

Asnkar
Steel Structure and General Trading



Asnkar



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About Asnkar

ASNKAR Company began its journey in metalwork in 1987, initially working with repurposed metals. From 1989 to 1991, we steadily enhanced our skills and expertise.

By 1991, we expanded into manufacturing high-quality metal a focus we sustained through 1996. By 2003, we had earned industry certifications, marking our commitment to quality and solidifying our reputation in the metal industry.

Government support and industry advancements enabled us to build one of the region's largest facilities dedicated to cutting, pressing, and shaping metal products that meet international standards.

Today, ASNKAR operates with over 16 specialized teams, each with 10 to 30 years of experience and under the guidance of skilled engineers. As a leader in metalwork, ASNKAR continues to deliver superior products and services with a dedication to innovation and quality.

Mission

ASNKAR is committed to delivering high-quality steel products and solutions through innovative engineering and precise fabrication. We aim to meet the diverse needs of our clients by upholding the highest standards of safety, quality, and reliability in every project.

Vision

To be leads in the steel manufacturing industry by setting new standards for innovation, quality, and sustainability. ASNKAR envisions a future where our advanced steel solutions empower industries worldwide, contributing to safer, more resilient infrastructure while supporting sustainable development and excellence in every community we serve.





Core Values



Excellence in Quality

We are committed to the highest standards in every aspect of our work, ensuring that our clients receive unparalleled quality and reliability. Our commitment to fostering trust inspires continuous innovation, resulting in products that stand out for their durability. Quality is not just a promise; it is the foundation upon which we build our partnership with every client.



Innovation

We are committed to delivering advanced metal solutions that redefine industry standards, leveraging cutting-edge technologies to enhance performance and efficiency. Innovation drives us toward leadership, empowering our clients to excel in a dynamic market.



Safety and Integrity

We prioritize safety and integrity in all our endeavors, adhering to the highest standards of transparency and ethical practices to foster trust with our clients and partners. Our unwavering commitment to these principles ensures a secure and dependable work environment, reinforcing our credibility across all aspects of our business.



Customer Focus

We dedicate ourselves to delivering bespoke solutions that address the specific needs of our clients, ensuring reliability and innovation throughout the process. Our commitment is to provide tangible value that enhances their experience and fosters sustainable success.



Work Standards

Our steel structures are manufactured in the most advanced facility in Iraq, equipped with cutting-edge machinery and the latest technologies. As a company, we adhere to ISO standards and implement global systems for design, execution, and safety. Manufacturing can follow customer specifications or documentation created by our engineers, in compliance with standards such as EN 1090, NS 3464, BSKO 7, DIN 18800, AWS D1.10, and ASTM



Quality & Perfection In Every Project





Work Scope

■ Steel Structures

We offer precise manufacturing of a comprehensive range of custom metal components, meticulously designed to meet the specific requirements of your projects, while ensuring high quality at every stage of production.

■ Industrial and Structural Construction

We specialize in the construction of industrial and structural facilities, including Warehouse, Steel structures, Bridges (pedestrian bridges, and vehicle bridges), Skylight and dome. all designed to ensure structural strength, durability, and long-term safety.

■ Custom Tank Manufacturing

We specialize in the design and manufacturing of tanks in various sizes, executed with exceptional precision to meet the unique operational requirements of each client, ensuring optimal efficiency, performance, and reliability.

■ Caravan Manufacturing

We specialize in the fabrication of caravans, including bending and complete assembly with custom accessories, carefully designed to meet the unique needs of each client, ensuring the highest levels of quality and precision.

■ Manufacturing and Installation of Cranes

We manufacture and install overhead cranes from start to finish, focusing on the highest performance and reliability standards to ensure maximum efficiency.

■ Custom Fencing Solutions

We offer custom fencing solutions, designed to meet the needs of any environment or application, ensuring safety and effectiveness in use.

Our Services

■ Design and Engineering

We provide specialized engineering solutions and custom designs that transform your vision into reality, ensuring superior functionality, safety, and efficiency at every stage of the project to achieve optimal results in any work environment.

■ Manufacturing and Fabrication

We focus on precise manufacturing and high-quality fabrication using the latest global technologies to produce structures that offer durability and reliability, ensuring that client needs are met with the highest standards of efficiency.

