of the plant industry with advanced Autodesk add-in development experience, Arent has developed the "ASPO" series as a product lineup that streamlines data integration from design to construction in Autodesk AutoCAD Plant 3D — an area that has historically been a technical disconnect.

■ Product Purpose: Eliminating the "Data Disconnect" Between Design and Construction

In plant construction, while digitalization has progressed through the detailed design phase (isometric output), a significant amount of manual data entry into general-purpose CAD and Excel remains in the subsequent construction preparation stage, creating information silos. ASPO aims to eliminate this disconnect and support the establishment of a Single Source of Truth (SSOT).

■ The "ASPO" Series: Two Products

*Use of this product requires an Autodesk AutoCAD Plant 3D environment.

1. ASPO Support Fab (Automated Piping Support Fabrication Drawing Generation)

Automatically generates fabrication drawings from model data in Autodesk AutoCAD Plant 3D.

- **Man-hour Reduction:**
Drawing work that previously required approximately 30 minutes per sheet can be reduced to approximately 5 minutes (approximately 83% reduction*). *Based on internal testing.
- **Cost Benefits:**
Estimated cost savings of approximately ¥1.25 million for small- to mid-sized projects involving approximately 1,000 drawings*. *Based on internal testing.
- **Consistent Quality:**
Contributes to the reduction of human error and minimizes rework by synchronizing with the model during design changes.

▼ Demo Video: ASPO Support Fab Feature Overview

https://youtu.be/LIKo4shZaOE?si=p2OY_okZpG3-fLoU

2. ASPO Spool Manager (Spool Drawing Generation Support / Patent Pending)

Supports semi-automatic spool splitting based on predefined rules and manual editing, enabling smooth integration from 3D models to spool drawing generation.

- **Splitting Proposals:**
Semi-automates spool splitting based on predefined rules.
- **Auto-numbering and Auto-linking:**
Automatically assigns spool numbers and weld numbers. Shop (factory fabrication) / Field (on-site construction) allocation is also automated, and when assignments are changed, related numbers are automatically updated.
- **Visualization and Consistency Checks:**
Visualizes weld locations with weld markers, and helps reduce omissions and errors associated with manual work through automatic entry of weld marks, BOMs, and data consistency checks.
- **Data Integration to the Field:**
Shop/Field classification, spool numbers, and weld numbers set in ASPO can be directly linked to Autodesk Forma Build. Weld progress tracking (not started / completed / inspection passed, etc.), which was previously managed primarily in general-purpose CAD or Excel, can now be managed alongside the 3D model.

▼ Demo Video: ASPO Spool Manager Feature Overview

<https://youtu.be/gkXO1M9tKSQ?si=REN5-D97pLwxHDeb>

■ Feedback from Beta Users

IHI Plant Services Corporation, Engineering Center, Piping & Structure Design Department

【ASPO Support Fab】

With ASPO Support Fab, we confirmed the potential for streamlining design operations by enabling rapid creation of support drawings from Plant 3D models, compared to conventional methods using orthographic views.

We look forward to future enhancements that will enable drawing generation to include not only piping support components such as shoes, clamps, and U-bolts, but also secondary members and the columns, beams, and foundations that support them.

【ASPO Spool Manager】

After trialing the beta version of ASPO Spool Manager, we confirmed that the automatic SHOP/FIELD classification assignment and visual display functions can streamline the verification of weld locations and weld classifications.

This is expected to reduce workload in spool planning and construction review.

Additionally, we found that the automatic numbering of spool and weld numbers, combined with excellent operational responsiveness, enables efficient processing of large volumes of data while also providing the flexibility for designers to make modifications easily — a capability well suited to practical use.

We look forward to future enhancements, including integration with related component information and data integration with Autodesk Forma.

■ Product Lineup and Pricing

*Prices shown are per license, excluding tax.

- **ASPO Support Fab**

Monthly: \$200/ Annual:\$1,600

*A free version with limited features is also available.

Contact: <https://lp.aspo-generator.com/en/support-fab.html>

- **ASPO Spool Manager**

Monthly: \$1,600/ Annual:\$12,000

Contact:<https://lp.aspo-generator.com/en/spool-manager.html>

- **ASPO Product Site**

<https://lp.aspo-generator.com/en/>

■ Event Information

Connected Plant 2026 | Plant 3D x Forma x AI — Practical Data Integration for Plant Projects

An event featuring early adopter case studies will be held.

- **Date:** Friday, August 28, 2026, starting at 14:00
- **Venue:** Belle Salle Onarimon Tower
- **Format:** In-person
- **Admission:** Free, pre-registration required (limited capacity)
- **Organizer:** Autodesk Japan
- **Registration:**
<https://events.autodesk.com/flow/autodesk/plant2026/mainevent/page/home>

■ About Arent Inc.

With the mission of "Democratizing Tacit Knowledge," Arent drives DX in the construction and plant industries. The company operates on two pillars: a "DX Business" that works alongside client companies to solve challenges, and a "Product Business" that develops proprietary SaaS solutions. Through the provision of products such as the "LightningBIM" series of plug-ins for intuitive BIM interaction with Revit, and "PlantStream," an AI-powered 3D CAD system for automated plant piping design co-developed with Chiyoda Corporation, as well as group expansion through M&A, Arent solves structural challenges in the construction and plant industries through technology.

【Company Overview】

- **Company Name:** Arent Inc.
- **Address:** KDX Hamamatsucho Building 3F, 2-7-19 Hamamatsucho, Minato-ku, Tokyo, Japan
- **Representative:** Hiroki Kamobayashi, CEO
- **Founded:** July 2, 2012
- **Capital:** ¥1,286 million
- **Website:** <https://arent.co.jp/en/>

< Press Inquiries >

info@arent3d.com

END