

OpreX™ Data Model Broker

Design Diagram Converter

2D CAD-
drawn P&IDs

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Various lists
such as for
instrumentation

P&ID data in
international
standard format

Value Proposition

OpreX Data Model Broker is a plant data transformation platform that can generate structured data related to equipment and process control components and their connection relationships through ontology technology used in AI.

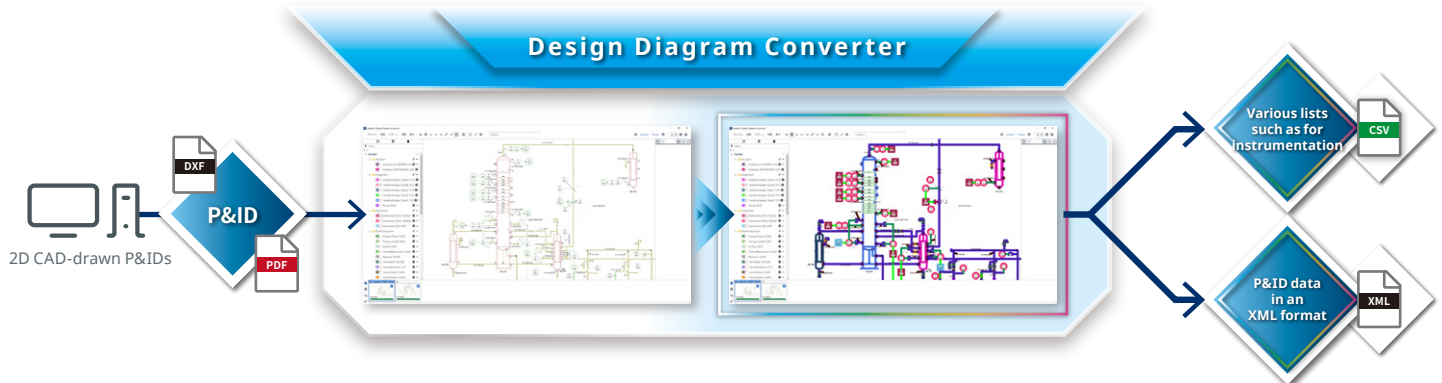
Design Diagram Converter provides the following benefits by converting 2D CAD-drawn P&IDs into a machine-readable data format:

- Generate various lists, such as for instrumentation, and P&ID data in international standard format automatically
- Adjust the automatic conversion rules straightforwardly
- Promote the use of P&ID data across systems

Key Features

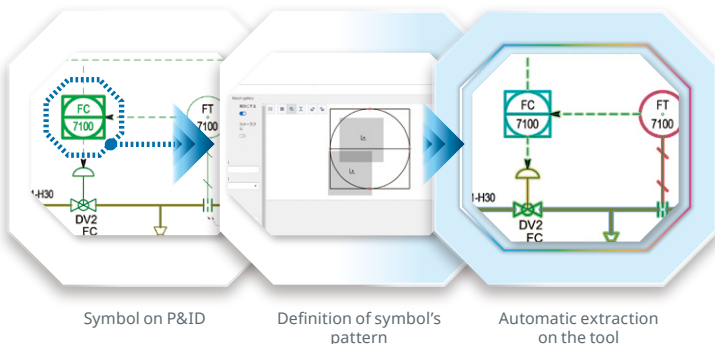
Design Diagram Converter converts 2D CAD-drawn P&IDs to a machine-readable data format and automatically generates various lists such as for instrumentation. It also saves manual work and reduces human errors, thereby improving the quality and consistency of documentation.

Furthermore, users can export P&ID data in an XML format conforming to the international standard ISO15926. Importing data into other systems enables integration and collaboration across systems, promoting the use of data for engineering transformation.



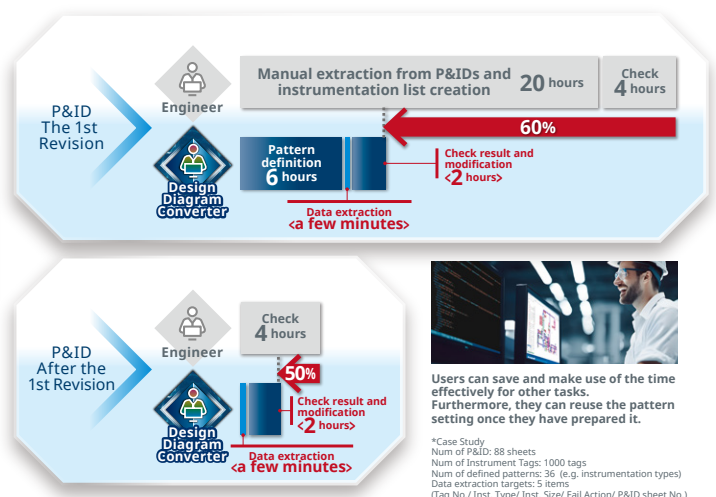
High Recognition Accuracy (Pattern Matching)

It creates a pattern using shapes in a P&ID. The conditions are defined for the shapes to be detected and the parts that make up the shapes, as well as the settings for the connection relationships with other detected shapes, etc. to the created pattern. Users can freely adjust the pattern settings and generate a list with high extraction accuracy.



Save Time and Cost (Instrumentation List)

Users can create an instrumentation list up to 60% faster than traditional manual listing. In addition, there is no need to create a pattern after the first, and only checking is required.



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