

INDO-MIM streamlines the complex design activities of its Fixtures and Jigs Design Team, bringing clarity and efficiency through CADSEEK Analytics



INTRODUCTION

INDOMIM Limited is a globally recognized manufacturer of precision engineering components utilizing Metal Injection Moulding (MIM) technology. As a fully integrated MIM parts producer, INDOMIM offers endtoend capabilities spanning design, tooling, materials, finishing, and assembly operations.

Beyond MIM, the company provides plastic injection and insert moulding, along with comprehensive product assembly and integration services.

Founded in 1996 and headquartered in Bengaluru, India, INDOMIM has transformed component manufacturing across diverse industries, including Automotive, Aerospace, Medical, Defence, and Consumer products

The Jigs & Fixtures Design Team at INDOMIM recognized that traditional methods of validating, checking for duplication, and organizing fixture design data—primarily received from customers in STEP/neutral formats—were not sustainable.

Internal design activities consumed significant engineering time and faced persistent challenges, including:

- Identifying duplicate components in customer fixture designs
- Grouping and sorting the identified duplicates
- Difficulty in leveraging legacy designs for reuse

Their search for a more efficient solution led them to CADOpt Technologies and iSEEK's CADSEEK Analytics.

Challenges Faced

The Jigs & Fixtures Design Team often receives fixture design data from customers, typically in STEP or other neutral formats. Before internal design activities can commence, this data must be validated, checked for duplication, and systematically organized. Traditionally, the process required substantial engineering effort, especially in identifying repeated or reused components within customer-supplied and legacy fixture designs.

Key Capabilities of CADSEEK Analytics

CADSEEK Analytics provides Deep shape-driven insights.

Automated shape-based matching of incoming fixture components

Clustering and grouping of duplicates within seconds

Cross-referencing customer data with legacy design libraries
Generating reports on duplication, reuse opportunities, and matches.

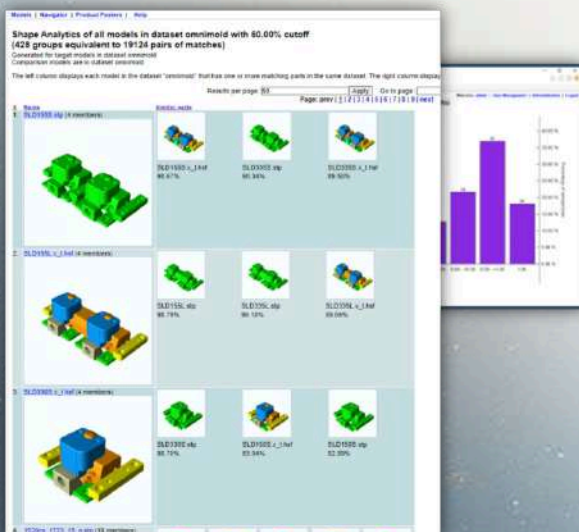
Solution used - CADSEEK Analytics from iSEEK

INDOMIM deployed CADSEEK Analytics, a shape-based search and classification tool.

CADSEEK Analytics is a project-oriented application used to analyze shape-similarity across an entire database, or to compare one database to another. CADSEEK Analytics provides a fully automated analysis of geometric similarity across an entire library of CAD models to find duplication, opportunities for standardization and unwarranted variances in price or performance. Meta-data filtering for attributes such as material, cost or supplier allows slicing the dataset in an endless variety of ways.

Quantifying benefits for customer after solution went live

- Reduction in Duplicate Identification Time:** This provided an 80–90% reduction in analysis time. The design Engineer from Fixtures and Jig design team said the search time for correct files and information has reduced drastically, improving their overall productivity.
- Accurate Grouping of Duplicate Parts:** Automated clustering replaced manual sorting, improving reliability and consistency across design teams.
- Improved Design Reuse:** Engineers can now instantly find matching or similar legacy components that can be reused, reducing unnecessary redesign effort.
- Standardized Reporting:** The software automatically generates duplicate reports, enabling quick decision-making and seamless communication across teams.



What's next

INDO MIM currently uses licenses of CADSEEK Analytics across the entire company for over many users. In the future, there may be even more, as the acceptance amongst the developers is high.

Conclusion

The deployment of CADSEEK Analytics at INDO MIM represents a significant advancement in fixture design data management. By automating the identification and clustering of duplicate components, enabling rapid cross-referencing with legacy libraries, and standardizing reporting practices, the solution has delivered measurable improvements in efficiency, accuracy, and design reuse. This case demonstrates how the integration of shape-based search technology can transform engineering workflows, reduce operational overhead, and strengthen customer value delivery. INDO MIM's collaboration with CADOpt Technologies and iSEEK underscores the strategic importance of adopting innovative digital tools to sustain competitiveness in precision manufacturing.

Verdict from Customer:

Before using ISeek Analytics, I spent a considerable amount of time searching for the correct files and information. After adopting the tool, the search time has reduced drastically, improving my overall productivity.

Design Engineer

We are very satisfied with ISeek Analytics; it has been working well and improving our workflow.

Purchase Department

For more Information : www.iseek.com

CADSEEK — a suite of six enterprise-scale applications designed for shape-based search and 3D asset analytics. CADSEEK technology empowers enterprises to unlock the full potential of their 3D digital assets — including CAD models, 3D scans, Digital Twins, and LIDAR data — through encrypted, scalable, and lightning-fast shape-based search. This encrypted shape data enables powerful capabilities for large-scale analytics across industries.