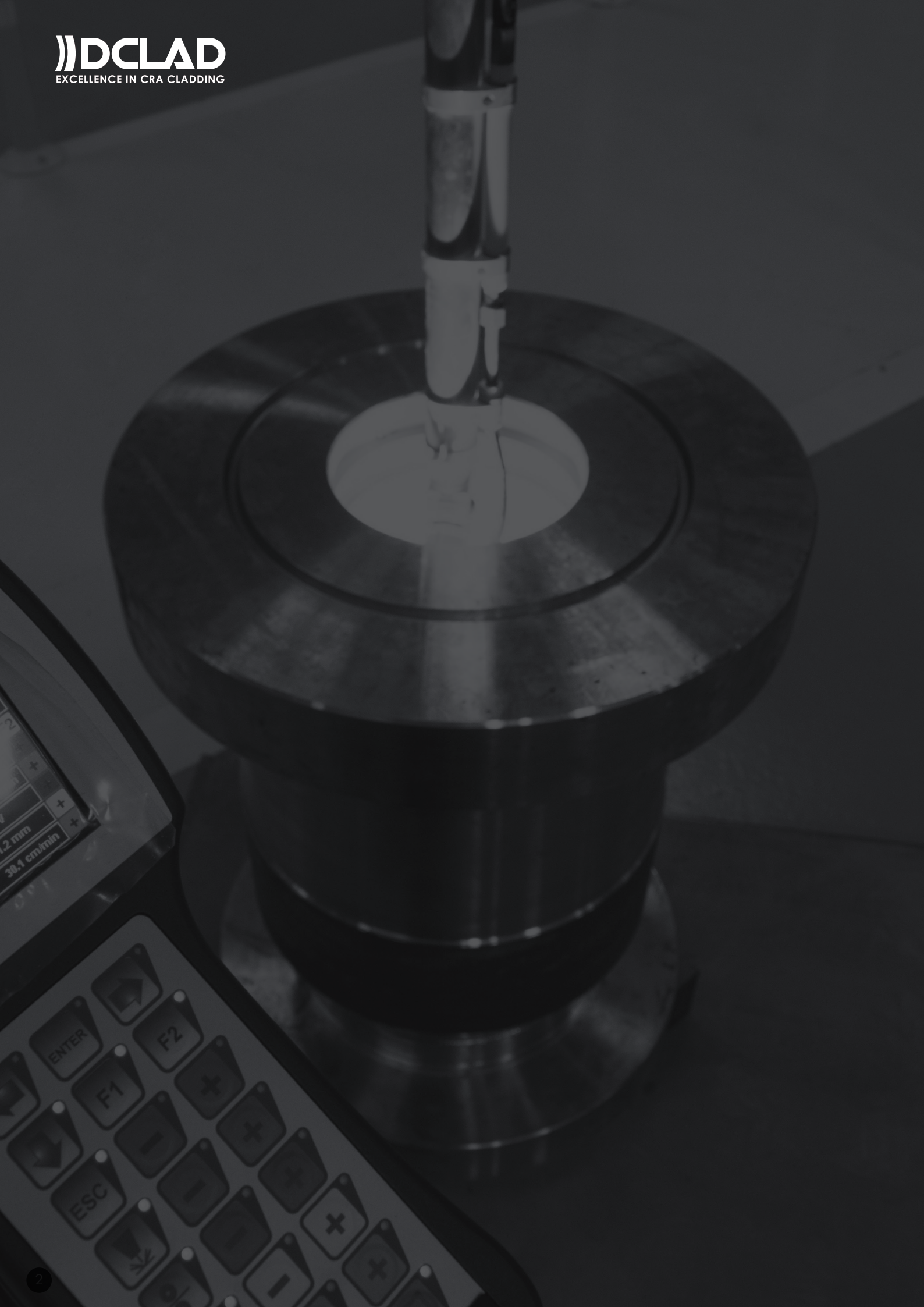


DCLAD
EXCELLENCE IN CRA CLADDING

FORTIFYING YOUR METALS • PROTECTING YOUR INVESTMENT





ABOUT US

Established in the year 2013, DCLAD was primarily founded to serve as a supplemental department for its parent company, the well-known Delta Corporation, with the specialty of providing Weld Overlay Cladding services for a wide range of wellhead components. Ever since, DCLAD has grown gradually into becoming a reliable brand name in the field of Weld Overlay Cladding within the local Oil & Gas market and its neighboring territories.

