

 **union**
REBAR
STATE-OF-THE-ART-TECHNOLOGY



**We collectively strive for excellence...
and in doing so, set towering standards.**

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ABOUT UNION REBAR FACTORY



Established in 2005, Union Rebar Factory (URF) operates one of the latest and most advanced Steel Bar Cut & Bend facility in the UAE.

Strategically located at the Industrial City of Abu Dhabi (ICAD), Union Rebar Factory covers a total area of 25,000 sq.ft, including a large stockyard.

URF is a subsidiary of Ittihad International Investment LLC, a prominent private holding conglomerate engaged in activities spanning a wide spectrum of sectors that include Manufacturing, Contracting, and Trading & Services.

URF is actively involved in trading straight steel bars and provides integrated reinforcing steel solutions to its wide network of clients. URF supplies reinforced steel from various sources complying with most stringent international standards. The company also specializes in mechanical coupling systems & solutions, epoxy coating and offers other engineering services as well. URF's in-house computer aided design system eliminates the need for lengthy field works thereby reducing the delivery time. This has been one of the primary reasons why URF has achieved unparalleled levels of professional excellence, reliability and quality in their business dealings.

With a total capacity of approximately 160,000 tons/annum, URF mainly concentrates on providing GCC area. Backed by an outfit of more than 200 highly qualified professional staff and engineers, URF precise and professional cut & bend services to its client in UAE and ensures fabrication of every reinforced steel bar is accurate and complying to international accepted quality standards.

Building on its reputation, the company also guarantees perfect traceability of its products, starting from the manufacturer, passing through production operations through the final delivery to the project site.

Since its initiation, URF testifies to its corporate philosophy driven by offering best services, on time delivery and top quality products at the most competitive prices to its clients.

With a well structured Environment, Health and Safety procedure in place, Union Rebar has carved a niche, as a trusted quality conscious organization, adopting the latest technologies and working techniques in all its activities including field work, administration and project management.



ABOUT UNION REBAR FACTORY



MESSAGE FROM THE MANAGEMENT



It has been estimated by the Industrial analysts that UAE Steel market is by far one of the most promising sectors in the GCC, where in the steel industry is expected to grow more than 100 % by the end 2015, from the current levels. Extensive growth in the construction industry, reliable energy supplies besides geographical positioning, are the major driving forces in the steel industry extensive growth in the construction industry.

In the midst of a dynamic sector, Union Rebar has been actively involved in serving the region's small, medium and large scale contractors. Accountability, reliability and precise adherence to specifications are our biggest forte and we have outperformed URF customer expectations. The company's proven track record in handling projects ranging from one ton to several thousand tons of fabricated rebar is commendable.

At Union Rebar, it has always been our policy to offer more than just rebar fabrication.. On every project, we provide in-depth support, engineering drawings spelling every minuscule detail, strict supervision and suggestions coupled with professional after-sale support.

With excellent reputation for client satisfactions, achieved through quality service and timely execution of contractual requirements, URF is ready to meet and exceed relevant industrial standards offering comprehensive services at the most competitive pricing.

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Our Mission

To provide customers with professional service according to the international code of practices in addition to a wide range of quality products.

Our Vision

To be the most reliable and quality conscious supplier of reinforcing steel products in the Middle East and North African region.

Our Business Objective

To maintain, and enhance, our reputation as a prominent and reliable supplier of integrated reinforcing steel solutions in the MENA region.



**OUR MISSION
OUR VISION
OUR OBJECTIVE**



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MACHINE SPECIFICATIONS



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Stirrup Machine

The automatic stirrup is used for the automatic production of stirrups, bent bars and straight bars from coils of the feeding unit; it is straightened by the straightening-unit rolls and shaped by the bending unit.

At the end of the feeding and bending phases, the stirrup produced is cut from the feeding wire. The mechanical devices on the stirrup machine are hydraulically controlled.

Threading Machine

The threading machine is used for the threading of forged reinforcement bars in addition to couplers.

This machine is designed to cut rebar threads sizes depending on tooling supplied.

