Engineering Workbench:

Next Generation Standards Management

The standards management capabilities in Engineering Workbench provide standards users with a powerful solution to easily find and manage standards, codes and specifications and complete projects on time.

This briefing introduces these exciting capabilities and the value of managing standards in Engineering Workbench for organizations across industry sectors.

The value of unified access to technical knowledge.

Technologies continue to evolve at a rapid pace, and the volume and diversity of engineering knowledge is exponentially expanding. Engineers need a single, unified technical knowledge solution they can rely on to access essential documentation for completing their projects on time and on budget.

At the same time, engineers today must often collaborate on projects and share knowledge across geographically dispersed, cross-disciplinary teams. Having a single solution that can be deployed across an enterprise and used to disseminate and manage documentation across far-flung project groups ensures all team members are using a "single source of the truth," reducing the risk of confusion and mistakes, rework and extended project cycles.

Engineering Workbench incorporates enhanced cloud-based technologies for getting to answers and relevant information faster than ever, combining AI-powered tools with over 2.3 million industry standards, 75 million technical articles, 104 million patents, and other crucial technical content.

Engineering Workbench takes standards management to the next level.

Standards users and our customer administrators will be reassured to know that Engineering Workbench delivers all the value and capabilities they have come to appreciate from Accuris standards management solutions – and much more:

- Assured compliance, with a single trusted source for 24/7 access to standards, codes, and specifications, at the desktop or in the field.
- Rapid ramp-up with one uniform, intuitive interface for users to be trained on.
- Enhanced teamwork and reduced risk, with easy-to-use tools for sharing and collaborating around industry standards and best practices.

Standards users have long relied on Accuris as an indispensable partner for standards research and management - such as quick and flexible filtering, My Subscription, Watch Lists, Alerts, and Favorites.

But the leading-edge technology at the heart of Engineering Workbench also allows for key productivity enhancements focused around how engineers work with standards. Users will find that, taken together, these new capabilities make standards easier to discover, implement, navigate, and manage.

Easier to Discover

SIMPLIFIED SEARCH

- Single search field for all searches
- Type ahead search suggestions
- Popular document suggestions

The "Intelligent Search Box" makes it easy to find standards using either a document number or keywords.

Engineering Workbench helps engineers discover critical information in seconds so that strategic priorities can be met. It simplifies and accelerates the discovery process with a single "Intelligent Search Box" that automatically distinguishes between a document number and keywords. When a user enters "ISO 9001", the type-ahead search feature recognizes the document number and automatically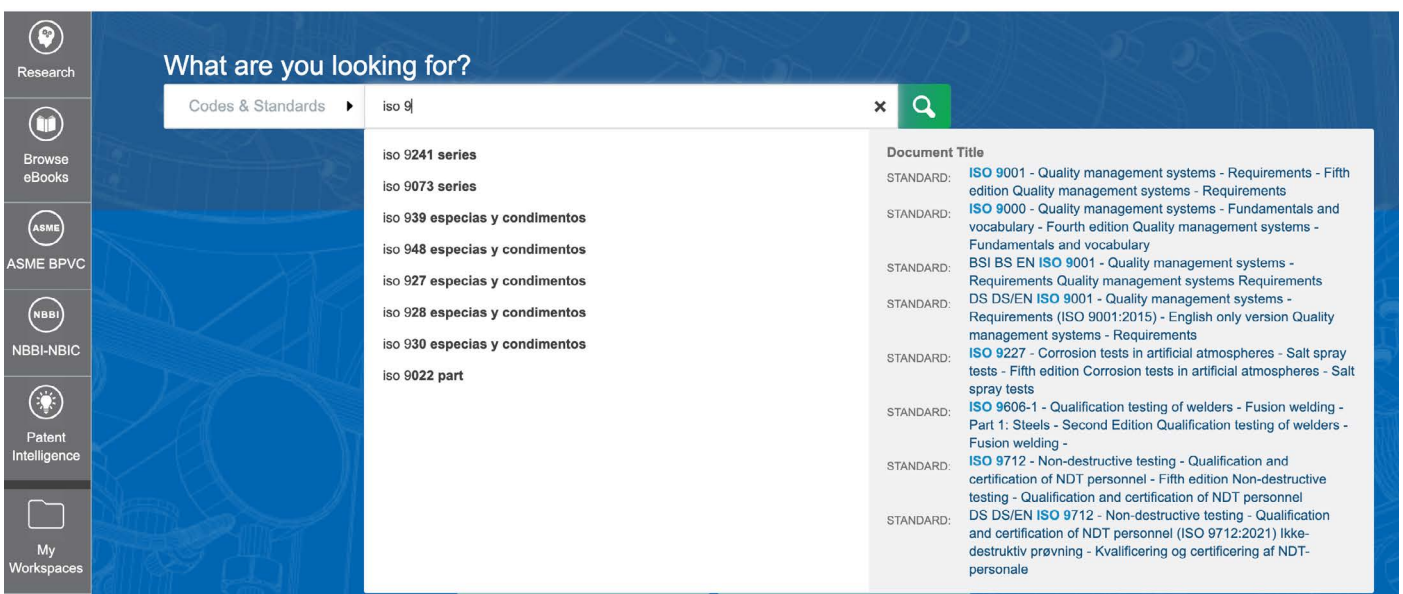 suggests the ISO 9001 standard. This allows the user to click through to the document directly without having to execute the search.

