

IntraStage BlackBelt Analytics

Digital Transformation for the Factory of the Future

IMPROVE YOUR PRODUCT QUALITY, INCREASE YOUR THROUGHPUT

Enable your Manufacturing, NPI, Quality, Supplier, and other teams to collaborate on your product performance throughout its full lifecycle.

DRILL-DOWN

Take advantage of world-class analytics to drill-down from high-level yield or quality issues to the individual performance issues on HLAs, LLAs, or subcomponents

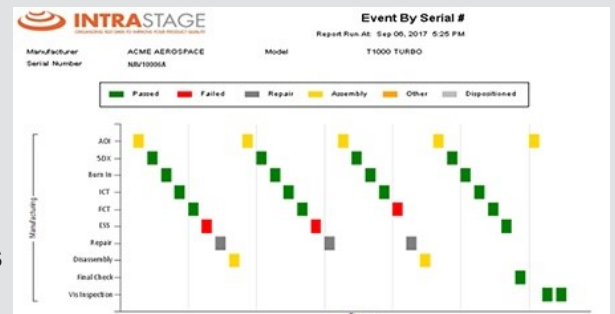
MANAGE BY EXCEPTION

With user-specific dashboards, alerts, subscriptions, notifications and workflows, give your teams the tools they need to stay ahead of yield and quality issues, and resolve them before they become line-stopping problems

Seamlessly Incorporate Data From Your Manufacturing Processes

Using our prebuilt adapters or customer converters, incorporate performance and process data from across your enterprise, without having to disrupt your manufacturing line or change the outputs or manufacturing process

Give your engineers full lifecycle traceability on your Products. Drilldown to failure, SPC, or yield issues on your final product, subassemblies, or even individual components



HLA Serial Number history report with link to LLAs

Open 3rd Party Integration

In addition to our pre-built reports and analytics, the BlackBelt system allows secure access via 3rd party tools like PowerBI, Excel, Minitab, MatLAB, and other industry-standard data visualization tools. Give your engineers the normalized data they need to unlock new insights and value.

Complex Manufacturing Data Redefined

Gather the parametric and process details that drive quality. From FCT, ICT, Burn-in, Calibration, Paperless Forms, Waveforms, and other types of data critical to complex electronics manufacturing, normalize your product performance details in the same data warehouse. Give your users from NPI, R&D, Quality, Operations, Manufacturing, and Supplier Quality the same single source of truth on quality and yield.

INTRASTAGE		WIP & Cycle Times						
LLA Starting Stages: MOD_101,MOD_102,MOD_103		Report Run At: Oct 24, 2019 3:44 PM						
HLA Starting Stages: NAV_100		LLA Ending Stages: NAV_100_ASM_F0						
		HLA Ending Stages: NAV_100_HLA_F0						
Model	Part Type	Number of Orders	Total Assemblies	Completed Assemblies	Avg Cycle Time (in Days)	Min Cycle Time (in Days)	Max Cycle Time (in Days)	Scrapped Assemblies
NAV-102		2	12	10	17.04	2.88	28.13	
		Order Number	Total Assemblies	Completed Assemblies	Avg Cycle Time (in Days)	Min Cycle Time (in Days)	Max Cycle Time (in Days)	Scrapped Assemblies
		150-2201	2	1	2.88	2.88	2.88	0
		150-2202	10	9	18.61	3.58	28.13	0
NAV-101	HLA (Instrument)	10	114	108	19.37	2.46	238.50	
NAV-103	HLA (Instrument)	46	1584	1464	14.85	0.08	361.21	
GP-132		1	2	1	919.00	919.00	919.00	
GP-331	PCBA	33	1337	1286	7.82	1.21	26.71	
GP-135	PCBA	11	172	167	7.17	0.63	358.46	
GP-134A	PCBA	37	1570	1445	6.87	0.71	27.83	
GP-136	PCBA	1	20	19	36.77	5.96	97.50	
GP-137	PCBA	9	350	347	7.68	1.42	252.46	
GP-139	PCBA	39	3023	2929	7.44	1.13	155.13	

WiP and Cycle Time



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ENTERPRISE INTEGRATION

Using our API and enterprise integration tools, push performance details to enterprise systems like ERP, MRP, and MES. Pull attribute information like BOM, MES steps, and supplier/logistics information to understand the full picture of quality

COTS SOLUTIONS

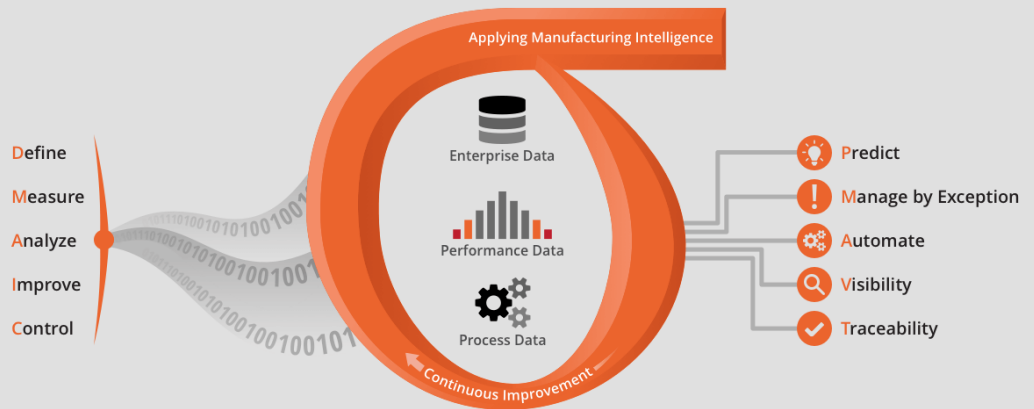
Deploy IntraStage as an on-site VM or server, or utilize our Cloud environment. Use our prebuilt adapters, converters and paperless forms to start aggregating and analyzing test data immediately.

DEMO YOUR DATA

[Contact us](#) to receive a demo with your data.

For more information on any of our products or services please visit us on the Web at:

www.intrastage.com



Apply Manufacturing Intelligence

Apply SixSigma methodologies by fully utilizing your manufacturing data. Unlock the digital performance thread that gives you insight to improve quality and yield

World-Class Analytics

With pre-built and off the shelf reports that focus on both the parametric details and the high-level process performance of your electronic manufacturing, your engineers can quickly view issues and respond more quickly to potential problem spots. Due to real-time and historical access to all your product test data, you can visualize trends, SPC data, and measurement characterization to reduce product rework, retest, test cycles, and bring faster response to complex hidden product problems.

Drive Key Performance indicators and drilldown analytics like:

- ◆ SPC Analytics (including Cp and Cpk, X-BarR, Box and Whiskers charts, and WECO)
- ◆ Gage R&R studies
- ◆ Measurement Characterization
- ◆ Work In Progress (WiP)
- ◆ Boneyard
- ◆ Drill-down Paretos at the Product Line, Part/Model, Process, Event, Test and Measurement level
- ◆ Limit/What If Simulation
- ◆ Yield Reports at the Product Line, Part/Model, Process, Event, Test, and Measurement level



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