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PRODUCT CATALOG · 2026

AI-Powered Large-Scale 3D Visualization

Real-time visualization of massive 3D datasets,
AI-driven decision support for **industrial operations**.

01

Visualization Solutions

02

Marine Solutions

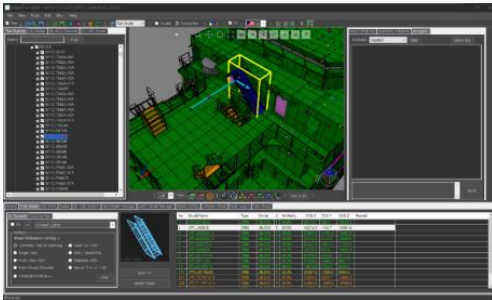
01 Visualization Solutions

Real-time rendering engine for massive 3D datasets, built on Web & PC.

V11

Vega3D X

CAD System Synchronized, Large-Scale 3D Model Visualization

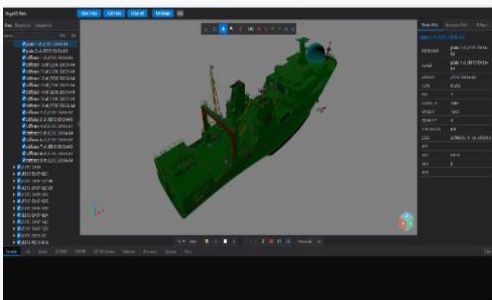


- ★ Real-time rendering of CAD models(PC) ★ Load rev/rvm/glb/etc.
- ★ Measurement / Slicing/ Clipping ★ Import iges/stp/etc.
- ★ 2D Drafting Mode ★ Model & Geometry Attribute
- ★ Model Collide Check ★ Avatar

V12

Vega3D Web

Web-based Large-Scale 3D Model Visualization Collaboration

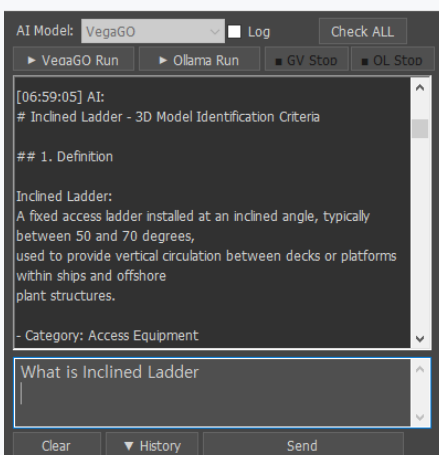


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- ★ Model & Geometry Attribute ★ Avatar
- ★ Model Collide Check ★ Collaboration System

V13

VegaGO

AI AGENT ENGINE



- ★ Local LLM Integration — Private AI, no internet required
- ★ No usage-based cost — flat-rate, on-premise deployment
- ★ RAG System — Shipbuilding & plant engineering knowledge base
- ★ Compatible with Vega3D X & other 3D solutions

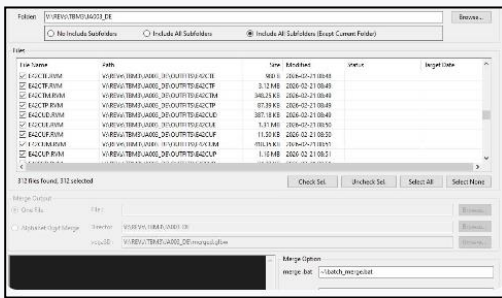
01 Visualization Core

Real-time rendering engine for massive 3D datasets, built on WebGL and WebGPU.

