

Industry-Intelligent Operations, Supply Chain and Logistics Management

Designed to easily scale with growth and support the unique manufacturing, supply chain management, and financial accounting needs of technology companies, including semiconductors, optical, RF, MEMS, Solid State Devices, LED, solar and sensor IC and module companies with fabless or partially outsourced manufacturing operations.

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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.

		FAB		SORT		ASSY		TEST		PACK	
		WIP	INV	WIP	INV	WIP	INV	WIP	INV	WIP	INV
ARGUS	ARGUS-W	4600	25	0	0	0	0	0	0	0	0
MCM	MEMS-1	0	221999	0	0	0	0	0	0	0	0
			00								
MCM	MEMS-3	0	330000	0	0	0	0	0	0	0	0
			0								
NAGA	NAGA-W	325	0	0	0	0	0	0	0	0	0
Total		4925	254999	0	0	0	0	0	0	0	0
			25								

		FAB		SORT		ASSY		TEST		PACK	
		WIP	INV	WIP	INV	WIP	INV	WIP	INV	WIP	INV
ARGUS	ARGUS-QFP216-C	0	0	0	0	0	0	0	3000	0	0
ARGUS	ARGUS-QFP216-C-TR	0	0	0	0	0	0	0	0	0	375
ARGUS	ARGUS-QFP216-C-TY	0	0	0	0	0	0	0	0	0	2098
ARGUS	ARGUS-QFP216-I-TR	0	0	0	0	0	0	0	0	0	2125
ARGUS	ARGUS-QFP216-I-TY	0	0	0	0	0	0	0	0	0	4100
NAGA	NAGA-QFP208-I6	0	0	0	0	0	0	0	0	0	180
NAGA	NAGA-QFP208-I6-TR	0	0	0	0	0	0	0	0	0	1194
Total		0	0	0	0	0	0	0	3100	4100	5762

**WIP Report-
Production Summary**
Consolidated Inventory
across vendors, production
stages, and product families

Supply Flush Report (Planning Engine run at 05/19/2017 1:29:18 PM and Published on 05/19/2017 1:32:08 PM)

Lot Type	Production Family	Location	Output	Date From	Date To
All	All Families	All Locations	All Items	04/01/2017	06/30/2017

Source	Lot Type	Vendor/Location	Prod Release	Prod Lot #	Quantity	Output Item	Date	Quantity
ARGUS-BGA216-1-TR/1	WIP	AMKOR/AMKOR-K4	PROD00000307		1,100	ARGUS-BGA216-1-TR	05/29/2017	1,100
ARGUS-QFP216-1-TY/1	WIP	STATS/STATS-S5	PROD00000299		2,100	ARGUS-QFP216-1-TY	05/15/2017	2,100
ARGUS-W/1	WIP	TSMC/TSMC-F8	PROD00000287		100	ARGUS-S	06/21/2017	18,000
NAGA-BGA208-1/1	WIP	AMKOR/AMKOR-K4	PROD00000315		2,720	NAGA-BGA208-13-TR	05/20/2017	2,448
						NAGA-BGA208-13-TY	05/20/2017	2,448
						NAGA-BGA208-16-TR	05/20/2017	2,448
						NAGA-BGA208-16-TY	05/20/2017	2,448
NAGA-W/1	WIP	TSMC/TSMC-F8	PROD00000281		225	NAGA-BGA208-C3-TR	06/15/2017	32,149
						NAGA-BGA208-C3-TY	06/15/2017	32,149
						NAGA-BGA208-C6-TR	06/15/2017	21,433
						NAGA-BGA208-C6-TY	06/15/2017	21,433
						NAGA-BGA208-13-TR	06/15/2017	32,149
						NAGA-BGA208-13-TY	06/15/2017	32,149
						NAGA-BGA208-16-TR	06/15/2017	21,433
						NAGA-BGA208-16-TY	06/15/2017	21,433

