

VISUAL FACTORIES – PRODUCT OVERVIEW

Tools Tracking & Tool Life Monitoring

Every mold located. Every shot counted.



visual factories

MOLDS · LOCATION · TOOL LIFE



Every Mold. Every Shot.

Molds move between warehouses, shops, machines and repair. Tool life lives in spreadsheets and depends on manual reports. Visual Factories closes both gaps with one system: each mold reports its own location, and machine counts update its tool life.

"You can't manage a tool you can't find."

TODAY

Molds found by walking the floor. Mount and dismount reported by hand. Tool life reconstructed from spreadsheets and memory.

WITH VISUAL FACTORIES

Each mold reports where it is. Machine counts feed its tool life. One live picture of the entire tool fleet, on every site.

How it works

/ 01

LOCATE

A self-powered tracker on each mold transmits its position over the cellular network. No site infrastructure, no wiring.

/ 02

IDENTIFY

Location and tool life set the status: in shop or warehouse, on the machine, in repair outside the plant, scrapped at end of life.

/ 03

COUNT

The Visual Factories IoT device reads the machine signal counter. Every shot on the machine is added to the mold's tool life.

/ 04

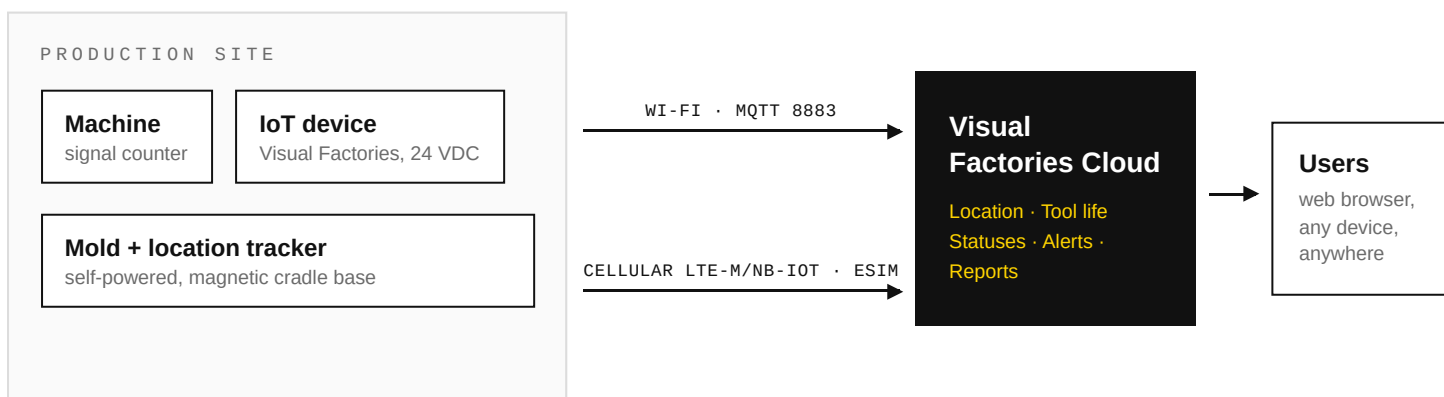
ACT

Tool life alerts trigger maintenance on time. Reports show location, life and status for every tool.

Tool life without manual reporting. **The mold tells the system which machine it is on.** Where resolution is not precise enough, manual mount reporting remains available as backup.

The tool life module runs today at Visual Factories aerospace customers, protecting part quality and machine health.

System architecture





One Kit. Self-Installed.

Everything ships in one kit with step-by-step instructions. Your team installs it without a technician visit. Wire the counter signal, join the plant Wi-Fi, mount the tracker. Done.

In the box

/ 01

Location tracker

Self-powered, sealed, with a magnetic cradle base. Mounts on the mold in seconds.

/ 02

IoT device

Reads the machine signal counter and streams shot counts. Power supply and relay are part of the device.

/ 03

Install guide

Simple instructions: connect the counter signal, join the plant Wi-Fi, mount the tracker. Remote support if needed.

Hardware



Location tracker

POSITIONING	GPS (GNSS), Wi-Fi scanning and cell tower positioning, indoors and outdoors, resolved in the cloud to save battery
CONNECTIVITY	4G/5G cellular, LTE-M / NB-IoT with global roaming. Embedded eSIM and data plan included in the subscription
BATTERY	Up to 10 years at one location update per day. User-replaceable AA lithium batteries, no charging
HOUSING	IP68 sealed and rugged. Magnetic activation and tamper detection
DIMENSIONS	154 × 66 × 21 mm (6.1 × 2.6 × 0.83 in)
TEMPERATURE	Device rated -30 to +60 °C. See mounting note below



Visual Factories IoT device

INPUTS	8 digital inputs, 3 kHz counter input
CONNECTIVITY	2.4 GHz Wi-Fi (802.11 b/g/n) on the plant network. DHCP or static IP
CLOUD LINK	Streams to the Visual Factories Cloud over MQTT, TCP port 8883
POWER	24 VDC. Power supply and relay included
DIMENSIONS	80 × 148 × 25 mm (3.1 × 5.8 × 1.0 in)
ENVIRONMENT	-25 to +70 °C. DIN rail or wall mounting

Built for hot mold surfaces

Mold surfaces can exceed the tracker's rated temperature. The magnetic cradle base holds the device off the surface with an air gap, so ambient air cools it instead of direct contact heat. Before mounting, confirm the surface temperature at the chosen spot keeps the device within its rated range.



One Subscription Per Asset.

No hardware to buy. No one-time fee. One monthly subscription per monitored asset covers the hardware, the connectivity and the platform.

TRACKED MOLD — PER MONTH

One flat monthly rate per tracked mold. Volume tiers reduce the rate as the fleet grows, and each tier applies to all assets going forward.

MACHINE CONNECTION — PER MONTH

A reduced-rate connection that serves tool life counting only. Upgrade any machine to add Visibility: performance alerts and OEE optimization on the same connection, for any machine, any age, any process.

MOLD SUBSCRIPTION INCLUDES

- Location tracker with magnetic cradle base
- eSIM cellular data, global roaming
- Live location and the four statuses
- Tool life monitoring, alerts and reports
- Support

VOLUME-TIERED · TERM SUBSCRIPTION
· DETAILED QUOTE ON REQUEST

One machine, many molds

Molds are the only per-asset line. The machine connection is shared infrastructure: one connected machine counts shots for every mold that mounts on it, and machines are few, each serving the whole fleet.

Start small, scale up

Begin with a pilot on live molds at a single site. Pilot kits carry straight into the rollout, so nothing installed during the pilot is thrown away.

Manuel Uriarte

Head of North America

manuel.uriarte@visualfactories.com
+1 (714) 869-1240 · +52 33 1464 6954

Matti Tiano

Industry Expert

matti.tiano@visualfactories.com
+1 (760) 410-8884