Tensoft SemiOps

SaaS Solutions for the Semiconductor and Sensor Industries including IC and Module Businesses



Tensoft SemiOps Cloud Platform

Tensoft SemiOps
(Semiconductor Supply Chain)

Tensoft DemandOps
(Semiconductor Sales Operations)

Tensoft SemiOps SI
(Supplier Integrations)

Supports the unique manufacturing, supply chain management, demand management, and financial accounting needs of high tech businesses



Years of Experience in Semiconductor Industry



Semiconductor Ecosystem Integrations

(Fab, OSAT, Contract Mfg.)



Companies' Chips and Sensors Built on Tensoft Platform Including Fabless ASIC Partners



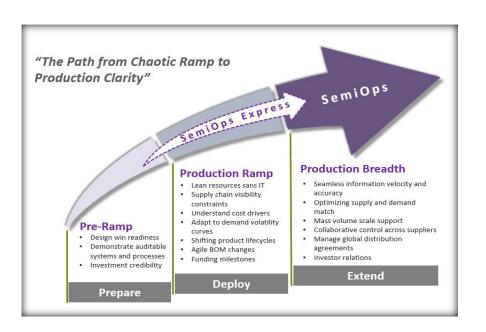
Features Overview

Planning & Forecasting

Quickly and accurately plan for material requirements with Tensoft SemiOps Planning and Forecasting. Improve your business performance and exploit supply chain opportunities with unified strategic, tactical and operational supply chain optimization, with visibility to all stakeholders.

Inventory Valuation and Product Costing

Purpose built for industry finance and product costing. Includes yielded cost models, cost rolldown support, detailed cost and variance analysis, 4-way match for vendor invoices, ERP integration, historical inventory reporting, and roll forward inventory analysis.

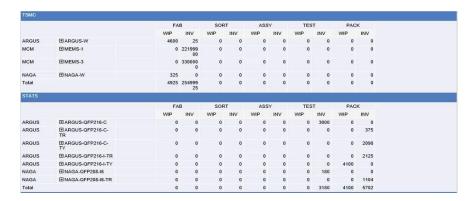


Operations and Outsourced Manufacturing

Complete WIP and inventory management support for semiconductor operations, including yield and cycle time history, consolidated WIP status, complete forward and backward product genealogy, auditable lot and product attribute tracking, all fully integrated with planning, customer service, and ERP.

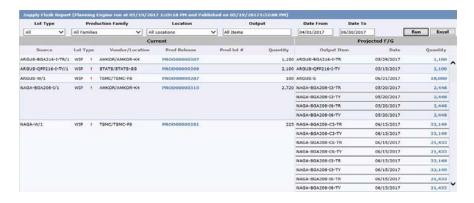
Customer Service and Logistics

All the tools a customer service manager needs to support orders, scheduling, shipping and drop shipment, documentation, and management metrics in a closed loop system fully integrated with invoicing and accounting. Customer service is an integral component of the Quote to Cash cycle.

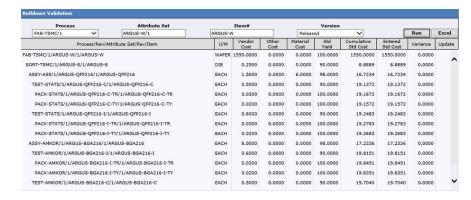


WIP Report - Production Summary

Consolidated Inventory across vendors, production stages, and product families



Supply Flushed to all potential finished good items



Standard Cost Rolldown Validation

Yielded cost rolldown through IBOM for unlimited versions of standard cost

What are the benefits

Supports Semiconductor Manufacturing

Supports inverted BOM one-to-many production model. Yield and cycle time requirements, binning and complex package options, as well as downgrades and rework, are all full supported.

Delivers Full Lot Genealogy

Wafer lot, internal lot, and vendor lot can be tracked for every step in the process. Unlimited production attributes can be tracked and used for detailed analysis. Every part has full genealogy associated with it at all times.

Operation Cycle Time Management

Ability to track cycle time data by product, vendor production step, and product variables for detailed sorting and analysis.

Integrated Production Suite

Fully automated supply and demand analysis and planning through operations execution to global fulfillment processes. Benefits such as a closed loop process for 4-way match of order to approved production completion, to vendor invoice, and production pay-points fully integrated with payables process highlight collaborative system workflows.