V14

Vega3D Converter

Fast File Format Converter & Merge

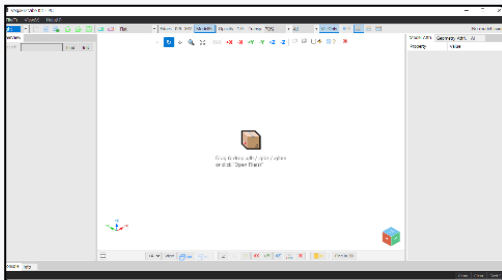


- ★ Folder batch scan — include/exclude subfolders
- ★ Merge Mode — One File or Alphabet Digit grouping
- ★ input formats: rev/rvm/glb/glbn/glbx/etc.
- ★ Output formats: glb/glbn/glbx/etc. ★ Batch Run

V15

Vega3D Vibe Kit

AI SDK · Developer Kit

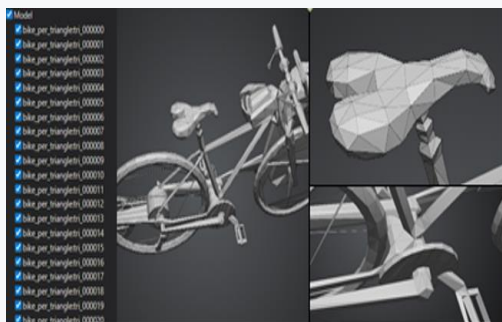


- ★ Any AI, Any Origin — US · Chinese · Free · Paid · Web · PC, all supported
- ★ No dev experience requ.- simple features ~30 min, busi. features ~1 day
- ★ 28+ command unified protocol - single JSON schema for all LLM adapters
- ★ Vibe Coding Support ★ Vibe Kit Template or Embed Kit

V16

Vega3D ScanTo3D

Reality Capture · AI · CAD Automation



- ★ Zero-equip. capture - iPhone / Android / DSLR / Drone, any camera works
- ★ 7-stage AI pipeline : Capture - Reconstruct - Register - Segment - Classify - CAD – Deliver ★ Auto CAD generation
- ★ iPhone LiDAR + photogrammetry fusion - depth accuracy with full texture

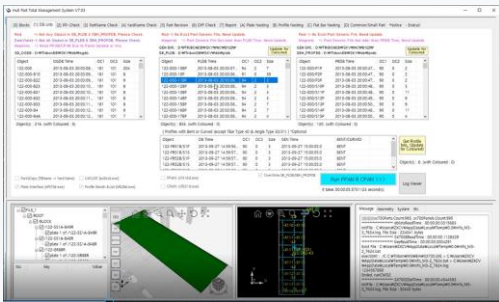
02 (A) Marine Solutions

AI-driven analysis, search and generation across your 3D data.

M11

Hull Part Manager

Fast File Format Converter & Merge

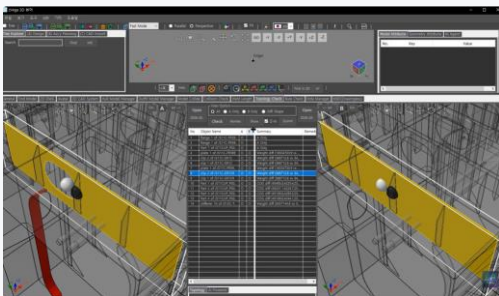


- ★ Real-Time Interface of Hull Block Model(3D CAD Sytem)
- ★ Summary Tables for Nesting(Plate/Profile/F-Bar) Systems
- ★ Production Split Check ★ Report BOM (Ass'y & Cutting)
- ★ Support PPAN/CPAN ★ Include Part Revision Check

M12

3D Model Revision Check

Comparison of the model's geometric accuracy and topological integrity

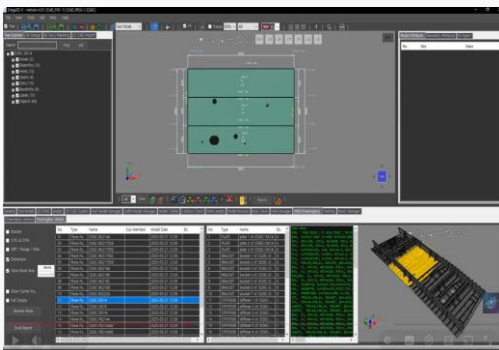


- ★ Name Normalization ★ Geometry & Topology
- ★ Based Comparison -Large Model Loading ★ Dual Viewport Sync.
- ★ See-Through Highlight ★ Unified Viewport Config