On the other hand, if the user doesn't know the exact document number and enters keyword search terms instead, such as "quality management system requirements", the type-ahead feature will intelligently suggest standards that match the terms, again allowing single-click access to the required document.

The "Intelligent Search Box" is smart enough to distinguish a document number and keywords search.

ADVANCED SEARCH TOOLS

- Query Builder
- Include or exclude search criteria

RESEARCH ASSISTANT

- Discover knowledge through textual OR graphical exploration
- Search facets

For more complex keyword queries, search results are ranked in order of relevance. Convenient search facets allow the user to refine the search by publishing organization, publication year, and so on, so the user can quickly and flexibly drill down to the needed standard when the exact document number is unknown.
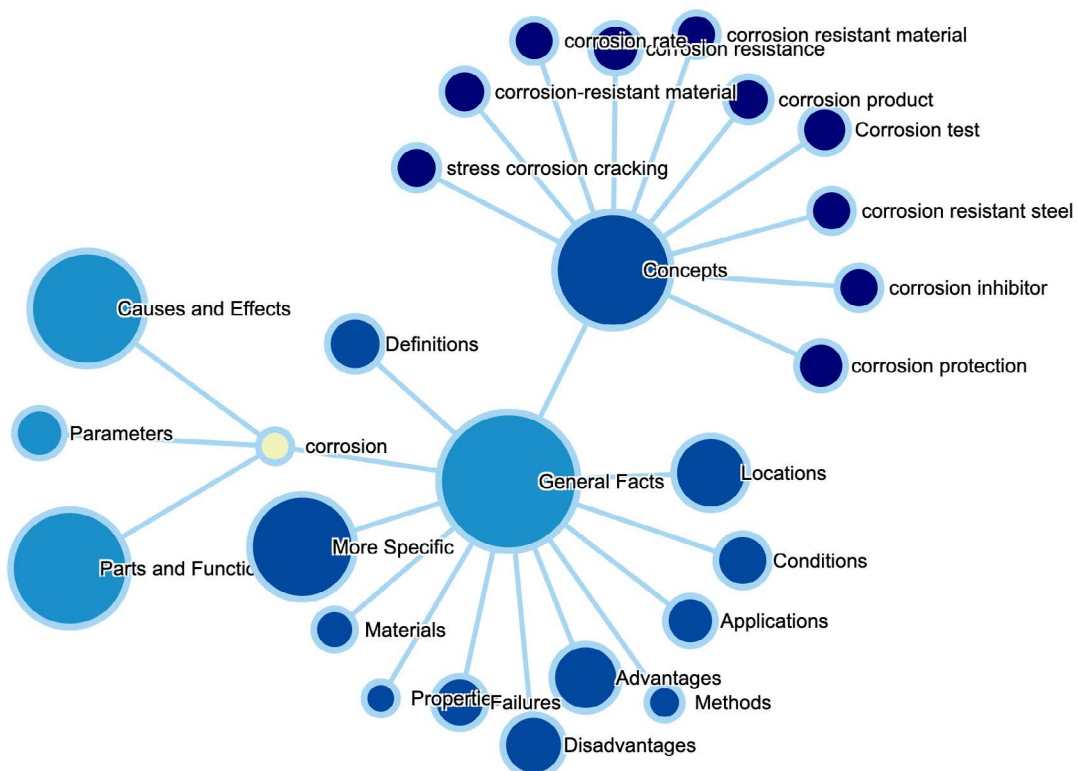
"Power users" are able to take advantage of Advanced Search capabilities to refine their searches using a combination of up to a dozen different fields, for example, "ISO" in the publishing organization field, and "quality management requirements" in the title field. A query builder tool allows the use of Boolean

