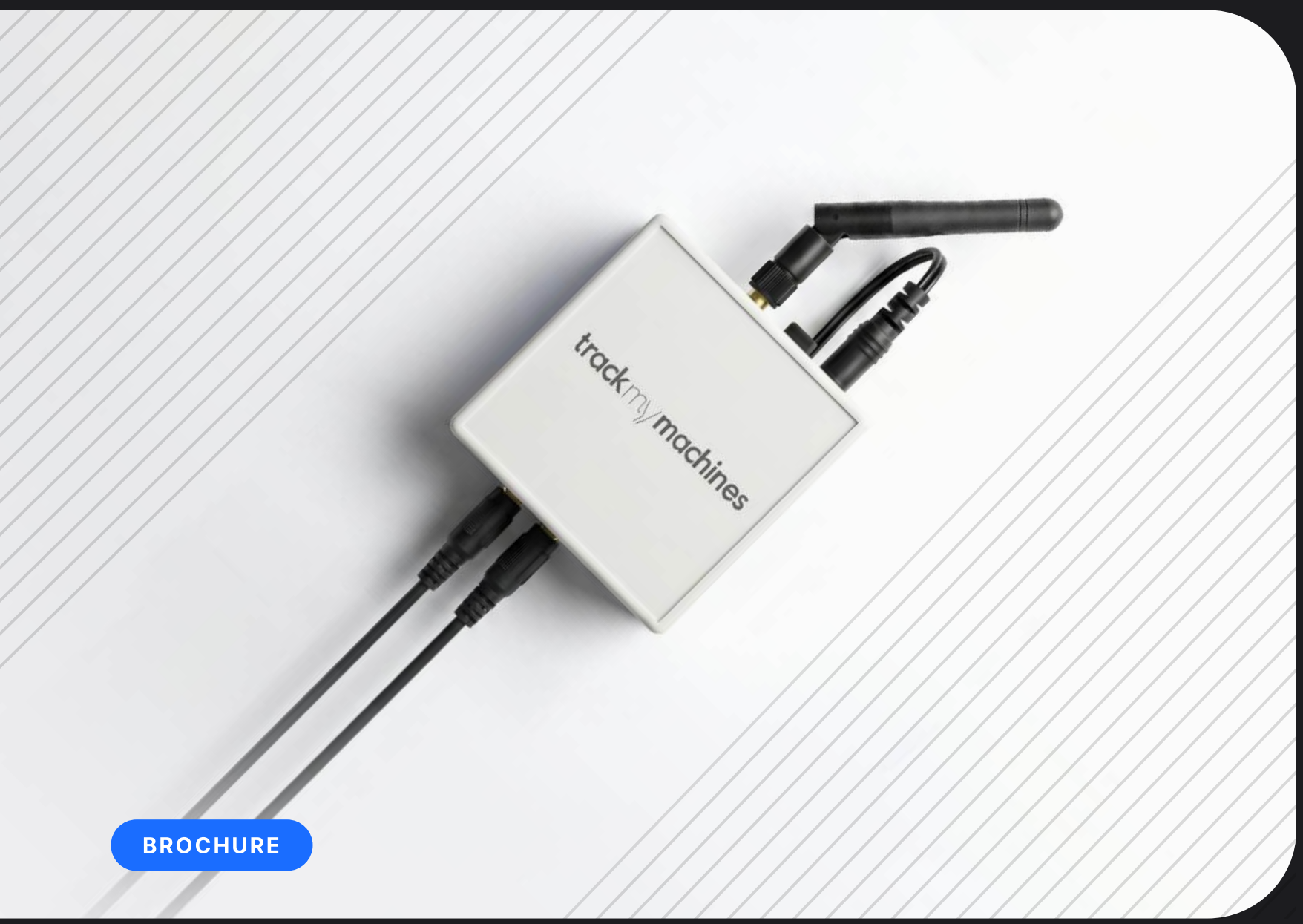
trackmymachines



BROCHURE

An Introduction to TrackMyMachines

See how our hardware captures your production data, how our intuitive platform makes sense of it, and how our complete monitoring solution drives real results on your factory floor.

trackmymachines.com

IIOT DEVICE

Meet T-Connect

One small box. Drops onto any machine on your floor — old, new, any brand, any controller. The hardware that makes everything else in this brochure possible.

