



SHMOUKH AL AZ
COPPER RECYCLING • IRAQ

COMPANY PROFILE • 2026

SHMOUKH AL AZ General Trading Co. Ltd.

Copper recycling plant producing copper wires and rods
Amiriyat Al-Fallujah, Anbar, Iraq

WWW.SHMOUKHALAZ.COM

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A Journey of Excellence at the Heart of Iraqi Industry

To our valued partners and clients,

Welcome to the SHMOUKH AL AZ profile.

This is more than an introductory document — it is the embodiment of our identity, the story of our effort, and our limitless ambition in copper recycling and manufacturing.



Mr. Hajar Mohammed Mohammed Saeed

Chairman of the Board, SHMOUKH AL AZ

At SHMOUKH AL AZ — in partnership with the Military Industrialization Authority / State Company for Copper and Mechanical Industries — we are proud to be part of Iraq's national industrial fabric. We believe Iraqi industry is not merely a profession but a national mission: every ton of copper we recycle and every product leaving our plant carries the mark of Iraqi craftsmanship and the drive of hands building their country's economy.

We draw our strength from Iraq's deep industrial history, and we press forward to place our country's name at the forefront of the region's manufacturing sector.

«We make copper – to build the pride of Iraq.»

Direct Oversight at Every Stage



Mr. Younis Hajar Saeed

Chief Executive Officer — SHMOUKH AL AZ

The Chief Executive Officer personally oversees all operations relating to the company's objectives and activities, through continuous communication and field visits to plants, sites and offices around the world.

On-Site Follow-Up

Regular visits to production lines and stores to verify performance on the ground.

Decisions Close to the Work

Direct contact with department heads shortens the decision path and speeds resolution.

International Presence

Following up offices and partners worldwide to keep supply and technology on track.

«Proximity to the site is what turns a plan into production — there is no substitute for standing on the plant floor.»

We designed this profile to be your compass on the journey with us — a comprehensive reference linking our rigorous operating standards to the values we hold: from full commitment to safety and environmental requirements, to the constant pursuit of the quality that the “Made in Iraq” mark deserves.

Our Identity

It reflects our values as an ambitious Iraqi industrial enterprise pursuing leadership.

Our Transparency

It sets out the framework that safeguards your rights and obligations and shapes our working environment according to best professional and legal practice.

Our Quality

It details the technical and operational standards we apply to compete in local and international markets.

This profile is a gateway into our world: our production capacity, our technical standards, and our firm commitment to sustainability. We invite you to explore how we turn raw material into added value that supports our national economy and drives development.

About Us

SHMOUKH AL AZ is a member of the Hajar Group, which comprises 16 companies and entities working across several sectors including industry, construction, oil and others. Guided by the Hazhar Group's belief in developing Iraq's industrial sector and investing in value-adding manufacturing, SHMOUKH AL AZ signed a partnership contract with the State Company for Copper and Mechanical Industries in 2019, and in 2020 began building the SHMOUKH AL AZ plant for copper recycling and the production of copper rods and wires in Fallujah, Anbar Province, near Baghdad.

In 2026 the plant entered production, forming a significant addition to Iraq's industrial sector and an important contributor to the development of the country's copper industry.

The project is a strategic investment in one of the most essential raw materials for the power, telecommunications and cable industries — converting copper scrap into high-quality industrial products that serve local market needs and strengthen the supply chain inside Iraq.



The Project in Numbers

120,000

square metres of land inside the
Fallujah industrial zone

14,000

square metres of enclosed space for
main equipment and facilities

30,000

metric tons of annual production
capacity

100

tons of copper rod and wire per day

Public-Private Partnership (PPP)

The project is anchored by a partnership agreement with the Iraqi government to build and operate an advanced plant specialising in copper recycling and the production of copper wires and rods — reflecting the role of public-private partnership in supporting Iraq's industrial development.

Italian Technology

Continuous casting and rolling line by
Continuus-Properti converting scrap
into FRHC.

99.99% Purity

Compliant with EN 1977:1998
CW005A and ASTM B-49.



