



January 2026

Humara Design

Engineering the future of waste recovery:
smarter plants, faster decisions.



Humara Design® is the first SaaS platform built to digitalize and optimize the entire engineering process for waste treatment plant design.

Designing waste management plants today is still a highly inefficient, manual, and error-prone process — dominated by spreadsheets, repetitive calculations, and disconnected software tools. Engineering teams waste weeks on tasks that should be automated, slowing decisions and impacting proposal quality.

Humara Design solves this.

Through intelligent simulations tailored to each waste characterization, it enables advanced modeling, dimensioning, and real-time optimization.

**Engineered by experts,
for engineers.**

Create your ideal layout manually or let our AI-powered autolayout algorithm generate the optimal plant design in minutes.

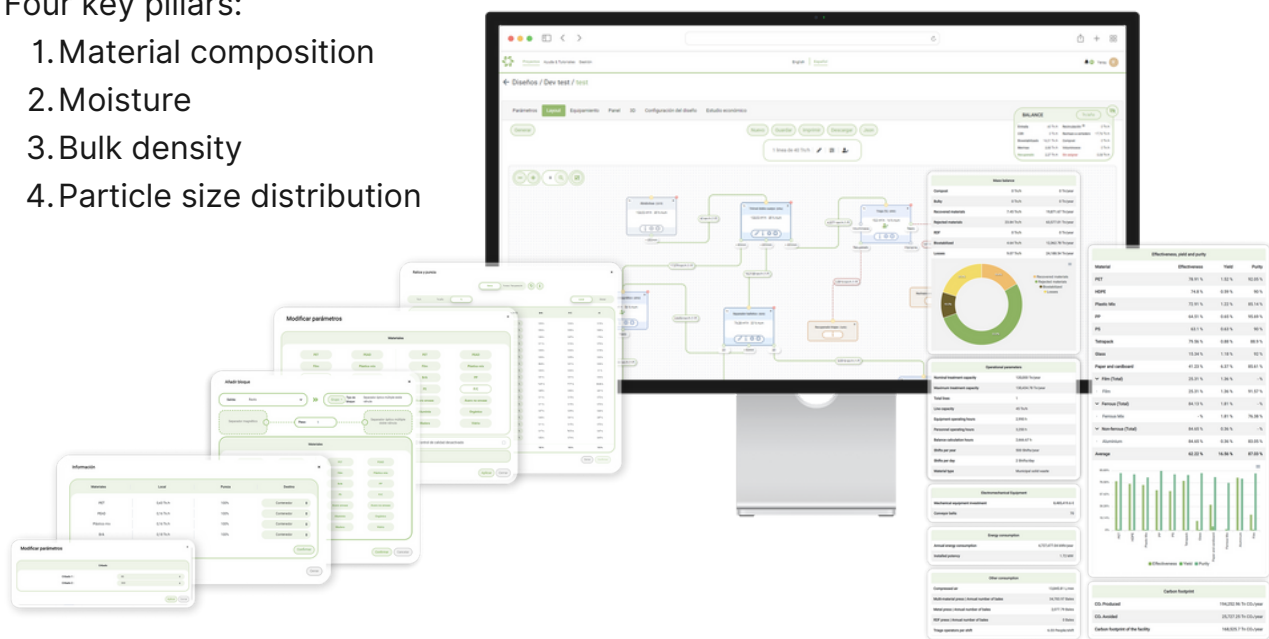


Design Module

The core of Humara Design — an advanced engineering tool to simulate, size, and optimize material recovery plants in real time.

Four key pillars:

1. Material composition
2. Moisture
3. Bulk density
4. Particle size distribution



What sets us apart:

- Pre-loaded equipment data and validated performance curves — zero manual inputs.
- Smart copilot: dynamic suggestions, with full user control.
- Multi-scenario design: from new plants to existing upgrades.

Key features:

- Infinite canvas with real-time flow updates.
- 82-material behavior library for accurate sizing.
- Immediate impact modeling: global updates with one input.
- Intelligent alerts and guidance at every step.
- Scenario comparison tool for fast, informed decisions.
- Auto-generated deliverables: dashboards, equipment lists, and Excel exports with CAPEX & engineering ratios.

Economic Module & Global Databases

An expert tool for building and analyzing financial scenarios for waste treatment plants — with instant results.

Over 80% of projects never reach the commercial phase, leading to wasted engineering hours and sunk costs. Our economic module lets you assess feasibility and risk in minutes.