Connectivity	**Wi-Fi 802.11** or **RJ45 Ethernet**
Power	**24VDC (Machine Cabinet)** or **5V USB-C (3-Pin DC Transformer)**
Sensors	**CT clamp** **Direct PLC Link** **Relay Switch**
Footprint	**75× 74 × 30 mm**
Price	Included in the subscription

OPERATOR PANEL

Meet the Operator Panel

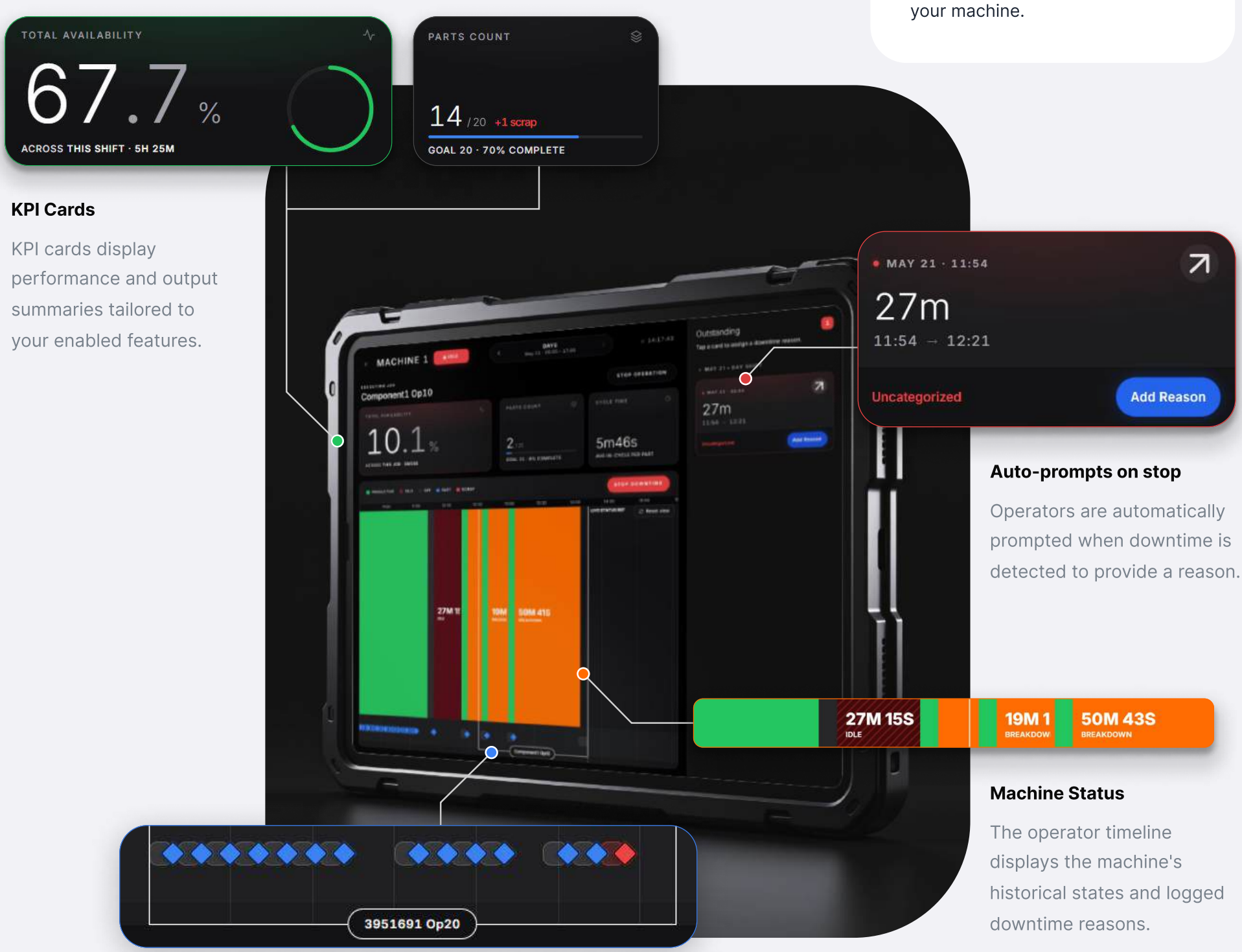
Equip your team with a real-time production hub on any device. Instantly track job progress, categorise downtime, and log scrap right at the machine for accurate data and smooth shift handovers.

/ How it works

When current drops below threshold, the platform auto-prompts the operator on a tablet — the reason is logged in seconds. No clipboards. No end-of-shift guesswork.

/ Hardware Options

Runs on any browser. Bring your own tablet or computer, or subscribe to a managed tablet pre-configured ready to mount to your machine.



KPI Cards

KPI cards display performance and output summaries tailored to your enabled features.

Auto-prompts on stop

Operators are automatically prompted when downtime is detected to provide a reason.

Machine Status

The operator timeline displays the machine's historical states and logged downtime reasons.

Scrap & defect logging.

Log defective components and scrap materials in real time.

View output

Review past operations and track exactly what was produced at any given moment.