MISSION & VISION

Mission & Vision

01

Our Mission

To empower Iraq's power, telecommunications and construction sectors with premium copper products through advanced, environmentally responsible recycling and manufacturing — driving local economic growth and long-term value for our partners, our community and the environment.

02

Our Vision

To be the benchmark for sustainable industrial excellence in Iraq and the region, leading the national shift toward a recycling-based economy by turning raw resources into high-purity copper solutions that power modern infrastructure.

30,000

tons per year capacity

99.99%

copper purity

100%

recycled feedstock

Our Values

01

National Contribution

We are committed to strengthening Iraq's industrial capability and reducing reliance on imported material through local production with advanced technology.

02

Integrity & Quality

We apply the highest international standards in the plant to produce copper rod and wire with high purity and technical precision.

03

Environmental Accountability & Sustainability

We see our facility as a steward of Iraq's natural environment. By embracing the circular economy we work to cut waste, reduce harmful emissions, conserve energy and improve air quality — ensuring our industrial growth protects nature for coming generations.

04

Technological Leadership

We invest in world-class machinery in partnership with technology leaders — Continuus-Properzi of Italy and Eldan Recycling of Denmark — so our operations in Iraq meet global standards of industrial efficiency.

05

Operational Excellence

We pursue continuous improvement, ensuring reliability, stability and scalability across every aspect of production.

WHY US

What Sets Our Plant Apart

State-of-the-art production lines and a specialised engineering team trained to the latest international methods, producing the finest high-quality copper.



Melting Technology

CONTINUUS-PROPERZI • ITALY

Our furnace system is built on leading technology from the Italian company Continuus-Properti — a world leader in casting and rolling lines for non-ferrous metals — ensuring optimal thermal efficiency and superior melt quality.



Advanced Shredding

ELDAN RECYCLING • DENMARK

Our heavy-duty shredding machinery is supplied by the leading Danish company Eldan Recycling, recognised worldwide for precision and reliability in waste processing and material recovery.

A Specialised Engineering Team

Iraqi professionals trained in the latest international practice in operations, maintenance and quality control, running fully integrated production lines.

Our Products

Our reverberatory furnace technology is designed to process copper scrap efficiently into molten metal with controlled impurity levels. This refined molten copper is then used to produce FRHC (Fire Refined High Conductivity).

Compared with conventional furnace designs, the system features a roof-mounted charging door, allowing faster, safer and more automated operation.

0.1–8 mm

Copper Wire

Produced in diameters from 0.1 mm to 8 mm from high-purity copper with excellent conductivity. Manufactured by wire drawing to ensure durability, flexibility and consistent quality for electrical and industrial cable applications.

8–25 mm

Copper Rods

Produced in standard diameters of 8, 12, 16, 20 and 25 mm from high-purity copper with excellent electrical conductivity. Designed for wire drawing and cable manufacturing, delivering consistent mechanical strength, uniform quality and reliable performance across all diameters.

BUSBARS

Copper Busbars

Manufactured in a range of dimensions to serve power distribution systems, switchboards and industrial electrical applications.

