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 **ETECT**
SINCE 2006
METECT JSC.

Mechanical Tech Beyond Borders

OUR FACTORY IN HUNG YEN PROVINCE,
60 MINUTES TO HAIPHONG PORT

FOOD PROCESSING INDUSTRIAL EQUIPMENT



Dear Valued Partners,

Thank you for your interest in our capabilities and services. Since 2006, METECT has been dedicated to bringing Vietnamese mechanical products beyond technical limits and geographical borders. We take pride in our advanced manufacturing facility, where technology meets a highly skilled workforce.

Our expertise is proven through long-term partnerships in the Dutch market. By consistently supplying high voltage disconnectors, maritime lifesaving systems, and food industry machinery over the years, we have demonstrated capability to meet the strict quality regulations of the EU region. With our strategic location and infrastructure connectivity, we focus on optimizing production and logistics to ensure on-time delivery for international projects.

Marking our 20th anniversary, we are proud to announce that METECT has officially achieved ESG Certification from Synesgy, which confirms our commitment to the global green supply chain, ensuring transparency and environmental responsibility in every partnership.

We look forward to our future cooperation.
Sincerely,



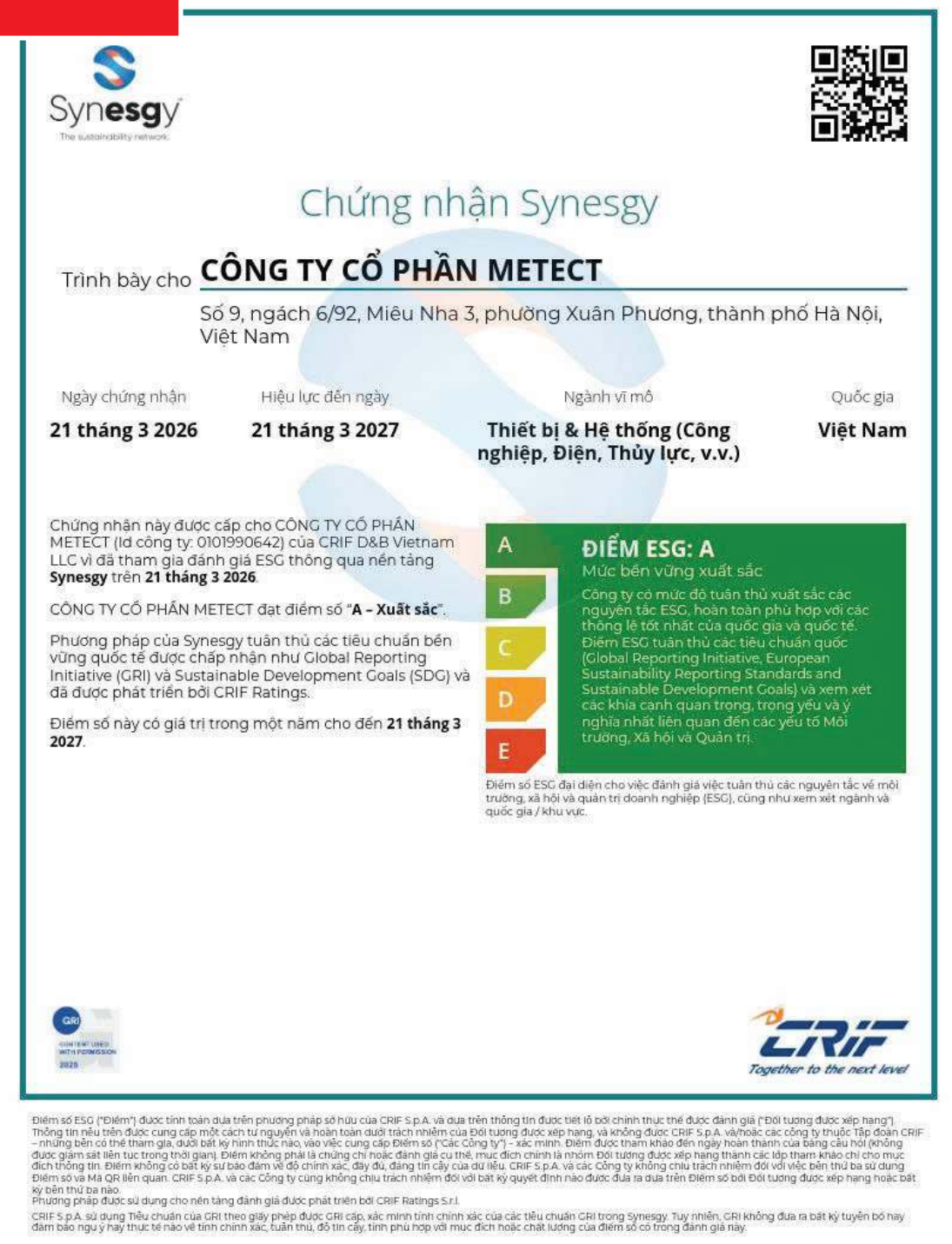
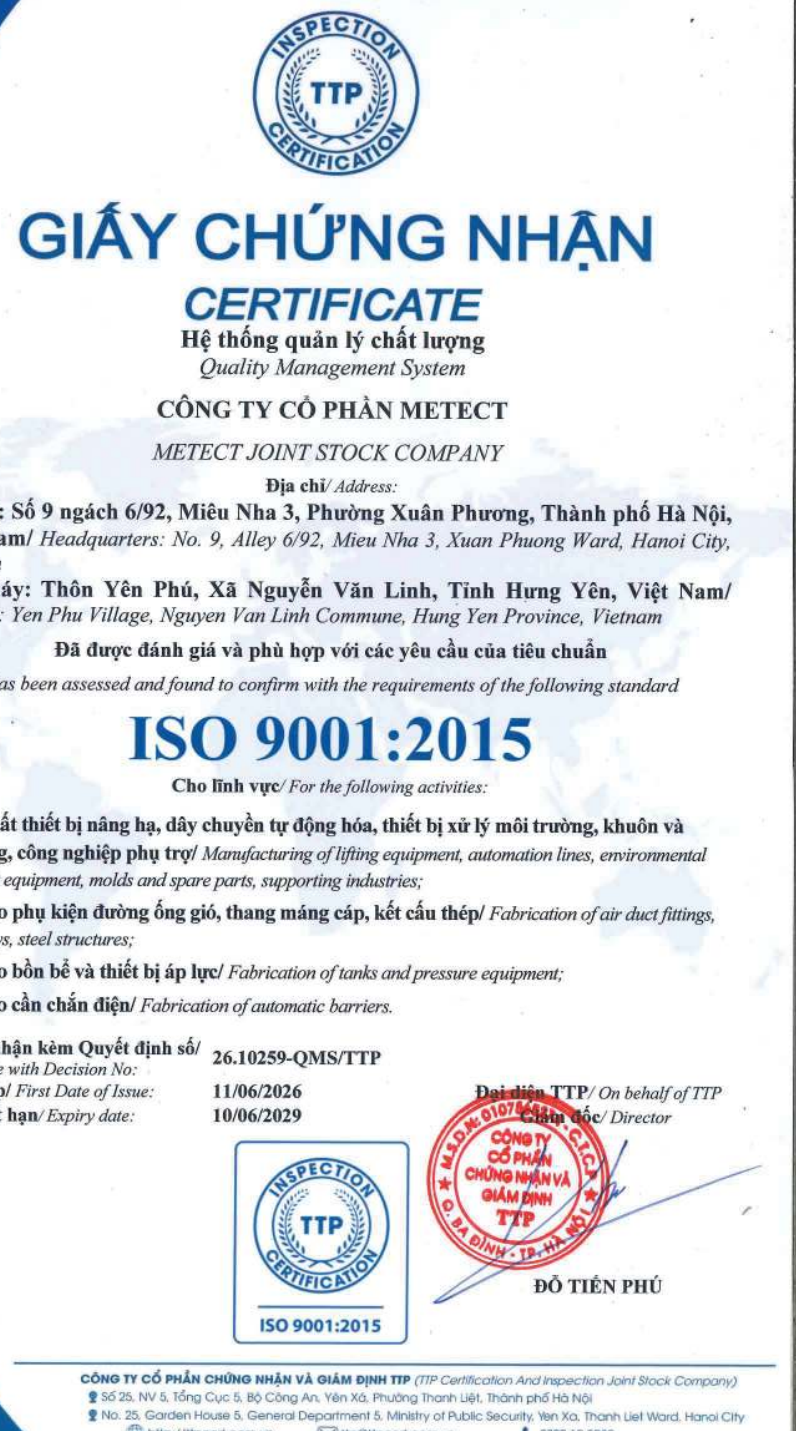
Doan Ngoc Anh (Mr.)
CEO, METECT JSC

