



FABRICATION CAPABILITY

YOUR TRUSTED
PARTNER IN
**ENGINEERED
PROJECT SOLUTIONS**

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INTRODUCTION

Since 2000, Wayoe Engineering and Construction Limited (WEC) have grown into a leading global business with decades of expertise and a robust leadership, ready to take on any challenge.

As a privately-owned Ghanaian company that continues to expand our workforce and reach, we specialise in the supply and installation of structural steel, platework, piping, mechanical equipment, electrical and instrumentation, and site maintenance services.

WEC offers clients significant flexibility in the range of fabrication services it can deliver, from the production of small individual items that may be needed on-site urgently to large construction fabrications over 1000 metric tonnes. This flexibility is based on a well-equipped fabrication and machining workshop facility in Takoradi covering over 65,000 m² undercover to deliver large project fabrication requirements on time and to international quality standards.



WEC began operations and worked in the mining industry. Developed became a key player in the mining industry.

2000



2017

WEC expanded to a new fabrication yard in Takoradi that can handle 120 tonnes of monthly production



2018



Acquired 21 cranes for operations. Over \$50 million in projects have been completed in Africa.

2019



Increased presence in Africa. Became a household name in the steel construction industry

2020 - 2023

WEC expanded to a new fabrication yard in Takoradi capable of handling 600+ tons of monthly production.



OUR STORY

WEC has delivered positive outcomes for clients on project executions of up to \$50 million. The company's growth has brought together a capable and diverse team of management and staff as it has continued to build the range of services it offers.

WEC has established an efficient and well-managed SMPP (structural steelwork, mechanical equipment, piping, and platework) fabrication capability, allowing the company to meet the demands of large project execution with a quality product, a competitive price, and significant time savings.

This competitive edge is one of a number of factors that allow WEC to exceed client expectations on a regular basis across the full range of services the company provides.



KEY MARKETS & OUR EXPERIENCE



MINING

In the last 20 years, WEC has become a household name in the mining sector across Africa, and we don't plan on stopping there. In this time, we have accumulated experience from conducting a range of **SMPP & EC&I services;**

Services:

- ⌞ Construction of major greenfield developments
- ⌞ Retrofits and expansions of existing facilities (brownfield projects)
- ⌞ Detailing, Shop Fabrication and Installation
- ⌞ Maintenance
- ⌞ Shutdowns
- ⌞ Underground upgrade and maintenance



OIL & GAS

WEC was awarded a 5-year contract with MODEC/Tullow to provide onshore fabrication services for offshore operations due to being the top choice in SMPP construction.

⌞ Offshore/Subsea construction

- ⌞ Specialised Procurement Services
- ⌞ Reengineering , Maintenance & Shutdowns
- ⌞ Detailing, fabrication, assembly, and testing of subsea modules
- ⌞ Template and manifold
- ⌞ PLEM and PLET
- ⌞ Pipe spools
- ⌞ Riser bases
- ⌞ Suction piles
- ⌞ Lifting frames and beams
- ⌞ Protective structures
- ⌞ Installation aids.

⌞ Onshore construction

- ⌞ Specialised Procurement Services
- ⌞ Detailing, Fabrication & Installation
 - ⌞ Piperacks
 - ⌞ Engineered Skids
 - ⌞ Plant Structure
 - ⌞ Warehouse
 - ⌞ Tank Farms
 - ⌞ Pressure Vessels
 - ⌞ Heat Exchangers
 - ⌞ Piping Spools
 - ⌞ Site piping works
- ⌞ Reengineering , Maintenance & Shutdowns
- ⌞ Heavy Lifting Equipment Rental
- ⌞ Rope access.



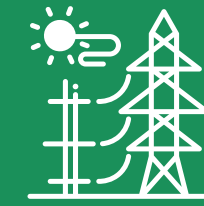
INFRASTRUCTURE & INDUSTRIAL

At WEC Infrastructure and Industrial Solutions, we offer tailor-made services of the highest standard that are cost-effective for our clients.

