



USING PRODUCTION DATA SMART

PIA INDUSTRIAL APP SUITE

Digitally mastering challenges in assembly line
operation and optimization.



PIA INDUSTRIAL APP SUITE

THE DIGITAL PACKAGE OF THE FUTURE

The PIA Industrial App Suite (piaIAS) is a modular software package and contains smart apps, to meet the challenges of assembly line operation and optimization. In developing the apps, the knowledge of custom machine builders – especially the know-how of PIA Automation – and customers from a wide range of industries were combined. It is thus a digital solution portfolio, that is perfectly aligned with customer requirements. Assembly and test systems can be analyzed worldwide, their weak points localised and their productivity optimised. It doesn't matter whether it is a single station or a complex interlinked assembly line locally on site or remotely at another location.

PIA's smart tools address different user groups with their features: They provide e.g. information for line workers, evaluations for shift managers and the maintenance team, or reports for management. All apps share the following advantages: (1) Increasing the degree of digitalisation of production, (2) future-proofing thanks to modular, expandable design, and (3) reduction of travel through location – and device-independent access.



THE 3 LEVEL OF SUCCESS



	WHAT KEY FIGURES (KPI, OEE) CALCULATE		WHERE POTENTIAL FOR IMPROVEMENT LOCALIZE	HOW OPTIMISATION OPPORTUNITIES ANALYSE		
	piaMonitor	piaOEEtracker	piaBottleneck	piaOEEtracker	piaAnalyze	piaOptimum
	VISIBILITY BOX*			AVAILABILITY	QUALITY	EFFICIENCY
TARGET GROUPS	Production manager, Operator	Production Manager	Production Manager	Production Manager	Quality Manager	Production Manager, Optimisation Team
KEY- FEATURES	Dashboard for production data	Calculation and visualisation of the Overall Equipment Effectiveness	Visualisation and localisation of assembly line bottlenecks	Classification of errors, process disturbances and process interruptions	Analysis of measurement and process data	Analysis of cycle times and sub cycles
BENEFITS	Increasing the information base (transparency) through a global and flexible asset insight in real time	Reduction of costs due to the ability to react quickly to changes of key figures	Reduction of costs due to less time and personnel needed to locate bottlenecks	<ul style="list-style-type: none"> - Increase of availability at line and station level - Increase in output by avoiding standstills - Efficient use of existing assembly line capacity 	<ul style="list-style-type: none"> - Increase in the quality of production - Reduction of costs by avoiding rejects or increasing the OK rate - Avoidance of rework and thus increase in assembly line profitability 	<ul style="list-style-type: none"> - Increase in efficiency, output and thus assembly line profitability - Reduction of cost through earlier production start (short ramp-up phase) - Support of optimisation measures during operation

* Basic package: Basis for the use of the analysis tools



PIA BRANCHES

PRODUCTION, MEASURING AND TESTING SYSTEMS FROM A GLOBALLY ACTIVE AUTOMATION SPECIALIST

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