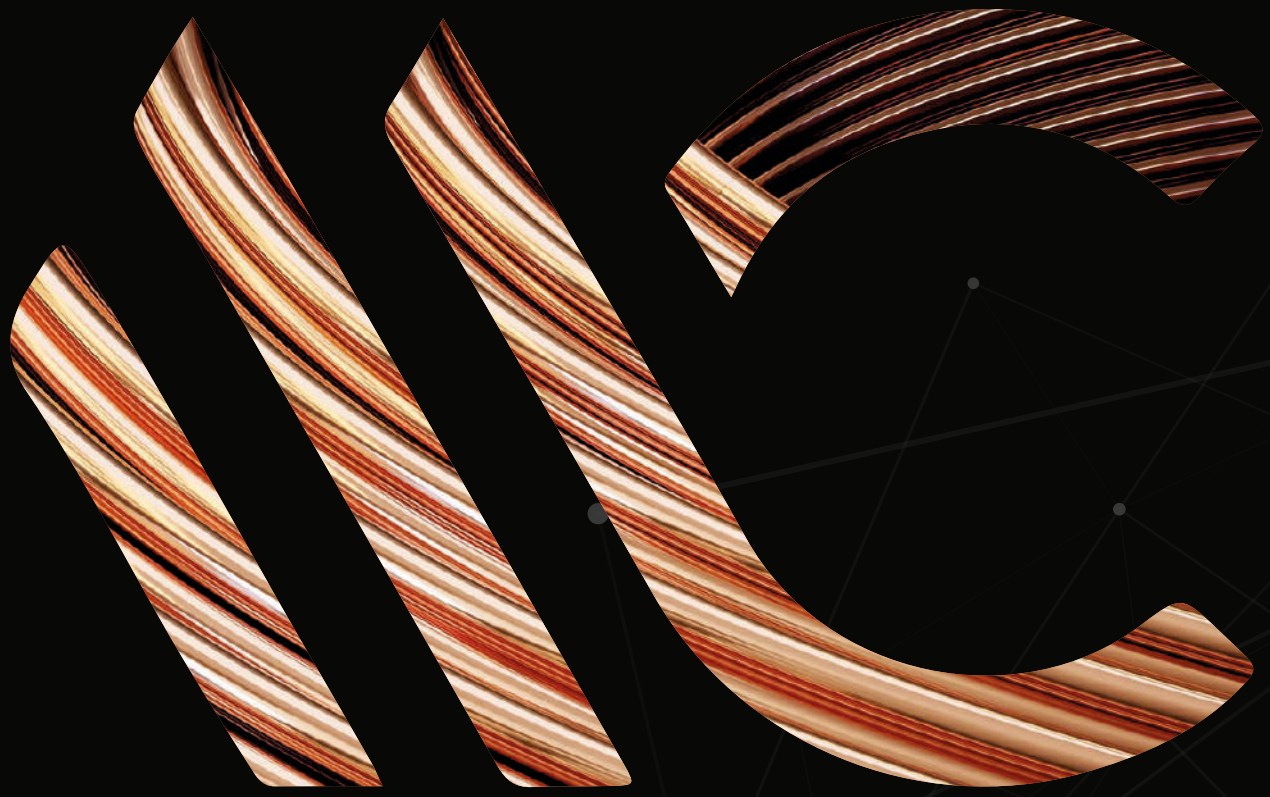


PRODUCTION OF COPPER PIPES
AND COPPER FITTINGS

MAXCOPPER

Production of copper pipes and copper fittings

Copper is vital due to its excellent conductivity, durability, and corrosion resistance.

About Us

MAXCOPPER is a modern and dynamic industrial enterprise based in Tashkent, Uzbekistan, specializing in the production of high-quality copper pipes using advanced technologies. The company is finalizing a full-cycle manufacturing plant with an annual capacity of **25,000 tons.**

The project integrates cutting-edge industrial equipment and technologies from Germany, China, and other developed nations.

MAXCOPPER copper pipes are widely utilized in construction and various industrial sectors, including water supply, air conditioning, heating, gas supply systems, and the automotive industry.