Tensoft DemandOps

Managing demand in a distribution-based go-to-market model.

It delivers order-to-invoice, returns management and distributor management that supports industry-specific requirements as well distribution-based requirements. For companies that sell through distribution channels, it helps manage the distributor relationship, including managing price guarantees, credit management for sales to specific customers and stock rotation support.



Features Overview

Booking, Billing and Backlog

Includes built-in bookings tracking, billing and backlog reporting. This includes change tracking for bookings, and commit date change tracking for backlog. Automate what is usually a time consuming and painful process for most organizations.

Distributor Inventory Tracking

End customer level tracking. Updated from shipments, returns, and distributor reported point of sale (POS) data.

Production Planning and Demand Management

Backlog plus forecasts plus insight into distributor and channel inventory are key inputs into reviewing and judging your demand plan. We help put all of this together for you to best prepare the forecast for production planning.

Returns Management

Includes RMA to credit processes.

Shipping Support

Multiple shipment options available for Tensoft customers including shipper portal, integrated shipment (allowing supplier to do shipping separately) and quick ship model (simplified model to record outside fulfillment that is not integrated).

Distributor Orders

Distributor specific or end customer specific pricing, distributor shipping accounts and requirements.

Ship & Debit and Price Guarantees

POS end customer quote identification, match to distributor

inventory, credit generation and invoice reset for price guarantees.

Stock Rotation

Integrated with returns management and includes matched or unmatched returns.

Easy Integration

Seamless integration with Tensoft cloud apps and Microsoft Dynamics ERP, including Dynamics 365.

Sales Order Management

Order to invoice options for various business models including traditional push/pull production, VMI and NRE. Consideration to SalesOps and production responsibility split.



*Certain features may be in development for future release. Please inquire on product roadmap questions.

What are the benefits

Increase Planning Accuracy

Judge and adjust your demand plan by comparing forecasts to the existing inventory at the distributors.

Efficient Distributor Management

Manage distributor relationships like rebate management for sales to specific customers, managing price guarantees and stock rotation support.

Broaden Visibility

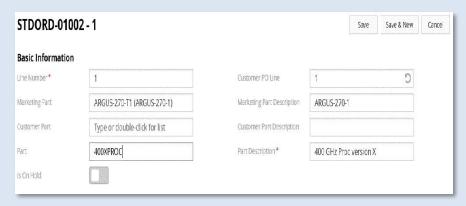
Integrated point of sale data provides insights on sales to customers by distributors and the available inventory.

Controlled Order Management

Leverage different order management flow models to best support multiple business scenarios. Supports NRE, VMI or vendor hub models and traditional orders.

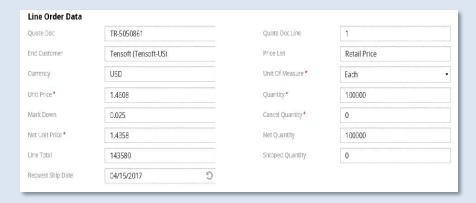
Streamlines Shipments

Shipping terms based on end customers including the ability to enter quotes, match multiple quotes on the same order, as well as quotes by line; and the ability to identify end customers on an order.



Order Management (Parts)

Support for customer, marketing, & internal part numbers.



Order Management (Pricing)

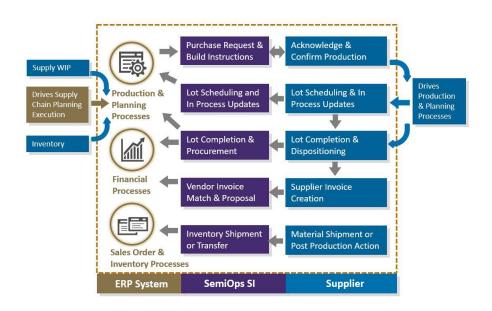
Support for distributor or design win based pricing – including quote match & end customer tracking.

Ship To Business	Tensoft (Tensoft-US)	Ship To Location*	PRIMARY	
Ship From Business	AMKOR-K4 (AMKOR-K4)	Ship From Location *	PRIMARY	
hipper Business	Tensoft, Inc. (Tensoft)	Shipper Method *	DHL (Ground (3-5 Days))	
hipper Account				
hipper Notes				

Order Management (Shipping)

Support for customer specific shipping accounts and instructions.