■ Installation and Maintenance

We offer continuous and professional installation and maintenance services aimed at enhancing the performance of structures and equipment, ensuring complete safety.

■ Products

Each product is manufactured according to the highest industry standards, designed specifically to match client specifications, using modern and advanced equipment and technologies to ensure excellence in quality and performance:

- **Crane Manufacturing.**
- **Construction of Custom Halls.**
- **Vehicle and Pedestrian Bridges.**
- **All Types of Tanks.**
- **Precision Metal Fabrication.**
- **Caravan Manufacturing.**
- **Trading Services.**

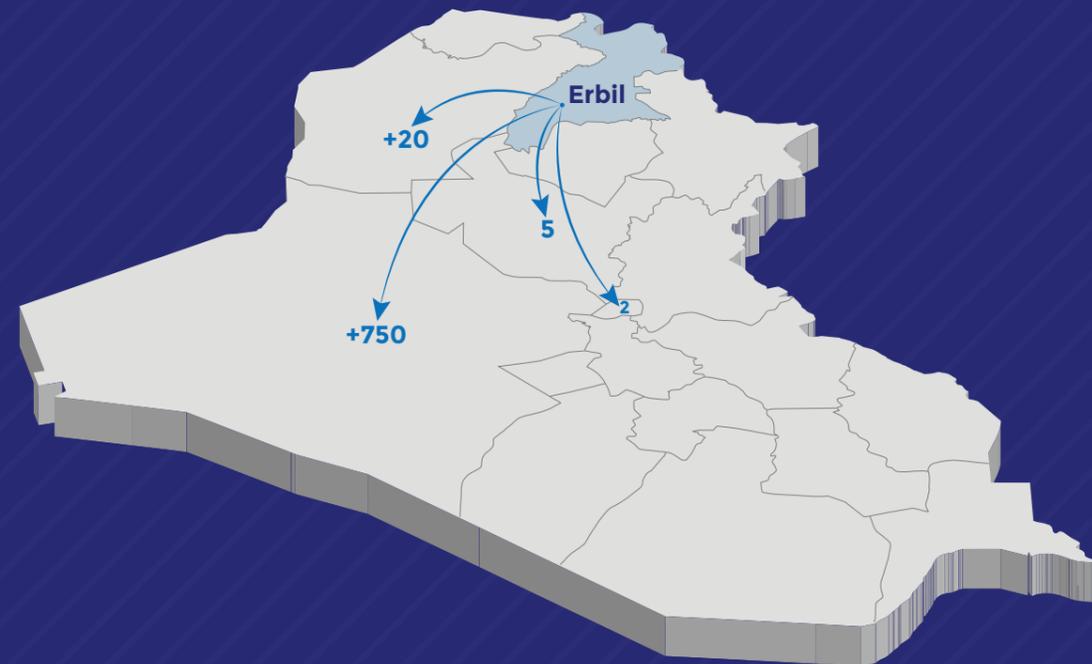


Our Clients



Certificates

- **ISO 9001:2015**
(Quality Management System).
- **ISO 14001:2015**
(Environmental Management System).
- **ISO 45001:2018**
(Occupational Health and Safety Management System).
- **ISO 17607-3:2023**
Steel Structures: Execution of Structural Steelwork.
- **ISO 3834-2:2021**
Quality Requirements for Fusion Welding of Metallic Materials — Part 1: Criteria for the selection of the Appropriate Level of Quality Requirements.



Protocols

Asnkar Company follows a set of strict protocols to ensure quality, safety, and efficiency in all its operations.

These protocols include:

- **Safety Standards:** Adherence to stringent safety guidelines for both employees and equipment.
- **Quality Control:** Continuous monitoring and testing to meet international quality standards such as ISO certifications.
- **Operational Efficiency:** Following best practices in manufacturing, fabrication, and project management to ensure consistency and reliability.



Quality Assurance

- **ISO 9001 Quality Management Systems:** Specifies the requirements for consistent quality management practices, helping manufacturers enhance customer satisfaction and maintain high production standards.
- **ISO 45001 Occupational Health and Safety:** Provides guidelines to maintain a safe and healthy workplace, which is crucial in a steel manufacturing environment.