operators, grouping of terms, and order operations logic to build complex queries, as well as the ability to include or exclude search criteria.

The Research Assistant tool in Engineering Workbench allows users to quickly navigate to the standards they need to address a particular technical challenge when they don't know what documents are applicable. Research Assistant creates information workflows that guide you – much like a subject matter expert – through large bodies of information to the most relevant search results. Then standards can be saved in project folders alongside eBooks or articles that describe best practices for implementing the standards' requirements.

Research Assistant helps users pinpoint answers by cognitively searching Engineering Workbench's vast library of contents, making connections between pieces of information much like the human does.

Easier to Implement

SMART COMPARE

Compare historical and active documents in Smart Compare to see changes, deletions, insertions, and editorial changes to any document from over 400+ SDOs.

AI technology that compares versions of standards side by side, highlighting the differences so you don't have to. This saves days - even weeks of valuable time.

As SDO's update standards and other technical content throughout the year, engineers need a way to keep track of these changes. It can take engineers days or sometimes weeks to identify the changes and understand the consequences of the updates. Additionally, this costs companies over time, as time is taken away from engineers when they manually read through documents to find the changes. If a change is missed, this can be detrimental to a project.

Smart Compare provides a powerful solution – automatically identifying changes to standards as they get published. This patented technology helps engineers find, compare, and implement changes to standards in real time. Smart Compare highlights all changes, insertions, deletions, and grammatical and editorial updates to any document from over 400 standards developing organizations. This saves engineers time, money, and removes the risk of missing a change.

Smart Compare technology identifies and highlights changes, insertions, deletions, and moved sections in versions of standards the user selects.

DYNAMIC LINKING

Exclusive Accuris technology offers the only solution to quickly, easily, and confidently discover referenced knowledge across Engineering Workbench's extensive library of essential engineering content.

Engineers and other technical professionals spend a third or more of their time searching for the information and insights they need to solve problems and develop solutions. Dynamic Linking is the only solution to utilize powerful Artificial Intelligence to help these professionals quickly identify and view interconnections between references in Engineering Workbench, reducing search time and mitigating risk.

Using exclusive Accuris technology, Dynamic Linking automatically generates over 39 million embedded industry-to-industry reference links across all Code and Standard documents from 400+ Standards Developing Organizations. Using the capabilities of Dynamic Linking, technical professionals can easily and efficiently understand requirement

GET LINK

Powerful Get Link technology alows technical professionals to quickly, easily, and confidently create and share links to referenced knowledge within the extensive library of Engineering Workbench Codes and Standards.

relationships, reduce research time substantially with instant access to a summary of or full contents of a referenced Code or Standard, and mitigate risk with reliable in-line references, eliminating the need to search in multiple areas, multiple times.

Get Link makes your engineering teams more efficient with the ability to quickly create and share specific links to reference all Codes and Standards documents within the extensive library of Engineering Workbench Codes and Standards.

This powerful tool allows engineers and technical professionals to easily and confidently create and share links to Codes and Standards entire documents, specific pages, or specific sections within a document.

Dynamic Linking allows the user to hover over a reference link and understand the reference with AI generated summaries. With Get Link, users can trace their requirements back to the standard document, page, or passage they are using for a specific problem.