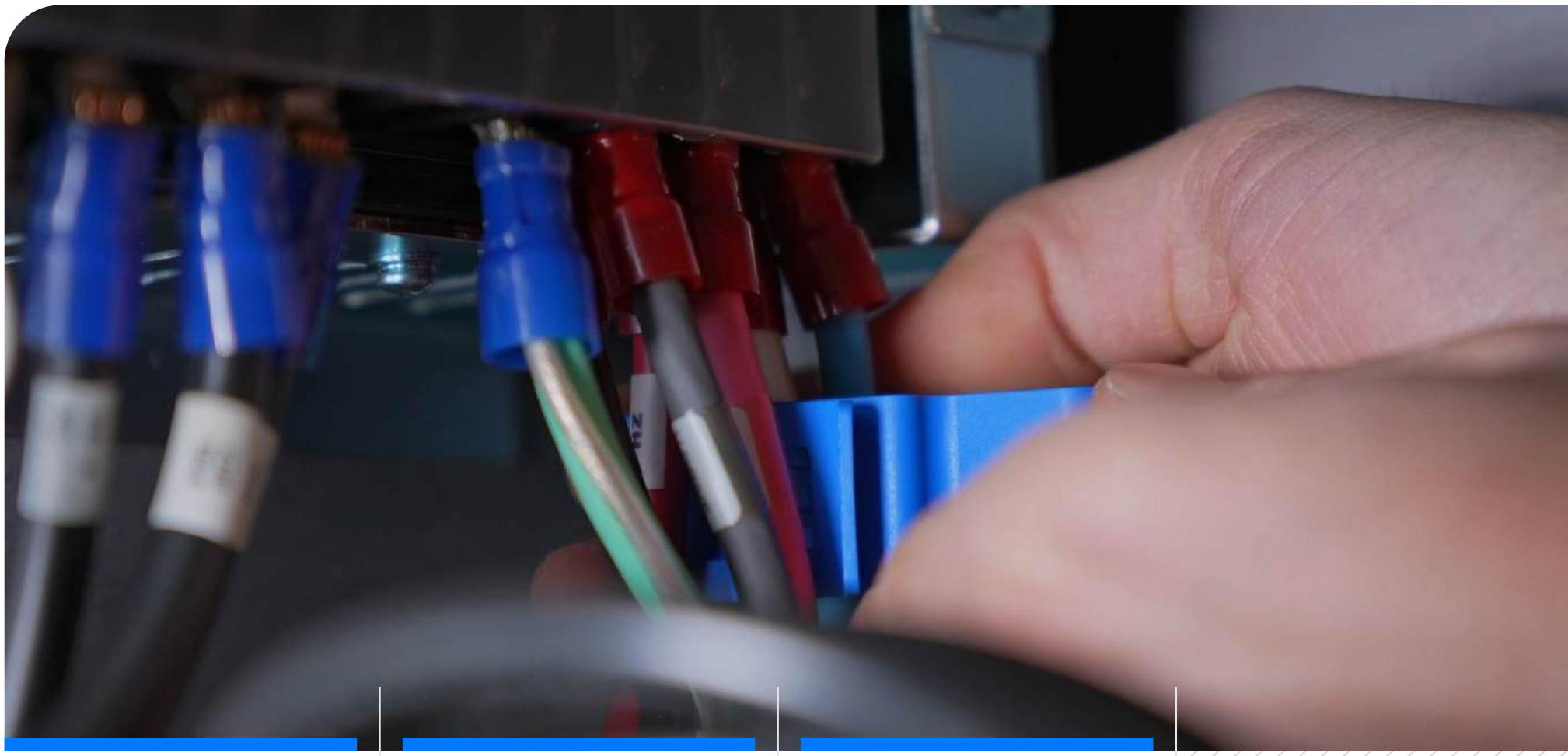
INSTALLATION

The current clamp installation

A clip-on current sensor wraps around the productive cable inside. No electrician, no rewiring, no PLC integration. Can track **any machine** that draws current when it's productive.

The data you get:

- Automated cycle detection
- Extract utilisation data
- Energy monitoring



STEP 01

Power IIoT device

Plug the 24V DC cable from the machine into the back of T-Connect, or use the 3-pin mains lead.

STEP 02

Clamp the motor cable

Clip the CT clamp around the cable that drives your machine's productive elements.

(You can monitor up to three)