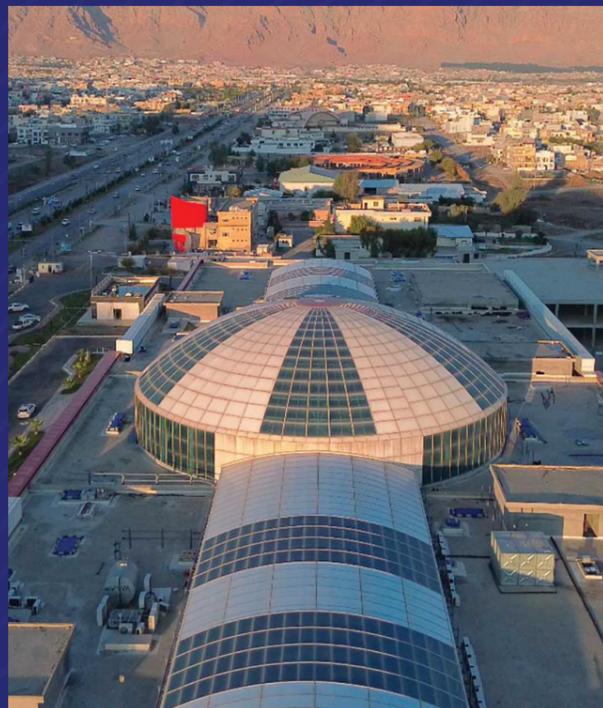


PROJECTS



Skylight and Dome
Upper Roof Steel Structure

GYPSUM BOARD PROJECT



Location	Erbil - Ranya
Construction Year	2024
Total Area	3000 m ²
Total Steel Weight	190 Ton



Location	Erbil - Makhmur
Construction Year	2024
Total Area	47000 m ²
Total Weight	1800 Ton



Spring Festival Celebration Stage

Location	Mousel City
Construction Year	2023
Dimensions	12×26×8 m
Structure	Built-Up Structure
Total Weight	25 Ton



Maintenance Pedestrian Bridge

Location	Erbil - Barzan
Construction Year	2015
Length	90 m
Structure	Arched Trusses
Total Weight	40 Ton





Location	Erbil - Erbil Airport
Construction Year	2015
Dimensions	50×32×16 m
Structure	Trusses
Total Weight	150 Ton



Plane Warehouse



Pedestrian Bridge

Location	Erbil - 100m Street
Construction Year	2014
Length	60 m
Structure	Built-Up Structures
Total Weight	70 Ton

Pedestrian Bridge

Location	Erbil - 60m Street
Construction Year	2012
Length	60 m
Structure	Composite Trusses
Total Weight	80 Ton





Machines and Products



1. Press Brake Machines



Overview

Press Brake Machines are designed to precisely bend sheet metal to create custom shapes and angles. Press brake machines create steel shapes like angles (L-shapes), channels (C-shapes), Z-shapes, boxes, and hat channels, tailored for structural and industrial needs. They achieve precision bends for diverse applications.



Features and Benefits

- **Durability:** Constructed with high-quality steel frames that withstand high pressure and wear, ensuring longevity even in heavy-duty applications.
- **Energy Efficiency:** Hydraulic systems are designed for efficient energy consumption, reducing operating costs over time.
- **Ease of Maintenance:** Built-in diagnostics and accessible components streamline maintenance, minimizing downtime and repair costs.
- **Precision Control:** Equipped with CNC or NC controls, these machines allow precise adjustments, ensuring accuracy in complex bending applications.
- **Versatility:** Suitable for a wide range of materials and thicknesses, enabling versatility across different metalworking projects.



Key Specifications

Dimensions: 12mm x 3m, 16mm x 6m, and 16mm x 12m models.
Weight: Varies by model, typically in the range of several tons for stability during heavy-duty operations.
Capacity/Output: High precision bending with thickness capacity up to 16mm and length up to 12 meters, adaptable to various metals and thickness levels.



Press Brake Machines



Press Brake bending 12mmx3m

Working Width	3100 mm
Max. Thickness	12 mm
(LxWxH)	3500x1900x2550



Press Brake 16mmx12m

Working Width	
Max. Thickness	16 mm
(LxWxH)	12000x4330x2550



Press Brake 16mmx6m

Working Width	3100 mm
Max. Thickness	12 mm
(LxWxH)	3500x1900x2550



2. Shear Press Machines



Overview

Shear press machines are designed for precise cutting and shaping of metal sheets by applying high shear force. These machines are commonly used in metalworking and fabrication industries to create clean, straight cuts.



