

TECH STEEL

A TECH GROUP COMPANY

COMPANY PROFILE

www.techgroup.ae





TECH GROUP

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TECH GROUP

Since its establishment in 2003, Tech Group has grown into a vertically integrated multi-discipline construction and industrial company with a leading position in its markets.

The Group has businesses in various contracting disciplines such as piling and foundations, contracting, ready-mix concrete, electro mechanical works, steel fabrication, aluminium and glass, interior and joinery works, concrete blocks and premium quality petroleum, bitumen and bituminous products.

Tech Group adheres to the highest quality, health, safety and environment standards with most of its businesses achieving ISO 9001, ISO 14001 and OHAS 18001 certifications.

Tech Group comprises of the following core companies;

Tech Construction

Tech Engineering

Tech Foundations

Tech AluGlass

Tech Remix

Tech Blocks

Tech Wood

Tech Steel

Tech Petroleum

Associate Businesses:

TG Properties

TG Ecosix Holding

GROWTH

In 2006, Tech Group launched its expansion with the establishment of key verticals in the construction business.

Significant investments were made in setting up new businesses, manufacturing plants, machinery, technology and equipment.

The synergies between the Group's entities enable it to create a value chain for the customer by offering wide range of solutions for the construction industry.



PROJECTS

AED 10 Billion

Major projects delivered since 2003

TECH STEEL

With one of the largest and most modern facilities for the fabrication of Cut & Bend steel in the UAE, the company provides integrated solutions of reinforcement steel and Design Fabrication & Erection of all kind of Pre-Engineered buildings & Hot Rolled products.

Since its establishment in 2008, Tech Steel has served as a solution provider to multiple projects across the UAE.

Tech Steel is an ISO 9001:2015, ISO 14001:2015, ISO 18001:2007, certified company led by a highly experienced team of professionals specializing in all areas of the industry with a well-structured and implemented Environmental, Health & Safety procedures in place.

All reinforced steel and structural steel solutions comply with most stringent international standards.



OUR PEOPLE

Tech Group's foundations are built on the experience and skill of the people who work for us. We have a passionate and focused team of people who excel in everything they do.

The innovative spirit and inquisitive nature of our people has helped us build the businesses we are in.

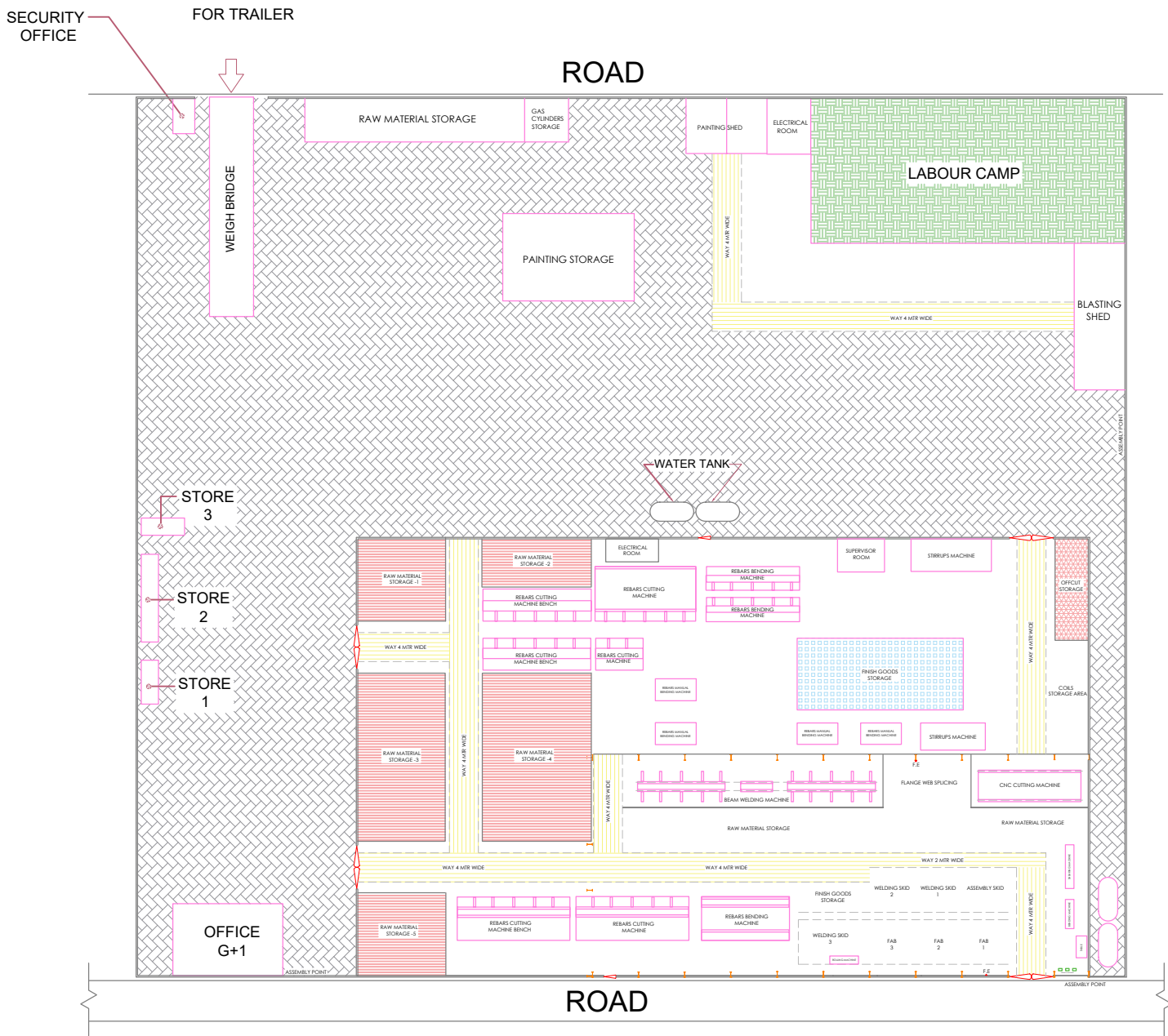
The key to our success is accountability. We empower and support our teams to be the best they can be. We encourage them to collaborate, voice their opinions and share their ideas.