WEC was awarded the contract for the Takoradi Market Circle Project in Takoradi, Ghana. The scope includes but is not limited to painting, transportation, and erection of 1700+ tons of structural steel, roofing, and cladding works.

We provide:

- ⌞ Construction of workshop facilities
- ⌞ Fabrication & erection of process plant building, pipe rack & equipment erection
- ⌞ Specialised complete tank farm solutions including loading & unloading arms
- ⌞ Specialised skid-based solutions
- ⌞ Piping and pipeline solutions for unit piping and cross-country pipelines
- ⌞ Bridge decks or girders
- ⌞ Terminals and decks
- ⌞ Commercial Building & Special Architected Building projects
- ⌞ Airport terminals, specialised construction projects
- ⌞ Refineries, petrochemical & cement sector solutions
- ⌞ Utility modules.
- ⌞ Mechanical, Electrical and Plumbing (MEP) Detailing and Construction including Building Automation Solutions



POWER

We understand the importance of reliable and quality solutions for design, fabrication & erection services for power generation. So, we offer the finest quality services to ensure efficiency and effectiveness for our customers through our ultra-modern fabrication facility.

We offer:

- ⌞ Construction process modules
- ⌞ Heavy steel fabrication for turbine building, boiler structures & fuel storage facility
- ⌞ Pipe rack modules
- ⌞ Transmission towers
- ⌞ E-houses / substations
- ⌞ Solar Energy farms and industrial roof top plant installations.



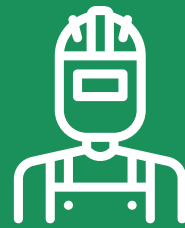
FABRICATION SERVICES

WEC's engineering and construction services are uniquely tailored to each client, providing them with sector-specific support that includes design, fabrication, painting, and installation.



Detailing

Upon learning your requirements, WEC will take your concept and create a 3D fabrication detailing and drawing to be reviewed before construction. This service covers a range of essential capabilities including structural engineering, detailed design, and laser scanning/survey.



Fabrication

Our expert team carry out high-quality steel fabrication of various industrial materials, and we adhere to strict engineering practices to ensure precise performance of our products.

Services offered by WEC include:

- ⌞ Heavy, large, complex steel weldment fabrication services
- ⌞ Tank construction
- ⌞ Pressure vessel, heat exchanger, pipe spools, chutes & ducts fabrication
- ⌞ Specialised modular & skid-based solutions for industrial, water & infrastructure projects
- ⌞ Rolled, formed, and welded steel cones
- ⌞ Steel and alloy plate bending and press brake forming
- ⌞ Steel and alloy plate rolling services
- ⌞ Plate cutting and processing
- ⌞ Steel component, pipe, and tube fabrication
- ⌞ Beveling
- ⌞ Welding
- ⌞ Cutting (oxy, saw and plasma)
- ⌞ Bending.
- ⌞ Pipe Miter Bending and Fabricated Miters

Fabrication Management System

We use STRUMIS to track our workflow processes from the initial enquiry stage to despatch and erection.

Procurement and Supply Chain Solution

WEC provides outstanding procurement and supply chain solutions to clients across our key markets.

