

# One Platform. Built for Fabricators.

Fabrication Pro is an AI-first SaaS platform purpose-built for large-scale metal fabrication shops. It replaces the patchwork of paper, spreadsheets, and disconnected systems that most shops depend on — with a single, connected platform covering every department, every job, and every step of the fabrication lifecycle.

## The Problem Most Fabricators Face

Most large-scale fabrication shops operate on systems designed for someone else. The result is predictable:

- Paper travelers that get lost, damaged, or destroyed — with no audit trail
- Weld traceability assembled manually from three separate spreadsheets
- NCRs closed without root cause analysis, with repeat defects that quietly erode margins
- Customers calling PMs for status they should already have
- Closeout data books that consume 3–5 days of engineering time per project
- Finance and operations always looking at different numbers for the same job
- Welder certifications that expire unnoticed — until a stop-work order
- Production holds that nobody tells procurement about until material has already shipped

## The Solution

Fabrication Pro connects estimating, project management, production, quality, supply chain, HR, finance, and customer communication in a single cloud-based system. There is one database, one source of truth, and zero manual reconciliation between departments.

### COMPLIANCE CONFIDENCE

Full weld traceability, WPS/WPQ tracking, ITP plans, and material heat genealogy — automatically maintained across every job.

### OPERATIONAL VISIBILITY

Real-time job boards, capacity planning, production scheduling, and live job costing — so everyone works from the same data.

### CUSTOMER EXPERIENCE

A branded customer portal gives clients self-service access to job status, submittals, hold points, shipments, and data books.

### BUILT FOR:

- Structural steel fabricators
- Industrial equipment manufacturers
- Pressure vessel & ASME-certified shops
- Heavy plate & pipe fabricators

## Platform Modules

Every module is connected. Every department on one database.

<b>PROJECTS</b> Full lifecycle management — milestones, RFIs, team roles, and auto-generated closeout data books	<b>PRODUCTION</b> Job board, weld travelers, ITP plans, capacity planning, and production scheduling	<b>QUALITY</b> Inspections, NCRs, weld traceability, WPS/WPQ register, and certifications	<b>SUPPLY CHAIN</b> Inventory, purchase orders, supplier directory, receiving, and requisitions
<b>FINANCE</b> Live job costing, invoicing, and accounts payable — reconciled with production actuals	<b>CUSTOMER PORTAL</b> Branded self-service portal: job status, submittals, hold points, shipments, data books	<b>FORMS PLATFORM</b> 100+ digitized workflow forms with approval routing, e-signatures, and autosave drafts	<b>PEOPLE &amp; SAFETY</b> HR, org chart, certifications, training records, incident logging, and compliance tracking

## ROI Proof Points

Fabrication Pro delivers measurable results across the operations that matter most.

- **Closeout data books** — from 28 hours of manual compilation to auto-generated in minutes per project
- **WPQ certification tracking** — automatic expiry alerts eliminate certification-related stop-work events
- **Customer portal** — PM status inquiry calls reduced by 60–80% after go-live
- **Live job costing** — margin problems identified at 40% complete, not at closeout
- **Hold point notifications** — uncontrolled material purchasing during production holds eliminated
- **Digital forms** — form processing time reduced by an average of 73% vs. paper-based workflows

## AI as Infrastructure, Not a Feature

Fabrication Pro is designed AI-first — meaning intelligence is embedded at every layer of the platform, not bolted on as an afterthought. The platform ships with four purpose-built AI capabilities that work together to reduce administrative burden, surface hidden insights, and enable your team to make faster, better-informed decisions. Each is described in detail on the following pages.

<b>DOCUMIND</b> Document intelligence & extraction <a href="#">See Page 3 →</a>	<b>AI Q&amp;A ASSISTANT</b> Conversational queries across all modules <a href="#">See Page 3 →</a>	<b>DYNAMIC REPORTING</b> AI-generated reports on demand <a href="#">See Page 4 →</a>	<b>AI SCHEDULING</b> Intelligent production planning <a href="#">See Page 4 →</a>
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## AI-Enhanced Capabilities

Four intelligent modules that eliminate manual work and surface answers automatically.

### DocuMind

Document Intelligence — AI-Powered Knowledge Management

AI FEATURE

DocuMind is Fabrication Pro's AI-powered document intelligence layer. It transforms raw uploads — mill certificates, NDE reports, weld logs, engineering drawings, compliance records, and quality packages — into a searchable, categorized, versioned knowledge base. Instead of hunting through network drives and email threads, your team finds any document in seconds with full metadata context automatically extracted on upload.