We believe in providing challenging opportunities for people to learn and grow, be clear on their responsibilities and be driven to deliver.

We truly value our people and our extended team of subcontractors and consultants.



FACILITIES



SERVICES

REINFORCEMENT

Tech Steel provides steel reinforcement from both reputable local and international suppliers such as Emirates Steel Industries, Qatar Steel, Turkish Manufacturing Mills, Conares Steel, Gulf Steel, Star Steel and Hamriyah Steel



FABRICATION

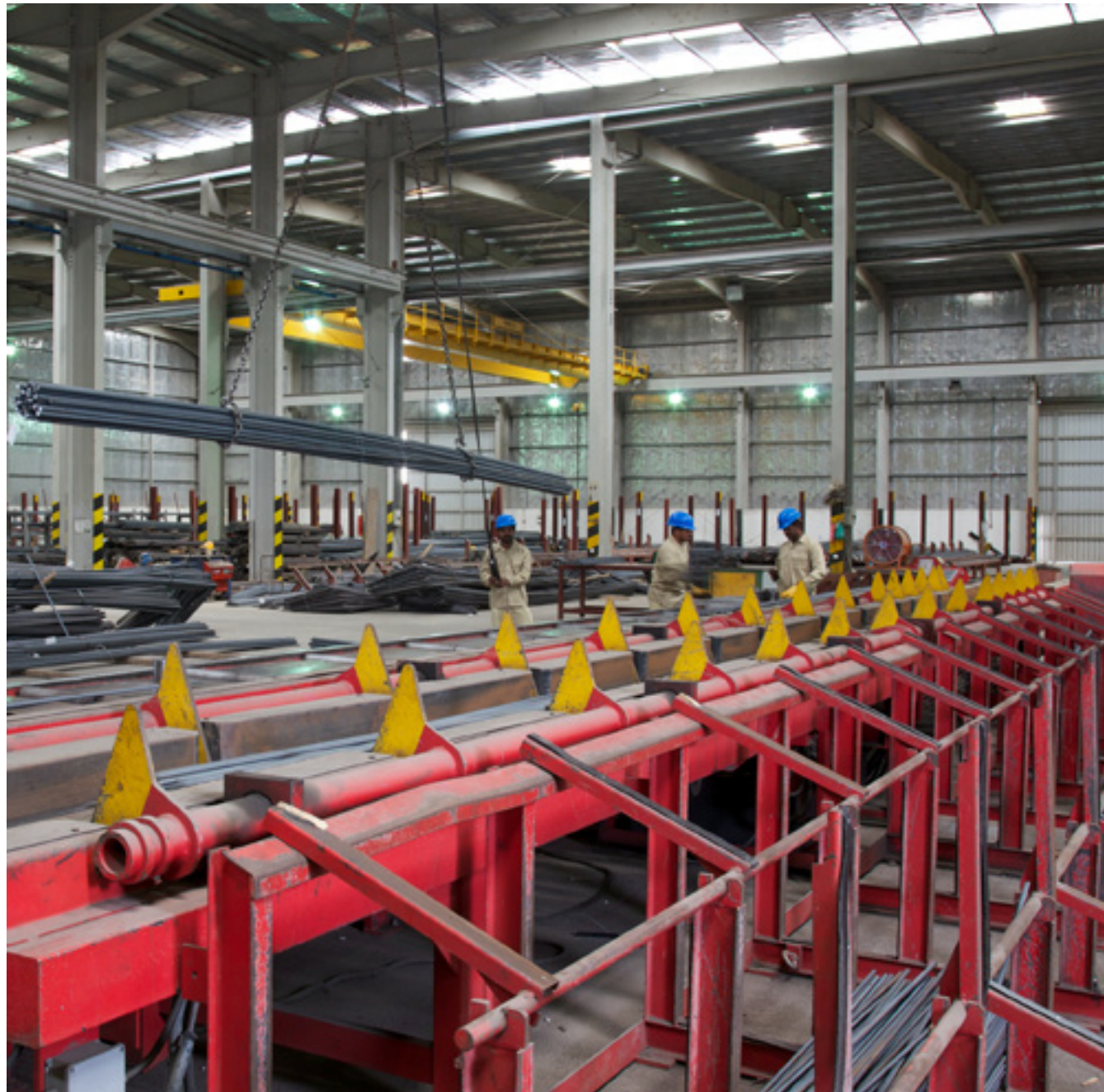
Tech Steel specializes in the design, fabrication and erection of pre-engineered steel buildings and all kind of structural steel, offering the customer a wide range of customized and cost-effective steel building solutions. Steel structures for factories, warehouses, showrooms, commercial/ trade centres, supermarkets, sport stadiums, exhibition halls, aircraft hangars, etc.

