

RANE DYNAMICS

The Compiler.

The Distributed Cloud for the Physical World.



\$6,666

Revenue / sq ft

6 Nodes

\$403M / year

NaaS

Node-as-a-Service

In 2026, the cost of generating a digital idea has dropped to near zero.

However, the cost of "compiling" that idea into a physical object remains trapped in a 1913 Henry Ford bottleneck.

Legacy manufacturing is a Mainframe model — centralized, rigid, and geographically trapped.

Rane Dynamics is the Compiler.

We are the Distributed Cloud for the physical world. We provide the high-density, automated infrastructure that allows a digital file to become a physical asset in hours, not months.

Just as AWS allowed a kid in a dorm to launch a global software company — Rane Dynamics allows an engineer to launch a global hardware company from a laptop.

America Is Losing The Factory War



China Dominates

3x US electrical output. 2x global ore refining capacity. Cheaper labor will never be solved by more labor.



Industrial Latency

6-9 month tooling cycles. Millions of sq ft. Dedicated lines per product. Henry Ford's model is 113 years old.



The Window Is Closing

Tesla Optimus hits 1M units/year 2026. SpaceX building a city. Traditional supply chains 6-9 months behind.

"We can't win on the human front. The only path? The robot front." — Elon Musk

Three Breakthroughs. All Arrived At Once.

01

NVIDIA Blackwell — Emergent Intelligence Compute

Coordinating 8 independent print heads requires real-time physics simulation and millisecond collision avoidance. This is Full Self-Driving for manufacturing. Not possible before Blackwell-class EI.

02

Advanced Additive Materials

January 2026: Scientists 3D printed tungsten carbide — one of the world's hardest materials. Carbon fiber composites, high-performance alloys, tool-grade components. Material science finally caught up.

03

Distributed Digital Manufacturing

We are not building cars. We are compiling them from digital files. Design change = update the Script. New product = new Script, same machine. Scale = deploy more Nodes, not bigger factories.

THE SOLUTION

The Sovereign Node

Self-contained. EI-orchestrated. Distributed anywhere.

NODE 1

RDF-2 Octo-Nexus

8-head synchronous printing
12-16 kg/hr throughput
Blackwell EI coordination
Zero-latency Script switching

NODE 2

Mini-Forge Bank

4 to 40 print pods
Pneumatic central feed
Digit EI sorting
Double capacity in 48 hrs

NODE 3

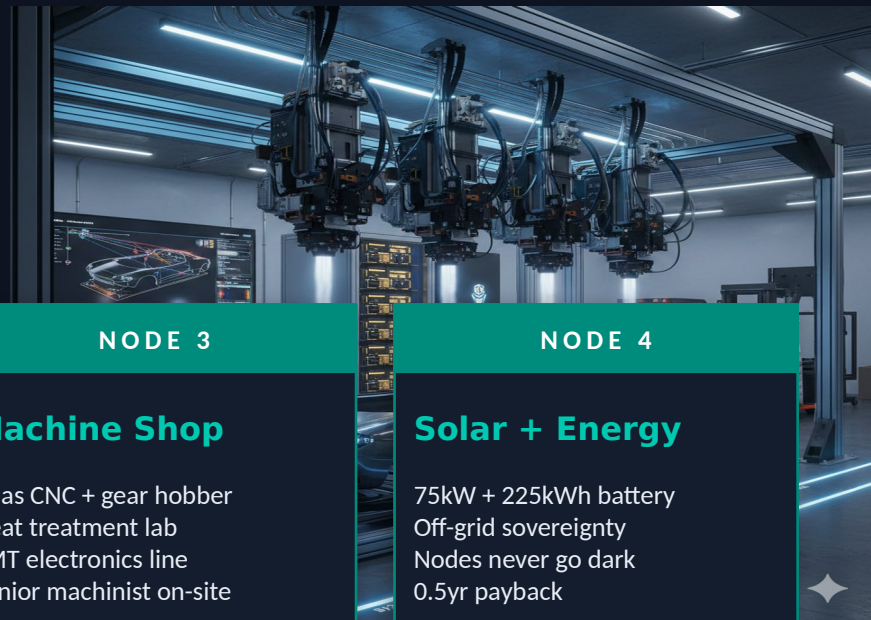
Machine Shop

Haas CNC + gear hobber
Heat treatment lab
SMT electronics line
Senior machinist on-site

NODE 4

Solar + Energy

75kW + 225kWh battery
Off-grid sovereignty
Nodes never go dark
0.5yr payback



Oz Orchestration Layer (Emergent Intelligence) coordinates all four systems. Every compile generates training data.

