

# DRAWER USE CASE

# By reducing internal silos, profits can be insured even under rapid inflation

## Issue

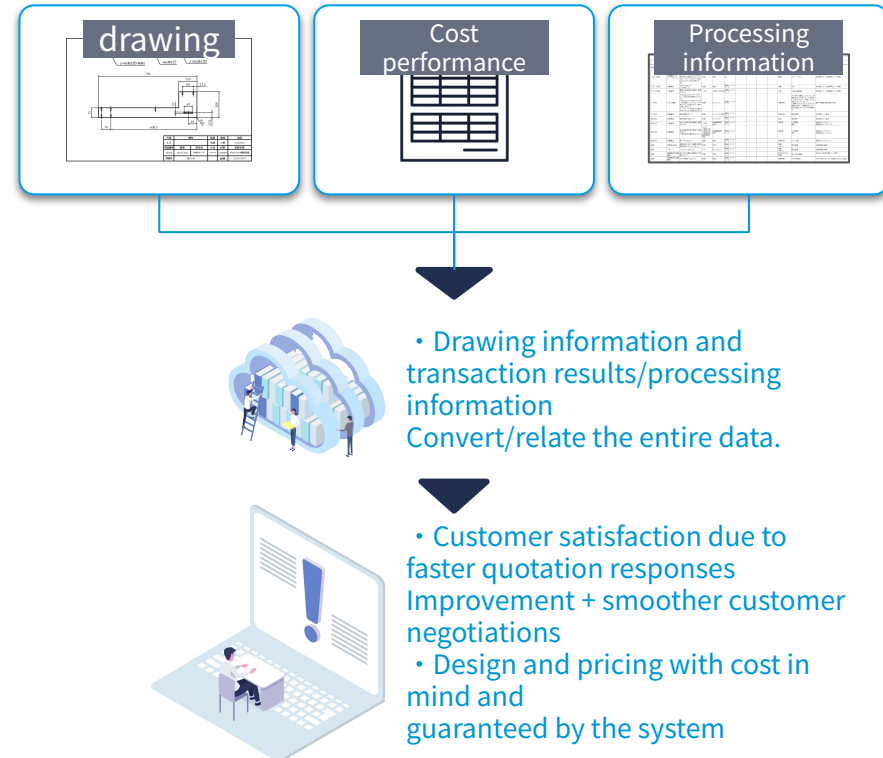
- Administrative work and price negotiations take time.
- The transition to a cost-conscious design and sales organization is slow.

## Solution

Instantly narrow down past similar products/proposals based on product shape, extract transaction history and processing information, and use it for design/pricing.

## Effect

- Speeding up price negotiations with business partners
- The design/sales department can easily carry out work while keeping costs in mind for each project.



# Streamline regulatory compliance work that has to be done from scratch each time

## Issue

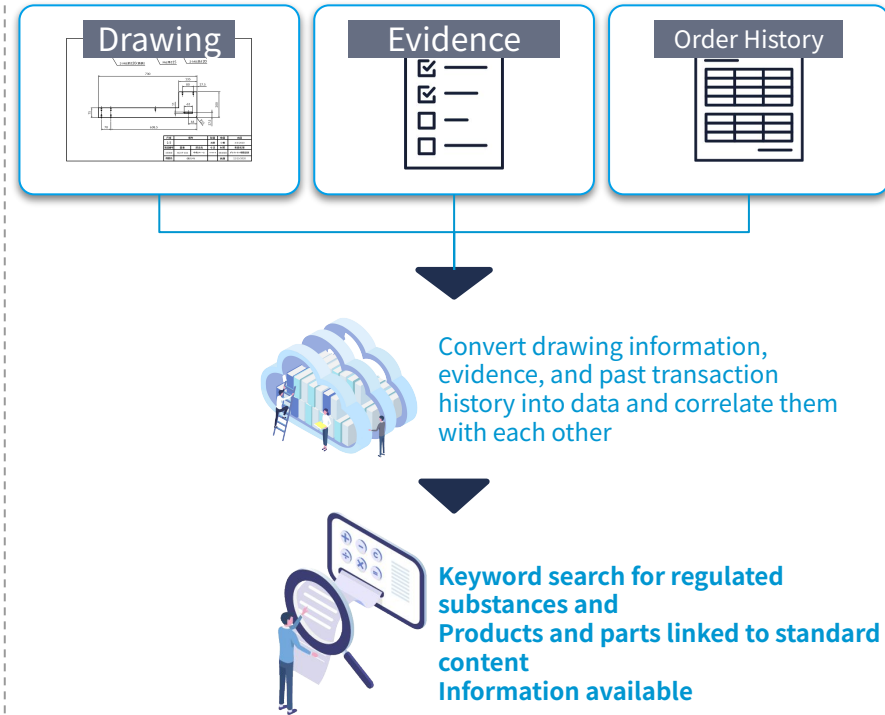
Difficult to deal with various regulations/standard changes that occur irregularly. A large number of drawings and specifications were identified by hand to confirm the impact.