Tech Steel provides economical design, structural strength and compact building solutions within budgeted price. Tech Steel products comprise primary, secondary structures, roofing, cladding & accessories which are designed and fabricated with compliance to International standards.



REINFORCEMENT

- Cut & Bend
- Hydraulic Shearing
- Bending
- Delivery



REINFORCEMENT

CUT AND BEND

Our machines are imported from different parts of Europe, our bending machines are specifically designed for bending bars of all sizes used for reinforcing concrete.



REINFORCEMENT

HYDRAULIC SHEARING

Our machines can shear up to 300 tons of steel every day depending on the diameter of the steel and number of cuts.



REINFORCEMENT

BENDING

Our European-made bending machines are specifically designed for bending of bars used for reinforcing concrete. These precision machines can accurately bend all sizes of deformed bars.



REINFORCEMENT

DELIVERY

Material handling in the workshop is carried out using overhead cranes and fork lift trucks for faster transportation.





METHOD STATEMENT

Engineering Drawing Analysis

Our team of engineers will study and analyze the drawing elaborately and quantify the total steel required for the project, eliminating possible discrepancies on the drawing.

This team shall work very closely with site engineers and consulting engineers so that bar-bending schedules (BBS) are prepared as per the site requirement and we are able to get immediate approvals from the consultants.

Shop Drawing & Bar Bending Schedules (BBS)

The engineering department will study the structural and architectural drawings of each project and segregates them into various stages of work. By coupling the engineering and quality assurance abilities, shop drawing and bar bending schedules are prepared for each stage of work. Reinforcing particulars from the basic project drawings are extracted and arrangement of reinforcement is detailed in the placement shop drawings and bar-bending schedules. The placement drawing elaborates each particular bar with its own identity by a bar mark, diameter, spacing and position.

Order Execution

The bar-bending schedules are submitted to the customer for approval. After approval, the customer places the order for production and delivery. It is then the particular approved BBS is forwarded to the production department which is processed in the production software.

Production Execution

The production of reinforcement starts with cutting of the required length of the straight bars in the shear line as per the cutting lists. The cut bars are moved to the bending area by the automatic material handling system consisting of conveyors.

The bars are moved to each bending machine according to the machine allocation selected by the software. The bars are bent in the bending machines strictly according to the dimensions on the tags. After bending, individual bar marks are bundled separately and tied with identification tags.

