

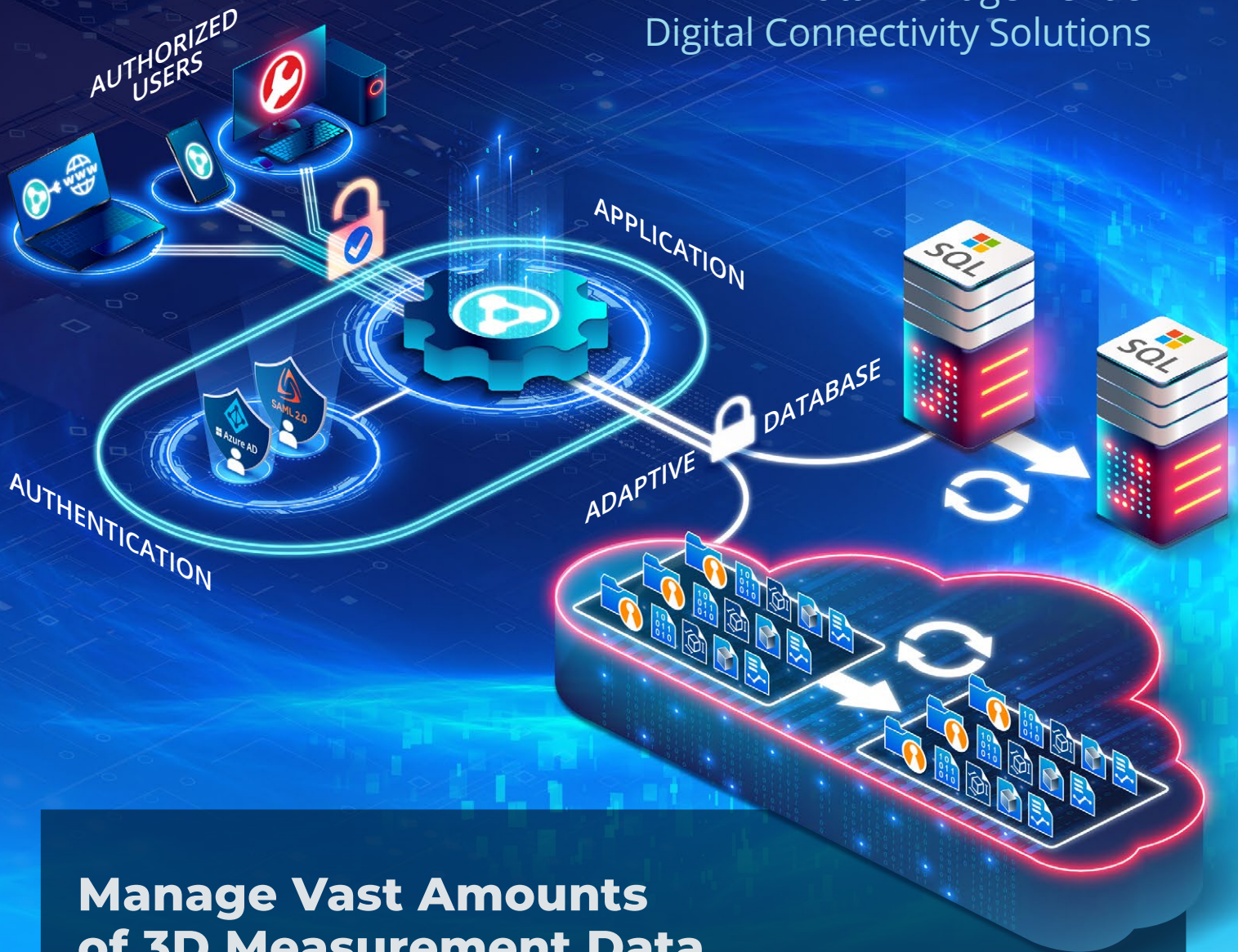
What's new in



PolyWorks

DataLoop™ 2024

Data Management &
Digital Connectivity Solutions



Manage Vast Amounts of 3D Measurement