The company establishes direct partnerships with leading technological manufacturers from China and Europe, ensuring maximum production efficiency and consistently high product quality.

Key production machinery, quality control laboratory complexes, and auxiliary systems are supplied directly by manufacturers, guaranteeing reliability, a modern technological level, and compliance with international standards. Additionally, utility installation and infrastructure development were carried out in collaboration with leading Turkish companies.

Why Copper Pipes?

Copper is vital due to its excellent conductivity, durability, and corrosion resistance. Copper pipes are indispensable in water supply, heating, cooling, and gas distribution systems.

They ensure safe and long-lasting performance in residential, commercial, and industrial buildings, contributing to the efficient distribution of energy and water.

Copper also plays a critical role in the electrical industry. Its high electrical conductivity makes it an ideal material for manufacturing wires, cables, generators, and transformers, which are essential for the reliable transmission and distribution of electricity.

Thanks to its malleability and ductility, copper is easily processed and formed, allowing for the creation of complex electrical components and circuits.

Advantages:

Cost-effective

Copper is easy to work with and quick to install, reducing overall labor and material costs. Its durability minimizes maintenance needs and repeat service calls.

High formability

Copper bends and shapes easily, reducing the need for joints and elbows. This is especially beneficial for renovations or upgrades, allowing efficient use of wall and ceiling space.

Lightweight

Copper pipes have thinner walls than steel or threaded pipes, making them easier to handle, transport, and install while also saving space

Safe

Copper does not burn or release toxic fumes. It does not support combustion and helps prevent the spread of fire through floors, walls, and ceilings.

Long-Lasting

Copper's high resistance to corrosion, ultraviolet radiation, and extreme temperatures ensures reliable performance and a long service life.

Fully Recyclable

Copper is 100% recyclable without any loss of quality. Thanks to its durability, copper used today is unlikely to end up in landfills, making it an environmentally responsible and sustainable material.

Pancake Coil

Copper Tubes in “Pancake” Form

A pancake coil is a flat, spiral coil manufactured by winding wire, tubing, or conductive tape in concentric layers.

Its disk-like geometry provides a compact and low-profile design, making it ideal for use in space-constrained environments.

One of the key features of pancake winding is the reduction of self-capacitance (inter-turn capacitance) compared to multi-layer cylindrical coils.

This allows them to operate efficiently at high frequencies, ensuring parameter stability and minimizing energy losses.

Specifications

Category	Details
Standard	ASTM B280, B68, B88, B743, ГОСТ 617-2006, EN 12735-1, EN 12735-2
Composition	Cathode Copper and Phosphorus-Deoxidized Copper
Tube Condition	Hard, Soft
Tube Type	Pancake Coil (Flat Coil)
Unit of Measurement	Ton
Supply Form	In Flat Pancake Coils from 15 m to 50 m
Tube Dimensions	Diameter: from 4 mm to 22 mm, Wall Thickness: from 0.22 mm to 1.5 mm

Wireless Power

Used in induction chargers and power transfer devices, providing efficient, compact, and surface-based energy transmission.

RF Components

Copper pancake coils serve as tubing sets for air conditioners and refrigeration units, ensuring ease of installation and reliable operation.

Refrigeration Systems

Applied in compact inductors and antennas for radio-frequency and electronic circuit solutions, optimizing performance in space-constrained designs.

Superconductivity

Used in high-field superconducting magnets and research equipment to create stable layered coil structures and enable precise magnetic field control.

Metal Processing

Used for winding metal strips or tapes into flat coils (“pancake coils”) for transportation, storage, and further processing.

LWC

Level Wound Coils (LWC) Copper Tubing

Level Wound Coils (LWC) are long, continuous copper tubes wound in uniform layers without joints. This packaging method ensures efficient uncoiling, easy transportation, and reduced waste.

LWC copper tubes are widely used in industrial applications and HVAC (heating, ventilation, and air conditioning) systems due to their high electrical conductivity, flexibility, corrosion resistance, and consistent quality.