The continuous rising demand for Weld Overlay Cladded products and services in the Middle East augmented DCLAD growth rapidly, graduating it from a supporting function into an independent manufacturing entity under Delta Group of companies, widening its spectrum of products from the cladding of Wellhead components to include Piping and Pipeline components (Pipes / Fittings / Flanges).

Presently, DCLAD has a full-fledged Weld Overlay Cladding workshop equipped with:



High-precision CNC machines



Automated GTAW Cladding Machines with highest CRA deposition rates



Full set in-house NDT capabilities



All of which are run by a workforce of a proven success record in the field of Weld Overlay Cladding. Having its premises strategically located at the heart of Doha (State of Qatar), DCLAD was able to gain ease of access to its target high-profile customers operating within the Oil & Gas market and is now pre-qualified as an approved vendor by the main end-users / operators in the region.

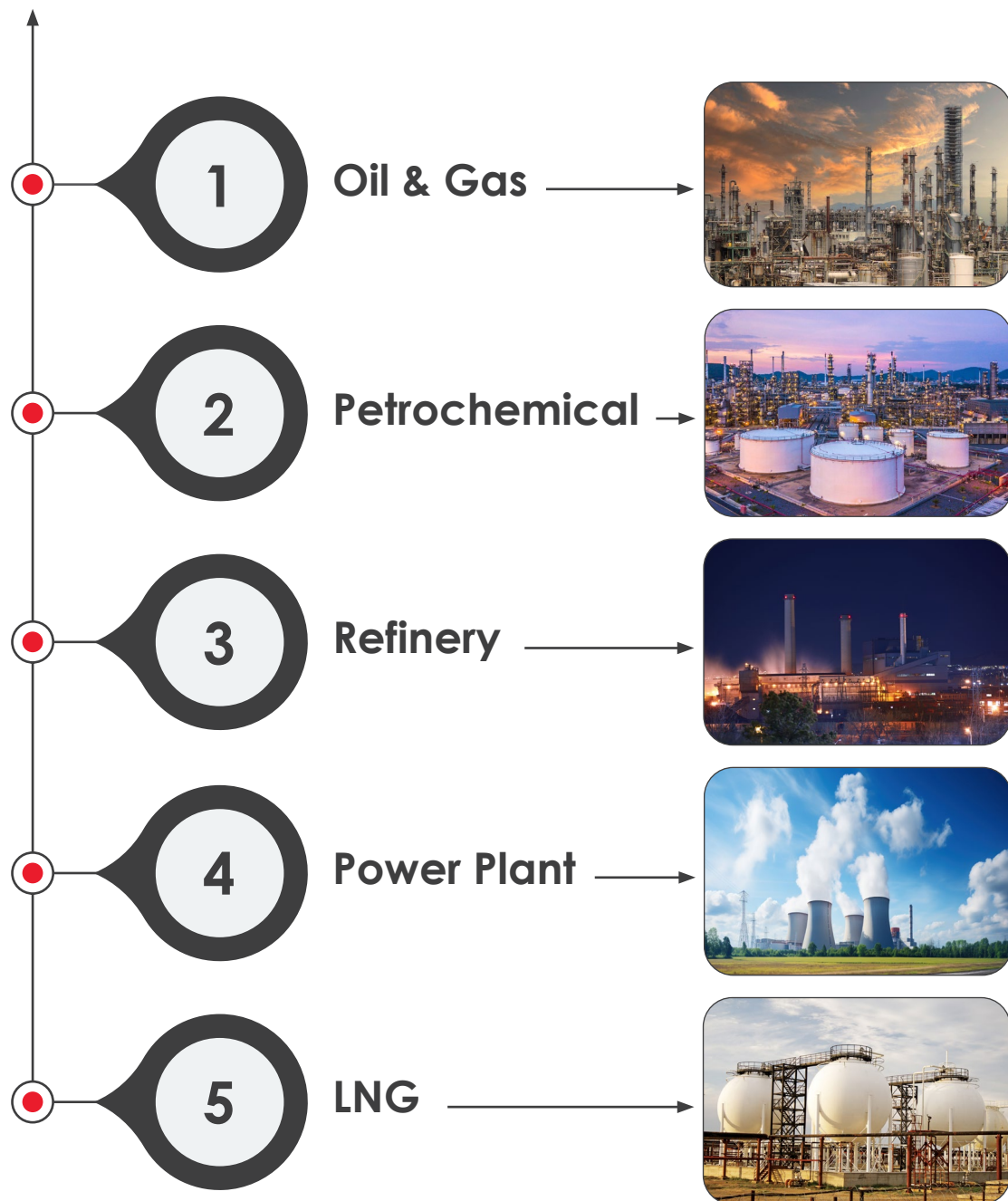
OUR MISSION

Continuous strive for process improvement, operational excellence, and business prosperity with the ultimate goal of attaining customer satisfaction.