Data Efficiently Using Cloud Storage

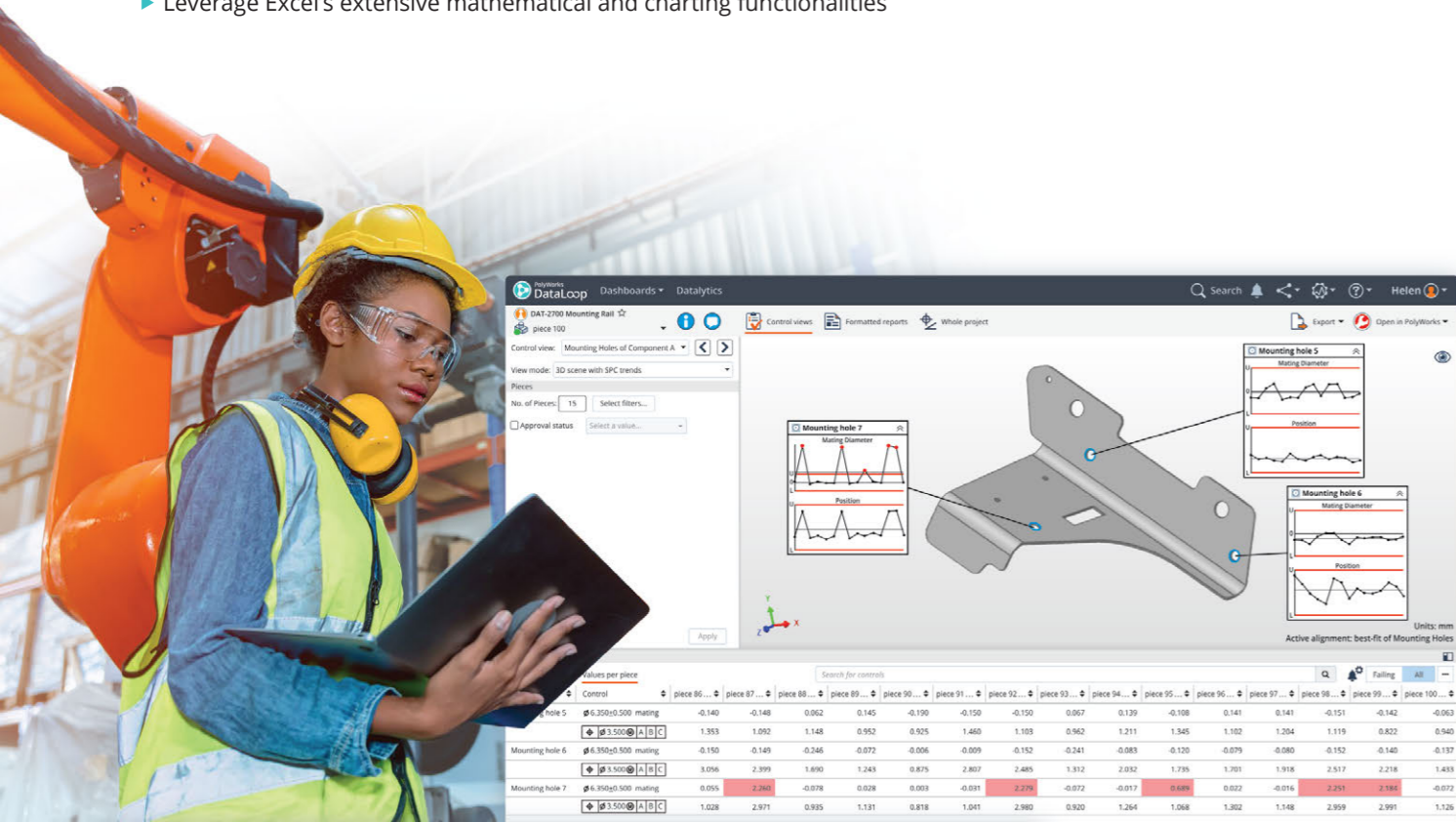
PolyWorks | DataLoop™ 2024 allows you to leverage the full benefits of cloud storage:

- ▶ Set up a highly scalable infrastructure that adapts instantaneously to your storage needs
- ▶ Replicate data files automatically across multiple data centers to ensure reliability
- ▶ Deploy a cost-effective storage solution without compromise

Create Custom Web-Based Views of the 3D Measurement Database

Review 3D measurement results in a standard Web browser through our extensive set of standard and special-purpose widgets created within Excel:

- ▶ Display the 3D measurement results of one or multiple pieces horizontally
- ▶ Create an unlimited number of widgets within a dashboard
- ▶ Leverage Excel's extensive mathematical and charting functionalities



Line Monitoring

Hole Position Trends

Position Scatterplots

Top Ten Ppk Issues

#	Object	Control	Ppk	Mean	Range
1	Angle of circular slot	3D Angle 1	0.022	-0.496	0.198
2	Internal angle upper and lower flange	3D Angle 2	1.830	-0.747	0.594
3	Flange Thickness 2	3D Distance	3.236	-0.195	0.131
4	Step Height	Z Distance	5.405	-0.178	0.016
5	profile 4	A Rad	7.961	-0.199	0.056
6	profile 3	A Rad	13.282	-0.105	0.046
7	Flange Thickness 1	3D Distance	14.489	-0.109	0.037
8	profile 2	A Rad	15.112	-0.199	0.027
9	profile 1	A Rad	15.967	-0.160	0.030

Ppk Analysis

Ppk < 1	# / 13	%
Ppk < 1	1	8%
1 > Ppk < 1.33	0	0%
1.33 > Ppk < 1.67	0	0%
Ppk > 1.67	12	92%

Documentation Slide Deck

Non-Conformance Report (Latest)

MACHINING EXPERTS INC

Non-Conformance Report

PSB Number: 16723.8 PA or TA Number:
DBS Number: 04720
Report Number: 572

Detect and Resolve Manufacturing Issues as Soon as They Occur

The PolyWorks | DataLoop Web Interface facilitates your root cause analyses by quickly highlighting problematic trends and providing statistical analyses of association. With version 2024, you can:

- ▶ Determine whether your processes are in control and stable using our native capability analysis toolbox, which now includes normal probability plots
- ▶ Analyze the distribution of measurements compared to the expected values using a t-test to determine if the measurements are significantly different than expected

Control 22.557 +/- 0.030 Height - Length

The analysis detected a significant difference between the sample values and the target values for at least one factor category.

- The test results should be accurate.
- The samples are large enough to perform the analysis.
- The factor Tooling # was analyzed.
- A one-sample t-test was performed using a target mean value of 22.5681.
- A one-sample standard deviation test was performed using a target standard deviation value of 0.0125.

The one-sample t-test found that there is a statistically significant difference between the sample mean of the factor (22.5633) and the target mean (22.5681).

The one-sample standard deviation test found that there is no statistically significant difference between the sample standard deviation of the factor (0.0108) and the target standard deviation (0.0125).

The target values fit curve was plotted by using the target mean and target standard deviation with values from 22.5119 and 22.6243.

Root cause analysis

Analyze if the factor

Tooling #

is associated with the quality indicator

Magnitude of measurements

in these controls:

Gauge Measurements

The one-sample t-test found that there is a statistically significant difference between the sample mean of the factor (22.5749) and the target mean (22.5681).

The one-sample standard deviation test found that there is a statistically significant difference between the sample standard deviation of the factor (0.0087) and the target standard deviation (0.0125).



Precisely Configure Accesses to your Data Management System

Security policies allow manufacturing organizations to control who can access data and what can be done with it. Version 2024 allows PolyWorks|DataLoop users to:

- ▶ Implement data access policies by assigning distinct storage spaces to different departments, business areas, or external suppliers
- ▶ Define security policies efficiently by creating new policies based on existing ones and enriching them with specific permissions



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