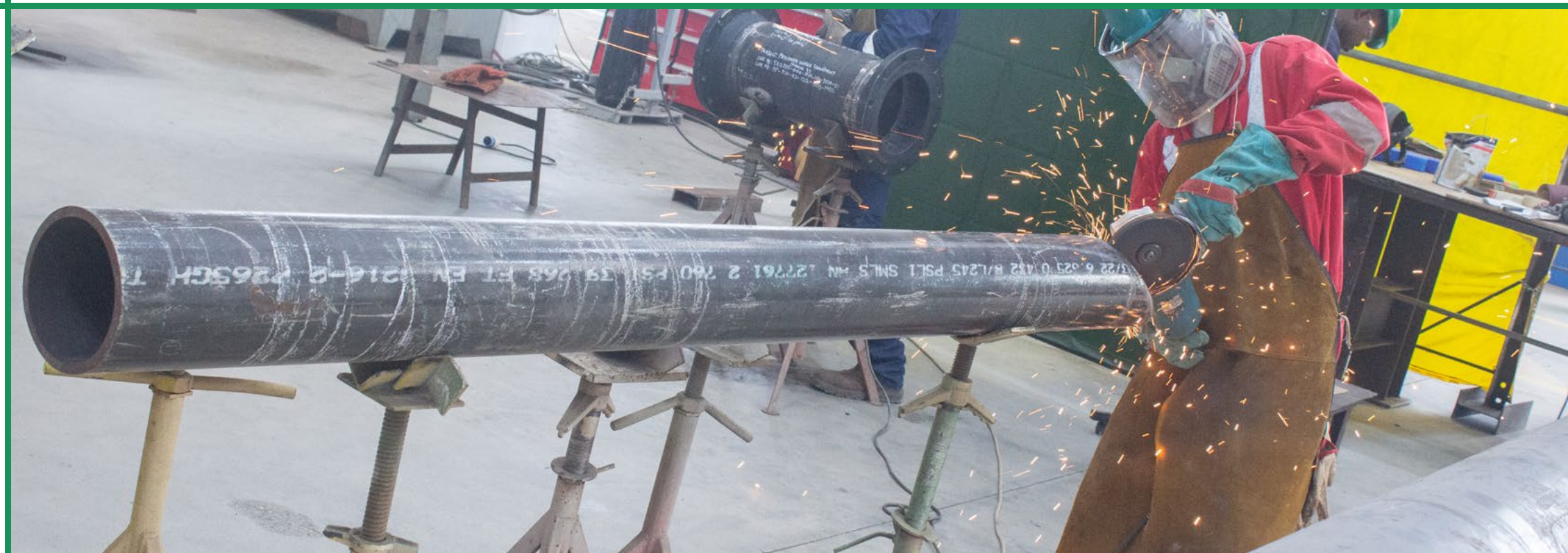
To save our clients valuable time with procurement, we support them in sourcing materials and equipment directly from manufacturers or accredited distributors. WEC also offers the supply of prefabricated steel products for project execution, regardless of location.

We fabricate:

- ⌞ Carbon steel
- ⌞ Mild steel
- ⌞ Stainless steel
- ⌞ Copper nickel
- ⌞ Duplex
- ⌞ Super duplex.

We weld using these processes:

- ⌞ SMAW
- ⌞ GTAW
- ⌞ GMAW
- ⌞ FCAW
- ⌞ SAW.



UNIQUE VALUE PROPOSITION

WEC are always prepared to offer support at short notice by:

- ⌞ No more fabricating steel outside Africa.
- ⌞ No more waiting for ships to come to port.
- ⌞ No more port delays.
- ⌞ No more customs duties or taxes (WEC are in a tax-free zone).
- ⌞ You can inspect the progress at any time (no more misleading fabrication schedules).
- ⌞ We can pass on those savings to our clients.
- ⌞ WEC would transport all fabricated steel products directly overland within West Africa.