Supplier Enablement Via a Closed Loop, Collaborative Supply Chain

Tensoft SemiOps SI synchronizes operations and production finance transactions through collaborative information exchange at every major stage of production. Delivered as a highly secure, turnkey subscription service, SemiOps SI additionally includes an enterprise grade integration platform with prebuilt connectors to major ERP systems for automated data population.

What are the benefits

Increase Velocity

Speed information flow to all relevant parties, including internal clients, partners and customers.

Improve Efficiency

Communicate effectively with all suppliers at all phases of the process. Automate time-consuming transactions, eliminate error correction.

Broaden Visibility

Gain access and insight into detailed levels of supplier data and history to improve planning, transparency and oversight.

Better Data Accuracy

Easily detect and correct errors or discrepancies in vendor data before it goes into the ERP system.

Reduce Costs

Efficient and accurate data collection helps reduce costs by saving time and conserving valuable resources.

Measure Supplier Performance

Real-time communication, requested execution validation, and continual synchronization and comparison provide data to measure supplier performance and help ensure accountability.

Features Overview

Live Integrations with Top-Tier Suppliers Successfully connected to most first-tier suppliers and many second-tier suppliers. Flexible, proven methodology for adding suppliers allows integration via the most optimal method in each circumstance.

Production Orders and Forecast Information Communicates outbound forecasted and actual production requests to the supplier and returning inbound production order acknowledgements.

WIP Options Collects real-time updates on supplier material moves, released lots, expected outdates, and on-time delivery status. Complete history maintained for traceability.

Shipment Options Collects production completion data to record lot movement, actual cycle times and yields, production genealogy information, and confirmed production receipts. Pay-point completion steps queued for production control acceptance and the integrated production payables process. Lot clarity and procurement requirement rules enforced.

Systems Flexible options for Tensoft's fully managed integration service. Multiple connectivity models available, depending on supplier systems and capabilities. B2B integration models vary depending on subcontractor's technological requirements spanning spreadsheet or flat files to sophisticated RosettaNet transactions. Connects internal shop floor systems too.

Supplier Data Integrity Monitoring Move hard data evaluations with suppliers by maintaining a complete history of ontime delivery, supplier data quality and supplier performance. Identify exceptions and mismatches in supplier systems through comparisons to internal production control data.

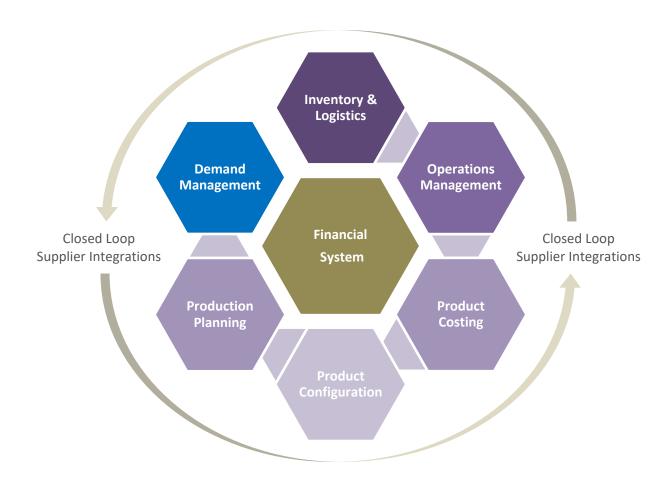
Data Cleansing Built-in processes for data cleansing and upload validation provide for clean data through an always-running and always-available system. Allows customers to check for discrepancies and fix errors before acceptance.

Self-Service Analysis & Reporting Access to both raw data and robust analytical tools to sort, query and intelligently interpret critical data and key trends across the supply chain spectrum. Powerful dashboard options available including Microsoft Power BI.

"Tensoft SemiOps SI
leverages Tensoft's 16+ years
of experience in integrating
to suppliers; we have 100+
active integrations. It builds
on our best practices for a
high-quality experience along
with our semiconductor
industry knowledge."



Scale your business with Tensoft



"We chose Tensoft because of their proven ability and reputation for providing industry specific, end-to-end ERP via a SaaS model. Tensoft SemiOps offers functionality - including semiconductor operations management, distributor Point of Sale analysis, and executive dashboards - that's essential to our corporate goals, and the on-demand model gives us access and support for our global operation."

— Eric Erdman, CFO, ViXS