Key features:

- **Global Databases:** Economic data from 136+ countries (CPI, energy, labor costs, material prices).
- **330+ editable variables:** Fully linked to the design module for instant scenario generation.
- **Smart first approach:** Automatic baseline scenario, with full control to fine-tune IRR, fees, and CAPEX assumptions.
- **Dynamic reporting:** Visual dashboards with NPV, IRR, Payback, and EBITDA.
- **Excel export:** Download detailed studies ready for further analysis or tender submission.

Built for quick iteration and confident decision-making.



AI-powered Autolayout with 3D modeling

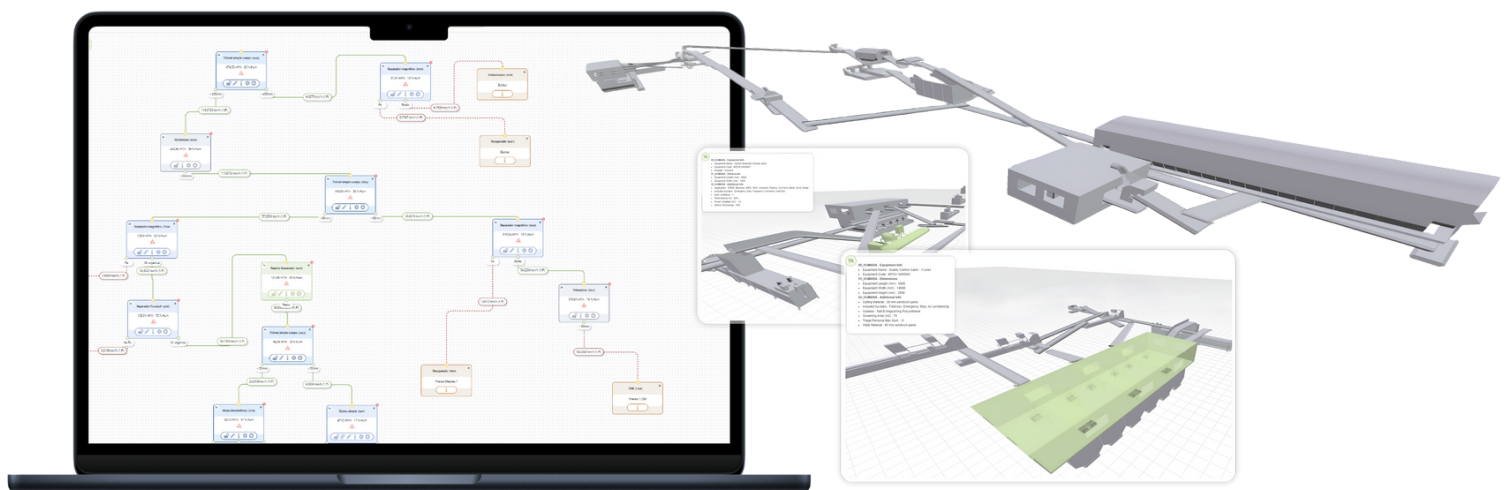
The first automatic design tool for waste treatment plants with built-in BIM compatibility.

From user input to 3D plant layouts in minutes, using an AI-driven algorithm that selects the best scenario from over 22,500 configurations.

Key features:

- **AI-driven selection engine:** Instantly generate optimized layouts based on key parameters (automation level, OPEX, CAPEX, footprint).
- **150+ equipment families:** Complete capacity ranges with automatic spatial positioning.
- **3D BIM export:** Immediate IFC output for seamless integration with engineering workflows.
- **Editable designs:** Both the flow diagram and the 3D layout can be fully adjusted by the user.
- **Scoring system:** Prioritize design factors (performance, investment, operating costs) with a simple 100-point allocation interface.
- **3D viewer:** Visualize equipment specifications, conveyor dimensions, and plant surface area with precision.

Result: Optimal layouts delivered in minutes, ready for engineering, tenders, and BIM coordination.



Internal Databases Integration

Your data. Your specs. Fully integrated.

A major leap forward: Humara Design is now fully tech-agnostic. You can integrate your internal equipment and parameter databases directly into the platform — unlocking maximum flexibility and precision.