OUR VISION

Be a globally recognized brand name in the provision of corrosion solutions.

THE MARKETS WE SERVE





PRODUCT OVERVIEW

Weld Overlay Cladding

It is a unique welding technique by which layers of an alloy metal, possessing high-resistance properties against corrosion and wear, are deposited onto the surface of a base metal lacking such resistivity attributes. The strong bond established by the fusion of the alloy metal and the backing steel metal yields a finished product with retained properties of the backing steel metal, integrated with corrosion / wear resistant attributes and thus, considerably extending the life span of the product under sour service conditions.



Value Addition

Harmless on the Base Metal

With the proper selection of alloying material and implementation of well-controlled welding parameters, Weld Overlay Cladding is generally perceived to cause no impact on the properties of the base metal.

Durability

Cladding using alloying metals of high-resistance features against corrosive and wear inducing service conditions, significantly extends the life span of the product up to x10 times, depending on the selected cladding material and environment.

Economical

The remarkable life longevity of cladded products serves as a huge cost savior and economical long-term investment since it averts costs associated with continuous replacements of parts / products, production downtime and maintenance cycles, and thus, minimizing the overall lifecycle costs. On the other hand, the cost of cladded products represents a fraction of the cost of solid alloys.

Flexibility

The mechanism of weld overlay cladding involves welding the alloying metal onto the surface of the parent metal. This metallurgical bonding results in one product of dual grade of materials, offering the flexibility to mechanically modify the product in case of any future need to do so without any hassles or complexities.

Multi-Purpose

The weld overlay cladding technique is versatile as it accommodates a wide variety of base metals and geometries, making it a useful solution for several applications other than sour service conditions. Depending on the alloy material selection, weld overlay cladding can be used to enhance protection within environments of high temperatures (example: power generation), promote the strength and hardness features of the product to withstand greater levels of stress, and adjust the electrical conductivity of a component to meet the desired electrical properties.

Repairs / Upgrades

In lieu of the radical solution of complete replacement to the damaged component, weld overlay cladding is deemed to be a rapid and economical alternative to restore worn surfaces. This avoids discarding the damaged component and upgrades its condition to extend its life exceeding that of a new part.

Environmental Impact

The value addition of weld overlay cladding goes beyond the tangible enhancement of a product's attributes since incurs a positive contribution to environmental preservation. By extending the lifespan of an equipment, the need for frequent manufacturing processes is significantly reduced implicating less carbon emission that would result from:

- **Heavy energy consumption of manufacturing processes.**
- **Fuel consumption associated with the supply chain processes (long-distance transportation).**
- **Steel production known for its high carbon footprint.**

SPECTRUM OF PRODUCTS & SERVICES

- Weld Overlay Cladding
- Immersion Ultrasonic Testing (IUT) Services
- Precision Machining Services
- Heat Treatment Services

Weld Overlay Cladding

Equipped with fully automated high-tech GTAW weld overlay cladding systems, in which the welding parameters are controlled by its advanced software and operated by skilled welding technicians, DCLAD assures optimum quality and integrity of cladding material deposition meeting the customers target chemistry requirements.

The cutting-edge technology of our cladding process offers faster CRA feed rates, provides accessibility to many areas within complex geometries, and can accommodate a broad range of parts of various sizes and shapes. Below is a list of the main products we cater to our respective customers:

- **CRA Cladded Pipes – OD size range: 6" up to 36".**
- **CRA Cladded Fittings – OD size range: 2" up to 58".**
- **CRA Cladded Flanges – OD size range: 2" up to 58".**
- **CRA Cladding of Wellhead Components.**