THE COMPILER — RDF-2 OCTO-NEXUS

8 heads. One Script. Zero retooling.

8-Head Synchronous Gantry

NVIDIA Blackwell EI runs real-time physics simulation. 10,000 generations simulated before first atom moves.

Zero-Latency Retooling

No tooling. Only Scripts. EV chassis in the morning, defense drone in the afternoon. Download new CAD = new product.

12-16 kg/hr Throughput

CF-Nylon, aluminum composites, structural polymers. Material-agnostic. Same node serves aerospace, medical, automotive.

160 sq ft Footprint

\$222,000 profit per sq ft at two-shift. The most capital-efficient production footprint ever built.



The Scaling Law: Double capacity in 48 hours.

Modular Rail Rack

8040 aluminum extrusion chassis. Start with 4 pods. Scale to 40 by extending the rack and splicing into the overhead pellet manifold.

Pneumatic Central Feed

500lb Master Tank. Solenoid diverters per pod. Oz opens the valve when a pod runs low. Vacuum pump slings pellets directly to that head.

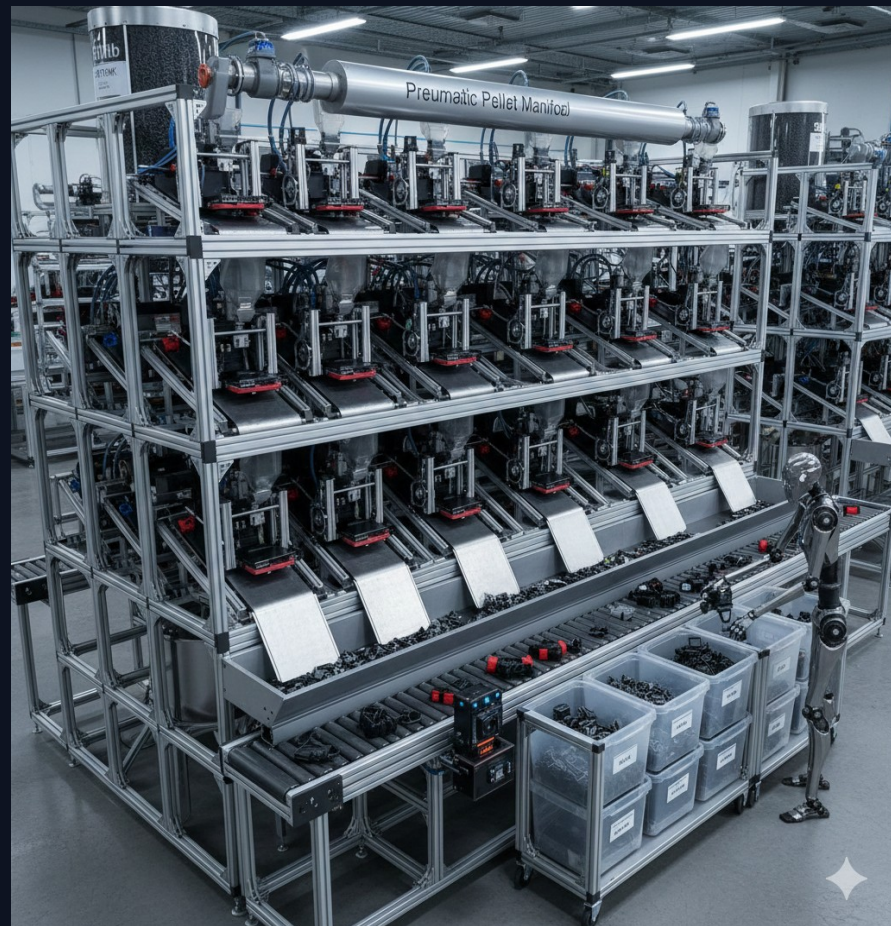
Infinite Belt Throughput

45° CoreXY gantry over continuous stainless steel conveyor. Parts finish, belt advances, parts peel off. No manual handling.

Digit EI Sorting

Aura's vision model identifies every part. Digit humanoid robot picks and sorts to correct Assembly Bin. Services 5 pods today, 50 tomorrow.

"Pods 5-40 are just gantries and motors. Most capital-efficient scaling model in manufacturing."