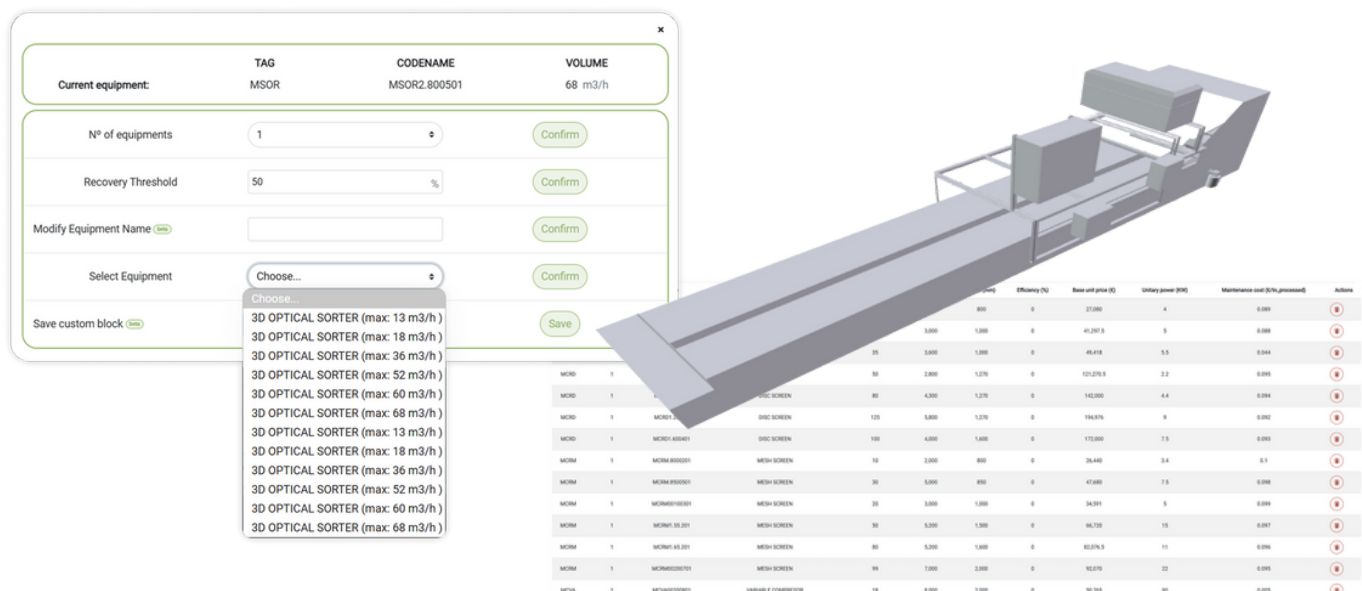
Why this matters:

- **Direct integration:** Connect your internal data with no manual input.
- **Hybrid modeling:** Combine private and Humara databases for tailored results.
- **Machinery-level customization:** full control to design and integrate proprietary equipment databases.
- **Zero manual work:** Eliminate repetitive tasks and reduce errors.
- **Optimized outputs:** Designs aligned with your real specs and operational data.

This is a game changer for:

- **Integrators**, who can now build fully customized models at scale.
- **Operators**, adapting designs to existing plants with greater accuracy and confidence.

Build smarter. Faster. On your terms.



The screenshot displays the Humara Design software interface. On the left, a configuration panel for 'Current equipment' shows fields for TAG (MSOR), CODENAME (MSOR2.800501), and VOLUME (68 m3/h). Below these are input fields for 'N° of equipments' (1), 'Recovery Threshold' (50%), and 'Select Equipment' (with a dropdown menu showing various 3D Optical Sorter models). A 'Save' button is at the bottom of the panel. To the right, a 3D perspective view of a sorting system is shown, with a table of equipment specifications overlaid. The table includes columns for equipment name, volume, efficiency, base unit price, unitary power, maintenance cost, and an action icon.

Equipment	Volume (m3/h)	Efficiency (%)	Base unit price (€)	Unitary power (kW)	Maintenance cost (€/h processed)	Action
3D OPTICAL SORTER (max: 13 m3/h)	13	90	27,000	4	0.085	ⓘ
3D OPTICAL SORTER (max: 18 m3/h)	18	90	41,250	5	0.086	ⓘ
3D OPTICAL SORTER (max: 36 m3/h)	36	90	82,500	10	0.084	ⓘ
3D OPTICAL SORTER (max: 52 m3/h)	52	90	123,750	15	0.085	ⓘ
3D OPTICAL SORTER (max: 60 m3/h)	60	90	146,250	18	0.084	ⓘ
3D OPTICAL SORTER (max: 68 m3/h)	68	90	165,000	20	0.082	ⓘ
3D OPTICAL SORTER (max: 13 m3/h)	13	90	27,000	4	0.085	ⓘ
3D OPTICAL SORTER (max: 36 m3/h)	36	90	82,500	10	0.084	ⓘ
3D OPTICAL SORTER (max: 52 m3/h)	52	90	123,750	15	0.085	ⓘ
3D OPTICAL SORTER (max: 60 m3/h)	60	90	146,250	18	0.084	ⓘ
3D OPTICAL SORTER (max: 68 m3/h)	68	90	165,000	20	0.082	ⓘ
VARIABLE COMPRESSOR	18	90	90,750	10	0.085	ⓘ

We are building the **global standard for waste plant design and operation** — accelerating engineering and enabling confident, data-driven decisions worldwide.