OUR FACILITIES

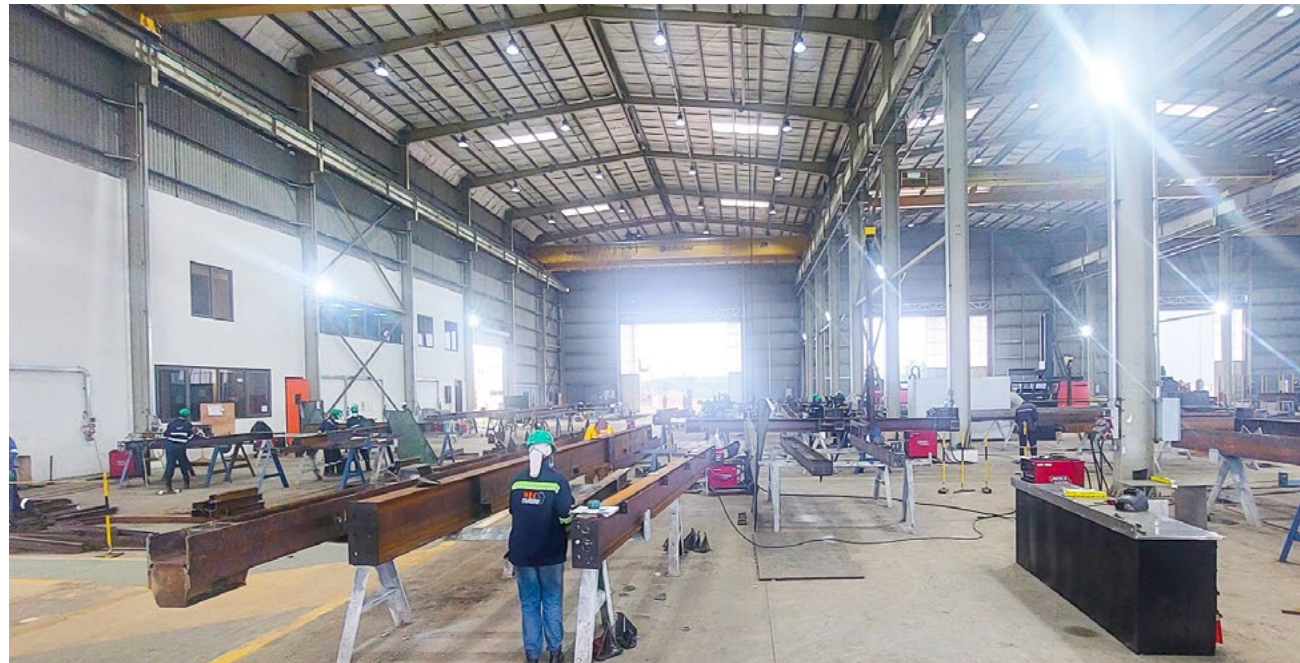


Production Yard

- Location: Ewusiejoe, Behind Mantrac Ghana CRC, Western Region, Ghana
- Size: 65,000m²
- Fabrication workshop size: 6,000m²
- Production output: 600 – 1000+ tons per month.

Facilities:

- Fabrication workshop capable to handle heavy fabrication work up to 90mm THK plates
- Machine workshop equipped with state-of-the-art CNC machines connected with the engineering department
- Material laydown - 16,000m²
- Warehouse
- Open fabrication area for large components.



Shot Blasting & Painting Facility

- Located in a new ultra-modern fabrication yard
- Blasting room: 16x9x9m with grit recovery and dust filtering system
- Painting room: 16x9x9m with temperature and humidity control system & backing.

Our technology at WEC allows us to provide our signature high-quality fabricated products that can withstand corrosion.

Plus, our shot blasting capabilities provide surfaces that are not only clean, but also enhance paint adhesion. This reduces the maintenance costs as it extends coating life. Whatever our client's require, we can offer suitable steel paintings and product finishes that meet their requirements.



OUR FACILITIES

Auxiliary Fabrication Yard

- Location: Ewusiejoe, Agona-Ahanta Highway, Western Region, Ghana
- Size: 12,312.0m²
- Fabrication Workshop Size: 1,425.6m²
- Production Output: 80 – 120 tons per month.

Facilities:

- Fabrication workshop
- Blasting and painting booth
- Material laydown
- Warehouse
- Open fabrication area.

Rope Access Facility

As part of the Industrial Rope Access Trade Association (IRATA), WEC conducts all rope access works in compliance with the association, which allows us to provide clients with inspection, repair, maintenance, and renovation support.

Jetty Yard

Our jetty yard of around 3,500m² area is capable of handling module assemblies with convenient access to a quayside for loading of modules and oversize equipment loading for subsea and offshore structures.

Crane Yard

- Located on Axim Road, Takoradi, Ghana.
- Size: 9,500m²
- Cranes: 23
- WEC's crane yard has easy road access to Takoradi Commercial Airport, Takoradi Ports and Harbours, and Sekondi Naval Base.



