



**Critical
manufacturing**
an ASMPPT company

MES in a focused SaaS package

Who said Top-Tier MES wasn't
Built for your Stage of Growth?

Critical Manufacturing MES, the same platform trusted by the world's leading chip manufacturers, now packaged in a SaaS offer for semiconductor R&D labs and emerging fabs.

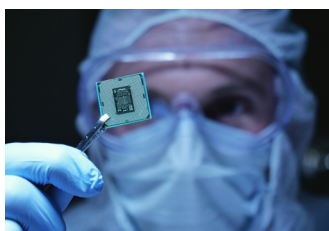
Start focused and scale on your terms.
Turn investment into results. Fast.

Critical Manufacturing MES, the platform trusted by the world's leading chip manufacturers, brings the capabilities that matter most for semiconductor R&D and emerging fabs, packaged for where you are today. No infrastructure overhead, no budget uncertainty. Start focused, demonstrate progress quickly, and scale at your own pace from a foundation that doesn't need to be rebuilt.

Built around what matters at your stage

This offer is not a scaled-down version of something bigger. It is a carefully selected package built around the specific realities of running a semiconductor R&D lab or emerging fab, and what it takes to deliver results at this stage.

You will be able to:



Get to value fast

Pre-configured semiconductor workflows and hands-on onboarding get your team up and running with real-time experiment tracking, recipe management, and full traceability.



Control your costs from day one

Fixed annual subscription. OPEX, not CAPEX. The number you sign stays the number you plan around.



Run without infrastructure overhead

Cloud-hosted on AWS. No servers to procure. No IT team required. Focus stays on your science.



Scale as your operations grow

Start with essential MES capabilities and expand progressively as operational complexity and production requirements evolve.

The right capabilities. Ready when you are.



Material and Containers

Tracks materials, sub-materials, and their containers throughout the manufacturing process



Routing and Dispatching

Defines the process and rework flows as well as it provides step and resource level dispatch rules



Data Collection and Acquisition

Define and execute data collection plans



Experiment Management

Enables the design and execution of experiments in an integrated manner



Maintenance Management

Provides preventive and corrective maintenance to resources, containers and materials



Recipe Management

Provides integrated recipe management and recipe resolution capabilities



Sampling

Provides lot-based sampling as well as sub-material sampling at metrology steps



Statistical Process Control (SPC)

Performs SPC using standard and user defined SPC validation rules



Traceability and Genealogy

Ensures end-to-end traceability and genealogy across products, raw materials, resources, and processes



Master Data Management

Maintains the factory model and all the manufacturing master data



Equipment Tracking

Monitor equipment activity and availability with full visibility across production and process development environments



Bill-of-Materials

Manage bill-of-materials with a structured, traceable, and integrated approach to support accurate production execution

Not a lite version. The real thing.

What's included in the SaaS package:



MES License

12 semiconductor modules with full platform access



Effortless Infrastructure

Access to AWS infrastructure with 24/7 hosting with annual support and monitoring



Deployment & Semiconductor Starter Kit

Pre-configured workflows and master data ready from day one



Training

Training available up to 5 trainees with 1 certification included