Main Function

The primary function of a shear press machine is to cut metal sheets to specified sizes with high accuracy and efficiency. It is ideal for industries requiring mass production of metal components with consistent quality.



Key Specifications

- **Dimensions:** Specific dimensions vary by model, typically around 20mm thickness with cutting lengths up to 6 meters.
- **Weight:** The machine's weight depends on the specific model and its capacity, generally in the heavy industrial range.
- **Power Source:** Operates on a hydraulic power system, providing the required force for effective shearing.
- **Capacity/Output:** Suitable for cutting metal sheets up to 20mm in thickness and 6 meters in length, depending on the specific model.



Shear Press Machines



Shear press Machine

Working Width	3060 mm
Max. Thickness	16 mm
(LxWxH)	4000x2800x2500



Shear press Machine 20mmx6m

Working Width	6010 mm
Max. Thickness	20 mm
(LxWxH)	4000x2800x2500



3. Hydraulic Press Machine



Overview

The Hydraulic Press Machine is designed to exert high-pressure force on a variety of materials, making it ideal for forming, shaping, bending, and compressing metal and other materials with precision.



Key Specifications

- **Dimensions:** 2000mm (H) x 1500mm (W) x 1000mm (D) (sample size).
- **Weight:** 3000 kg.
- **Capacity/Output:** 300 tons of pressing force.

4. Bending Machines



Overview

Bending machines are designed to shape metal sheets or bars by applying force, creating precise angles and curves essential in manufacturing, construction, and metalworking industries. Supports a variety of metals and bending angles, making it adaptable to multiple applications across industries.



Key Specifications

- **Dimensions:** Varies based on model; common sizes include lengths such as 12mm x 3m.
- **Weight:** Depends on the specific model and configuration.
- **Capacity/Output:** Typically, the machine can handle different thicknesses and lengths of metal, with bending capacities ranging up to specified tons, like 300 tons, depending on the model.



Hydraulic Press Machine



Hydraulic Press Machine 300 ton

Working Width	1990 mm
Working Hight	800 mm
(LxWxH)	4500x3500x3000

Bending Machines



Bending Machine

Max. Thickness	25 mm
Min. Diameter	400 mm
(LxWxH)	3850x3100x2800



Bending Machine Karbend (BB 114)



5. Rolling machines



Overview

Rolling machines are industrial equipment designed to shape or bend materials (typically metal, sheet, or plate) into curved forms, such as cylinders, arcs, or other custom shapes. These machines are essential in metalworking, manufacturing, and construction industries for producing products like pipes, tanks, and structural components.



Key Specifications

- **Dimensions:**
Vary depending on model and capacity (Example: 2m x 3m x 1.5m for large industrial models).
- **Weight:**
Approx. 3,000 kg (varies with model size and type).
- **Capacity/Output:**
Capacity typically ranges from 6 mm to 100 mm in thickness of sheet metal or plates. Output can vary from 50 to 300 tons of bending force, depending on the machine's size and purpose.



Rolling machines



Plate rolling machine 40mmx3m

Working Width	3100 mm
Max. Thickness	40 mm
Min. Diameter	400 mm
(LxWxH)	5850x2300x2350



Plate rolling machine 16mmx3m

Working Width	3100 mm
Max. Thickness	16 mm
Min. Diameter	400 mm
(LxWxH)	5350x1800x1950



Plate rolling machine 35mmx3m

Working Width	3100 mm
Max. Thickness	25 mm
Min. Diameter	400 mm
(LxWxH)	6000x2100x1900



6. Cutting and Saw Machines



Overview

Cutting and saw machines are essential tools in various industries, designed to perform precise cutting, sawing, and trimming of materials like metal. These machines are available in various sizes and configurations to meet specific operational needs.



Key Specifications

- **Dimensions:**
Varies by model (e.g., 1500mm x 800mm x 1200mm).
- **Weight:**
200 kg – 500 kg (depending on machine size and design).
- **Capacity/Output:**
Cutting speeds of up to 120 meters per minute, material thickness up to 100mm.