M13

Drawingless (MBD)

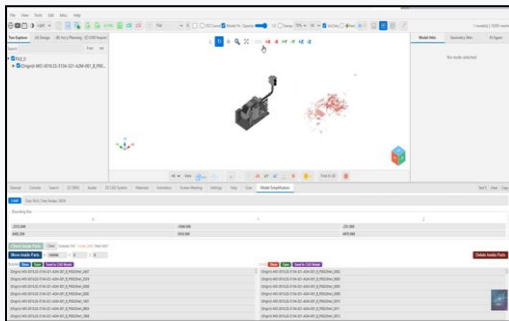
Real-Time Drawingless Solution



- ★ Automatically interpret plate geometry and dimension.
- ★ Fast and efficient hull part generation and verification.
- ★ Bevel shape visualized directly on 3D hull parts.
- ★ Outfit Model such as pipe spools can also be applied.

02 (B) Marine Solutions

AI-driven analysis, search and generation across your 3D data.

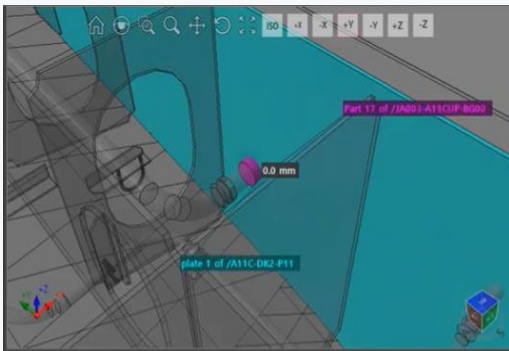


M11

Lightning Model

Fast Lightning 3D Model Shape & File Size

- ★ Convert STEP/IGES files into lightweight models, then further optimize by separating them into Exterior and Interior models.
- ★ Supports output in various formats including .STEP/.IGES and .GLB, and can also generate CAD models directly for platforms such as AVEVA.
- ★ Easily reduce model data while maintaining visual quality.

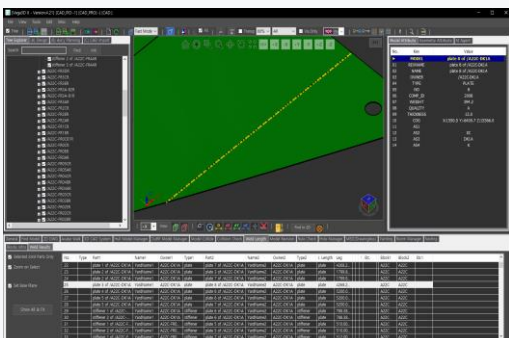


M12

Hole Manager

Automated hole management system

- ★ Automated Interference Detection
- ★ Standardized Hole Dimensioning
- ★ Dynamic Hole Management (Hole Plan)
- ★ Automatic Drawing & Report



M13

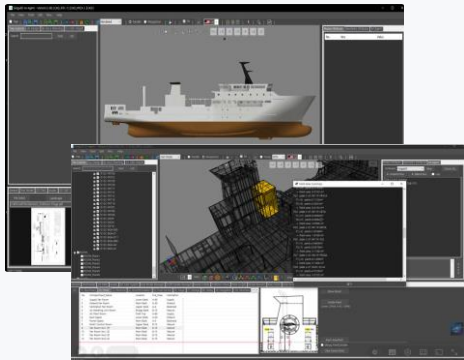
Weld Length

Generation of welding information between Hull Moels

- ★ Stage calc. function utilizing Ass'y Tree and Block mounting schedule
- ★ Welding position calculation function utilizing Assembly Base and PE Base
- ★ Joint Length / NWR / Field Work Volume calc. function between blocks
- ★ Bevel calculation function utilizing Bevel Code
- ★ Report function

02 (C) Marine Solutions

AI-driven analysis, search and generation across your 3D data.