OUR TECHNOLOGY

What is it?

We invested in technologies that are specialised for our operations, which involves acquiring accurate dimensional data and eliminating manual steel fabrication processes and ensure precision and quality.

Our CNC Machines Capabilities

- ▮ Pipe profiling
- ▮ Beam cold cutting, drilling & marking
- ▮ Plate cutting and processing
- ▮ Plate/sheet rolling
- ▮ Plate and pipe bevelling
- ▮ Heavy plates cutting (oxy, saw and plasma)
- ▮ Cold bending of pipes and profiles
- ▮ Auto-feed portable beveller
- ▮ Specialised flanges, tube sheet and plates drilling, facing & milling capacities.

Survey and Dimensional Control Instruments:

- ▮ Faro Focus 3D-X330 Laser Scanner with Faro Scene software
- ▮ Leica TS/6 A 3" R500 total Scanner with ATR with Geocom Robotics TS/MS Software
- ▮ Topcon OS-103 Total Station with Spatial Analyser

Production and Management Software:

- ▮ Strumis

Design Software:

- ▮ Tekla
- ▮ Autodesk AutoCAD
- ▮ Lantek



CNC AHS 4-Roll Hydraulic Plate Rolling Machine AHS 3076



FICEP HP 16 T4 - CNC Punching and Shearing Line for Angles



HGG Pipe Profiling Machine SPC 1000 PT

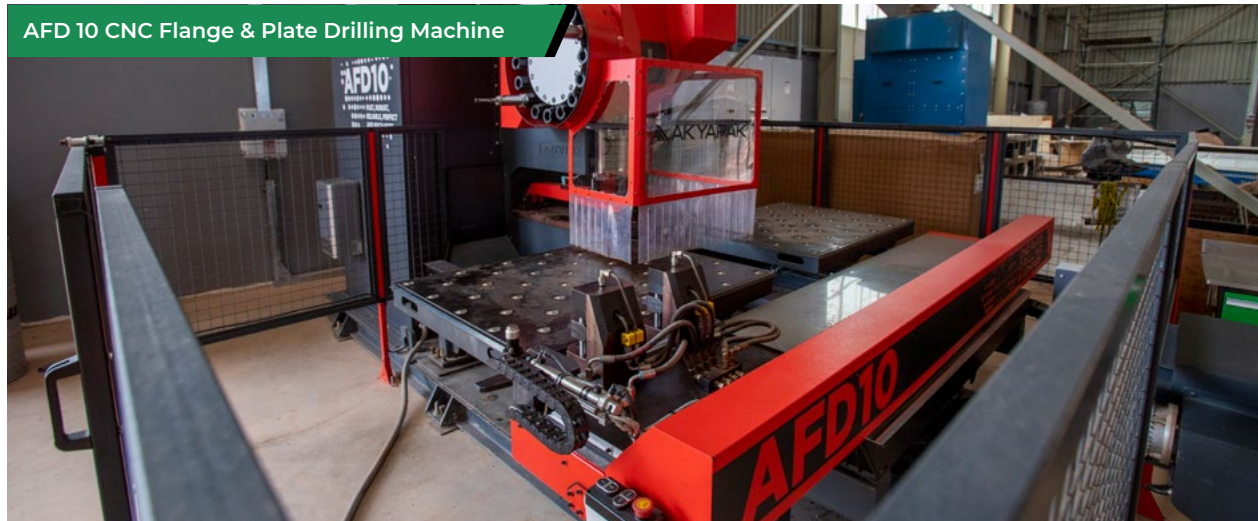
APK 360 Hydraulic Profile Bending Machine



3ADM 1200 Three Spindle 10 Axis CNC Drill Line



AFD 10 CNC Flange & Plate Drilling Machine



APK 360 Hydraulic Profile Bending Machine



APLG CNC Plate Processor Gantry Combined CNC Drilling & Oxy-Fuel Plasma Cutting



AST-1200 Miter Bandsaw



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