Cutting and Saw Machines



NC Automatic Mitre Cutting Bandsaw

Capacity	800x920 mm
Max. Thickness	800 mm
(LxWxH)	3970x1380x2660



CNC Plasma (18000)

Max. Diameter Arm	60 mm
Working Thickness	80 mm
(LxWxH)	18000x3000x2000



CNC Plasma (12000)

Max. Diameter Arm	60 mm
Working Thickness	80 mm
(LxWxH)	12000x3000x2000



“
**Elevating
Construction
Standards**
”

ASTM



7. Punching Machine



Overview

Punching machines are designed for high-speed metal punching, used in industries like construction, and manufacturing. They can perforate, shape, and trim metal sheets.



Key Specifications

- **Dimensions:** Varies by model (typically ranges from compact tabletop to large industrial machines)
- **Weight:** Ranges from 300 kg to 5000 kg depending on machine size and capability
- **Capacity/Output:** Punching capacity up to 1000 holes/min; material thickness from 0.5mm to 10mm (depending on machine size and tooling)

8. Profiling and Forming Machines



Overview

Profiling and forming machines are specialized equipment used to shape materials (typically metal or composite) into desired profiles or forms, often used in industries such as manufacturing, construction.



Key Specifications

- **Dimensions:** Varies depending on the model; typically compact for efficient workspace use.
- **Weight:** Ranges from 500 kg to several tons based on machine size and type.
- **Capacity/Output:** Can handle production rates from 100 to 500 meters per hour, depending on material type and machine speed.



Punching Machine



Punching Machine

Capacity	100
Stroke	110 - 80
(LxWxH)	2540x1100x2280

Profiling and Forming Machines



CZ Purlin Machine (profile drawing with various size ranges)

Size range (Width): 100-300 mm
Flange: 40-100 mm
Lip: 10-25 mm
Normal Thickness: 1-4 mm Q235
Normal Punching hole size: as customers drawing
Red circle can be both 45 and 90



Deck Roll Forming Machine XN 75-915 floor deck roll form



9. Rebar Processing Machines



Overview

Rebar processing machines are specialized equipment used to cut, bend, and shape steel rebars for use in construction projects.

Main Function: These machines are designed to automate the processing of steel rebar, increasing efficiency and precision in construction tasks such as reinforcing concrete.



Key Specifications

- **Dimensions:** Varies by model, typically ranging from compact units for small-scale operations to larger systems for industrial use.
- **Weight:** Generally between 500kg to several tons depending on the model and capacity.
- **Capacity/Output:** Can process up to 25 tons of rebar per day, with varying bending and cutting capacities depending on the machine model.

10. Threading Machines



Overview

Threading machines are industrial tools used to create threads on metal, ensuring precise and uniform threading for various applications.



Key Specifications

- **Dimension:** Varies by model (typically 1200mm x 800mm x 1500mm)
- **Weight:** Around 500-1000kg
- **Power Source:** Electric or hydraulic
- **Capacity/Output:** Up to 50 threads per minute (depending on the machine model)



Rebar Processing Machines



Rebar Bending Machine

Paddinghaus	55 / KA / PA / PLA
Max. Diameter	55 mm
(LxWxH)	1200x1100x800



Rebar Cutting Machine

Max. Diameter Arm	60 mm
(LxWxH)	750x1200x195

Threading Machines



Threading Machine

Max. Diameter	75 mm
(LxWxH)	1200x900x1100

Threading Machine 12mm-75mm

Able to thread bolts with 8-16mm diameter (equal to 5/16 - 5/8 inches). The thread length is adjustable to a 5mm minimum and 600mm maximum.



Threading Machine 12mm-75mm

Available in two 20-36 models (ability to mill construction bolts with 14 thru 36mm diameter) and 20-50 model (ability to mill construction bolts with 14 thru 50 mm diame-



11. Beveling Machines



Overview

Beveling machines are used to smooth or round the edges of materials like metal. They are ideal for industrial applications that require precise edge finishing.