## Solution

Search for regulations and standards by keyword search.  
Extract linked drawings and specifications in bulk,  
Streamline confirmation/response work

## Effect

Shift to efficient operations that do not rely on visual inspection  
Eliminate the burden of other important matters that occur due to domino effects caused by sudden responses.



# Improving the efficiency of horizontal deployment of corrective measures for defects and nonconformance

## Issue

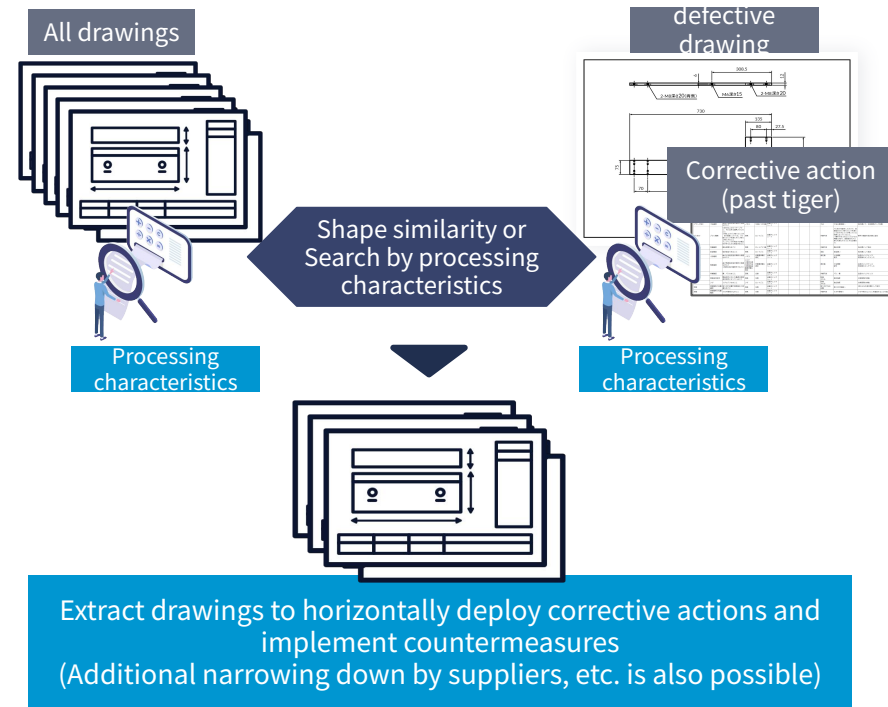
When taking corrective action for defects,  
Difficult to fully execute horizontal deployment  
(Failure to eliminate risk of defects)

## Solution

List all drawings that had defects.  
Search for items that include  
processing characteristics,  
Automatically extract drawings for  
horizontal deployment

## Effect

Reduce the time required to search for  
horizontal deployment destinations,  
Suppressing the risk of defect  
occurrence