STEP 03

Plug in and go live

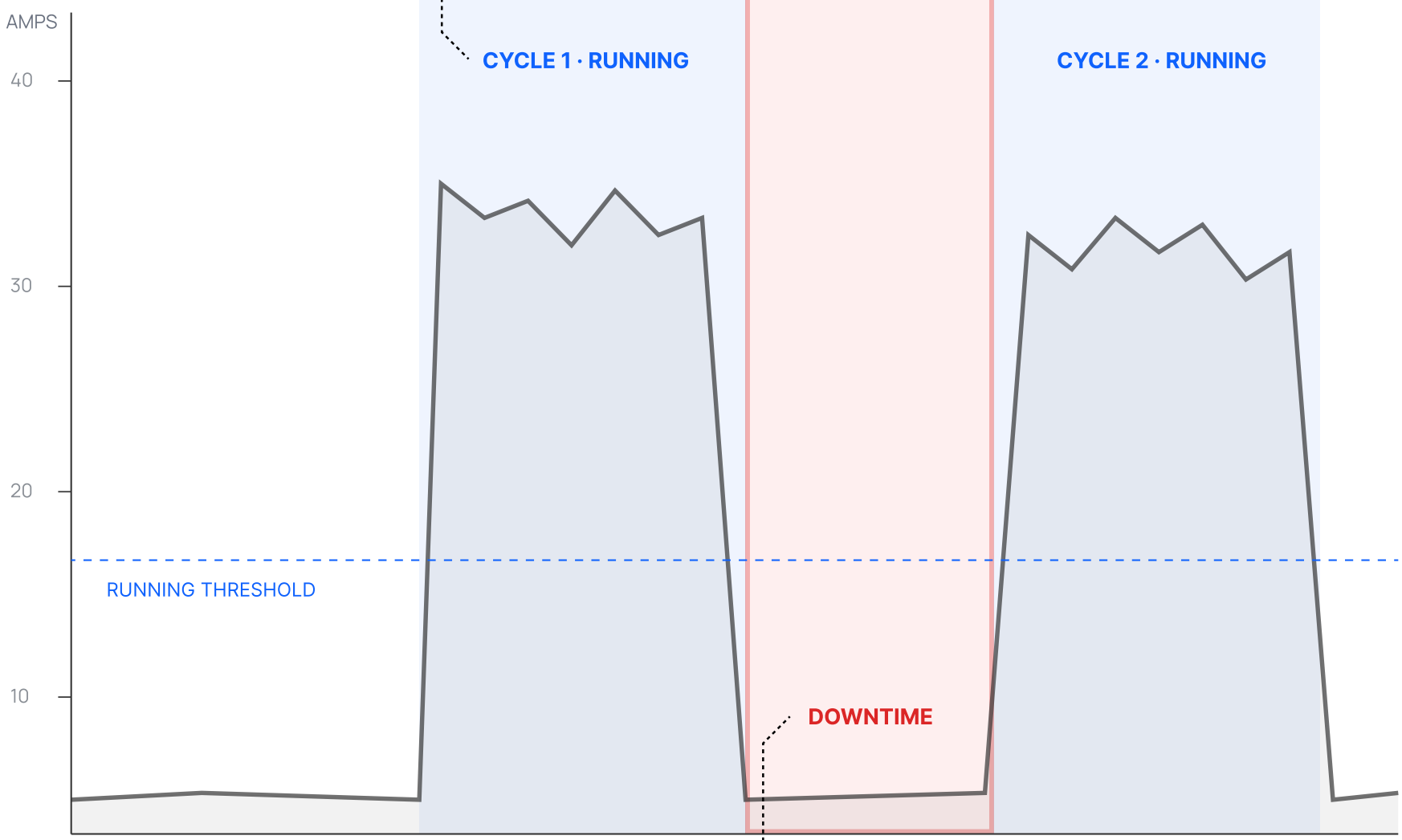
The T-Connect box will automatically connect to your network. Open the platform and watch your first cycle appear.

From current to insight

One physical measurement — the current drawn by your machine — tells you whether it's running, idle, or stopped. Everything else follows from that.

Automatic Cycle Capture

Current spikes and drops map directly to the start and end of each production cycle. Every run is captured automatically, with no manual logging required.



Automatic Downtime Prompts

The moment current drops below your running threshold, the Operator Panel prompts for a downtime reason. No clipboard. No end-of-shift recall.