LWC coils are designed to optimize automated production. The continuous length of the tubing reduces equipment downtime and the number of joints, ensuring system leak-tightness and reliability. This minimizes material waste and significantly accelerates the installation process.

Specifications

Category	Details
Standard	ASTM B280, B68, B88, B743, GOST 617-2006, EN 12735-1, EN 12735-2
Composition	Cathode Copper and Phosphorus-Deoxidized Copper
Tube Condition	Hard, Soft
Tube Type	Light Steel Coils with Smooth Winding
Unit of Measurement	Ton
Supply Form	Light Steel Coils with Smooth Winding
Tube Dimensions	Diameter: from 4 to 22 mm, Wall Thickness: from 0.22 to 1.5 mm

Medical Gas Distribution

Used in oxygen and medical gas supply networks, where clean, seamless, and corrosion-resistant copper tubing is essential.

Heat Exchangers and Cooling

Used in condensers and heat exchangers for optimal thermal conductivity and durability under fluctuating pressure.

Plumbing and Water Supply Lines

Ideally suited for continuous pipeline installation, reducing the risk of joint leaks and improving installation efficiency.

Automotive and Industrial

Used in vehicle air conditioning systems, hydraulic lines, and other fluid transfer systems that require reliable performance.

Inner Grooved Tubes

Inner Grooved Tubes

Inner grooved copper tubes feature spiral grooves on the internal surface of the pipe to increase surface area and enhance heat transfer. These tubes are widely used in HVAC (Heating, Ventilation, and Air Conditioning) and refrigeration systems, increasing efficiency, reducing refrigerant consumption, and enabling the design of more compact and lightweight systems.

Their construction facilitates superior heat exchange and boosts system performance, making them ideal for modern energy-efficient cooling and heating solutions.

Specifications

Category	Details
Standard	ASTM B280, B68, B88, B743, GOST 617-2006, EN 12735-1, EN 12735-2
Composition	Cathode Copper and Phosphorus-Deoxidized Copper
Tube Condition	Soft
Tube Type	Light Steel Coils with Smooth Winding
Unit of Measurement	Ton
Supply Form	Light Steel Coils with Smooth Winding
Tube Dimensions	Diameter: from 5 mm to 9.52 mm — Wall Thickness: from 0.22 mm to 0.35 mm

Medical Gas Distribution

Used in oxygen and medical gas supply networks, where clean, seamless, and corrosion-resistant copper tubing is essential.

Heat Exchangers and Cooling

Used in condensers and heat exchangers for optimal thermal conductivity and durability under fluctuating pressure.

Plumbing and Water Supply Lines

Ideally suited for continuous pipeline installation, reducing the risk of joint leaks and improving installation efficiency.

Automotive and Industrial

Used in vehicle air conditioning systems, hydraulic lines, and other fluid transfer systems that require reliable performance.

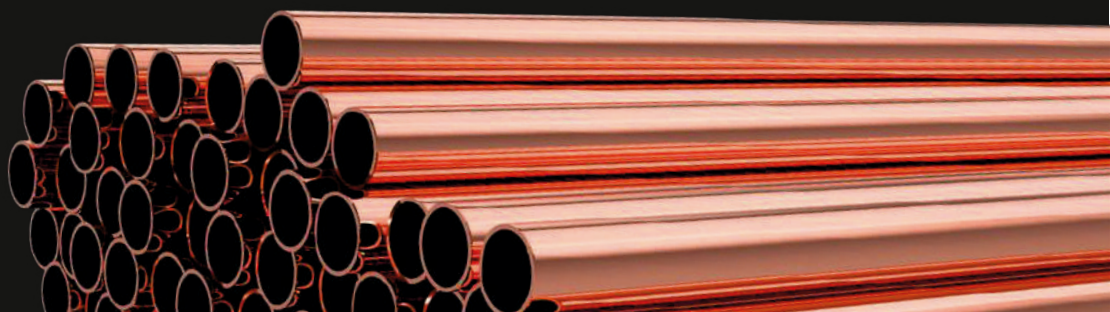
Our Copper Tubes

Copper Straight Tubes

Straight copper tubes are rigid, pre-cut copper pipes supplied in fixed sections (typically 3 or 6 meters in length).