MARITIME INDUSTRY



ENERGY SECTOR EQUIPMENT STRUCTURES





METECT EQUIPMENT LIST

No.	Items	Quantity	Manufacturer	Origin	Specifications
1	CNC gantry milling machine	1	LUBAN	China	Working area: 2800x4000x1500 mm (Milling max part length of 8000mm)
2	CNC laser cutting machine	1	Yawei	China	2000x6000mm
3	CNC plasma cutting machine	1	SON VU	Vietnam	I = 115A SPC 2060 2000x6000mm
4	CNC milling machine	1	MAKINO	Japan	Working area: 1050x600x600mm
5	CNC milling machine	1	OKK	Japan	Working area: 750x400x450mm
6	CNC lathe machine	1	DAILICHI	Japan	Dmax 300 L max 2000 mm
7	CNC lathe machine	1	DAILICHI	Japan	Dmax 200 L max 800 mm
8	Universal lathe machine	1	YAMAZAKI	Japan	Dmax 700 L max 1000 mm
9	CNC Press brake machine	1	Yawei	China	P = 125 tons L = 3200mm
10	Sheet metal rolling machine	1	AMADA	Japan	Rolling thickness: 15 x 3000 mm

METECT EQUIPMENT LIST

No.	Items	Quantity	Manufacturer	Origin	Specifications
11	Laser welding machine	1	VNTECH	Vietnam	1000W
12	Mig 500 welding machine	6	Panasonic	Japan	I = 500A
13	Tig 300 welding machine	2	Panasonic	Japan	I = 300A
14	Circular Saw Machine	1	AMADA	Japan	Dmax 320mm
15	Abrasive blasting system, Paint spraying system	1	METECT	Vietnam	Working area: 2000x6000x2000mm
16	Screw air compressor	2	HANBELL	Taiwan	P=15 KW
17	15-ton cranes	2	METECT	Vietnam	Q = 15 tons



TECHNICAL CAPACITY

Since 2006, METECT has continuously invested in and upgraded its manufacturing systems to meet the most stringent technical standards of international markets. With our factory in Hung Yen — just 60 minutes from Haiphong Port — we operate advanced CNC machinery, a skilled technical workforce, and rigorous quality control, ready to fulfil precision machining orders from single prototypes to high-volume production.

PRECISION MACHINING CAPABILITY

Large-Scale CNC Milling

CNC gantry milling system with working area 2,800 × 4,000 × 1,500 mm, enabling components up to 8,000 mm in length — ideal for large steel structures in maritime, energy, and heavy industry.

CNC Turning

Japanese-brand CNC lathes (Dailichi, Yamazaki) up to Ø320 mm diameter and 2,000 mm length, delivering high-tolerance precision for shafts, drums, pulleys, and bushings.