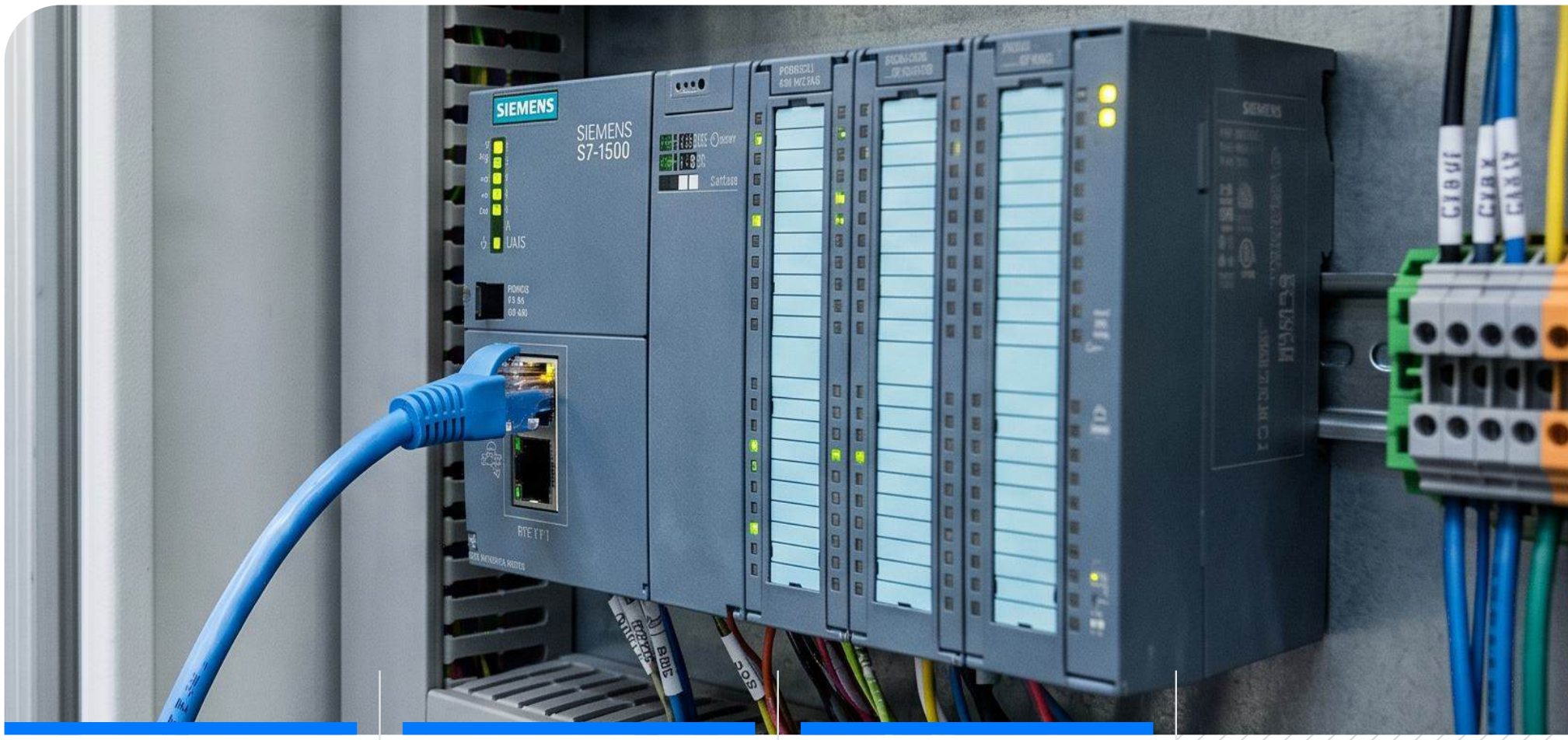
PLC INSTALLATION

The PLC Installation

Everything Method A captures — plus a direct read of the machine's controller. T-Connect connects via Ethernet and pulls signals the current trace alone can't see.

The data you get:

- Program name capture
- Alarm codes
- Feed override
- Part Count



STEP 01

Connect to PLC

T-Connect arrives pre-configured for your PLC protocol. No complex on-site configuration needed.

STEP 02

Configure controller

Set the IP address and port in your machine controller's settings screen. T-Connect does the rest.

