

VIBit IQ

HEAR FAILURE BEFORE IT HAPPENS



WHAT IS VIBIT IQ

VIBit IQ is a machine fault detection and diagnosis platform from MachineAstro. It turns sensor data into plain language fault alerts, fault type, severity and the fix, so your team acts fast, not just reacts.

Unlike rule based systems, every alert explains what's wrong, how bad it is and what to do next. No black box. No guesswork.

WORKS WITH 24+ SENSOR BRANDS VIA

Modbus

MQTT

OPC-UA

RS-485

Vibration · Temperature · Current

Voltage · Pressure · Flow

No rip and replace. No new hardware. No vendor lock-in.

HOW IT WORKS

01



CONNECT

Plug into your existing sensors

Connects to vibration, temperature, current, voltage, pressure and flow sensors over Modbus, OPC-UA, MQTT or RS-485. Works with the hardware you already have.

02



ANALYSE

AI runs fully on site

Edge AI/ML models run on premise inside your OT network. Every asset on a single unified dashboard. Zero data leaves your facility.

03

ACT

Alerts tell you exactly what to do

Every alert includes the parameter, deviation, severity threshold and a prescribed corrective action. No interpretation needed just the next step.

99.9%

Accuracy validated
across 8,000+ assets

Zero

False alerts - every
alert ties to a
confirmed fault

120+

Manufacturers
served in 4 years

6,000+

Downtime hours
saved across sites

“

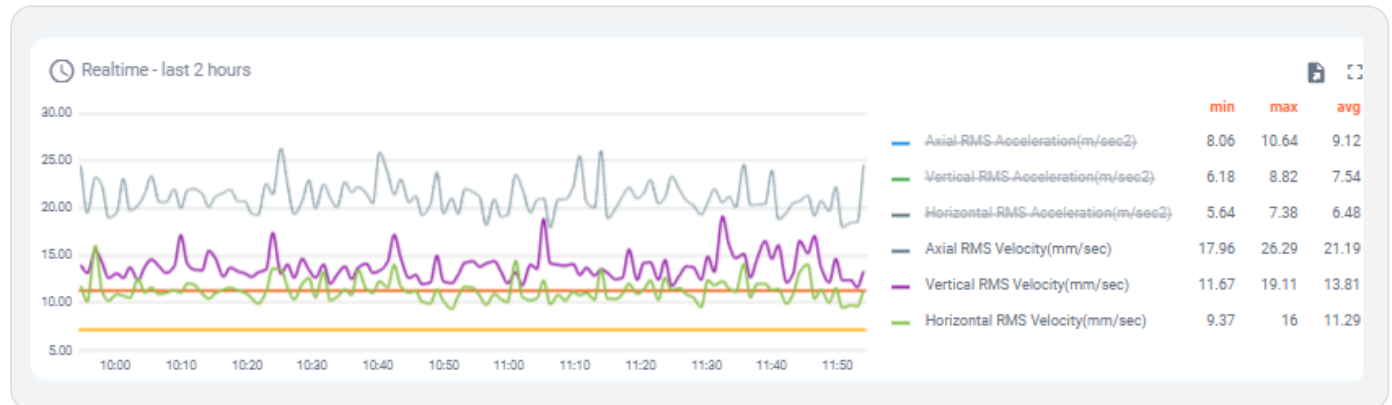
With MachineAstro at our plant, we detected faults early and took corrective actions before major breakdowns occurred. We've seen unplanned downtime fall by up to 30%, with better machine health visibility and faster fault response across the board.

PLANT RELIABILITY LEAD · CEMENT MANUFACTURING, INDORE, INDIA

A GUIDED TOUR OF THE WORKSPACE

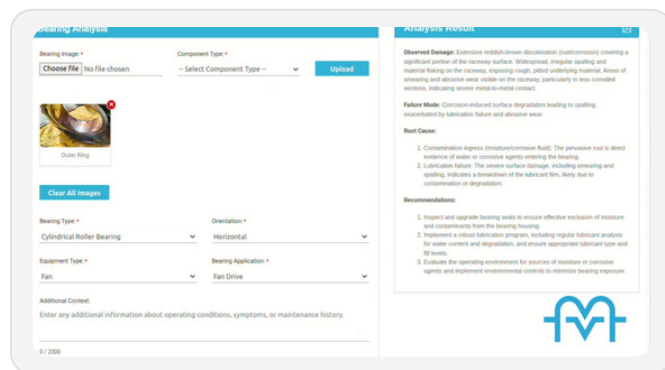
One workspace, four questions, answered before the failure.

Built for plant operators, maintenance managers and plant heads.
Every screen is designed around one question: what should I do next?



