



REVOLUTIONIZE MTR VALIDATION WITH AI

REVOLUTIONIZE MTR VALIDATION WITH AI

WHY CHOOSE AI-POWERED MTR VALIDATION?

Material Test Report (MTR) validation is a critical process across industries such as construction, manufacturing, oil & gas, aerospace, petrochemical, nuclear, pharmaceutical, etc. Traditional manual validation methods are expensive, error-prone, and time-intensive. Our AI-powered MTR Validation Service automates the process, providing unparalleled accuracy, efficiency, and cost savings.

1. KEY BENEFITS OF AI-POWERED MTR VALIDATION

Unmatched Accuracy

- Achieve 99.5% accuracy compared to 80–85% with manual validation.
- Reduce errors that lead to costly material failures and project delays.

Significant Cost Savings

- Cut validation costs from \$205–\$564 per MTR to just \$30–\$40 per MTR.
- Save \$175–\$534 per MTR, translating to \$875M–\$5.34B in annual savings across the U.S.

Membership-Based Pricing

MTR Service	Cost (Members)	Cost (Non-Members)
Fabricator	\$10 per MTR	\$12.50 per MTR
EPCs	\$5 per MTR	\$6.25 per MTR
Manufacturers	\$5 per MTR	\$6.25 per MTR
Insurance Company	\$10 per MTR	\$12.50 per MTR

Savings for Members: Members save 25% compared to non-members and enjoy priority support.

Faster Processing

- Validate MTRs in seconds instead of hours.
- Avoid project delays caused by slow manual reviews

Enhanced Traceability

- Maintain a secure, auditable digital trail for every MTR.
- Simplify compliance with ASME and ASTM standards and project requirements.

2. INTANGIBLE SAVINGS: THE HIDDEN VALUE OF AI

Beyond direct cost reductions, our service delivers significant intangible benefits that amplify ROI:

Risk Reduction

- Eliminate human errors that lead to material failures, safety incidents, or non-compliance penalties.
- **Estimated Savings: \$500,000–\$2M per organization annually.**

Faster Project Completion

- Avoid costly project delays caused by slow manual validation.
- **Estimated Savings: \$500,000–\$2.5M annually for just 10 projects**

Enhanced Reputation

- Deliver consistent, accurate results to strengthen client trust and secure more contracts.
- **Estimated Savings: \$100,000–\$1M annually through increased business opportunities.**

Improved Productivity

- Free up QA/QC teams and engineers to focus on higher-value tasks.
- **Estimated Savings: \$500,000–\$2M annually for a team of 10 employees**

Reduced Legal and Compliance Costs

- Avoid audits, disputes, and penalties with accurate and traceable MTRs reviews.
- **Estimated Savings: \$250,000–\$2.5M annually.**

Sustainability and Environmental Impact

- Reduce waste and improve sustainability practices to attract investors and clients.
- **Estimated Value: \$100,000–\$500,000 annually**

Total Annual Intangible Value: \$1.95M–\$10.5M per organization

Total Savings Potentia

Category	Savings per MTR	Annual Savings (5M MTRs)	Annual Savings (10M MTRs)
Direct Cost Savings	\$175–\$534	\$875M–\$2.67B	\$1.75B–\$5.34B
444	N/A	\$1.95M–\$10.5M per organization annually	

Value Propositions by Role

Role	Manual Cost per MTR	AI Cost per MTR	Savings per MTR	Savings %
Fabricators	\$42–\$84	\$10	\$32–\$74	75–90%
EPCs	\$72–\$216	\$5	\$42–\$186	80–90%
Manufacturers	\$21–\$42	\$5	\$11–\$32	50–75%
Insurance Companies	\$42–\$63	\$10	\$32–\$53	75–85%

3. INDUSTRIES WE SERVE



Construction

Faster approvals for structural metallics only.



Oil & Gas

Accurate validation for pipelines and pressure and non-pressure equipment.



Aerospace & Automotive

Reliable Material Verification for safety-critical components.



Manufacturing

Seamless integration for material compliance and validation.

JOIN THE REVOLUTION IN MTR VALIDATION TODAY!

- Save up to 90% on validation costs.
- Improve compliance, accuracy, and project efficiency.
- Reinvest savings into growth and innovation.

INTERNATIONAL WELDING BUREAU

www.internationalweldingbureau.com

