



How Rishabh Forgings Turned CBAM Compliance into a Competitive Advantage

Case Study  cleancarbon.ai



Client Overview

Founded as a leading specialist in forging and manufacturing, Rishabh Forgings produces highly customized fittings and flanges using Stainless Steel, Carbon Steel, Alloy Steel, and Nickel Alloys. Operating out of advanced manufacturing setups featuring hammer forging, press forging, and extensive machining facilities, the company caters to heavy-impact global industries such as Oil & Gas, Petrochemicals, and Marine infrastructure.





Business Challenges

- **Granular Emissions Tracking:** Accurately calculating the "embedded emissions" (Scope 1 direct emissions from heat treatment/forging and Scope 2 indirect emissions from electricity consumption) across complex manufacturing stages was highly challenging.
- CleanCarbon.ai
- **Manual Bottlenecks:** Compiling data from multiple production floors, raw material suppliers, and energy logs manually took weeks and carried a high risk of calculation errors.
- **Severe Financial and Trade Risks:** Missing submission deadlines or submitting unverified data under the stringent 2026 CBAM framework carried a major risk of severe financial penalties and potential bans from the EU market.
- CleanCarbon.ai
- **Buyer Pressure:** EU importers were demanding audit-ready, fully compliant carbon data to maintain their supply chains without facing carbon tax overcharges.

Solution Delivered by CleanCarbon.ai

Rishabh Forgings integrated CleanCarbon.ai's advanced cloud-based software to overhaul and future-proof its compliance architecture. The implementation focused on three pillars:

- **Seamless Data Integration:** CleanCarbon.ai connected directly with Rishabh Forgings's production logs, material test certificates (MTCs), and energy management systems to systematically map the carbon footprint of their forging, rolling, and machining processes.
- **Automated Report Generation:** The platform automatically calculated exact embedded emissions per ton of steel manufactured, instantly formatting the data into EU-approved quarterly CBAM templates.
- **Predictive Tax & Cost Analytics:** CleanCarbon.ai provided advanced forecasting tools that allowed Rishabh Forgings to visualize future CBAM tax liabilities, giving them the insights needed to implement targeted operational adjustments to lower emissions.



Result

- **100% Compliant & Error-Free Reporting:** Rishabh Forgings successfully moved past manual data collection, generating completely accurate, EU-aligned quarterly submissions with total regulatory confidence.
- **70% Reduction in Compliance Overhead:** Automated tracking eliminated hundreds of hours of manual labor, allowing the internal operations and engineering teams to stay fully focused on manufacturing core products.
- **Risk & Penalty Elimination:** By deploying audit-ready compliance data ahead of tight EU deadlines, Rishabh Forgings entirely avoided trade disruptions and non-compliance fines.
- **Protected Profit Margins:** With CleanCarbon's automated insight into carbon intensity, Rishabh Forgings successfully optimized its processes, achieving a **40% cost savings on compliance operations** and safeguarding its export margins.
- **Strengthened EU Market Position:** Armed with certified, transparent low-carbon supply chain data, Rishabh Forgings stands out against competitors, deepening its partnerships with sustainability-focused European buyers.

Conclusion

The collaboration between Rishabh Forgings and CleanCarbon.ai demonstrates how heavy engineering and forging exporters can effectively adapt to shifting global trade and climate frameworks. By swapping fragmented manual methods for CleanCarbon.ai's automated platform, Rishabh Forgings protected its EU market revenue while setting a new standard for sustainable manufacturing in the global steel forging industry.



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