القدرة الإنتاجية لأسلاك
النحاس في مصنعنا

0.1 إلى 8 ملم

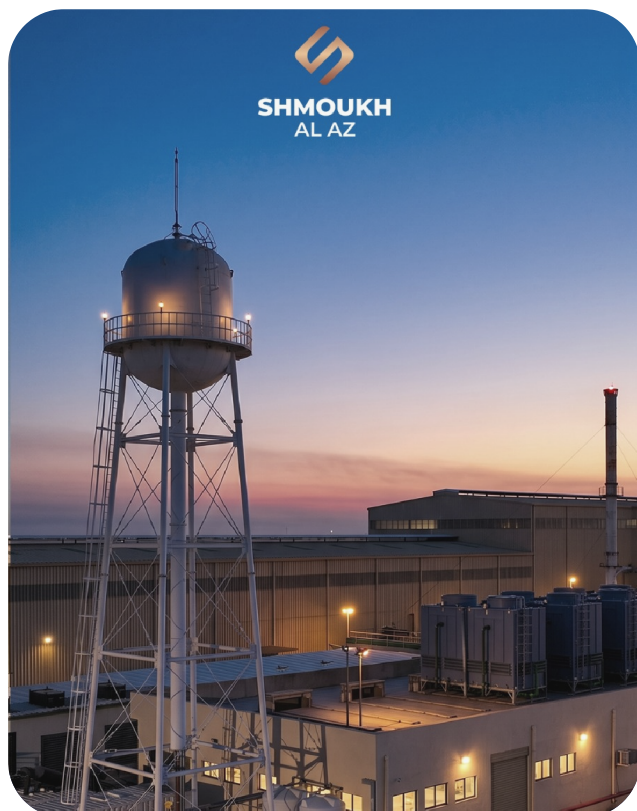


القدرة الإنتاجية لقضبان
النحاس في مصنعنا

8 إلى 25 ملم



Production Process



Inside the plant, copper moves through an integrated sequence from scrap sorting to high-purity rod and wire, with control and quality monitoring at every production stage.

01 Sorting & Shredding

Copper scrap is received and metal separated from plastic insulation on Eldan.

02 Melting & Refining

Reverberatory melting and refining furnaces deliver high-purity copper.

03 Continuous Casting & Rolling

Copper rod is formed on the continuous casting and rolling line CCR.

04 Annealing & Finishing

Heat treatment of the wire, then coiling, packing and delivery.

2026

operations began

30,000

tons per year

100

tons per day

14,000

m² enclosed area



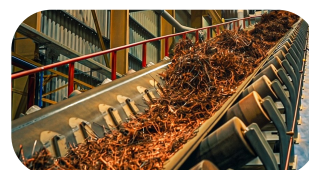
Annealing & Coiling



Continuous Casting



Melting & Refining



Sorting & Handling

Annealing & Coiling

After casting, rolling and annealing, the copper moves to the coiling stations, where it is wound under controlled tension and speed into evenly layered coils, then strapped, weighed and moved out ready for delivery or wire drawing.



01 Coiling station



02 Coiling stations in the production hall

Copper Rod Specifications

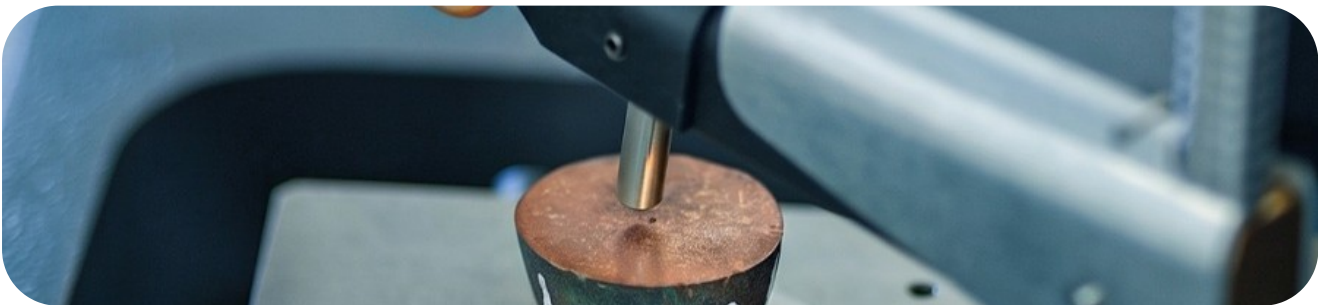
Our products fully comply with international standards and are manufactured to ASTM B49-98.

Property	Specification
Copper purity (Cu)	> 99.9%
Electrical conductivity (IACS)	100.5 – 101.3%
Oxygen content	150 – 300 ppm
Elongation	40 – 45%
Tensile strength	230 – 240 N/mm ²
Drawability	Down to 0.3 mm wire diameter