STEP 03

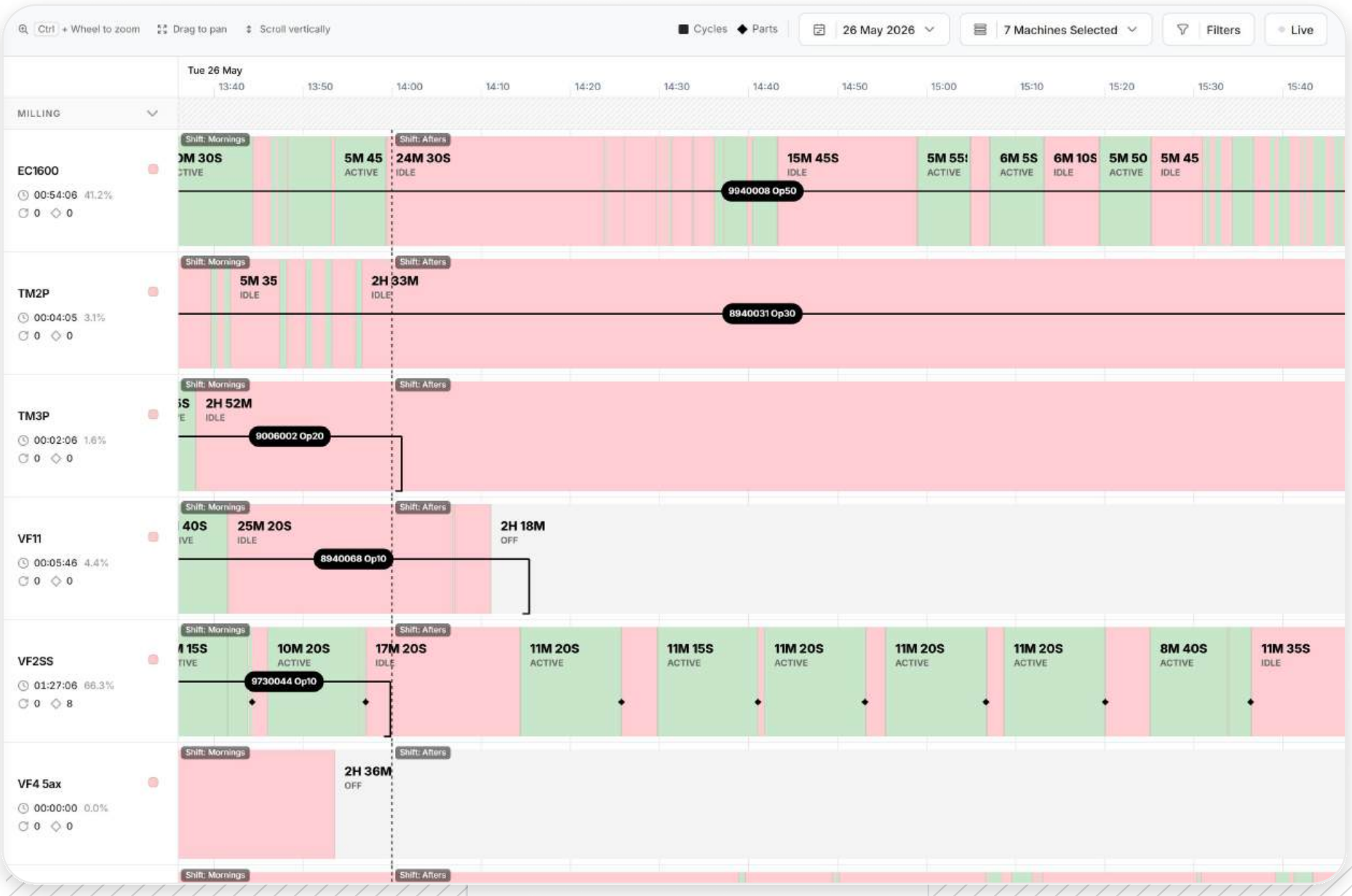
Go live

Open the platform and watch your data appear in real time.

OPERATIONS TIMELINE

The factory, second- by- second.

Every machine on your floor in one view. Cycles, changeovers, setups, downtime — streamed live from every T-Connect, with full scroll-back history for the conversations that matter at end-of-shift.



States

Every machine state, Active, Idle, Changeover, Breakdown — is logged to the second and displayed across the shift.

Operations

See the program or job running on each machine, and how long each operation actually took versus how long it should have.