Easier to Navigate

FASTER DOCUMENT VIEWING

- Opens online quickly – 1 page at a time
- No waiting for download
- View secure documents plug-in
- Retrieve full PDF to print or save

EASIER NAVIGATION OF DOCUMENTS

- Navigate using Table of Contents
- Jump to a specific page
- Easily search within the document
- Review summary & revision history
- Link to reference or equivalent docs search

Engineering Workbench allows your engineers to view, navigate, and edit documents any way they prefer to get things done.

The productivity enhancements for standards users continue in Engineering Workbench with the new Document Viewer. The viewer allows a user to open up a document directly within Engineering Workbench without having to download the PDF or launch a browser plug-in to view the PDF. The viewer "streams" documents page by page, rather than opening the entire document all at once. This means that a user can get into the document almost instantly without having to wait for the whole file to load – a particularly noticeable improvement when viewing lengthy documents.

In addition, with the Document Viewer, users won't need a security plug-in to view secure documents – these standards can be viewed immediately online. Of course, Engineering Workbench continues to support PDF download for those users who want to use a standard document offline.

Use a standard's Table of Contents to jump to a specific section, or perform a word search within the document to jump to a keyword.

Engineering Workbench improves navigation within standards, too. The new Table of Contents feature allows users to browse through a large document and jump directly to a specific section of the document. Engineering Workbench also makes it easy to search for a specific phrase within a document.

A user working in Engineering Workbench can quickly review the revision history of a standard, view or click through to other standards referenced within a document, and even view other standards that reference the document being reviewed. Engineering Workbench adds a dynamically generated document summary describing the standard's contents. The summary can be translated automatically into several major languages, or exported for use in other applications.

The Document Viewer "streams" documents directly within Engineering Workbench, so you can start reading even very long documents almost instantly.
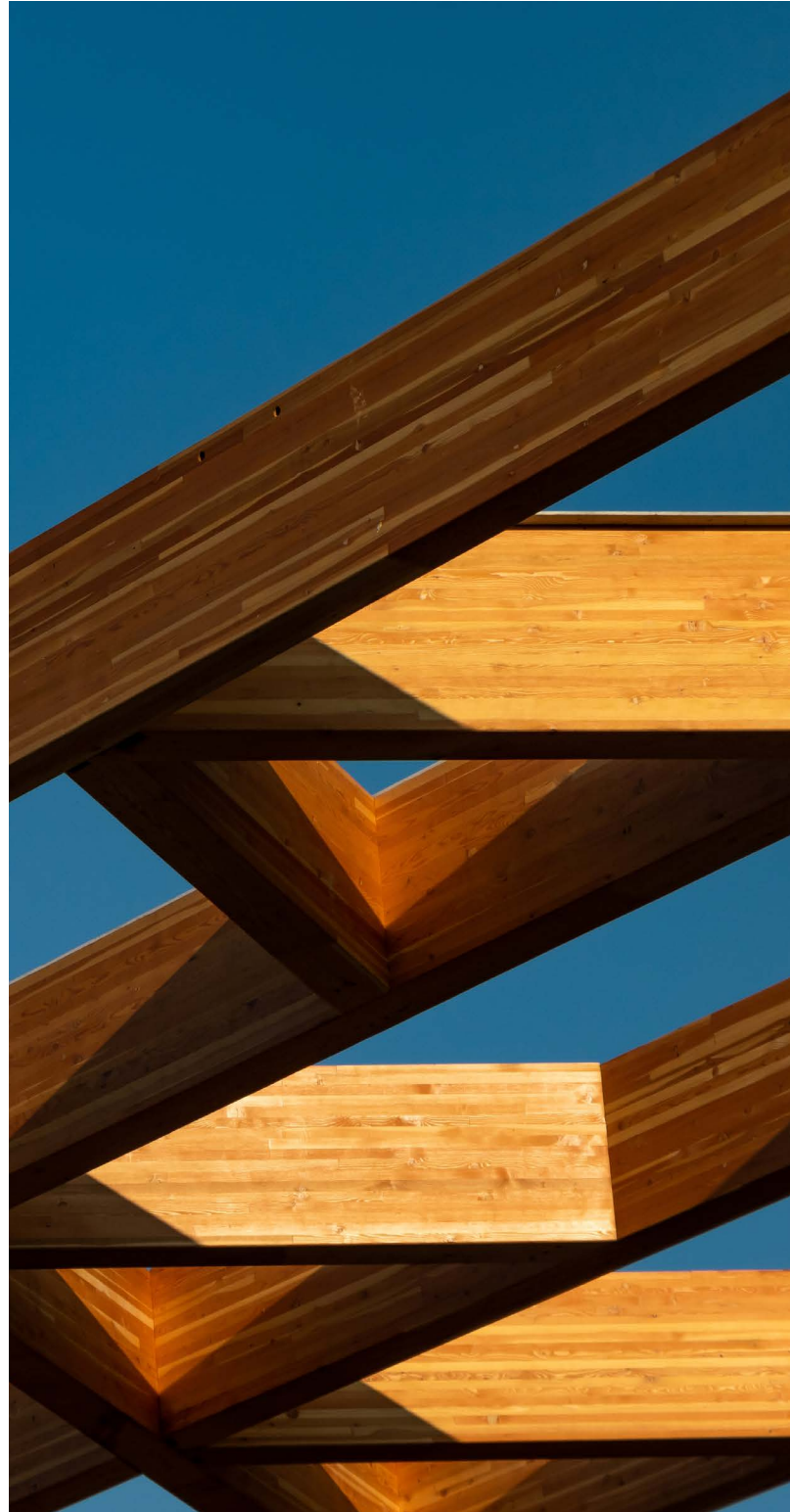
PERSONALIZE YOUR DOCUMENTS