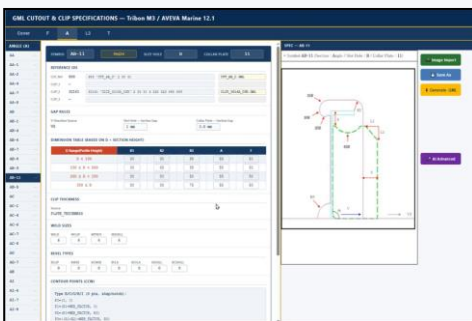


M14

Paint Area

Fast File Format Converter & Merge

- ★ Automatically identifies paint-area from the 3D ship model.
- ★ Fast and accurate analysis even for large-scale ship and plant models.
- ★ Enhances painting management and production preparation.
- ★ Improves accuracy in material estimation while reducing manual calc. time.
- ★ Filtering opti. allow external/internal selection, hole removal, and more.

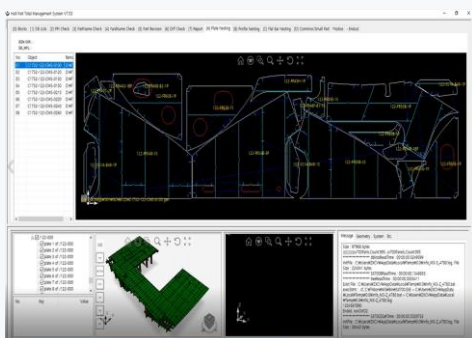


M15

GML Generation

Fast File Format Converter & Merge

- ★ AI Agent auto. generates GML programs for Slot Holes and Collar Plates.
- ★ Based on AVEVA Marine / TRIBON production design rules.
- ★ Instantly interprets cut-out specs and creates accurate geometry.
- ★ Easily add new types; Bevel & Weld info can be extended with AI.



M16

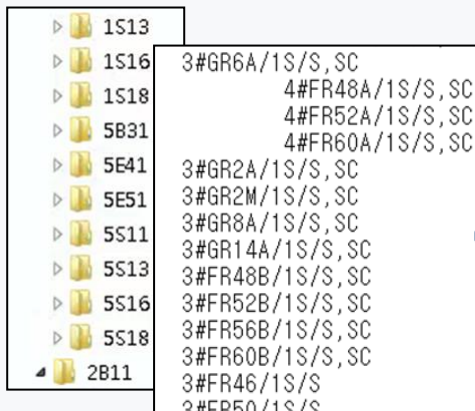
Nesting Solution

Fast File Format Converter & Merge

- ★ Plate / Profile / F-Bar Nesting
- ★ Support Pre-Nest also
- ★ Interface/Export to CAD System(Tribon M3 / Aveva Marine 12).
- ★ Report

02 (D) Marine Solutions

AI-driven analysis, search and generation across your 3D data.



M17

Ass'y Plan'g Tree Auto.

Linking real-time configuration and 3D visualization of the mounting and assembly tree

- ★ Support for **automatic configuration** of Assembly Planning items based on model naming schemes or model attribute information
- ★ Real-time update management of hundreds of thousands of components within a construction project using a single tree system
- ★ Performing system automation using Windows Task Scheduler
- ★ Utilizing accurate models for each stage in the field applic. of CAD modeling

Coming Soon!!!

M18

More Solutions

Solutions for improving work efficiency in production sites

- ★ Block & Erection Accuracy Control System
- ★ Block Support Arrangement System
- ★ Block Arrangement Information Generation System
- ★ Lifting Lug Design Support System

* Request a Demo

Vega3D is an AI-powered visualization platform for massive 3D datasets.
We support tailored demos and proofs-of-concept for your environment.



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WeChat QR — 扫一扫添加好友



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PLATFORM

Web

Windows Desktop (PC)

On-Premise

Cloud