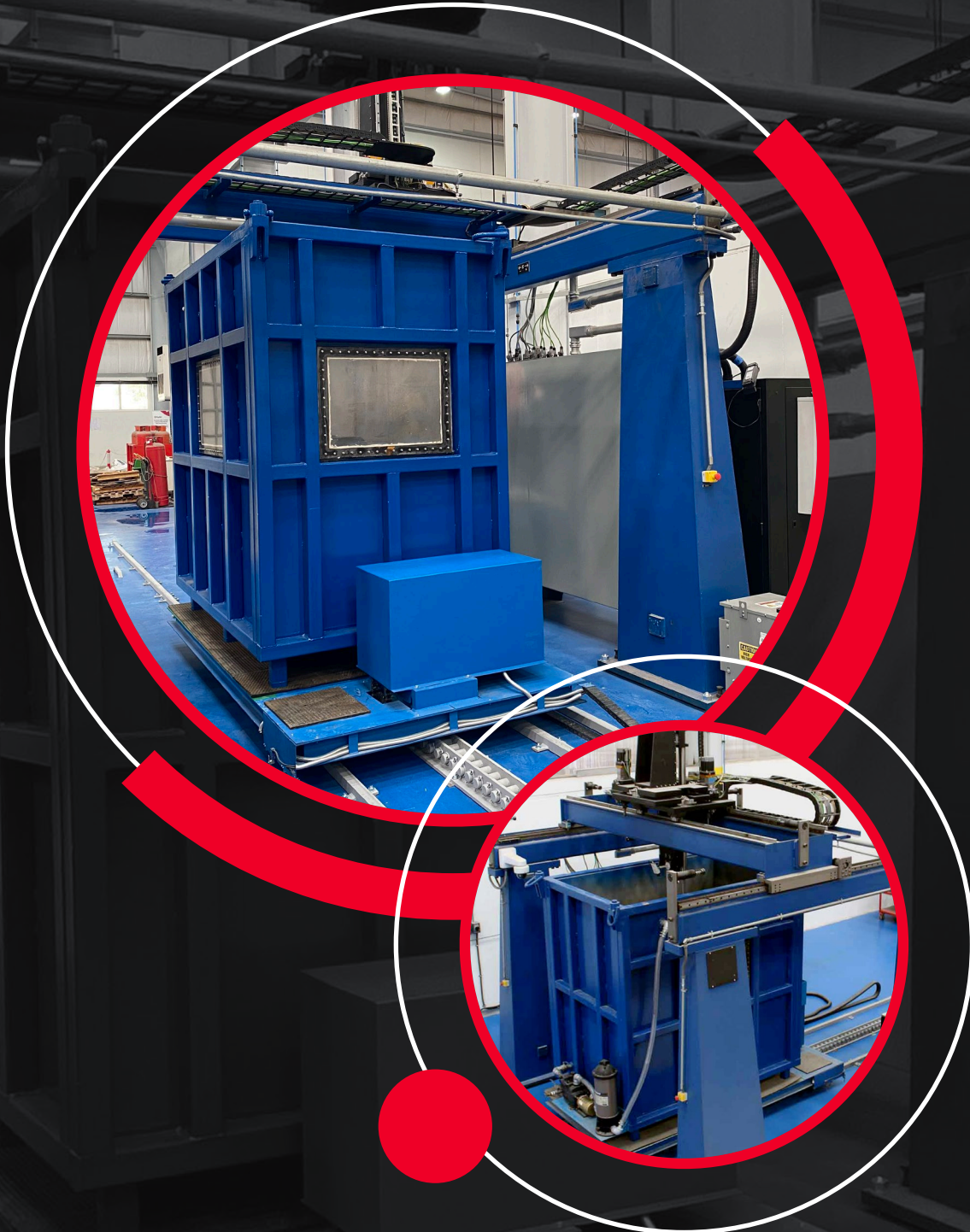


**FORTIFYING YOUR METALS
PROTECTING YOUR INVESTMENT**



Weld Overlay Cladding





Immersion Ultrasonic Testing (IUT) Services

As an alternative to the conventional ultrasonic NDE techniques, DCLAD was the first and remains the only company in the Middle East to invest in setting-up the Immersion Ultrasonic Testing System (commonly referred to as; IUT).

The IUT is a technologically advanced NDE machine having a six-axis ultrasonic scanning mechanism, by which components and materials of any complex shape are 100% scanned for the detection of internal flaws, cracks and other imperfections. This is achieved by the immersion of the component into a water-filled tank within which the water serves as a medium to transmit high-frequency sound waves from the ultrasonic transducer at the surface, down into the submerged component. Defects get detected on the reflection of sound energy back to the transducer which converts it into electrical signals. The location, size and orientation of any detected defects are eventually determined - with high accuracies - by the program connected to an ultrasonic flaw detector that analyzes the reflected signals.

This sophisticated set-up is far superior to the traditional ultrasonic inspection equipment considering the numerous advantages it offers:

Safety

It is a very safe inspection methodology for both; the personnel attending the inspection and its surrounding environment, since the process is free from any form of radiation.

Accuracy

It detects flaws with high levels of accuracy and precision, with its scanning mechanism covering the smallest of defects

Versatility

It can be effectively utilized to inspect a wide range of material types of different shapes and various sizes.