Laser & CNC Plasma Cutting

Sheet cutting capacity of 2,000 × 6,000 mm using laser (Yawei) and CNC plasma (SPC 2060), delivering high-precision cuts with clean edges across a wide range of material thicknesses.

Press Braking & Plate Rolling

CNC press brakes rated at 125 tons / 3,200 mm (Yamazaki Japan & Yawei Taiwan), combined with a plate rolling machine for 15 mm thick × 3,000 mm wide material — handling complex steel forming requirements.

FACTORY INFRASTRUCTURE & INTERNAL TRANSPORTATION

2 bridge cranes for flexible handling of large steel structures and components throughout the workshop.

HANBELL screw air compressor (Taiwan), 15 kW capacity, providing stable compressed air to the entire production line.

Factory in Hung Yen — 60 minutes to Haiphong Port, with convenient access to key northern industrial zones.



SURFACE TREATMENT & FINISHING

Abrasive Blasting

Blast room 2,000 × 6,000 × 2,000 mm, achieving Sa 2.5 standard — the foundation for durable protective coating.

Integrated spray painting system

Integrated spray painting system with controlled environment for consistent adhesion and coating thickness per international standards.

Hot-dip galvanizing & electroplating

Carried out through certified partners, applied to outdoor structures and high-voltage electrical equipment.



STRUCTURAL WELDING CAPABILITY

METECT is equipped with 03 advanced welding technologies, matched to specific material and application requirements:

MIG/MAG 500A WELDING

Panasonic Japan — 06 units. Structural steel welding with high productivity and consistent weld quality.

TIG 300A WELDING

Panasonic Japan — 02 units. Stainless steel, copper and thin-gauge material welding with high aesthetic finish.

1000W LASER WELDING

VNTECH Vietnam. Precision welding of small components with minimal thermal distortion.

Our welding team is trained to international welding standards (ISO 3834), with weld quality certified for VT, UT, and MT inspection for marine components and pressure vessels.



EXPORT MARKET CAPABILITY

Over 20 years, METECT has proven its capabilities through sustained export projects to the European market (Netherlands) — including high-voltage disconnecter components, marine lifesaving systems, and food processing equipment. The ability to manufacture from international engineering drawings (ISO / DIN / ASME), process English-language technical documentation, and deliver bilingual quality reports is our core competitive advantage in the global supply chain.



QUALITY CONTROL

No.	Items	Standard / Certification
1	Quality Management System	ISO 9001
2	Sustainability	ESG Certification (2025)
3	Weld Inspection	VT / UT / MT per customer requirement
4	Machining Tolerance	IT6 – IT8 per engineering drawing
5	Material Traceability	Full traceability with Mill Test Certificates (MTC)



METECT specializes in precision fabrication of high-specification components for lifting systems and marine equipment, manufactured strictly to customer design. From main frames and winch drums to dynamic components, we guarantee absolute dimensional accuracy and weld quality to international maritime standards. The combination of advanced machinery and rigorous process control makes METECT a trusted manufacturing partner, optimizing performance and durability for all specialized marine equipment.



Mooring Bollard – Safe Anchor Point for Lifeboats

Stainless steel lifeboat mooring bollard with polished surface to minimize rope wear. Bolt-mounted, superior load-bearing design ensures stable, reliable holding in all emergency conditions at sea.

**Safety Handle
Grip Support for Rescue Operations**

Marine-grade stainless steel safety handle for lifeboat hulls. Polished, corrosion-resistant surface with robust bolt-on mounting provides firm grip for crew and survivors in emergency rescue operations.



Rope Latch Set – Safety in All Situations

Galvanized steel lifeboat slip hook with integrated spring for fast, precise pin release. Robust saltwater-resistant construction ensures secure hold and instant emergency deployment when needed.