Then the bundles are arranged in the collecting area for finished goods, ready for transportation to the customer's site.

Quality Assurance

Tech Steel LLC will be fully committed to provide highest possible quality products and serve clients to our best capacity. With this quality vision, Tech Steel LLC shall have its own in-house quality plan.

Delivery

By having our own fleet of trailers and flat beds, Tech Steel LLC will deliver cut and bent reinforcement to our customers on time. Delivery notes are attached with copies of bar-bending schedules for the items being delivered for the convenience of checking the material at the customer's site.

FABRICATION

- CNC PLATE CUTTING
- AUTOMATED I BEAM WELDING LINE
- FIT UP
- WELDING
- SURFACE PREPARATION (BLASTING AND PAINTING)
- DELIVERY OF FINISHED PRODUCTS



FABRICATION

CNC PLATE CUTTING



RAIL SPAN :	3.500 METER
WORKING LENGTH :	14.000 METER
MAX NUMBER OF TOOL STATION :	4
OXY FUEL CAPACITY :	UP TO 300 MM THICKNESS
BEVEL ADJUSTMENT :	+45° / -45°
BEVEL POSITIONING :	CNC PLATE CUTTING
SOFTWARE :	SIGMA NESTING SOFTWARE



FABRICATION

AUTOMATED I BEAM WELDING LINE



PRODUCT RANGE

H-BEAM/ I-BEAM

Flange Width - 150 -800 MM
Web Height - 200 -1500 MM
Length of Beam - 6000 - 12000 MM
Web Thickness - 5-20 MM

BOX BEAM

Width - 200 X 200 MM - 800 X 800 MM
Length up to 1200 MM

PLUS BEAM

Max Weight of Individual PC - 3.6 Ton
Max Size of Column - 800 x 800 MM
Range of Plates Used - 5-40 MM
Length of Beam - 6000 - 12000 MM

T BEAM

Flange Width - 800 MM
Height - 200 -1500 MM
Length of Beam - 12000 MM



FABRICATION

FIT UP

The material is assembled in accordance with the fitting schedule and the fabrication drawings in such a manner that they are not bent, twisted or otherwise damaged, and any deformation is within the stated tolerances. All items, after assembly, are fully dimensionally checked, any deviations are corrected immediately. The results of the dimensional check are logged onto a monitoring system.



FABRICATION

WELDING

All welding operations are carried out in accordance with approved welding procedures and welder qualifications accordance with AWS D 1.1 .

During the welding operation all welders are continually monitored to ensure the welding parameters as per the relevant procedure.

All items, after completion of welding are visually inspected against the requirements of AWS D 1.1 for compliance. Any visual discontinuity is marked and repaired immediately.



FABRICATION

SURFACE PREPARATION

- **BLASTING**

The surface preparation / blast cleaning produces the required anchor pattern and cleanliness level as detailed by the paint manufacturer to ensure paint adhesion to the surface. The Painting Inspector carries out profile checks at the start of each blasting run to ensure that the required profile and cleanliness levels are met. All material once blasted is primed within 4 hours to prevent rust bloom.



SURFACE PREPARATION

- **PAINTING**

Paint application will be done with Airless spray painting pump. Finished coatings shall be free of runs, drips, dry spray etc.

Paint application shall be done as per the required specification with minimum microns 35μ to 550μ . Painted items shall be handled with proper care so that damage to the paint is minimized. Materials shall not be handled until paint has thoroughly dried.



MAJOR PROJECTS

PROJECT	CONTRACTOR	CONSULTANT	LOCATION
Ajman Pearl Towers	Construction Tech	Engineer Adnan Saffarini	Musheirif, Ajman
Orient Towers	Construction Tech	Pioneer Engineering Consultants	Helio, Ajman
Majestic Tower	Construction Tech	Engineer Adnan Saffarini	Helio, Ajman
Paradise Lake Towers	Construction Tech	Engineer Adnan Saffarini	Helio, Ajman
China Towers	MEP Tech	Canadian Consultants	Nuaimeya, Ajman
Al Mashreq Tower	Construction Tech	Engineer Adnan Saffarini	Bustan, Ajman
Garden City	Construction Tech	Engineer Adnan Saffarini	Jurf, Ajman
Black Square	Construction Tech	Canadian Consultants	Ajman
Medical Center	Construction Tech	Al-Khawajah Engineering Consultants	Sawan, Ajman









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