Repeatability

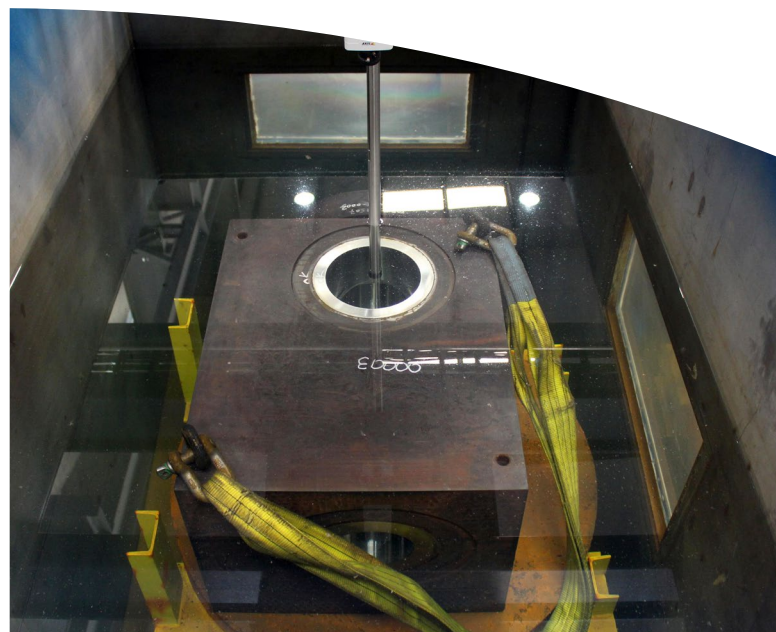
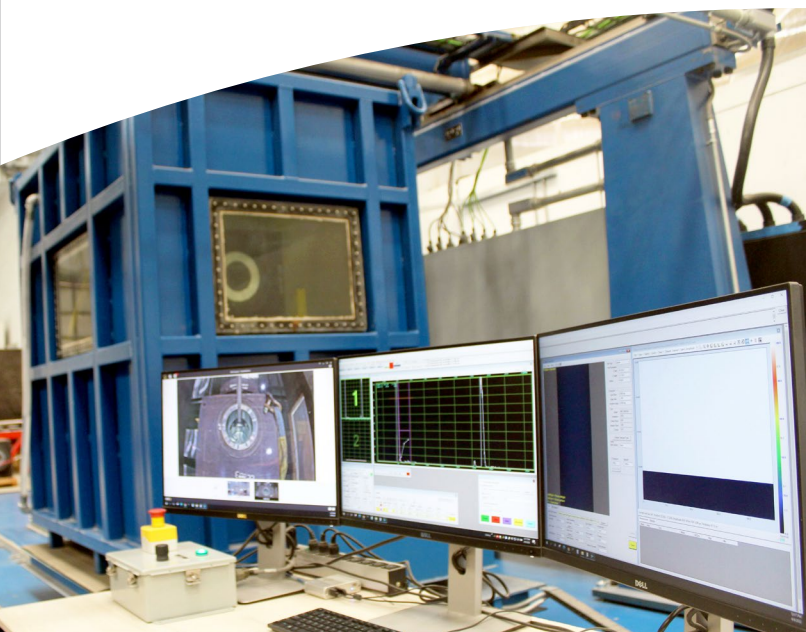
It offers consistent repeatable results across multiple cycles of inspections.