METECT
PRODUCTION CAPACITY



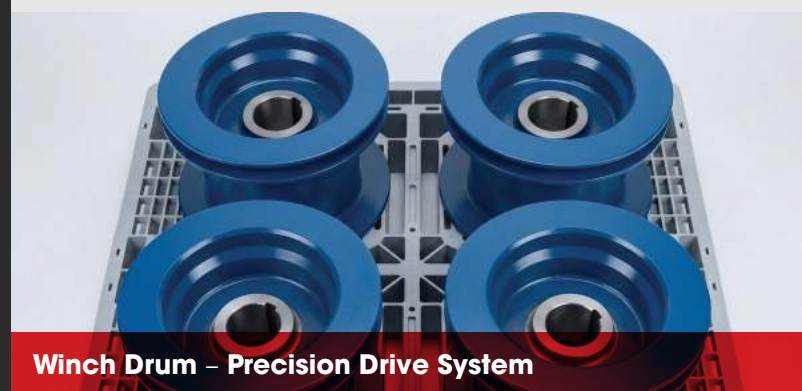
Precision-machined high-strength steel main frame for ship-mounted Davits cranes. Manufactured to tight tolerances with full assembly readiness — the structural backbone for reliable offshore lifting operations.

SCM Davit Main Frame – Structural Foundation

High-strength steel pedestal foundation for direct hull welding on marine vessels. Engineered to withstand bending moments and compression — the stable base for Davit arm operation at sea.



SCM Davit Pedestal – Foundation Base for Davits



Precision-machined steel drum with profiled cable groove to minimize friction and extend wire rope life. Core driving component for smooth, safe, continuous load handling in marine Davits systems.

Winch Drum – Precision Drive System

Crane Head Sheave Reliable Load Cable Guide

Cast and precision-machined sheave for Davits crane heads. High concentricity and smooth rope groove reduce cable friction, ensuring reliable, corrosion-resistant load guidance in harsh marine environments.



Heavy-gauge steel winch housing machined to tight tolerances for perfect shaft and gear alignment. Shields the gear-box and drivetrain from vibration and marine corrosion for long-term stable operation.

Winch Housing – Drive System Protection Frame

Precision-machined premium copper alloy shaft bushings — self-lubricating, heavy-load rated, and wear-resistant. Maintain low-friction, stable operation of lifting gear in the most demanding marine conditions.



Copper Shaft Bushing – Optimal Anti-Wear Solution



High-strength stainless steel remote-release mechanism for Davits systems. Supports both manual and auto-release modes, ensuring rapid, safe load-off for marine rescue and heavy-lift operations.

Cable Release Handle – Safe Load Release Mechanism

Control Pull Handle Instant Quick-Release Operation

Ergonomically designed stainless steel control handle for activating the Davits load-release mechanism. Optimized geometry and clear markings ensure fast, reliable response in emergency rescue situations at sea.





METECT provides precision machining services for components used in food processing lines, fabricated strictly to customer design specifications. We specialize in manufacturing cooking vessels, storage tanks, and machine frames from dedicated stainless steel, ensuring absolute compliance with food hygiene and safety standards. Through hermetic welding, surface polishing, and high-precision assembly, METECT delivers durable products that optimize operational efficiency.

FOOD PROCESSING INDUSTRIAL EQUIPMENT



Stainless Steel Agitator Vessel
Food Hygiene Standard

All-stainless-steel jacketed agitator vessel fabricated to customer specifications. Full-penetration welds and mirror-polished surfaces meet the strictest food hygiene standards for durable, sanitary performance.

CNC-milled and bored steel machine frame for industrial food mixing equipment. Structural welds combined with precision-machined mating surfaces ensure high positional accuracy and perfect drive component alignment.



Food Mixer Machine Frame
Foundation for Food Equipment



Double-Wall Steel Jacket Agitator Vessel
Food Processing Solution

Custom jacketed agitator vessel: food-grade stainless steel inner lining with robust carbon steel outer shell. Precision-welded and surface-finished to food safety standards for optimal thermal efficiency.