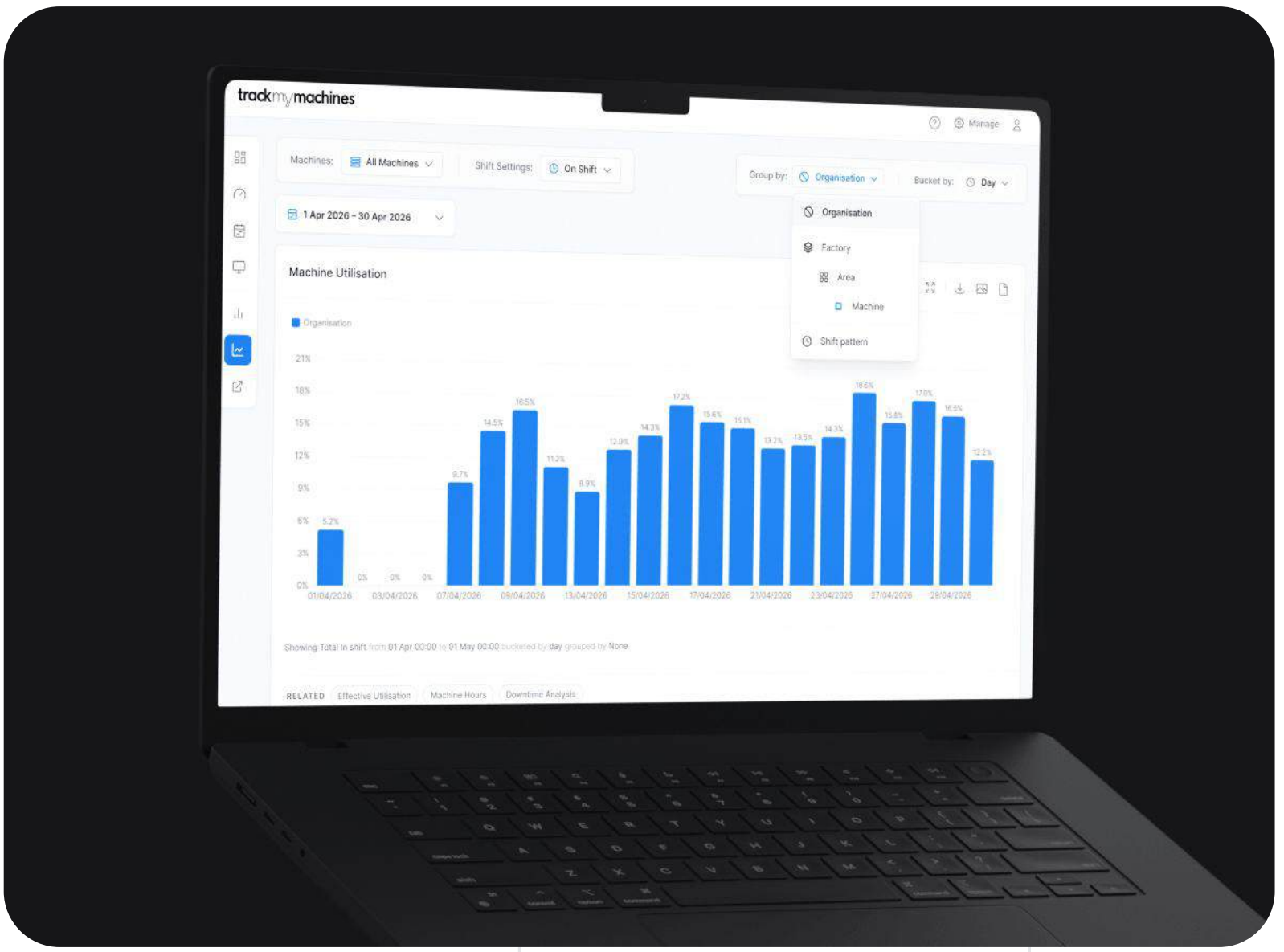
Parts

Part counts flow in automatically from the PLC, or logged manually by the operator. Either way, your output number is always up to date.

UTILISATION / OEE

Know your OEE and Utilisation

Most manufacturers have a rough sense of how busy their machines are.
TrackMyMachines makes it precise.



Availability

What share of your scheduled shift time is the machine actually running? Availability makes idle time and unplanned stops impossible to ignore.

Performance

Is your machine running at the right rate? Catch slow cycle and load times early, before they silently derail your deadlines.

Quality

Scrap and rejects are output losses, not just a quality problem. Log them at the machine and your OEE score reflects reality, not assumptions.

DOWNTIME REASONS

Stop guessing. Start measuring the 60%.

With operator-logged reasons against every drop in productivity , the platform builds a source of truth explaining your lost production time.

UP TO

60%

of shift time lost to machine downtime — in worst-case shops we measure.

WHAT EVERY HOUR COSTS

For a typical machine, hourly rate sits between

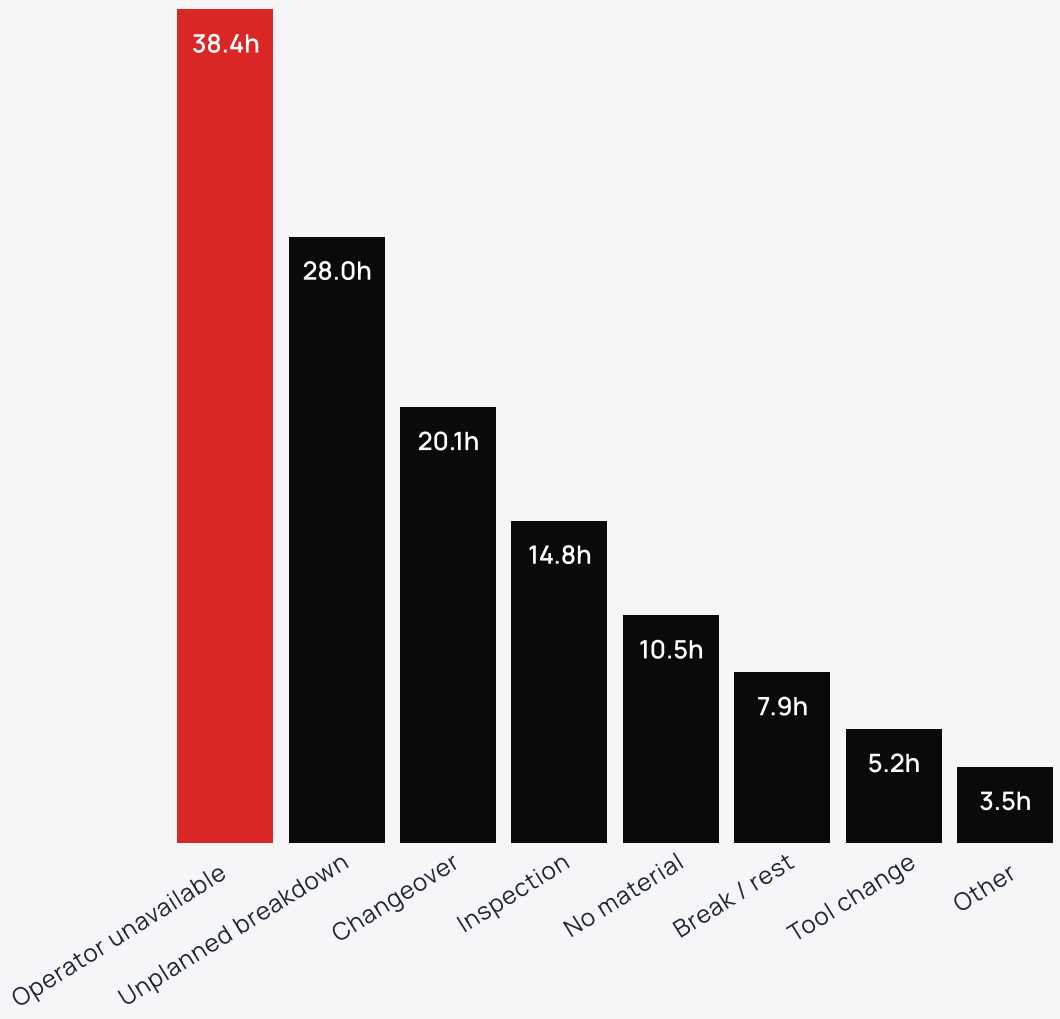
£50 — £200 / HOUR

in lost production. On a single mid-size machine running two shifts, an unidentified 4-hour daily loss can exceed £150,000/year.