Beyond our core platform, we deliver tailored integrations for complex operational environments:

- **Ad hoc scenario modeling:** Custom solutions for unique project needs and specific waste streams.
- **Operations Mode:** Dedicated environments for real-time plant monitoring, massive data integration, and advanced documentation management.
- **SCADA connectivity:** Integrating digital twins with plant control systems to enable predictive operations and smarter daily management.

Our vision: to deliver the most robust and adaptive data environment in the industry — connecting design and operations teams through a living, constantly updated knowledge base.

No time to waste.

Trusted by the industry's top players for their most complex challenges.



Our team brings **+32 years of international experience** designing, building, and optimizing some of the most advanced waste treatment plants in Europe.

Humara Design is trusted by industry leaders across Europe and LATAM to accelerate engineering, reduce costs, and maximize plant performance.

MBT plants designed
internationally 2025

+231

Engineering hours
reallocated for our clients

+162,086

Engineering
cost reduction

+70%

What our clients say:

"We've been using Humara Design for three years, and it's transformed our bid process. We respond to RFPs faster, our technical team can handle more opportunities simultaneously, and we present clients with validated scenarios they trust. It's shortened our sales cycle and increased our win rate on technical proposals. The platform has become essential to how we compete." — **José María Navarro, Commercial Director – Leblan**

"Humara Design has supported us from optimized project design to enhanced plant operations, anticipating potential operational failures through advanced scenario simulations. We've reached a point of no return—technology adoption is urgent and essential."

— **Marcus Kron, Processing & Sorting Plant Specialist at PreZero International**

Subscription Plans: Flexible plans for every engineering team.

Each team has specific needs, so we adapt the workspace to the number of projects, data volume, and users. A support fee may apply for larger teams to guarantee consistent service quality.

For organizations with special security, access, or workflow requirements, our team can configure these into your workspace. Custom developments are scoped separately to ensure the setup matches how your engineers actually work.

	ESSENTIAL	ENTERPRISE
Number of projects and designs	Unlimited	Unlimited
# Users	Unlimited. A support fee may apply depending on team size.	Unlimited. A support fee may apply depending on team size.
Downloadable documentation	English, Spanish	English, Spanish
Support	Email	Priority + Dedicated Customer Success Mgr.
Onboarding	1 dedicated session	1 dedicated session + Customer Success Mgr.
Computation	Shared infrastructure	Dedicated infrastructure
Modules	Modules • Design Module • Economic Module with Global Databases • Autolayout	Modules • Design Module • Economic Module with Global Databases • Autolayout • Internal Databases
Knowledge base	• User Manual • Hypothesis Manual	• User Manual • Hypothesis Manual
Beta access to new features	NO	YES
Pricing: Let's talk. We'll prepare a personalized offer tailored to your usage and project scope.		

FAQ - What others usually ask

Can we switch plans later?

Yes. You can upgrade your plan at any point during the subscription.

Is onboarding included?

Yes. All plans include a dedicated onboarding session. The Enterprise plan also includes a dedicated Customer Success Manager.

What kind of support is available?

All plans include technical support by email. The Enterprise plan adds priority access and a dedicated Customer Success Manager.

What happens after the first year?

The subscription renews annually. We notify you 30 days before renewal and can adjust your plan based on your evolving needs.

Getting Started - What happens after you say yes

Step 1: Account Activation

We'll set up your Humara Design account and admin access within 48 hours.

Step 2: Onboarding Session

A dedicated session with your team to configure workflows, explain modules, and kick off your first project.

Step 3: Start Designing

Begin designing, simulating, and iterating projects immediately — with support ready whenever needed.

Step 4: Continuous Support & Upgrades

Our team stays in touch to support your work, answer questions, and help you get the most from Humara Design. You'll also receive updates and access to new features as they're released.

no time to waste



Find more information at: humara.tech

Contact: hello@humara.tech

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