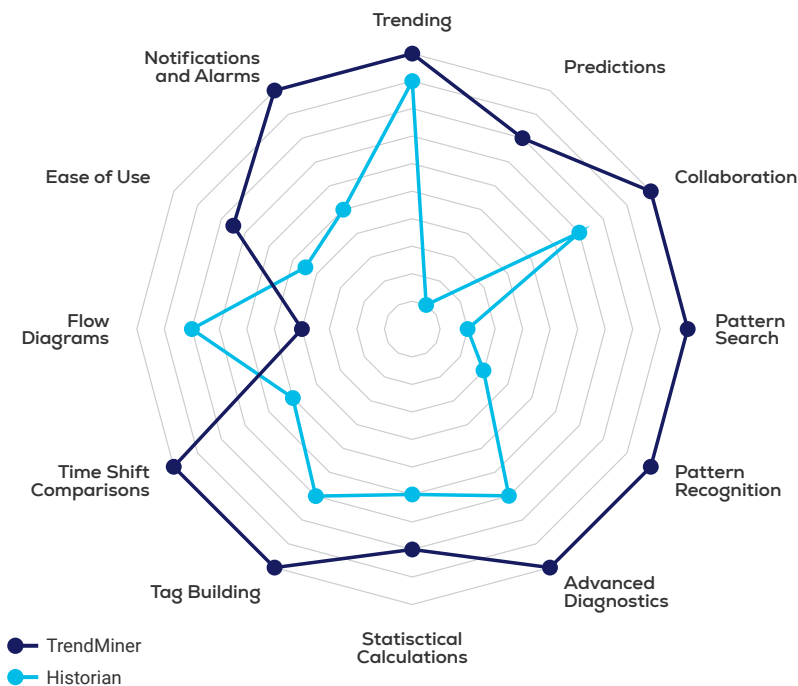


TrendMiner at a Glance

TrendMiner is a high-performance self-service industrial analytics platform that fully leverages your time-series and contextual data. It enables process optimization through its enhanced functionality for process monitoring, troubleshooting, and out-of-the-box problem solving. With TrendMiner, you can easily search for trends and question process data yourself to get the answers you need, when you need them, without help from a data scientist.

TrendMiner Adds Value to Historian Tooling



This diagram is used by our customers to communicate TrendMiner benefits vs the status quo commodity analytics tools provided by historian vendors. Most often, not all of the commodity analytics capabilities are utilized due to the difficulty in learning the software.

How TrendMiner Works

Pattern Search/Recognition: TrendMiner enables you to find similar patterns in the past using patented pattern recognition technology. The most important part of the pattern can be emphasized with a graphical weighting factor to improve accuracy of the search results. TrendMiner's search capability can be used to find and overlay the optimal dynamic behavior, such as your best batches, transitions, start-ups, etc. With a click of a button, multiple periods representing the best performance can be combined into an envelope, or fingerprint. This fingerprint can then be used for process monitoring purposes and early warnings.

Advanced Diagnostics: Among TrendMiner's unique patented technologies, the recommendation engine gives suggestions for correlations (and fingerprint deviations) based on selected time frames, tags and layers. It provides an almost instant analysis across all indexed tags, combining information from multiple similar situations to avoid false correlations. It helps detect early indicators of deviating behavior using automatic time shifts.

Tag Builder: TrendMiner allows you to create tags through use of formulas on and aggregations of tags of time series patterns. The results of these tags can be visualized just like any other tag.



Visualize

Save time with immediate access to all process data resulting in speed optimized plotting, filtering, and overlaying.



Search

Mine thousands of sensor readings in a split second. Troubleshoot problems by quickly finding similar behaviors, operating regimes, product switches, correlations, and drifts.



Diagnose

Resolve unsolved cases by comparing patterns and events. Generate and test hypotheses. Discover influence factors in your process.



Analyze

Investigate process operations and relationships, find root causes and iterate hypotheses faster than in any other tool.



Monitor

Avoid abnormal situations and automate routine data study through 24/7 monitoring of user defined patterns and process deviations.



Predict

Become proactive not reactive by predicting process performance based on process performance history.