Due to their excellent thermal and electrical conductivity, corrosion resistance, and mechanical strength, these tubes are ideal for precision installations where exact dimensions and accurate alignment are required.Straight copper tubes provide rigidity and reliability for engineering networks.

Their fixed length and resistance to deformation simplify installation over long spans, ensuring the stability of the entire structure. This makes them the optimal choice for exposed systems and main pipelines.



Specifications

Category	Details
Standard	ASTM B280, B68, B88, B743, GOST 617-2006, EN 12735-1, EN 12735-2
Composition	Cathode Copper and Phosphorus-Deoxidized Copper
Tube Condition	Soft and Hard, Semi-Hard
Tube Type	Straight Lengths
Unit of Measurement	Ton
Supply Form	Straight Lengths from 3 m to 6 m
Tube Dimensions	Diameter: from 4 mm to 42 mm – Wall Thickness: from 0.25 mm to 2.5 mm

Water Distribution Systems

Used for supplying hot and cold water with minimal leakage and a long service life.

Air Conditioning

Installed to connect components in HVAC (heating, ventilation, and air conditioning) systems, ensuring reliable heat transfer.

Solar Energy Systems

Used in heating circuits and solar collectors for efficient, corrosion-resistant heat transfer.

Medical Piping Networks

Used in compact inductors and antennas in radio-frequency and electronic circuit applications, optimizing performance in space-constrained environments.

Our Copper Fittings

In addition to copper tubes, MaxCopper manufactures high-precision and durable copper fittings designed for water supply, heating, ventilation, and air conditioning (HVAC) systems, as well as a wide range of industrial applications.

Our products are characterized by flawless geometry, corrosion resistance, and compliance with international quality standards.

The reliability and durability of our fittings have earned the recognition of professionals and partners, particularly in the European market, where MAXCOPPER holds a steady position among the leading manufacturers of copper fittings.

Copper Press Tees

The product complies with **EN 1254-1** and EN **1057** standards. It is manufactured from **Cu-DHP (CW024A)** copper. **EPDM** is used as the sealing material for water supply systems, while HNBR is utilized for gas supply systems. The system is rated for a maximum pressure of up to **16** bar and can operate within a temperature range of up to **110–120 °C.**

(D1 × D2 × D1), mm	Application
12 × 12 × 12	Small Branch Lines, Infrequently Used
15 × 15 × 15	Standard for Residential Piping Systems
18 × 18 × 18	Water Supply
22 × 22 × 22	Widely Used in Heating Systems
28 × 28 × 28	Private Houses and Boiler Rooms
35 × 35 × 35	Commercial and Residential Buildings
42 × 42 × 42	Industrial Facilities

90° Press-Fit Copper Elbows

The products comply with **EN 1254-1** and **EN 1057** standards. They are manufactured from CW024A grade copper without internal coating. The components are rated for operation at temperatures up to **110 °C** and pressures up to **16** bar. **EPDM** seals are used for water supply systems, and **HNBR** seals are used for gas systems.

Outer Pipe Diameter	Bending Radius (Approximate)	Application
15	~20–25 mm	Apartments, Radiators
18	~25 mm	Water / Heating
22	~30 mm	Private Houses
28	~35–40 mm	Manifolds, Boiler Rooms
35	~45 mm	Commercial Buildings
42	~55 mm	Industrial Systems

Our Copper Fittings

Modern production lines, strict laboratory control at every stage, and the use of high-quality raw materials allow the company to ensure consistent characteristics and the precision of connections.

As a result, MAXCOPPER products guarantee leak-tightness, ease of installation, and a long service life, even under high-load conditions.

The company constantly invests in technological development and product range expansion, offering clients comprehensive solutions for engineering systems of any complexity.