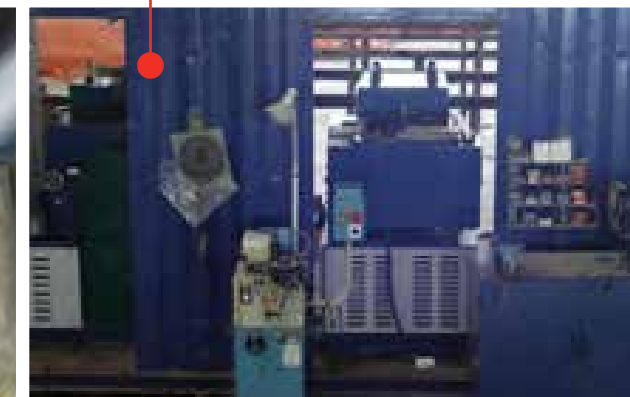
Cutting Line

The state-of-the-art cutting machine is able to cut the steel bars based on the customer's requirements. The fully automatic cutting cycles are programmed, stored and controlled by a dedicated industrial computer which can be interfaced with remote PCs. These machines are manufactured by one of the best European manufacture using the latest technology in Steel cutting.

Automatic Bending Machine

URF is equipped with the latest bending machine capable of carrying out all shaping operations on iron bars for reinforced concrete in fully automatic cycle.

The working operation can be performed in automatic, semi-automatic or manually.



MACHINE SPECIFICATIONS

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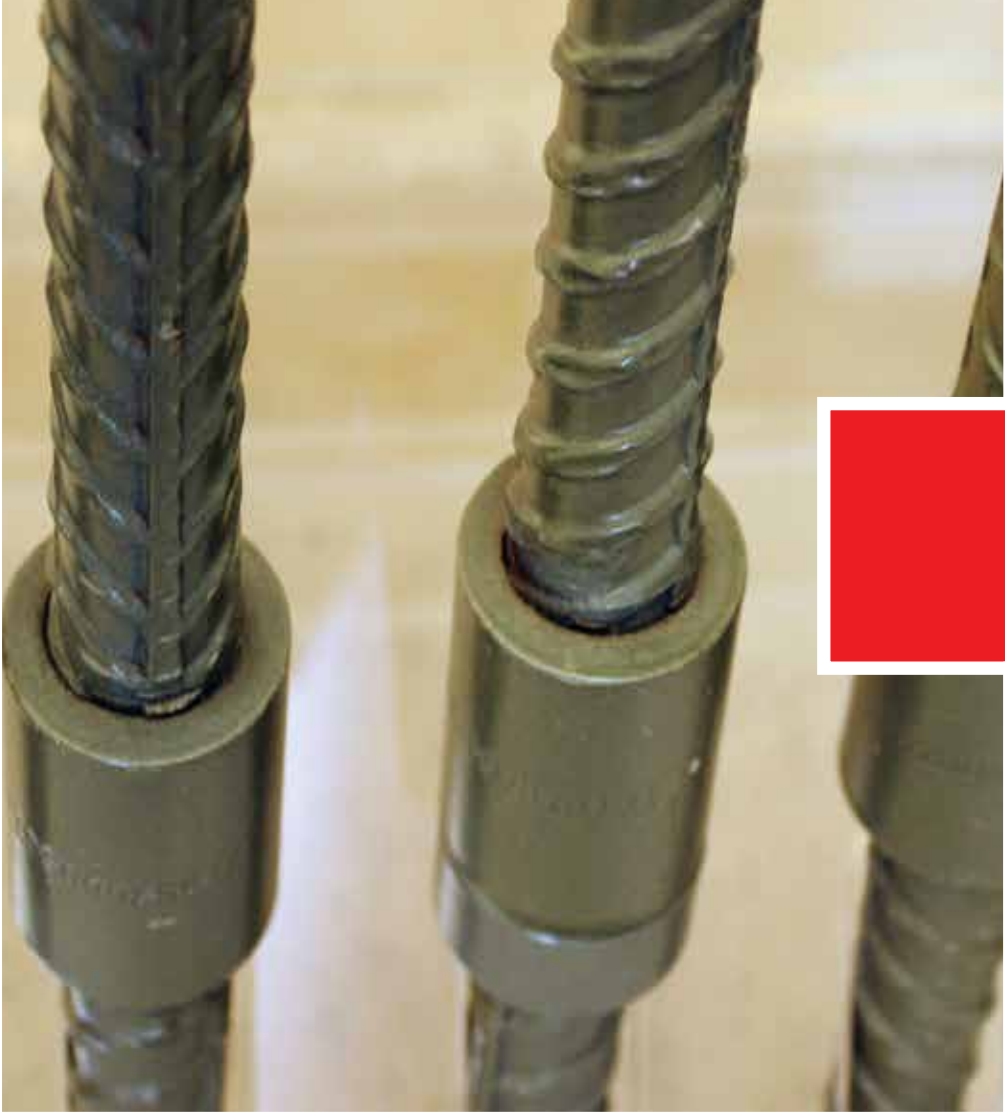
Specifications of Steel	BS 4449 GRADE460 Type B
Size (mm)	8, 10, 12, 14, 16, 20, 25, 32, 40
Major Supplier	Emirates Steel Industries (formerly EISF)
Type	<ul style="list-style-type: none"> - 12m Straight Bars - Cut & Bend - Coupler and threading <p>Note: Materials can be Epoxy Coated or Normal Steel Bar)</p>