# Instantly identify past similar drawings to reduce price variations

## Issue

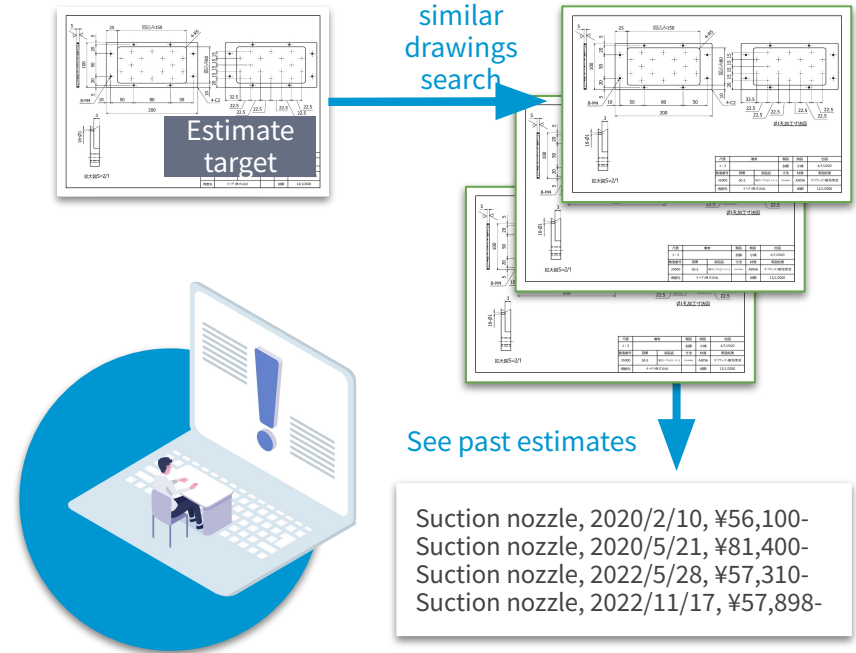
Work is concentrated on veterans, resulting in a chronic lack of time and personal responsibility. There is no mechanism to control price fluctuations

## Solution

Instantly identify past drawings (from keywords and similar shapes on drawings) that can be referenced for processing time/equipment used/price etc.

## Effect

Even unskilled employees can utilize the knowledge of veterans, improving their skills and reducing price variations.



# Significantly improve the efficiency of quotation work and use the freed time for dialogue with customers

## Issue

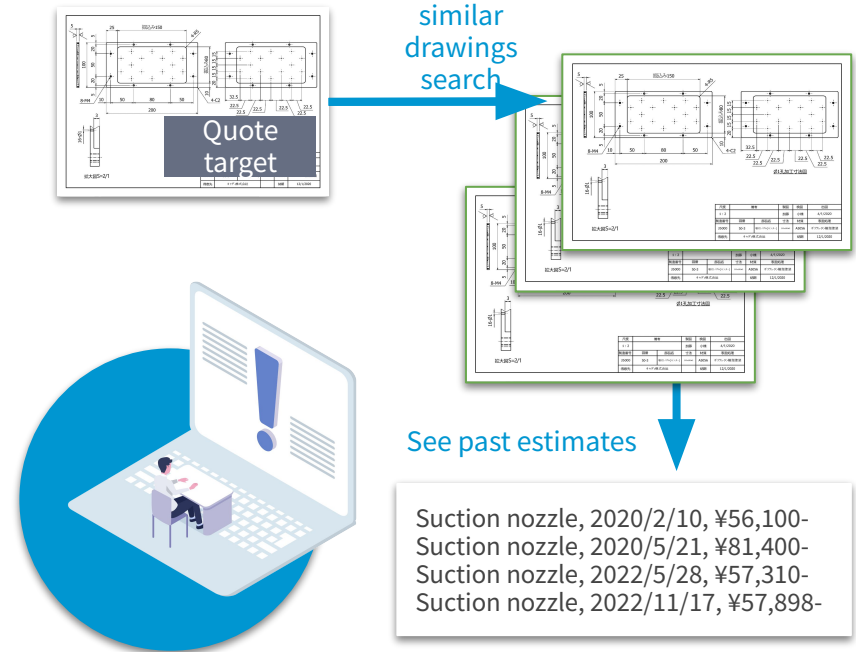
We also rely on experienced personnel for work such as quotations. As an organization, the amount of dialogue with customers decreases due to time spent on creating quotes, etc.