Double-Wall Food Cooking & Storage Pot – Specialized Fabrication

Premium stainless steel jacketed cooking and storage pot fabricated to order. Professional welding and smooth mirror finish ensure efficient heat transfer and full food-safety compliance for industrial processes.





METECT specializes in precision steel fabrication for the switchgear and power transmission industry. From copper current-conducting components to large-scale load-bearing steel frames, we ensure strict compliance with every demanding technical standard set by our customers. With deep structural welding expertise, precision machining, and optimized surface treatment, we deliver durable products that contribute to the stability of global energy infrastructure.

ENERGY SECTOR EQUIPMENT STRUCTURES

Flexible Braided Shunt Reliable Electrical Connection

Flexible earthing shunt braided from pure tin-plated copper strands with crimp-terminated connectors. Delivers superior conductivity, vibration resistance, and oxidation protection for industrial switchgear and panel applications.



Tin-Plated Copper Components
Reliability for High-Voltage Systems

Precision-machined copper switchgear components with dedicated tin-plated surface coating. Ultra-tight tolerances and high thermal capacity minimize energy loss and ensure safe, stable high-voltage operation.

CNC-machined and welded steel components — from cylindrical parts to complex gusset plates — fabricated to drawing. Hot-dip galvanized finish provides superior corrosion resistance for demanding industrial systems.



Precision Steel Components
Durable Connection Solution



Structural Steel Components
Solid Foundation for Energy Sector

Heavy structural steel components for switchgear and power transmission equipment. Precision-welded and fully galvanized to withstand high loads, ensuring long-term safety and stability in electrical infrastructure.

High-Voltage Cable Clamp Set Specialized Connection Solution

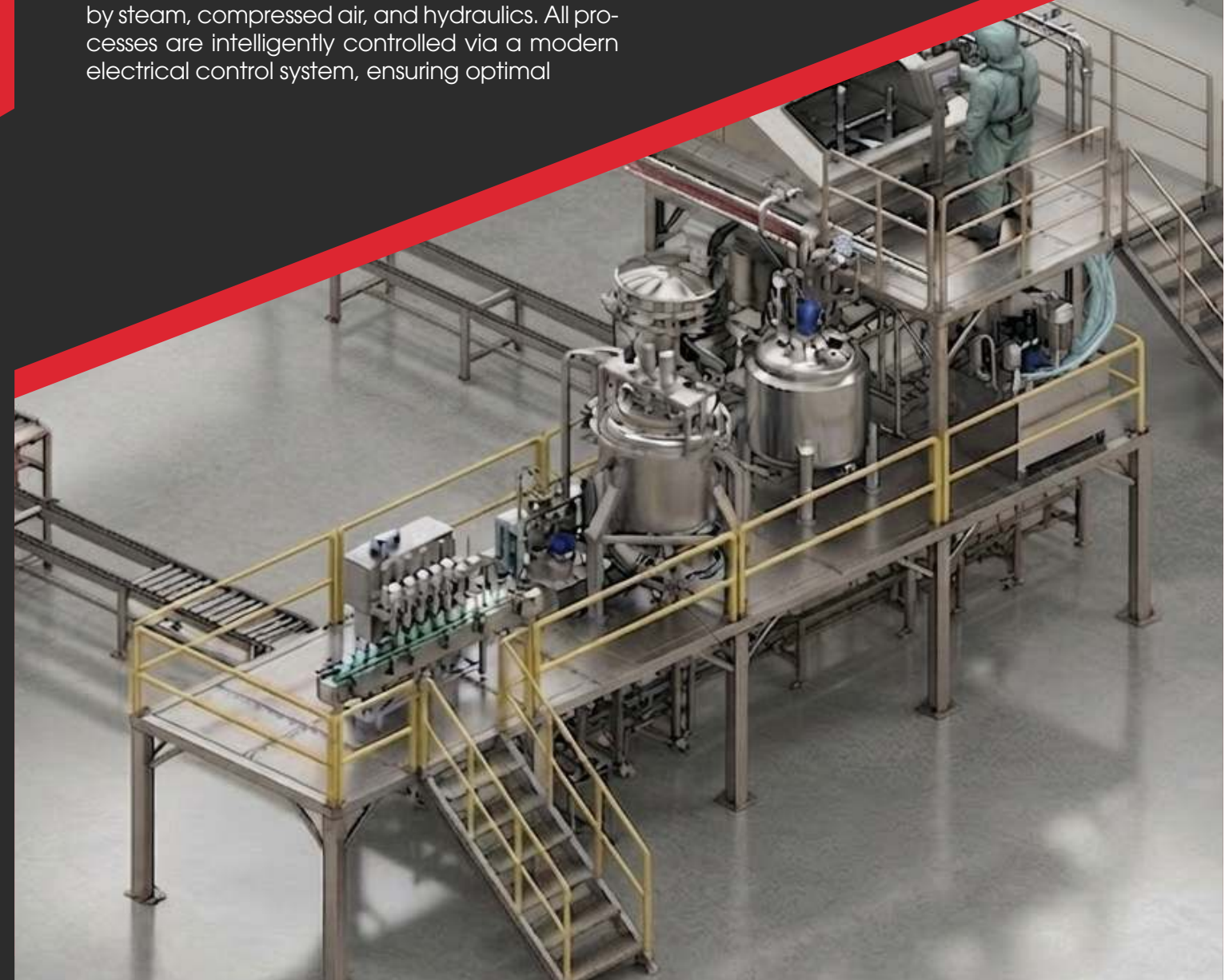
Stainless steel high-voltage cable clamps with precision-machined mating surfaces and bolt holes. Tight tolerances ensure secure cable retention, meeting stringent technical standards for power transmission infrastructure.





