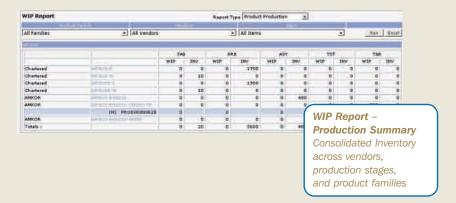
Tensoft.

Fabless Semiconductor Management™

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, complete lot and product attribute tracking, all fully integrated with planning, customer service, and ERP.



1/01/2000 12/31/	CT SALE		Report Type Yield by Attribute Set							
D01/2000 [140/31)	200s								Ren	Brod
Photo Settino III	Own	of Dam	Completion St.	In Qty	Out Qty	Yld Loss	Vnd Loss	Ope Yld	ner mere	Variance
DVS-806036/5	ARQ	US-BGA216		1600	1500	0	20	99.00%	99.75%	0.25%
CH800024 PRO CH87000024 PRO		qus-e		4000	3400	600	0	00.00%	85.00%	-5.00%
			03/20/2006 03/20/2006	2000	1600	400 200	0	80.00%	80.00% 90.00%	
		us-w	90	90	0	. 0	100.00%	100.00%	0.00%	
		Ahgusz-s			1900	100	0	90.00%	95.00%	-5.00%
60/62-9976	ARG	U82-W		40	40	0		100.00%	100.00%	0.00%
		\		6195	5688	472	25	56.25%	91.96%	-35,71%
Yield Analysis by Product Family Yield analysis by product, product family, part, vendor, lot, and		BY.	20351	19759	491	101	97.00%	97.09%	-0.09%	
		MOS	4235	4004	112	119	99.00%	94.55%	4,45%	
		MOS-SRT		647	691	- 11		100.00%	97.52%	2.47%
		EMG		4110	3633	278	208	95.00%	88.20%	6.80%
		гь		23088	21131	1076	81	100,00%	91.92%	0.40%
	Alysis by Family lysis by produmily, part,	And	ARQUE-BARISE ARQUE-BARISE ARQUE-BARISE ARQUE-BARISE PRODOCOCCOSES ARQUE-W ARQU	ARGUS-BAZSE ARGUS-P ARGUS-P ARGUS-P ARGUS-P ARGUS-P ARGUS-P ARGUS-S ARGUS-S ARGUS-S ARGUS-S ARGUS-S ARGUS-W ARGUS-W	### #### #############################	### ### ### #### #####################	ARQUE-BAJIS 1600 1200 0 ARQUE-BAJIS 1600 1200 0 ARQUE-BAJIS 1600 1000 1000 1000 1000 1000 1000 100	ARQUE-BGAZIS 1600 1500 0 20 ARGULI-P 4000 3400 600 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ARQUE-W 4000 1900 0 20 99.00% ARQUE-W 2000 1900 1600 0 0 0 00.00% ARQUE-W 2000 1900 100 0 0 0 0 0.00% ARQUE-W 2000 1900 100 0 0 0 0.00% ARQUE-W 2000 1900 100 0 0 0.00% ARQUE-W 2000 1900 100 0 0 0.00% ARQUE-W 40 40 0 0 100.00% ARQUE-W 40 40 0 0 0 100.00% ARQU	ARQUE-W 4000 1900 0 20 99.00% 98.75% 1000 100 0 00.00% 98.75% 1000002 1000002 1000002 1000002 1000002 1000002 1000002 1000002 100000013 1000002 10000013 100000013 100000013 100000013 100000013 100000013 100000013 100000013 100000013 100000013 100000013 100000013 1000000013 1000000013 1000000013 1000000013 1000000013 100000000

Completion Dat		Attrib Set/Rev	Resulting Item No	Responsible Compan	TSMC TW F1		
07/26/2004 FAB-TSMC/1 Collected Attribute		R5000/1	R5000	TSMC	25	25	
			ite Name		te Value		
		Wafer Lot Vnd Lot Wafer Size Mask Set ID Proc Flow ID		TS984801 TS984801 12 inch MSK-R5000 ver A PRC FB R5000 ver A			
Completion Dat		Attrib Set/Rev	Resulting Item No	Responsible Compan			
08/06/2004	SRT-ASE/1 d Attribute	R5000-P/1	R5000-P	ASE	ASE KS	5000	4536
		Vnd Lot Test Prog Test Temp Proc Flow ID		ASP424423 TST PRB R5000 ver B ROOM PRC PB R5000 ver A			
Completion Dat	THE RESERVE OF THE PARTY OF THE	The second secon	Resulting Item No	Responsible Compan			NAME OF TAXABLE PARTY.
08/19/2004	ASY-ASE/1	R5000-BGA249/1	R5000-BGA249	ASE	ASE KS to Value	2036	2013
		Vind Lot Disto/Trace Code BOM ID Mass ID Mark Spec ID Num of I/O Pkg Outline Pkg Type Proc Flow ID Sub-LE ID Sub-LE ID Environ Type	554 (CATI)	ASA421607.2 2004W33 BCM R5000 BGA249 4 ASSY MR R5000 BGA2 MRK BGA ver E 249 23 × 23 BGA PRC ASY R5000 BGA BGA249 SUB ver C Lead-Free	er B 49 ver C	Product (Lot and u production tracking, t	nlimite n attrib



SOLUTIONS FOR THE FABLESS INDUSTRY

Streamlines Business Processes

E

N E

T S Lot routing, procurement, and inventory valuation are integrated into one transaction flow, eliminating unneeded steps and streamlining the overall outsourced manufacturing process.

Supports Semiconductor Manufacturing

Production models are based on an inverted BOM and many to one production model. Multiple production models, yield and cycle time requirements, binning and multiple package options, as well as downgrades and rework, are all fully 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.

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Tensoft™ **Fabless Semiconductor Management (FSM)**

Industry-Specific Manufacturing, Supply Chain, and Logistics Management

FEATURES OVERVIEW					
Operation Cycle Time Management	Ability to track cycle time data by product, vendor, production step, and product variables for detailed sorting and analysis.				
Streamlined Processes	Integrated procurement, production, and lot routing business processes, to streamline management of outsourced production.				
Operations Yield Management	Ability to track yield data by product, vendor, production step, and product variables, for detailed sorting and analysis.				
Vendor Integration	Automated updates from vendors and contract manufacturers to status WIP and inventory, and for real-time analysis of vendor data. Enables improved data quality and supports on-time delivery.				
Lot Routing (Split/Merges, Genealogy)	Track wafer lot, vendor lot, and internal lot at every step of the production process. Maintain and track complete lot history, product identification and process genealogy, for forward and backward tracking. Fully supports lot splits and merges.				
Semiconductor Production Model	Support for multiple units of measure including input, output, and procurement. Built around the concept of the inverted bill of materials. Support for genealogy, and multiple packaging options.				
Multi-Chip Module	Support for multiple die in one package. Includes indented genealogy and consigned material consumption management for tracking substrate lots or other production materials.				
Re-work, Re-Screen, Re-Test	Supports test analysis and production enhancement, reclamation and bonus processes, as well as re-test and re-screen production processes. Captures detailed scrap and yield information, quarantine material, and variances.				
Fully Auditable	Tracks and saves a complete process history of every vendor and production step, including detailed product and production information by step.				
Easy Integration	Full integration with planning and forecasting modules. Flexible integration options for integration success, providing benefits such as a closed loop proces for 3-way match of order to approved production completion, to vendor invoice, and production pay-points fully integrated with payables process.				