Supply Flushed to all potential finished good items

RollDown Validation

Process	Attribute Set	Item#	Version	Released	Material Cost	Sold Yield	Cumulative Std Cost	Entered Std Cost	Variance	Update
FAB-TSMC/1	ARGUS-W/1	ARGUS-W								
FAB-TSMC/1/ARGUS-W/1/ARGUS-W		WAFER	1550.0000	0.0000	0.0000	100.0000	1550.0000	1550.0000	0.0000	
SORT-TSMC/1/ARGUS-S/1/ARGUS-S		DIE	0.2500	0.0000	0.0000	90.0000	8.8889	8.8889	0.0000	
ASSY-ASE/1/ARGUS-QFP216/1/ARGUS-QFP216		EACH	1.5000	0.0000	6.0000	98.0000	16.7234	16.7234	0.0000	
TEST-STATS/1/ARGUS-QFP216-C/1/ARGUS-QFP216-C		EACH	0.3000	0.0000	0.0000	90.0000	19.1372	19.1372	0.0000	
PACK-STATS/1/ARGUS-QFP216-C-TR/1/ARGUS-QFP216-C-TR		EACH	0.0300	0.0000	0.0000	100.0000	19.1672	19.1672	0.0000	
PACK-STATS/1/ARGUS-QFP216-C-TY/1/ARGUS-QFP216-C-TY		EACH	0.0200	0.0000	0.0000	100.0000	19.1572	19.1572	0.0000	
TEST-STATS/1/ARGUS-QFP216-I/1/ARGUS-QFP216-I		EACH	0.6000	0.0000	0.0000	90.0000	19.2483	19.2483	0.0000	
PACK-STATS/1/ARGUS-QFP216-I-TR/1/ARGUS-QFP216-I-TR		EACH	0.0300	0.0000	0.0000	100.0000	19.2783	19.2783	0.0000	
PACK-STATS/1/ARGUS-QFP216-I-TY/1/ARGUS-QFP216-I-TY		EACH	0.0200	0.0000	0.0000	100.0000	19.2683	19.2683	0.0000	
ASSY-AMKOR/1/ARGUS-BGA216/1/ARGUS-BGA216		EACH	8.0000	0.0000	0.0000	98.0000	17.2336	17.2336	0.0000	
TEST-AMKOR/1/ARGUS-BGA216-1/1/ARGUS-BGA216-1		EACH	0.6000	0.0000	0.0000	90.0000	19.8151	19.8151	0.0000	
PACK-AMKOR/1/ARGUS-BGA216-1-TR/1/ARGUS-BGA216-1-TR		EACH	0.0300	0.0000	0.0000	100.0000	19.8451	19.8451	0.0000	
PACK-AMKOR/1/ARGUS-BGA216-1-TY/1/ARGUS-BGA216-1-TY		EACH	0.0200	0.0000	0.0000	100.0000	19.8351	19.8351	0.0000	
TEST-AMKOR/1/ARGUS-BGA216-C/1/ARGUS-BGA216-C		EACH	0.3000	0.0000	0.0000	90.0000	19.7040	19.7040	0.0000	

Standard Cost RollDown
Validation Yielded cost
rolldown through IBOM for
unlimited versions of
standard cost

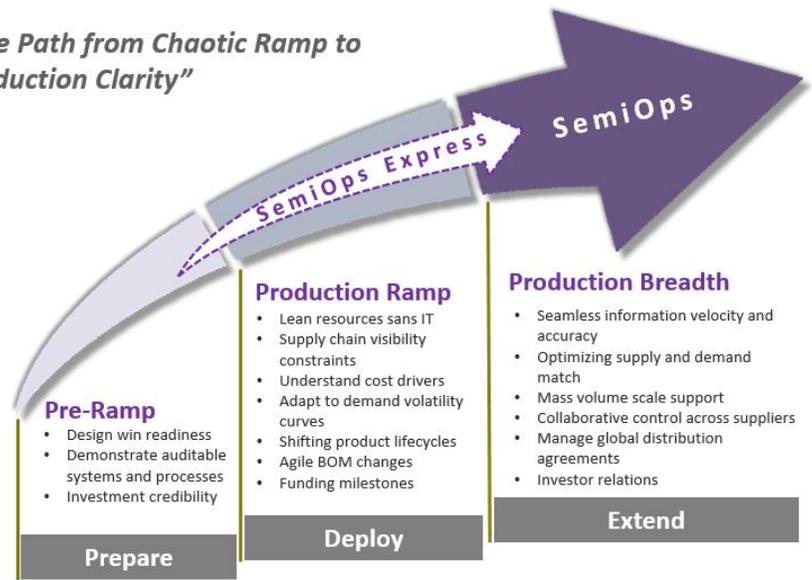
Proven Scalable Solution Built for Semiconductor Industry

Customer Experience

“Tensoft and FSM has given us that foundation to be able to continue with the on time delivery with the supply chain management and execution, and also to scale as we grow, which is an essential piece.”

– Tim Heenan,
VP of Production of Operations,
ClariPhy Communications

“The Path from Chaotic Ramp to Production Clarity”



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.

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.

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.

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.

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