AUTOMATED LIQUID FILLING LINE

METECT is proud to have manufactured and commissioned an automated liquid production line for **the Ministry of National Defence factory**. The integrated system includes belt conveyors, roller frames, vibrating screens, cooking vessels, agitator pots, and liquid storage tanks, operated via precision weighing and dosing systems powered by steam, compressed air, and hydraulics. All processes are intelligently controlled via a modern electrical control system, ensuring optimal



METECT

PROJECTS & PARTNERS



HYDRAULIC SCISSOR LIFTS HEAVY-DUTY INDUSTRIAL LIFTING SOLUTION

METECT manufactures custom hydraulic scissor lifts to stringent customer design requirements, supporting lifting capacities up to 12 tons with an advanced hydraulic control system for flexible speed adjustment. With precision-machined load-bearing steel frames and strict load testing, we deliver safe, stable, and durable lifting equipment for high-intensity industrial environments. Supplied and installed at **Hitachi ABB factory, Bac Ninh province.**



ELECTRIC RAILWAY BARRIER SYSTEM A SAFE SOLUTION FOR VIETNAM'S RAILWAYS

METECT has supplied a large number of electric railway barrier systems for **Vietnam's North-South railway network**. Each unit is precision-fabricated from hot-dip galvanized steel, ensuring maximum durability under harsh weather conditions. With flexible design, stable operation, and a robust load-bearing structure, our barrier systems have significantly contributed to traffic safety at level crossings nationwide.

CASTING FACTORY PROJECT VINA ITO FACTORY

METECT proudly served as the general contractor for fabricating a modern steel casting production line for **Vina Ito, Ha Nam province**. The fully integrated system includes hoists, bridge cranes, belt conveyors, bucket elevators, chain conveyors, material cyclones, dust extraction systems, and high-capacity vibrating screens. Through robust structural welding, precision assembly, and strict quality control, we delivered a synchronized line that maximizes productivity and durability.



METECT THANK YOU LETTER



METECT THANK YOU LETTER