- **AI metadata extraction** — automatically reads and tags document type, date, project, and key attributes on upload
- **Intelligent categorization** — assigns tags and categories based on content, not just filename
- **Full-text search** — find any document across the entire library using natural language queries
- **Version control** — complete revision history with rollback, ensuring teams always reference the current document
- **Analytics dashboard** — visualize document activity, review status, and library completeness across projects
- **Secure shared links** — time-limited, permission-controlled sharing links for external reviewers
- **Metadata review workflow** — flag AI-extracted metadata for human confirmation before filing
- **Cross-module linking** — documents link directly to the project, job, or weld record they belong to

#### KEY USE CASE

At project closeout, DocuMind auto-assembles the data book by pulling every tagged document — mill certs, inspection records, weld logs, NDE reports — associated with that project. What once took a week of engineering time is completed in minutes.

### AI Q&A Assistant

Conversational Intelligence — Ask Anything, Get an Instant Answer

AI FEATURE

The Fabrication Pro AI Assistant is a context-aware conversational interface available as a floating widget on every page of the platform. It understands your live operational data — jobs, schedules, quality records, certifications, and financials — and responds to plain-language questions in real time. Users get accurate answers without navigating menus, running reports, or interrupting a colleague.

Q Which welders are currently qualified for P91 material?

A Returns a live list of certified welders with WPQ status and upcoming expiry dates highlighted.

Q Show me all jobs behind schedule this week.

A Surfaces every production job with a delivery conflict and summarizes the delay reason per job.

Q What is the open NCR count for Project 2241-B, and what is the most critical?

A Pulls the live NCR register, summarizes by severity, and flags the highest-priority open item.

Q Which open POs are still active against the hold on Job 4412?

A Cross-references the hold log with supply chain open POs and flags items not yet received.

#### AVAILABLE ON EVERY PAGE

The AI Assistant is accessible from any module without context-switching. Ask a question mid-workflow — while reviewing an ITP, processing a PO, or approving a submittal — and get an answer instantly.

## Dynamic Reporting

AI-Generated Reports — From Executive Dashboards to Job-Level Detail

AI FEATURE

Fabrication Pro's Dynamic Reporting engine replaces static monthly reports with live, AI-generated intelligence that updates in real time as jobs move through production. Executives, operations managers, quality leads, and finance teams each see a dashboard calibrated to their role — surfacing the metrics that matter to them without any report needing to be manually built, run, or exported.

### EXECUTIVE DASHBOARD

KPIs, on-time delivery rate, active job count, open NCRs, revenue pipeline, and workforce utilization in a single leadership view.

### QC & DELIVERY REPORTS

AI-generated quality summaries per project: inspection pass rates, NCR trends, weld rejection rates, and delivery performance vs. contract.

### JOB COST INTELLIGENCE

Live variance reports comparing estimated vs. actual cost. AI flags jobs trending over budget before closeout.

### WORKFORCE & CERTIFICATION

Certification expiry forecasts, training completion rates, utilization by department, and upcoming qualification gaps.

### SUPPLY CHAIN ANALYTICS

Supplier on-time delivery scores, open PO aging, inventory turnover, and receiving discrepancy trends.

### CUSTOM REPORT BUILDER

Describe the report you need in plain language. AI assembles the relevant data fields, filters, and visualizations automatically.

### NO MORE MONTHLY REPORT CYCLES

Every report reflects live data. Share a dashboard link — recipients always see current numbers, not a stale export. Reports update automatically as jobs progress, holds are placed, and invoices are issued.

## AI Scheduling

Intelligent Production Planning — Capacity-Aware, Constraint-Driven Scheduling

AI FEATURE

AI Scheduling in Fabrication Pro gives production managers a live, constraint-aware view of shop capacity — and uses that data to recommend optimal job sequencing, flag conflicts before they become delays, and automatically adjust the schedule when holds, material shortages, or workforce changes occur. Scheduling decisions that previously required hours of manual planning are surfaced in seconds.

- **Real-time capacity planning** — visualize available labor hours, equipment time, and cell capacity across any horizon
- **Conflict detection** — AI flags overloaded cells, under-staffed shifts, and equipment clashes before they impact delivery
- **Commitment gating** — before confirming a new job start date, the system validates actual capacity against existing load
- **Hold-triggered reschedule** — when a job is placed on hold, the schedule updates automatically and downstream jobs are re-evaluated
- **Material-linked scheduling** — links supply chain receiving dates to job starts, preventing premature scheduling when material is outstanding
- **AI job sequencing** — suggests optimal job order based on delivery priority, material readiness, and available workforce certifications

**38%**

reduction in schedule overruns in year one

**60–80%**

fewer manual schedule changes per week

**100%**

of new jobs validated against real capacity before commit

**See every AI capability on a real job.**

Book a 25-minute demo tailored to your shop's workflows and compliance requirements

[fabricationpro.com/demo](https://fabricationpro.com/demo)