- Create Annotations on or within
- Bookmark documents, pages, passages for quick access
- Add to Projects

As noted before, Engineering Workbench offers ample personalization capabilities, which extend to the way that users can interact with documents inside the solution. For example, users now are able to bookmark a document – or specific sections in a document – for later reference, and even "pin" a bookmark to their home screen or save it to a "Project" folder. This allows engineers to be very precise about how they access the content they use on a continuous basis.

Similarly, users can add Annotations to an entire document or to specific sections within the documents. These Annotations also can be pinned to the home screen, saved as part of a Project or shared with others on a team.

Together, Bookmarks and Annotations help ensure that both individual and "tribal" (or team) knowledge is preserved within an organization. These, along with the other enhancements described above, allow engineers to access needed information more quickly and organize their documentation in a way that makes sense to them and best supports their daily workflows.

Easier to Manage

TOOLS TO MAP DOCUMENTS TO WORKFLOW

Create Projects as a central repository for information (documents, bookmarks) to share with project teams and individuals.

Engineering Workbench provides tools for users to manage standards and related documentation, including the Projects capability, which allows engineers to save and share related documents, Bookmarks, Annotations, and other information in a unique project folder for later reference.
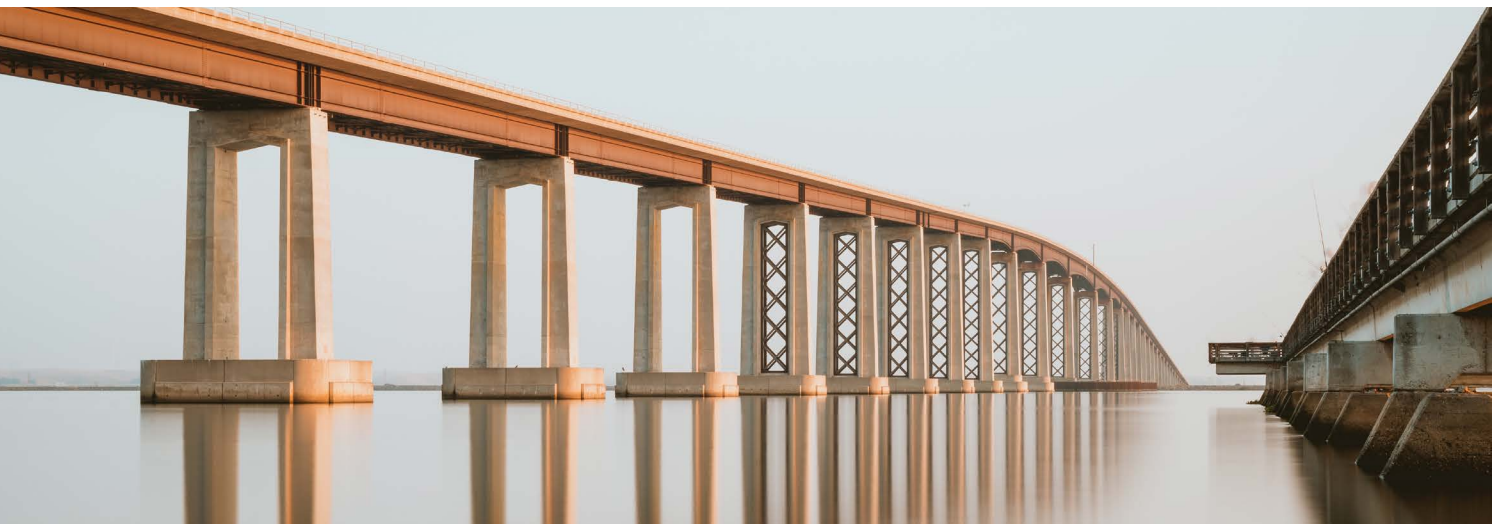
For example, standards can be saved alongside references from eBooks or journal articles that describe how to implement the standards' requirements. Members of a project team working on a particular subassembly can share a project folder so they have a common knowledge base for the life of the project. Or an engineer can use a project folder to share with a colleagues the materials related to a particular problem, and seek their advice on how to solve the challenge.