Reporting

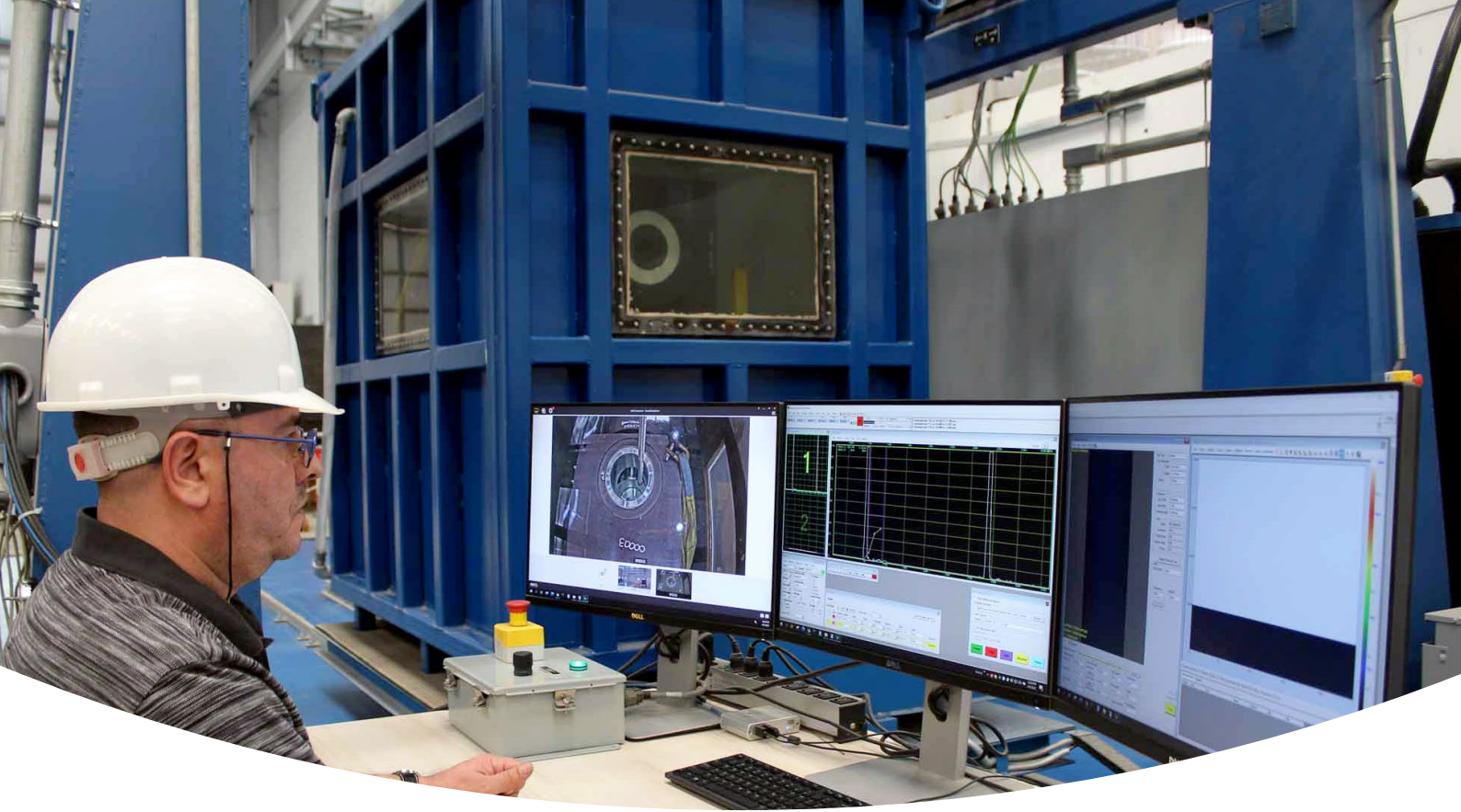
It provides detailed information about the materials' characteristics and conditions, backed up with high resolution scanned images.