## Solution

Immediately identify past drawings (from keywords and similar shapes on drawings) that can be referenced when responding to estimates, greatly improving work efficiency.

## Effect

Create accurate quotes in a short time backed by past know-how. Enables work allocation that emphasizes dialogue with customers



# Semi-automated drawing inspection recommendations for new/mid-career employees



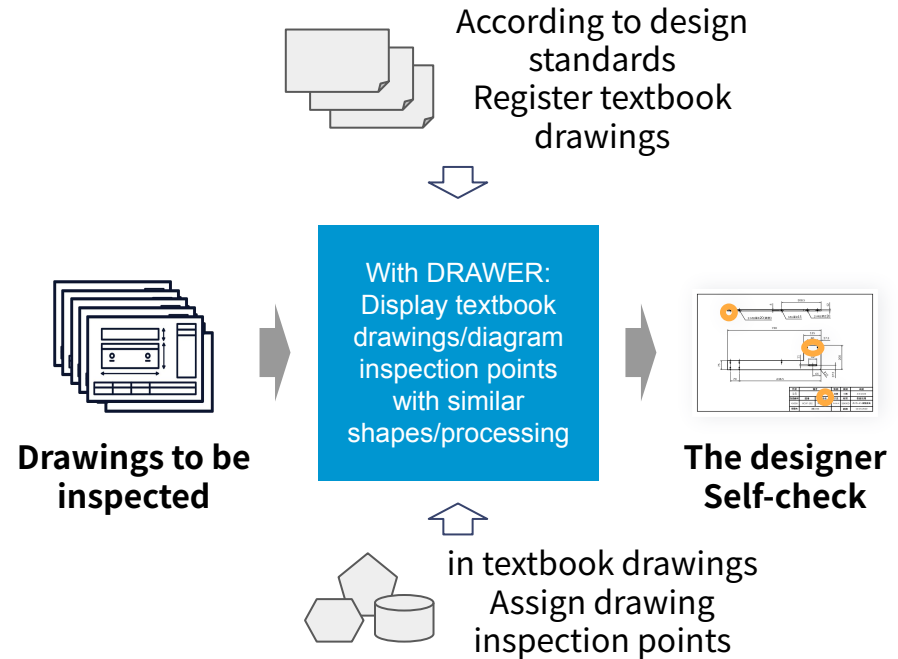
For inspection and guidance of new/mid-career employees  
Veteran man-hours are taken away



Textbook drawings and inspection items are automatically displayed for drawings to be inspected, allowing designers to self-check.



Reduces the number of man-hours required by experienced engineers to inspect drawings.  
Significant reduction in time saved for designing other models and developing new designs.



# Simultaneously reduce drafting man-hours and manufacturing costs by creating new drawings

## Issue

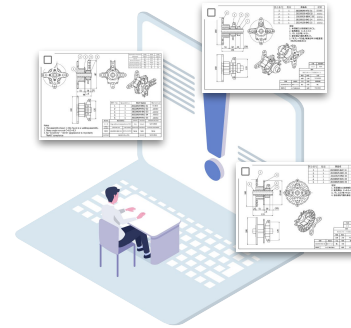
The creation of similar new drawings is not controlled, and it is not possible to reduce man-hours not only in design but also in the manufacturing department.

## Solution

Register past drawings in DRAWER, Product shapes and required specifications are similar Search drawings and compare instantly

## Effect

Dramatically reduce the time spent searching for drawings, allowing you to focus on products that require new drawings from scratch. Reduced time for processing verification and development of jigs and molds



## Design

Search for similar past drawings  
└ Identical → Not made  
└ Similar → Create with reference  
└ No similar → New drawing from scratch



## Manufacturing

Processing verification time required for each new drawing has been reduced.  
Reduces jig and mold development required for processing



# Compare prices of similar projects side by side

## Issue

Promoting cost control through supplier selection and price negotiations

## Solution

Link past drawings and order information.