PERSONALIZE YOUR EXPERIENCE

- Pin Projects and Bookmarks to your personal home screen
- Manage your full portfolio through My Workspaces search criteria

Engineering Workbench is best-in-class for standards management.

As described before, the ability to "pin" bookmarks, projects, saved searches and other information to the user's home screen makes it easy to access documents quickly and easily. Engineering Workbench also provides the "My Workspaces" tool for managing a user's portfolio of saved content, so engineers are always in control of their personal information space within the platform.

Beyond Standards

In addition to over 2.3 million standards, codes, and specifications, Accuris offers access to a wide range of essential technical content for engineers, researchers and other technical professionals. By offering access to an extensive array of information through a single interface, Engineering Workbench accelerates technical research and problem-solving, reducing time spent looking for information by 30% or more.

APPLIED TECHNICAL REFERENCE

Knowledge Collections is a comprehensive online library of 10,000+ authoritative engineering and technical reference documents from the leading publishers – aggregated, accessible and curated for you in one place.

ENGINEERING JOURNALS, REPORTS, BEST PRACTICES & OTHER VETTED TECHNICAL REFERENCE

The Expert Index Collection is an extensive collection of engineering and technical reference content from vetted sources, including more than 75 million technical articles, publications, reports, design principles/best practices, and over 100 eBook titles – aggregated and readily accessible in one place, to help engineers, scientists and other technical professionals quickly make the best decisions.

PATENTS & PATENT APPLICATIONS

Patent Solutions from Accuris offer a rich collection of more than 104 million patents and patent applications from key global markets, published in the original languages.

ASME BOILER AND PRESSURE VESSEL CODE

Accuris provides easy access to the ASME Boiler and Pressure Vessel Code via Engineering Workbench. In addition, only Accuris provides the Accuris ASME BPVC Advantage portal with advanced access and features for finding, managing, and sharing critical BPVC information. BPVC Advantage offers:

- HTML format – with hyperlinks
- Smart Compare showing changes between versions
- Keyword Search – search across the entire Code or by section
- Annotations – add notes within the Code text for knowledge sharing
- Access to Electronic Stress Tables

Additionally, ASME BPVC customers receive access to historical Code versions from 1998 forward for the sections to which they subscribe. Additional historical content from 1971 forward also available.

ADVANCED RESEARCH, PROBLEM-SOLVING & ANALYTICS

A range of powerful tools, built from the ground up to help engineers and other technical professionals achieve sustainable productivity improvements, solve problems better and faster, and out-innovate the competition.

- Patented semantic technology that extracts answers from data regardless of location, type or language
- Problem-solving and ideation tools with Root Cause Analysis
- Access to innovation consultants with broad experience in knowledge management, engineering, product development, materials science and systems deployment

Better Cost Management

ONE SOURCE FOR THE INFORMATION YOU NEED

An Engineering Workbench standards subscription provides comprehensive online electronic document access to users worldwide – eliminating the need for a combination of paper, individual document delivery, or multiple portals to users.

