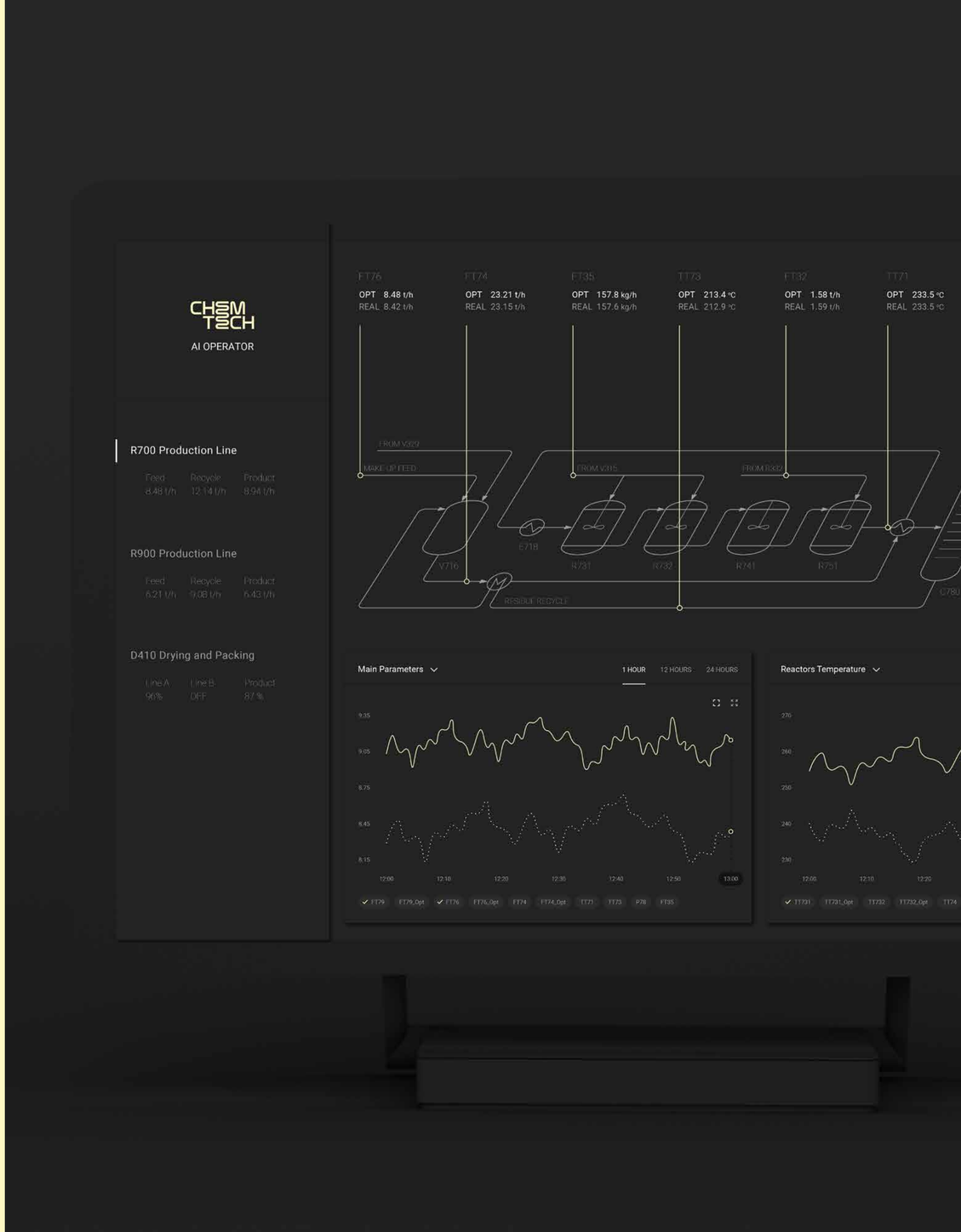
CHEM TECH

Chemicals Case Study

AI-Powered Autonomous Production

AI Operator is an adaptable software that supports fully autonomous production. It provides optimal set points in real-time to improve yield, product quality, and eliminate losses.



Easy to Implement on Any Factory

Zero Investment

No need to install new sensors or any hardware

Rapid Result

3 weeks from the initial meeting to a commercial operation

Universal

Compatible with 30-year-old industrial automatization system

Scalable

Ready to scale across different manufacturing sites

Nitric Acid Case Study

One of the largest phosphate and nitrogen fertilizers producers with 50+ manufacturing units struggled to achieve the desired production rate due to human mistakes, outdated 80s equipment, and a 90s automatization system.

Problems

- Low Production Rate
- High Energy Consumption
- CO_2 High GHG Emissions
- Human Mistakes

Results

	Production Rate	Energy Consumption	GHG Emissions	Money Per Year
Humans	93%	112%	109%	- $8,120,000
AI Operator	99.8%	99.8%	87%	+ $7,840,000

Timeline

Day 1

The customer shared a 1-year historical data from the sensors and laboratory.

Day 7

We cleaned and reconstructed the data, utilized it to customize AI models.

Day 14

Connection to the process automatization system, industrial testing.

Day 21

Commercial operation in fully autonomous mode.

Day 60

Connecting the additional production line to the AI Operator.

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