Compare projects that are similar to the drawings in terms of shape similarity, material, customer name, etc., side by side.

## Effect

- Instantly identify similar past projects
- Consolidate orders by specialty area
- Achieve efficient price negotiations

Output drawing

図柄・部品名・プロジェクト名で検索できます

フィルター

選択済: 0

価格比較 ¥27,563(15個)

価格比較 ¥26,640(10個)

Drawings determined to be similar drawings (in descending order of similarity)

# Preventing loss risk due to defects

## Issue

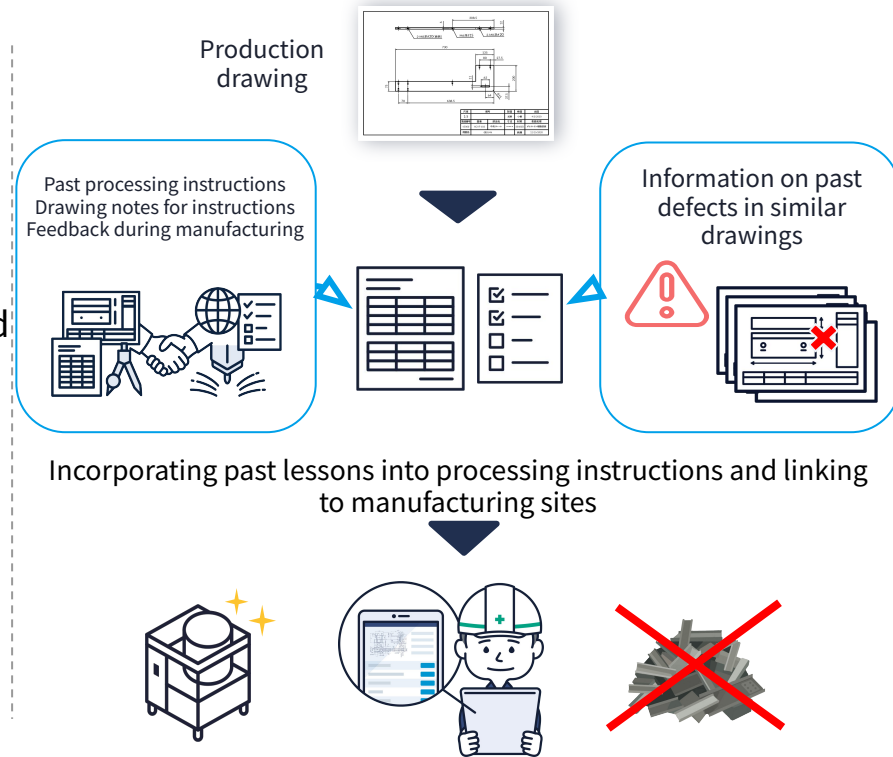
Frequent waste of material/processing costs due to defects that are the company's fault, such as processing errors/Defects  
Instructions on how to prevent this depend on the veteran.

## Solution

Automatically displays past similar drawings, their processing instructions, and defect information, and reflects risks and countermeasures in the processing instructions of production drawings.

## Effect

Significantly shortens the time to review processing instructions and past specifications, reducing losses due to defects without increasing man-hours for first-time products.