Harmless

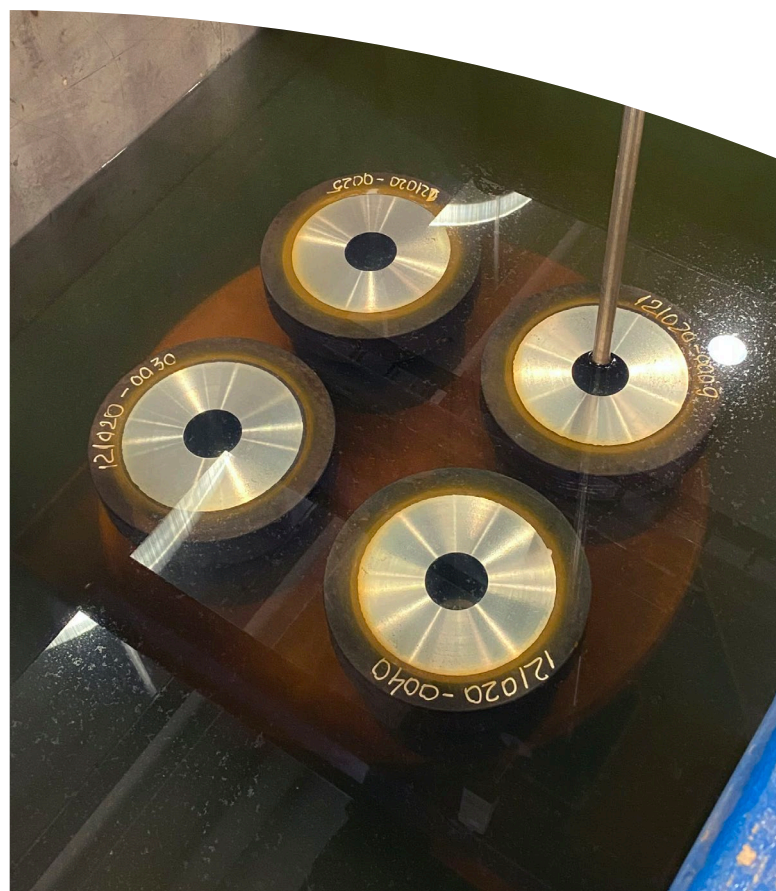
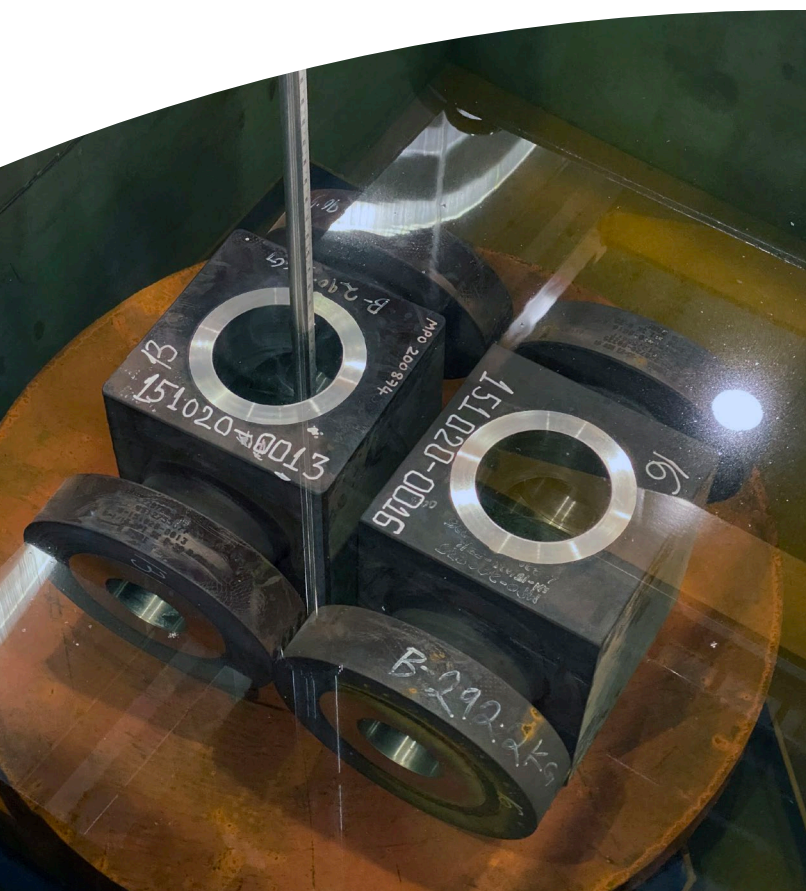
Its mechanism does not cause any damage to the components being tested.



**FORTIFYING YOUR METALS
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Immersion Ultrasonic Testing (IUT) Services





Precision Machining Services

CNC machining capabilities hold a significant importance as an interim operation within the Weld Overlay Cladding process. The knowledge and experience of CNC machining, inherited from our parent company (Delta Corporation), ranks DCLAD amongst the finest in the region. We have a state-of-the-art machine shop equipped with CNC controlled machinery of varying functionalities, with some integrated with robotics, capable of uptaking any type of CNC machining tasks entailing high precision and surface finishing.

These robust capabilities strengthens' DCLAD final Clad products given the impressive surface finishing and precision levels it could achieve in the pre-cladding and post-cladding stages, yielding excellent dimensional results within the strictest of tolerances.

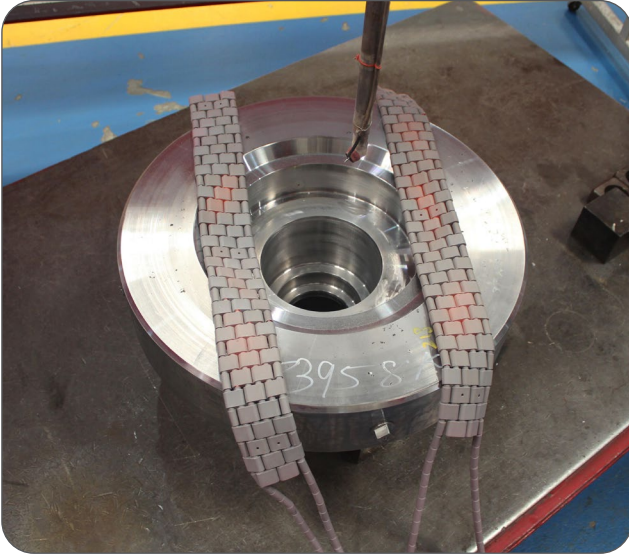
Below is a glimpse of our in-house machining capabilities:

- Mill / Turn 5-Axis Machines
- Boring Centers
- Turning Centers
- Vertical Machining Centers
- Valve Center – 5 VT



Heat Treatment Services

DCLAD has an in-house furnace installed to fulfill the requirements of its customers for post-weld heat treatment (PWHT).



QUALITY CONTROL & ASSURANCE

DCLAD shall satisfy customer requirements and expectations in a competitive manner through continual quality improvement of our products and services.

The scope of services provided by DCLAD includes Manufacture and Repair of Components with Corrosion Resistant Overlays for Valves, Wellhead and X-mas Tree Equipment; Fabrication of piping spools; corrosion Resistant Overlaying of Pipes, Flanges and Fittings; Provision of Welding Services.

To accomplish that, Dclad is committed to complying with the requirements of ISO 9001:2015m API Q1:10th Edition, ISO 14001:2015, ISO 45001:2018, ISO 3834-2:2021 and other related standards to build effective Quality, Health, Safety & Environment (QHSE) management system & continually improve its performance through:

- Management's commitment to ensure QHSE policy, objectives, standards, and procedures are understood by all interested parties.
- Following appropriate legal and customer requirements adopting the highest and latest technology in its business, minimizing human errors, and encouraging the continual improvement of the QHSE management system, employee performance, internal & external communications, clients' feedback system, processes, products, and services.
- Its commitment to customers' satisfaction by providing precise and high-quality products that consistently conform to the pre-defined requirements, applicable legislation, regulations, and relevant industry, legal, and other requirements to meet and exceed customers' expectations.
- Review of its QHSE policy in planned intervals to ensure it is appropriate, well-communicated, understood, implemented, maintained, and available to relevant interested parties, as appropriate.
- QHSE objectives at relevant functions and levels are established measurable & consistent with this policy.
- Every DCLAD employee, who is responsible for, and committed to, the health and safety of ourselves, our team, the local community, and all of those who support our daily operations. We are committed and accountable for reducing hazards and risks in our workplace by setting up manufacturing processes to control pollution and prevent injuries or ill health.
- System for ensuring that all people working for or on behalf of DCLAD are appropriately informed and trained and they will act to prevent ill health, injury, damage, and loss and in prevention of pollution.
- Adaption of best HSE practices into the day-to-day business life and developing a culture of reporting all incidents and accidents as a basis for improving HSE performance, understanding & and accepting the responsibility and commitment towards conservation of natural resources.
- Its commitment to worker consultation and participation and where they exist, worker representation in all HSE-related activities.





PROJECT MANAGEMENT

A core strength of DCLAD is the professional approach it adopts in managing its projects. We have a project management department comprising of engineers having +10 years of project management experience in the field of Weld Overlay Cladding. A skilled project engineer, reporting to a project manager, is assigned for every project serving as a pivotal point of communication between our respective customers and the internal cross-functional departments. This is a stimulation to our mission in achieving customer satisfaction given the numerous value additions we could introduce to our overall customer experience such as; high responsiveness to customers requests, effective planning and scheduling, progress reporting, proper documentation, budget control, professional management of change orders, risk assessment and management, project-closure activities, and many others.



CLIENTELE

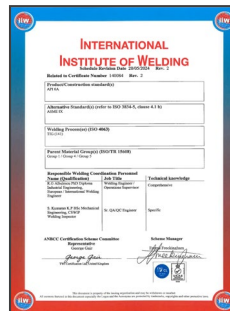
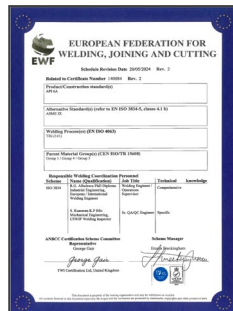
Contractor



End User



DCLAD CERTIFICATIONS



API Q1 & API 5LD
BUREAU VERITAS
EWF, WG
UKAS PRODUCT CERTIFICATES
ISO 9001, 14001 & 45001

EXCELLENCE IN CRA CLADDING

Contact Us:

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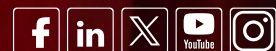
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