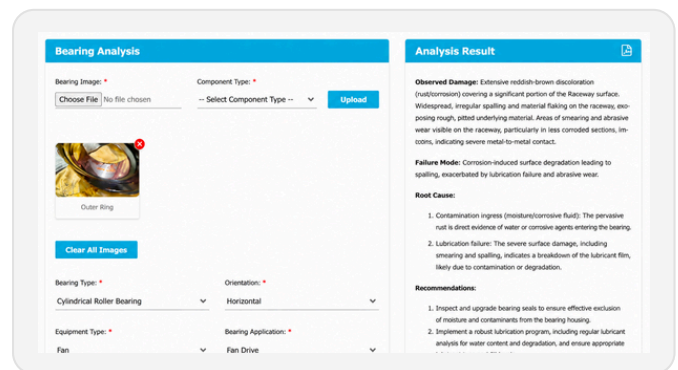
Real Time Data

Data captured for every asset real time.



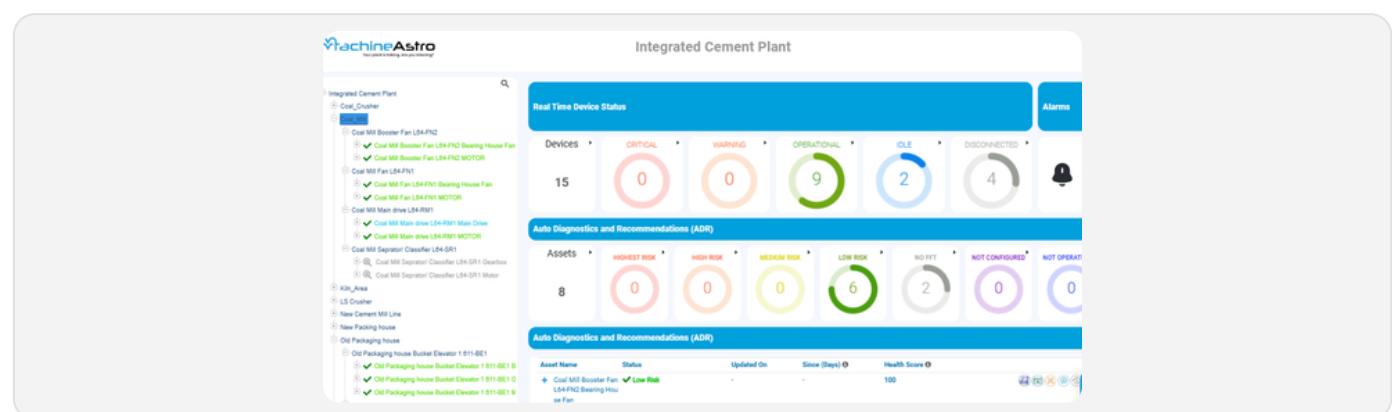
AI/ML Bearing Root Cause Analysis

Pinpoints the failure mechanism, not just the symptom.



Auto Diagnostics & Recommendations

Fault type, severity and the fix, in plain language.



Assets Health Summary

Single command centre of every connected asset across the facility

ALSO IN THE WORKSPACE

- Remaining Useful Life - Maintenance moves from calendar based intervals to evidence based scheduling.
- FFT analysis - frequency domain view for early fault signatures.
- Asset wise alarm history - Timestamped, asset tagged and one click away from resolution.

PROVEN ON THE PLANT FLOOR MEASURABLE OUTCOMES ACROSS INDUSTRIES

70%↓

Reduction in unplanned downtime

AUTOMOTIVE · STAMPING LINES

+8pts

OEE improvement on packaging line

FMCG · PACKAGING

3 wksBearing fault caught 3 weeks early,
failure averted

STEEL & METAL · FURNACE FAN

SIX CAPABILITIES THAT DEFINE VIBIT IQ

01 Universal sensor compatibility

24+ manufacturers via Modbus, MQTT, OPC-UA
and RS-485

02 Configurable alerts

Threshold and anomaly based rules set per
asset or parameter

03 Hierarchical drilldown

Smart search across assets and parameters
from one dashboard

04 One click reports

Audit ready reports for management
and compliance

05 Machine digital twin

100,000+ bearing library, 400+ fault library
built in

06 On-premise or cloud

Fully air gapped deployment available
inside your OT network

WHO VIBIT IQ IS BUILT FOR

DECISION MAKERS

- Plant Heads & Operations Managers
- Operations Directors / CFOs

DAY TO DAY USERS

- Maintenance Managers & Supervisors
- Reliability Engineers

WHAT DEPLOYMENT TAKES

- ✓ Works with your existing sensors,
no new hardware required
- ✓ Connects over standard protocols
(Modbus, OPC-UA, MQTT, RS-485)
- ✓ Runs fully on premise, no data
leaves your OT network
- ✓ No vendor lock in, no rip and replace

About MachineAstro

MachineAstro is an industrial predictive maintenance and condition monitoring platform built for manufacturing. We help plants in cement, automotive, chemical, FMCG and steel sectors move from reactive to predictive operations recovering performance, reducing downtime and encoding the knowledge of your best engineers into every shift.

BOOK A FREE 30 MINUTE PLANT ASSESSMENT

See VIBit IQ on your asset class fault, severity and fix, in maintenance language.

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Let's talk solutions

