

UNLOCK MORE UPTIME FROM EXISTING ASSETS

HOW REAL-TIME PROCESS OPTIMIZATION HELPS BUILDING MATERIAL MANUFACTURERS RECOVER HIDDEN CAPACITY AND INCREASE PROFITABLE OUTPUT

Building materials demand can change quickly.

Construction cycles and infrastructure spending both affect production needs. Major weather events can create sudden spikes in demand for products such as roofing or siding.

When that happens, manufacturers need the capacity to respond.

Many already have it.

Recurring stoppages and unstable line performance can leave productive capacity trapped inside assets already on the floor.

Higher uptime releases more of that capacity without another capital project.

THE PROBLEM

Downtime limits your ability to respond

Short stops and unplanned maintenance often become accepted as part of production.

Teams correct the immediate issue and restart the line. But the operating drift behind the interruption may remain.

As material behavior or equipment condition changes, settings that worked earlier may no longer deliver the same performance.

By the time the issue becomes visible, production has already slowed or stopped.

Across high-volume operations, recurring downtime reduces throughput and raises operating costs. More importantly, it limits how much available capacity manufacturers can use when demand rises.

THE SOLUTION

Real-Time Process Optimization protects uptime

Braincube's Real-Time Process Optimization continuously evaluates the conditions influencing line performance.

Using production data already available across the process, Braincube determines which controllable settings matter most.

It then prescribes the operating targets required to maintain stable production.

As conditions change, those prescriptions update in real time.

Operators receive clear guidance before drift becomes a larger production loss.

The result is more productive run time from the same assets.

How Brincube fits into your existing systems

Most building material manufacturers already rely on PLCs, APC, MES, historians, and monitoring tools to keep production controlled and visible.

These systems are essential, but they do not continuously determine how the process should run to protect uptime as material behaviour and equipment condition change.

Real-Time Process Optimization closes that gap by continuously prescribing the operating targets required to reduce drift and keep production running.

WHY BRAINCUBE

Traditional approaches help teams respond after downtime begins.

Real-Time Process Optimization helps teams address drift before production is lost.

TRADITIONAL APPROACHES	BRAINCUBE
▼ Fixed targets that become less effective as conditions shift	✕ Operating prescriptions recalculated in real time
▼ Alarms that signal a problem after instability develops	✕ Guidance before drift becomes a stoppage
▼ Manual troubleshooting after production has already stopped	✕ More consistent performance across shifts
▼ Line performance that depends heavily on operator experience	✕ Proven operating practices scaled across plants
▼ Improvements that are difficult to repeat across shifts and sites	✕ Works with existing PLC, APC, MES, and historian infrastructure

HOW MUCH PRODUCTIVE CAPACITY IS HIDDEN IN YOUR DOWNTIME?

Connect with a Brincube expert today.