45° Press-Fit Copper Elbows

The products are manufactured from **Cu-DHP (CW024A)** copper and comply with **EN 1254-1** (fittings) and **EN 1057** (tubes) standards. **EPDM** seals are used for water supply, **HNBR** for gas, and **FKM** for high-temperature applications.

The system is rated for a pressure of **16** bar and operates within a temperature range of **-20 °C to +200 °C** (with short-term peaks up to **+280 °C**) in water supply, heating, cooling, and compressed air systems.

Outer Pipe Diameter	Bending Radius (Approximate)	Application
15	~18–20 mm	Domestic Water Supply and Heating
18	~22 mm	Underfloor Heating and Distribution Manifolds
22	~25 mm	Standard Water Supply and Heating Systems
28	~30 mm	Private Residences and Main Pipelines
35	~40 mm	Manifolds and Boiler Rooms
42	~50 mm	Industrial Systems

Straight Press-Fit Couplings

The products comply with **EN 1254-1** and **EN 1057** standards. They are manufactured from **CW024A** grade copper without internal coating. The components are rated for operation at temperatures up to **110 °C** and pressures up to **16** bar. **EPDM** seals are used for water supply systems, and **HNBR** seals are used for gas systems.

Outer Pipe Diameter	Bending Radius (Approximate)	Application
15 × 15	Муфта прямая 15	Plumbing and Radiators
18 × 18	Муфта прямая 18	European Standard (EN)
22 × 22	Муфта прямая 22	Water Supply and Heating
28 × 28	Муфта прямая 28	Private Houses and Boiler Rooms
35 × 35	Муфта прямая 35	Multi-Family Residential Buildings
42 × 42	Муфта прямая 42	Commercial Properties

Our Copper Fittings

Due to the high quality of the materials, these products ensure complete joint integrity even under conditions of sudden temperature fluctuations and hydraulic shocks (water hammer).

The simplicity and high speed of installation allow for a significant reduction in labor costs while maintaining the aesthetic appearance of the engineering systems. This makes them an ideal choice for both private residential construction and large-scale industrial facilities.

Copper Capillary Tubing

The products are manufactured from **CW024A** grade copper and are equipped with **EPDM** seals for water applications and **HNBR** seals for gas. They operate at temperatures up to **+110 °C** and pressures up to **16** bar. Manufactured in accordance with **EN 1254-1** (fittings) and **EN 1057** (copper tubes) standards, these components guarantee reliability and durability across various systems.

Designation	Application
Reducer 18/15	Minor Branches, Infrequently Used
Reducer 22/15; 22/18	Standard for Domestic Pipelines
Reducer 28/15; 28/18; 28/22	Water Supply
Reducer 35/22; 35/28	Widely used in heating systems
Reducer 42/28; 42/35	Private Houses and Boiler Rooms

Copper Capillary Tubing

The products comply with **EN 1254-1** and **EN 1057** standards. They are manufactured from **CW024A** grade copper without any internal coating. The components are rated for operating temperatures up to **110 °C** and pressures up to **16** bar. **EPDM** seals are utilized for water supply systems, while **HNBR** seals are used for gas applications.

Inlet Diameter (mm)	Coupling Designation	Application
9.52 (3/8")	6.35 × 6.35	Small domestic multi-split systems
12.7 (1/2")	9.52 × 9.52	Dual-zone split system
15.88 (5/8")	9.52 × 9.52	R410A refrigerant distribution
19.05 (3/4")	12.7 × 12.7	Industrial VRF systems
22.2 (7/8")	15.88 × 15.88	Multi-unit VRV systems

Copper U-Bend Fitting / 180° Return Bend

Specification	Application
Shape	U-shape (180° return bend)
Material	Copper (typically Cu-DHP, CW024A)
Diameters	Standard Diameters: 12, 15, 18, 22, 28, 35, 42 mm
Bending Radius	Usually 1.5–2 times the pipe diameter
Connection Method	Press-fitting, Brazing (Copper brazing / Soldering)
Application	Heating, Potable water supply, Hot and cold water systems, HVAC/Air conditioning systems

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