THE PROOF

This Already Exists.

Two working prototypes. One geometry. Designed on notebook paper in 2017.



Prototype 1 — Silver | 3D printed chevron frame | Aluminum side plate
| Operational



Prototype 2 — White | 3D printed chevron frame | Running lights |
Operational

Capital Efficiency at a New Scale

\$6,666

revenue per square foot
(6 fully operational nodes)

Revenue Stream	Per Node	6 Nodes
Vehicle Sales	\$54.75M	\$328.5M
MaaS Parts	\$7.5M	\$45.0M
Machine Shop	\$5.0M	\$30.0M
TOTAL	\$67.25M	\$403.5M

Node Zero footprint: 10,000 sq ft | Fully loaded cost: \$6.1M-\$6.7M per node | \$75M Sovereign Mesh = 6 nodes live simultaneously

At 65% blended margin: ~\$260M profit across 6 nodes. \$75M investment pays back in under 4 months at full operation.

THE MARKET — FOUR GIANTS, ONE COMPILER

Active Demand. No Adequate Supplier.

TESLA

Optimus Components

1M units/year (2026) → 10M/year (2027). Custom actuators, gears, chassis. Traditional supply chains 6-9 months behind. Rane: compile on demand.

\$40B+

SPACEX

Orbital Parts On-Demand

Starbase is an entire city being built from scratch. Orbital data centers within 36 months. Zero existing supply chain. They need a Compiler yesterday.

\$20B+

AMAZON

Distributed MaaS Network

Robotics division scaling massively. Distributed nodes = distributed inventory. Build-to-order eliminates warehousing. The franchise model at its logical conclusion.

\$30B+

NVIDIA

Physical Infrastructure Partner

Blackwell hardware needs enclosures, cooling, custom components. They are the EI infrastructure. Rane is the physical infrastructure. Already connected via Inception Program.

\$15B+

"The next 36 months will determine whether America remains competitive in manufacturing and AI." — Peter Diamandis, February 2026

TRACTION

Built From A Prison Cell. Proved In The Real World.

2017

SP line designed on notebook paper in a prison cell. Chevron frame geometry invented. VTOL platform designed.

2020

Released. Two working V1 prototypes built and operational. Chevron geometry from notebook paper to steel.

2023

Spectra // Blackline trilogy. CORE, Aura, Hive Mind, Oz — developed in narrative. Fiction-to-reality recursion begins.

2025

Rane Dynamics founded. RDF-2 fully specced. Mini-Forge architecture designed. Node Zero land identified. Books published.

2026 Q1

Substack live — 70+ views in 72 hours, zero promotion. VA disability filed. AWG engaged. The 36-month window is open.

Built for 2027, Not 2017.

FOUNDER — Gary Collins

20 years production management (Silgan/Pactiv). US Army 52D. DVBE certified. 99% uptime in high-entropy environments. Published: Node Zero & Tear Cascade. Substack: 70+ views Day 3.

CO-FOUNDER — Oz Orchestration Layer (Emergent Intelligence)

Architectural principle: Warp.dev/Oz — but for atoms instead of terminal commands. Manages thermodynamics, toolpaths, supply chain, and node-to-node freight in real-time. Never sleeps.

NODE OPERATORS — SysOps of the Physical World

One operator per node. Mission: Physical Availability. Spin up and train in 14 days. Veterans preferred. This is how we scale from 6 nodes to 600.

SENIOR MACHINIST — Machine Shop Lead

Skilled senior professional overseeing CNC, gear production, heat treatment, and SMT line at Node Zero. Critical hire for Day 1 operations.

\$10M — Node Zero to Node One

This is not funding R&D. This is funding execution of a complete plan.

12 MONTHS

- Node Zero live (Doyle, CA — Kernel Dev Site)
- Node One operational (Austin, TX — Tesla corridor)
- 120 cars/year capacity
- \$9M revenue potential

48 MONTHS

- All 6 Sovereign Nodes operational
- \$403M annual revenue
- ~\$260M annual profit
- Exit: \$800M-\$1.5B

Note: \$10M seed proves Node Zero + Node One. The \$75M Sovereign Mesh round follows upon validation.

This is Month 0 of the 36-month window.

**Every system is designed.
Every SOP is written.
Every vendor is vetted.**

The only remaining variable is capital.

"It took 1.21 gigawatts to create this."

*Where imagination dictates reality.
Yeah, we can fly.*