Key Specifications

- **Dimensions:** Vary by model (typically compact for ease of use)
- **Weight:** Generally, ranges from 20 kg to 150 kg, depending on the size
- **Capacity/Output:** Bevel angle adjustment typically between 15° and 45°, with varying speed settings depending on material type

12. Lathe Machines



Overview

Lathe machines are versatile tools used for shaping and machining metal, or other materials by rotating the workpiece against a cutting tool.



Key Specifications

- **Dimensions:** Varies by model (e.g., 2000mm x 1500mm x 1500mm)
- **Weight:** Typically ranges from 1000kg to 5000kg
- **Power Source:** Electric (typically 220V or 380V)
- **Capacity/Output:** Maximum workpiece length and diameter vary, typically 1000mm to 4000mm in length and up to 600mm in diameter.



Beveling Machines



Beveling Machine UZ50

Table size	700x200 mm
Working height	914 mm
Weight (without machine)	30 kg
Smallest possible size workpiece	200x100x7 mm
Bevel angle	20°-60° infinitely variable



Beveling Machine B60/B60S

Max. Bevel width	22 mm (45°)
Bevel angle	0°-60°
Length x Width	415 x 375 mm
Height	268 mm
Weight	24.5 kg

Lathe Machines



Lathe Machine C11MT

Chuck Diameter	300 mm
Turning Length	1500 mm
Turning Diameter	600 mm



13. Milling Machines



Overview

Milling machines are versatile tools used for shaping and cutting materials, primarily metals. They employ rotating cutting tools to remove material from the workpiece, producing precise shapes and finishes.



Key Specifications

- **Dimensions:** Varies by model; typically ranges from compact benchtop machines to large industrial models.
- **Weight:** Between 500kg to 15,000kg, depending on the size and capacity.
- **Capacity/Output:** Milling machines can handle workpieces of various sizes, with spindle speeds typically ranging from 100 to 5,000 RPM, depending on the model.
- **Precision:** High-precision tools ensure fine tolerances and smooth finishes for complex parts.

14. Drilling Machines



Overview

Drilling machines are essential equipment used in various industries for creating precise holes in different materials, such as metal.



Key Specifications

- **Dimensions:** Varies by model, typically ranging from compact benchtop designs to large floor-standing units.
- **Weight:** Typically ranges from 50 kg for smaller models to over 500 kg for industrial machines.
- **Capacity/Output:** Capable of drilling holes ranging from small diameters (1mm) to larger ones (over 100mm) depending on the machine's power and design.
- **Precision:** Offers high accuracy for intricate drilling applications.



Milling Machines



Milling Machine FU321M

Drilling Machines



Hydraulic Horizontal Radial Arm Drilling Machine ZIJ Z3050*16

Drilling Capacity	50 mm
Max. Travel of Spindle	315 mm
Max. Distance base to Spindle	320-1220 mm
Spindle Travel	200x100x7 mm
Number of Feed	16
Range of Feed	0.04-3.2 mm/r
Elevating Speed	1.2 m/min
Angle of Arm rotation	360°
Max. Torque of Spindle	400 N.m
Max. Feed Load	16000 N
Weight	3500 kg
Overall Dimensions (LxWxH)	2500x1070x2840 mm



15. H-Beam Machines



Overview

H-Beam machines are used for the fabrication and production of H-beams, which are essential structural elements in construction and manufacturing.



Key Specifications

- **Dimension:** Varies by model, typically compact for space efficiency
- **Weight:** Ranges from 2,000 kg to 10,000 kg depending on size
- **Capacity/Output:** Can process up to 100 tons per day
- **Precision:** High accuracy in beam formation for consistent quality

16. Welding Machines



Overview

Welding machines are essential tools used to join materials, typically metals, by applying heat, pressure, or both. They are used in a variety of industries, including construction, and manufacturing.



Key Specifications

- **Dimension:** Varies by model, typically between 18-30 inches in length.
- **Weight:** Typically ranges from 15 kg to 80 kg depending on power capacity.
- **Capacity/Output:** Output varies from 100A to 500A, depending on the machine's size and application.



H-Beam Machines



■ **H-Beam Assembly Machine (KHBA 1500)**



■ **H-Straightening Machine (KHB 800)**

Welding Machines



■ **Gantry Welding Machine Submerged welding (KAW.TB)**



■ **Cantilever Welding Machine Submerged welding**

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Long Lasting Structure



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