

ROBOFIX: Autonomous Industrial Reliability

ROBOFIX revolutionizes equipment maintenance with AI-powered, self-healing technology that guarantees continuous uptime and operational efficiency.

 by Shyam Kumar Revalla





The Problem: Costly Downtime

1

Costly Downtime

Industrial equipment failure leads to an estimated \$50 billion in annual losses globally.

2

Reactive Maintenance

Most industries rely on reactive or scheduled maintenance, which is inefficient, costly, and often too late.

3

Unpredictable Failures

Despite advancements, industries still lack predictive, proactive solutions to prevent equipment breakdowns entirely.

4

Labor-Intensive Repairs

Manual repair processes are slow, error-prone, and expensive, causing delays and inefficiencies.

The Solution: ROBOFIX

AI-Powered Self-Healing Machines

ROBOFIX is an AI and IoT-based system that detects faults before they occur, recommends precise repairs, and automates the repair process when possible.

Predictive Maintenance

ROBOFIX anticipates equipment failures and proactively schedules interventions.

Remote Monitoring & Control

Technicians can oversee and intervene in the repair process in real-time.

Usage-Based Pricing

Customers only pay for operational uptime and self-repair services.



Benefits of ROBOFIX

Zero Downtime Operations

ROBOFIX ensures uninterrupted operations by detecting faults early and automating repairs.

Cost Savings

ROBOFIX significantly reduces the need for manual intervention, labor costs, and unplanned equipment repairs.

Optimized Maintenance Schedules

ROBOFIX leverages AI to create predictive maintenance that prevents failures before they disrupt operations.

Assumptions & Validation Roadmap

1

Concierge MVP (Q1)

Manual self-repair service for a small set of pilot customers to validate fault detection, recommendations, and pricing model.

2

Pilot Feedback (Q2)

Gather data on system effectiveness, customer satisfaction, and pain points.

3

Wizard of Oz MVP (Q3)

Simulate automated repairs to further test customer reactions without full AI functionality.

4

Full Prototype (Q4)

Develop a fully autonomous system, integrating predictive maintenance and self-repair capabilities based on customer feedback.

FIX
REPAIR SOLUTIONS





What Makes ROBOFIX Special

1 AI-Driven Predictive and Self-Healing Technology

ROBOFIX doesn't just predict failures, it enables machines to autonomously correct them.

2 Scalable Across Verticals

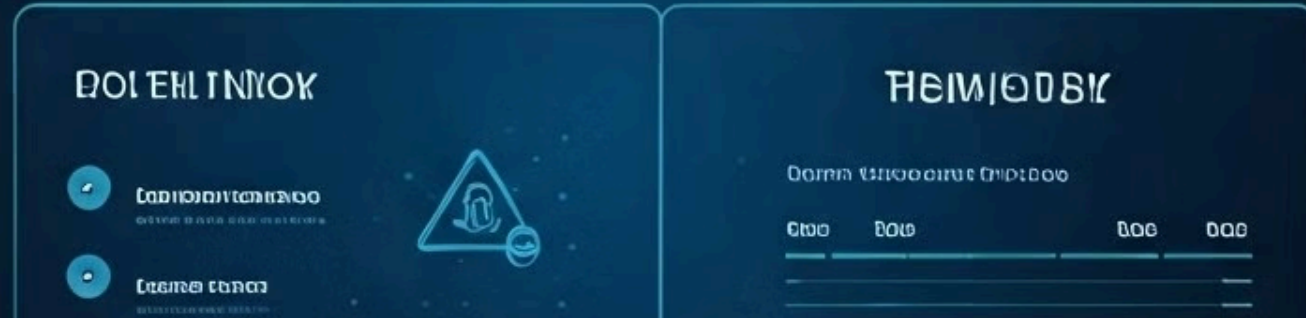
ROBOFIX adapts to diverse industries with complex maintenance needs, from manufacturing to energy and healthcare.

3 Data-Backed Repairs

ROBOFIX's machine learning algorithms evolve with every repair, continuously improving fault detection and repair precision.

4 First-Mover Advantage

While predictive maintenance exists, no solution currently offers self-healing capabilities at scale.



Business Model

| | |
|---|--|
| Usage-Based Pricing Model | Customers pay for equipment uptime and services consumed. |
| Charge per hour of uptime + self-repair event | Subscription model for predictive maintenance insights and real-time monitoring. |
| Tiered Service Levels | Basic Tier: Fault detection and predictive maintenance insights. Premium Tier: Full autonomous self-repair capabilities with 24/7 remote monitoring. |

Market Opportunity

1

Global Predictive Maintenance Market Size

Valued at \$5.2 billion in 2020, projected to reach \$23.5 billion by 2027, growing at a CAGR of 27%+.

2

Target Verticals

Manufacturing, Energy, Healthcare.

3

Total Addressable Market (TAM)

\$40+ billion across key verticals including manufacturing, energy, and logistics.