Union Rebar Factory houses modern machinery using the most advanced technology for Cut & Bend of reinforcing steel. This is turn results in shorter delivery times, reduced wastage and higher accuracy in dimensions.

URF also supply Reinforced Steel Straight Bars from various sources in the region, Standard sizes come in 12m with diameter ranging from 8mm to 40mm.



PRODUCT SPECIFICATIONS



OUR SERVICES



- Over the years, Union Rebar Factory has become the highest standard quality supplier to whom many clients, contractors and organizations turn for professional solutions. URF services are tailor-made to meet all needs of complex and ultra-modern projects. These include:
- Supply of reinforced steel from various sources complying with international standards
 - Engineering services including design and detailing services.
 - Accurate cut and bend reinforcing steel to ensure proper fit on site and perfect matching in accordance to required standards
 - Epoxy Coated reinforcing steel to ensure the corrosion protection.
 - Fabrication of the epoxy coated reinforcing steel.
 - Mechanical coupling system and solutions.
 - Final inspection and repairs which includes inspection to repair all cutting ends and any handling scratches using the specialized epoxy repair kit.
 - Recommendations to customers in dealing with the epoxy coated bars at the project sites during all activities.



QUALITY AT UNION REBAR FACTORY

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Once a coated rebar is fabricated, a final inspection is made to repair all cutting ends and any handling scratches using the specialized epoxy repair-kit. The company also guarantees full traceability for reinforcing steel hence, all batches of either straight or fabricated bars can be traced back to the original mill test data.

As an added service, URF offers consultation to their clients on how to eliminate most damages in the epoxy coated rebar, starting at the epoxy coating factory passing through Union Rebar and ending at the project site.

Union Rebar is well equipped to fabricate the reinforcing steel bars accurately complying with project standards and specifications.

URF emphasizes on the quality and accuracy of cut & bend operations as it is a vital factor in any project. All fabrication activities are carried out according to BS8666:2000 or to the precise project specification. The factory applies paramount importance to integrated management procedures such as ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007.

URF ensures the rebar purchasing, storing, epoxy coating, fabrication, bundling, tagging, loading and logistics are executed under strict professional supervision. Utmost care is taken in epoxy coating reinforced steel bars to ensure corrosion protection and prior to loading, rebar bundles are visually checked.



QUALITY AT UNION REBAR FACTORY



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SUPPLYING WIRE MESH



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cold drawn wires. With superior equipment, strong management & technical team we guarantee our products are of the highest quality. In addition, URF has Straightening machine to produce precise cut to length cold drawn wires 4 - 12mm diameter to any length up to 12m

URF Wire Mesh is produced in strict compliance with international standards (i.e. ISO 10544), British standard BS 4483, German standard DIN 488 550/550BK and American standard ASTM A497/A185

Mat Size m	Mat Type	Pitch		Wire Size		Section		Mass	
		Main	Cross	Main	Cross	Main	Cross	Mat	m²
		mm		mm		cm / m²		Kg	
4.80 x 2.40	Square Mesh								
	A565	200	200	12	12	5.65	5.65	102.3	8.88
	A393	200	200	10	10	3.93	3.93	71.0	6.16
	A252	200	200	8	8	2.52	2.52	45.5	3.95
	A193	200	200	7	7	1.93	1.93	34.8	3.02
	A142	200	200	6	6	1.42	1.42	25.6	2.22
	A98	200	200	5	5	0.98	0.98	17.74	1.54