Collections are available via a single intuitive interface, ensuring ease of use and broader adoption across an organization, further promoting compliance and data integrity. Furthermore, providing access to ALL the standards your organization needs helps eliminate duplicate or "maverick" purchases of documents by separate individuals, departments and libraries.

FLEXIBLE CONTENT OPTIONS

Accuris partners with you to design the optimum content collection that best meets your standards requirements and your budget. You can select from entire publishers collections, subsets, packages, industry-specific collections, and even custom document collections.
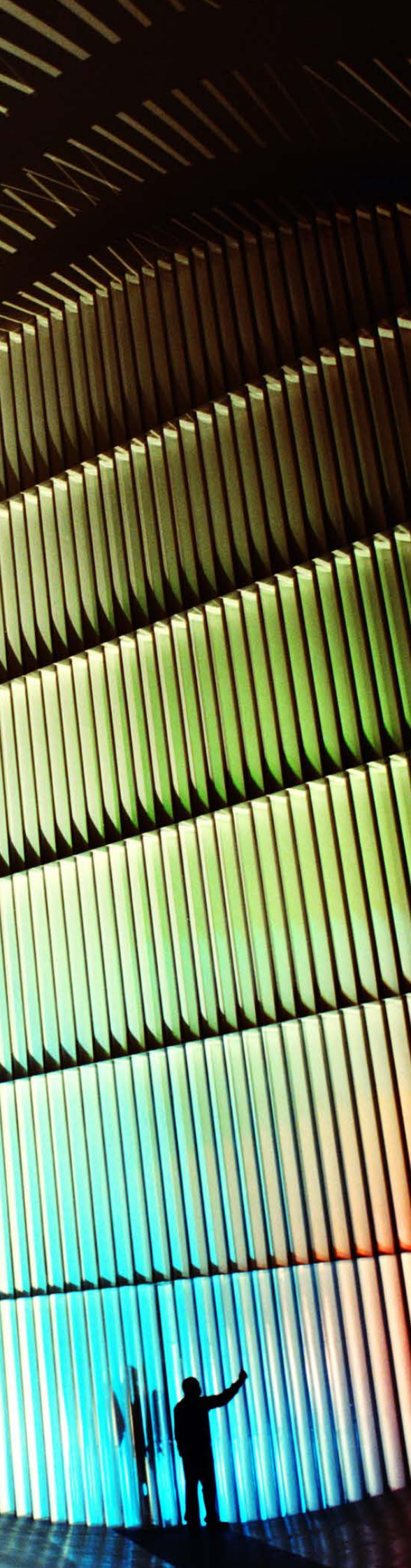
- Accuris is the only aggegate subscription source for more than 130 SDOs, with bibliographical records for over 400 publishers

- Accuris has exclusive subscription rights to many SDOs, including ABMA, AGMA, AIA/NAS, AISC, AWS, CEA, Delphi, ECIA, EEMUA, EIA, GM, HPS, IPC, ISA, JAA, Navistar, PFI, PIP, PIA, and TIA

- Accuris is a primary distributor for ABMA and EUROCAE

Solve problems faster and with confidence.

Demo Engineering Workbench ↗

NEXT GENERATION STANDARDS MANAGEMENT

Featuring vetted content from top publishers, Engineering Workbench facilitates the discovery, use, and management of standards. Combining content, search, analytics, and an array of tools tailored to the needs of the technical professional, this platform allows users to access a plethora of resources via a single interface and sign-on.

Knowledge workers can quickly locate information within a single context, save that information, refine their searches, and create a personalized workspace they can return to time and time again. Using specialized workflow and problem-solving tools, Engineering Workbench specifically addresses the needs of the technical enterprise and allows engineers to analyze the content and draw intelligence from it.

By bringing together content, tools, and analytics in an entirely new way, Engineering Workbench has become the best-in-class standards platform available in the industry today. In an ever-changing world of standards, Engineering Workbench is a step forward for companies that want to drive competitive advantage from their ability to work smarter, be more productive, and intuitively manage technical knowledge.

For more information, visit: **www.accuris.co**