- **Two-tap downtime reason capture**
  From the Operator Panel
- **Automatic alerts**
  Set alerts to notify you when machines enter unplanned downtime

Downtime reasons · Cell B · last 30 days

HOURS LOST · BY OPERATOR-LOGGED CAUSE

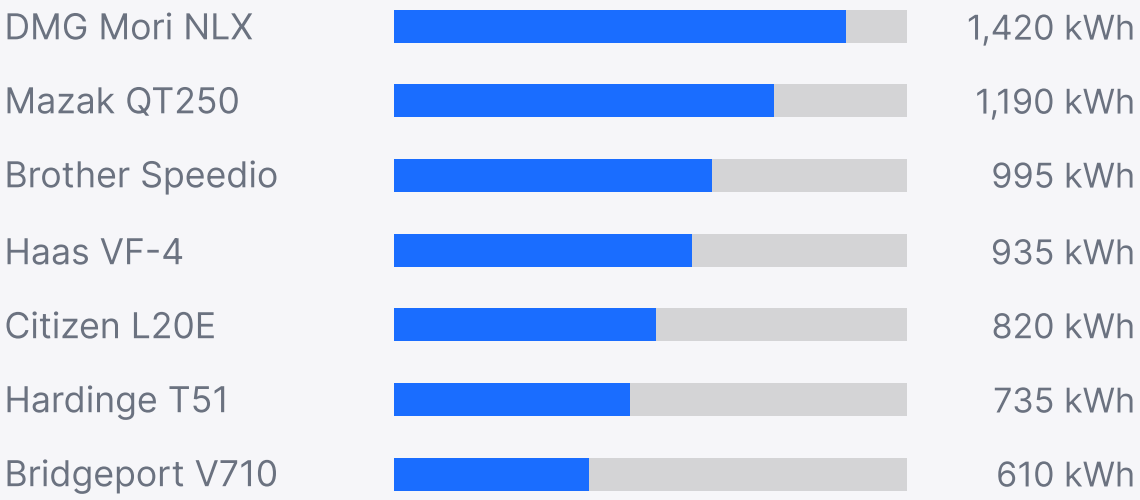


128.4 HOURS TOTAL · **TOP 2 REASONS = 52% OF LOSS**

ENERGY CONSUMPTION

See your kilowatts

A second clamp on the total power feed turns T-Connect into an energy meter. Find the machines drawing power on idle.



PRODUCTIVE DRAW

5,840 KWH / WK

IDLE DRAW — WASTED

2,405 KWH / WK

£408m

Lost by UK manufacturers every year leaving machines powered on when factories are closed*

* Source: https://www.theengineer.co.uk/content/news/uk-manufacturers-waste-408m-leaving-machinery-idling

JOBS & COSTING

Quote on truth, not memory.

ERP clock-on / clock-off tells you when a job was open. Machine data tells you when it was actually making money.

ERP SAYS

"Job WO-4421 took 18h 30m"

Clock-on at 06:15 Monday, clock-off at 16:45 Tuesday. Took 2x longer than expected, estimator scratches head. Gross margin disappointing.

TRACKMYMACHINES SAYS

"Spindle ran for 5h 6m"

4h 15m was spent loading, 9h 15m was setup, idle and waiting for tooling. True cost-to-produce is 51% of what the clock said.

OUR REST API ENABLES SEAMLESS BIDIRECTIONAL DATA EXCHANGE WITH **ANY ERP SYSTEM**

Infor Epicor MRPeasy SysPro Dynamics

EVIDENCE

What it looks like, in real factories

Customers using TrackMyMachines today. Numbers come from their own data, in their own words.

1 Hour

Pays for itself if you just save one hour of production P/M

15–20%

Typical productivity gain

<15 min

Av Install time per machine

"Being able to see how our machines actually run through the day has been vital in understanding and improving productivity on our shop floor."

Mandy C.
Record Power

"In the first week we've measured cycle times for the first time on components we've been making for fifty years."

C. Parry
Manufacturing Engineer · Gardner Denver

"There's nothing not to like about a system that tells you exactly what's going on on the shop floor."

Production Manager
Subcontract machine shop, Midlands

"It's helping us move towards Industry 4.0. Every month we can analyse with directors and plan forward based on what we find."

Operations Director
Precision parts manufacturer

track my machines

We provide manufacturers with the tools and insights they need to reduce waste, optimise performance, and increase margins in an increasingly competitive world.

/ **From £55 per month** / No contract lock-in / Hardware included / Onboarding Included

trackmymachines.com

0330 133 3005