# Improving the efficiency of process design work

## Issue

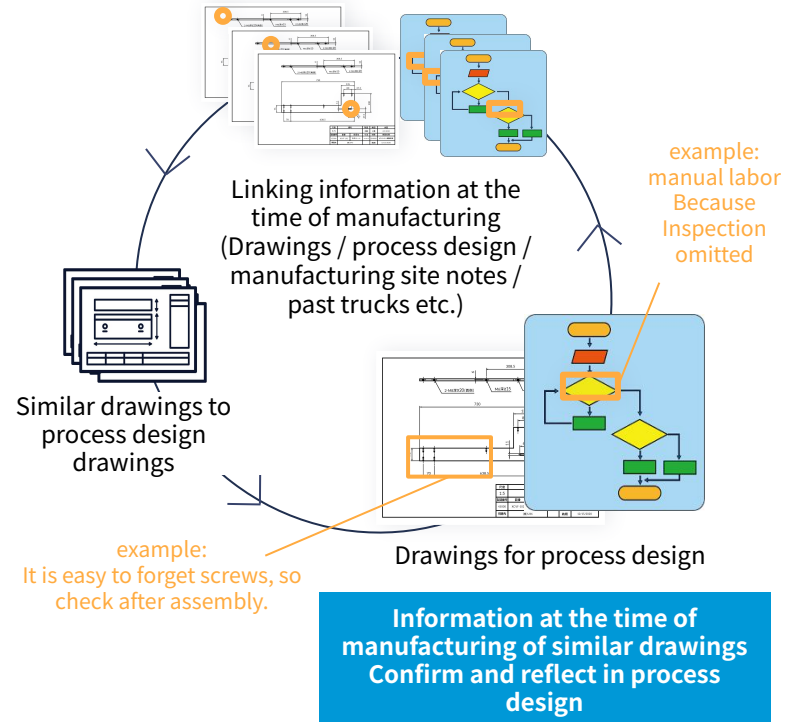
Improvements and small changes made at the manufacturing site are not accumulated and are not reflected in process design (defect recurrence, IE improvements not reflected)

## Solution

Automatically detect improvements related to past similar drawings and their process charts and reflect them during process design

## Effect

Significantly shortens the time to review past problems and improvements, realizing continuous process improvement without increasing process design man-hours



# Reduction of process design man-hours

## Issue

Unable to find process design documents, etc. that are useful as a reference when designing processes  
The inefficiency of thinking from scratch continues

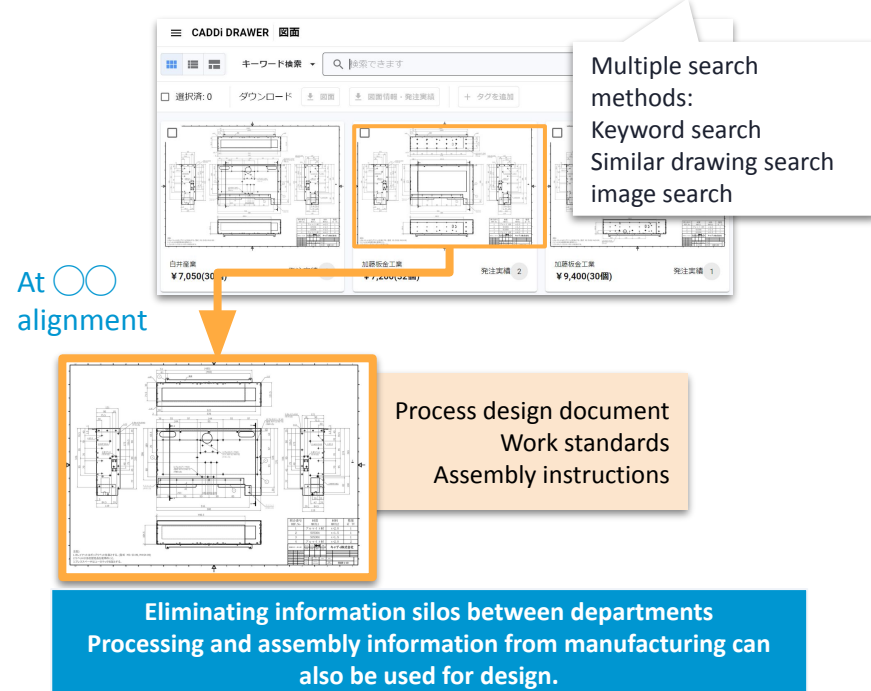
## Solution

Link process design documents (work standards, procedure manuals, etc.) to assembly drawings  
Created an environment that makes it easy to search for past similar assembly drawings when issuing new drawings.

## Effect

Reduction of process design man-hours  
Improvement of design drawings

## Search for reference drawings with CADDi DRAWER



**END**