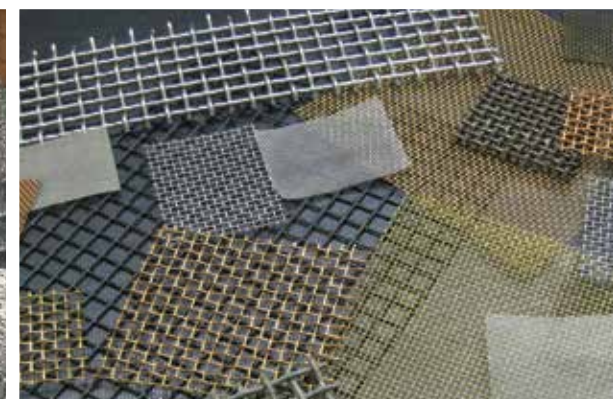
Reinforcement mesh is a pre-fabricated steel product manufactured from cold drawn high yield strength steel. Mesh is manufactured on automatic welding machines which assure consistent spacing of wires over cross sectional areas.

The welding process is accomplished by a controlled electrical process employing the principle of fusion combined with pressure, which fuses the intersecting wires into a homogeneous section without loss of strength

Features of Reinforcing Mesh (BS-4483: 1998)

- The unique deformed wire pattern offers superior bonding, improved stress distribution and crack-width control
- Mesh is available in a wide range of diameters (5mm to 10mm] and apertures. The products can be bent to shape as required
- Manufactured from cold rolled hard drawn steel wire (BS-4482:1998)
- All intersections are resistant-welded thereby no reduction in the tensile strength of the wires
- Mesh has an average shear strength equal to 80% of the wire strength.
- The wire used has physical properties which are rigidly controlled to produce mesh with maximum weld strength combined with ductility
- The steel specifications allow for cold rolled wire with a minimum ultimate tensile strength of 460N/mm² and a high resistance to fatigue

Union Rebar Wire Mesh Plant is a specialized world standard manufacturer of wire mesh products; offers high quality Square, Structural and Long Meshes, all produced through fully computerized machine, European origin production line with a speed of 180 shots/min. Additionally URF offers Cold Rolled wires in coils & special lengths



SUPPLYING WIRE MESH

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**SUPPLYING FILM
FACED PLYWOOD /
ROMANIAN WHITE WOOD**

**UNIONPLEX SHUTTERING / MARINE PLYWOOD IS PRODUCED
AS UNION BRANDED PRODUCT WITH STRINGENT QUALITY
OF MANUFACTURING IN ORDER TO PROVIDE DURABILITY
FOR MULTIPLE USES IN CONCRETE CASTING**

Characteristics		Unit of Measure	Test Method	Value	Result
Moisture Content		%	En 322	6.82	Approved
Density		Kg/m ³	En 323	582	Approved
Longitudinal Module of Elasticity		Mpa	En 310	6798	Approved
Lateral Module of Elasticity		Mpa		6798	Approved
Longitudinal Bending Strength (N/mm)		Mpa	En 310	63.6	Approved
Lateral Bending Strength (N/mm)		Mpa		46.8	Approved
Bondin	Bonding Quality	Mpa	En 314	Max: 1.65 Min: .84	Approved

Specifications:	
• Shuttering / Marine Plywood	• 13 ply with Dyna Film Face 120g / m
• Combi Core Wood 18mm thickness	• WBP Phenolic Glue
• Water resistant coat for edge sealing	• Main use: Shuttering / Concrete Casting



**SUPPLYING FILM
FACED PLYWOOD /
ROMANIAN WHITE WOOD**

To extend and add value to our clients along with steel supply, we also handle construction grade Timber and Plywood.

The range includes all sizes of white wood imported from Romania and shuttering plywood (marine) in 3 type of quality range.

- Uni plex
- Union plex
- Lord plex

We propose to add more number of product in this category in future.

With many years of combined professional engineering experience, the company's expertise lies in its highly skilled professionals that have surpassed client expectations.

Over the years, Union Rebar has been associated with many prestigious landmark projects in the UAE. URF's specialized team offers custom-made solutions for specific requirements that meet individual project needs and provide specific packaging and timely delivery.

Empowered with a skilled work force, Union Rebar offers the construction sector a fast, efficient and economical service in delivering the products in phases as per the project requirement.

In pursuit of consolidating URF's position in the regional steel market, Union Rebar assigns their representatives to witness and supervise all epoxy coating process in the coater's factory to avoid any probability of rebar mixing.

The company's professional marketing team, quality services and technological capabilities has since enabled Union Rebar Factory to build an excellent reputation in the steel sector.

**'At Union Rebar
we collectively strive
for excellence and in doing so,
set towering standards'**

URF TEAM





STATE-OF-THE-ART-TECHNOLOGY

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