ASTM B49-98

EN 1977:1998 CW005A

FRHC



Commitment to Excellence

Rigorous Quality Control

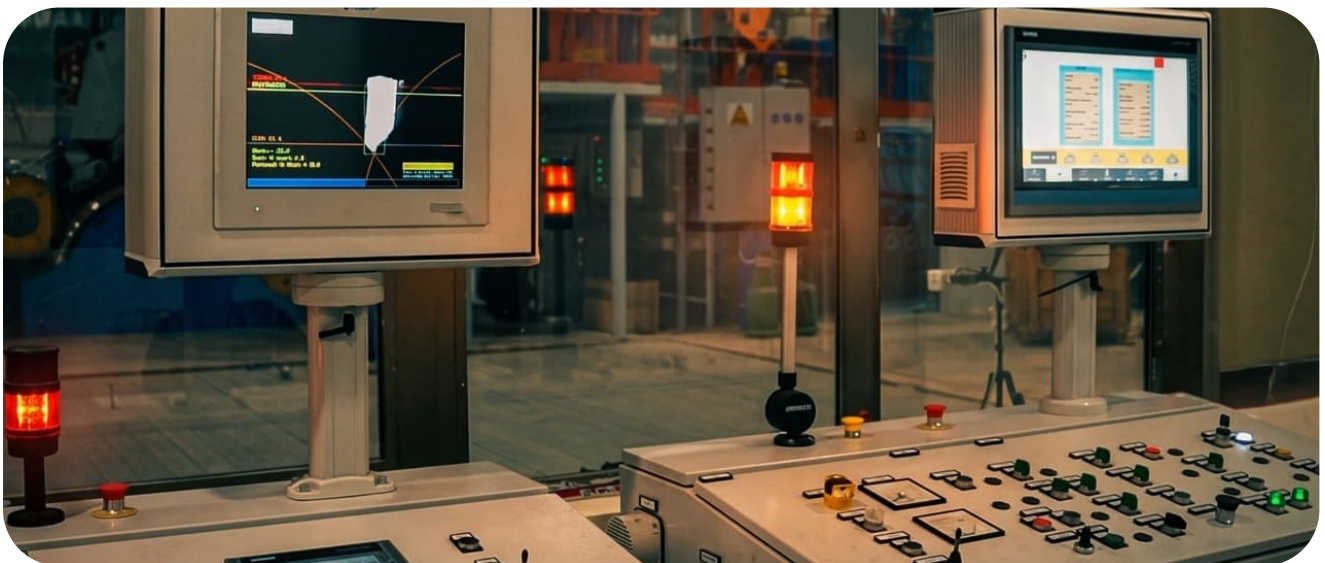
Every stage of production — from initial scrap shredding on Eldan lines from Denmark to final casting in furnaces from Continuuus-Properti of Italy — is subject to strict quality control.

Technical Precision

Using the integrated continuous casting and rolling (CCR)) line, we maintain consistent mechanical and electrical properties across all products at high purity levels.

International Compliance

We operate to strict international and local quality-management standards so our output is dependable for critical applications in power grids, telecommunications and major construction projects.



Applications

Our high-purity copper rod and wire power five essential sectors across Iraq.



01

Power & Electricity

We are a principal supplier to the power sector: our rod delivers the conductivity needed for conductors, electrical cables, transmission lines and distribution networks at maximum efficiency and minimum loss.



02

Telecommunications

In the digital era we supply highly drawable rod for telecom cables, data transmission and precision interconnect systems.



03

Construction & Infrastructure

From major commercial developments to residential wiring, we provide reliable wire, cable and distribution solutions.



04

Manufacturing & Industry

Raw material for transformers, motors, generators, industrial equipment and control systems — high purity with consistent quality.



05

Renewable Energy

We support solar, wind and EV-charging infrastructure projects with high conductivity and long-term efficiency.

Our Services

Copper Scrap Intake & Processing

Purchasing and collecting copper scrap from local sources and processing it in-plant to the highest efficiency standards — a genuine alternative to imports.

Made-to-Order Manufacturing

Rod and wire produced to specific diameters and specifications for each project — power, telecom or construction.

Quality Control & Technical Certification

Inspection and conformity reports to international specifications (ASTM B49-98)), with full traceability of every production batch.

Supply & Distribution

Bulk supply for government and private projects, with continuous supply available to investment and industrial companies.

Technical Support & Consultancy

Helping clients — utilities, telecom operators and contractors — select the right specification and diameter for their project.

Long-Term Industrial Partnerships

Annual or operational supply contracts with public and private entities.

DEPARTMENTS

Plant Departments

Administration & HR

Finance

Supply Chain &
Procurement

Sales

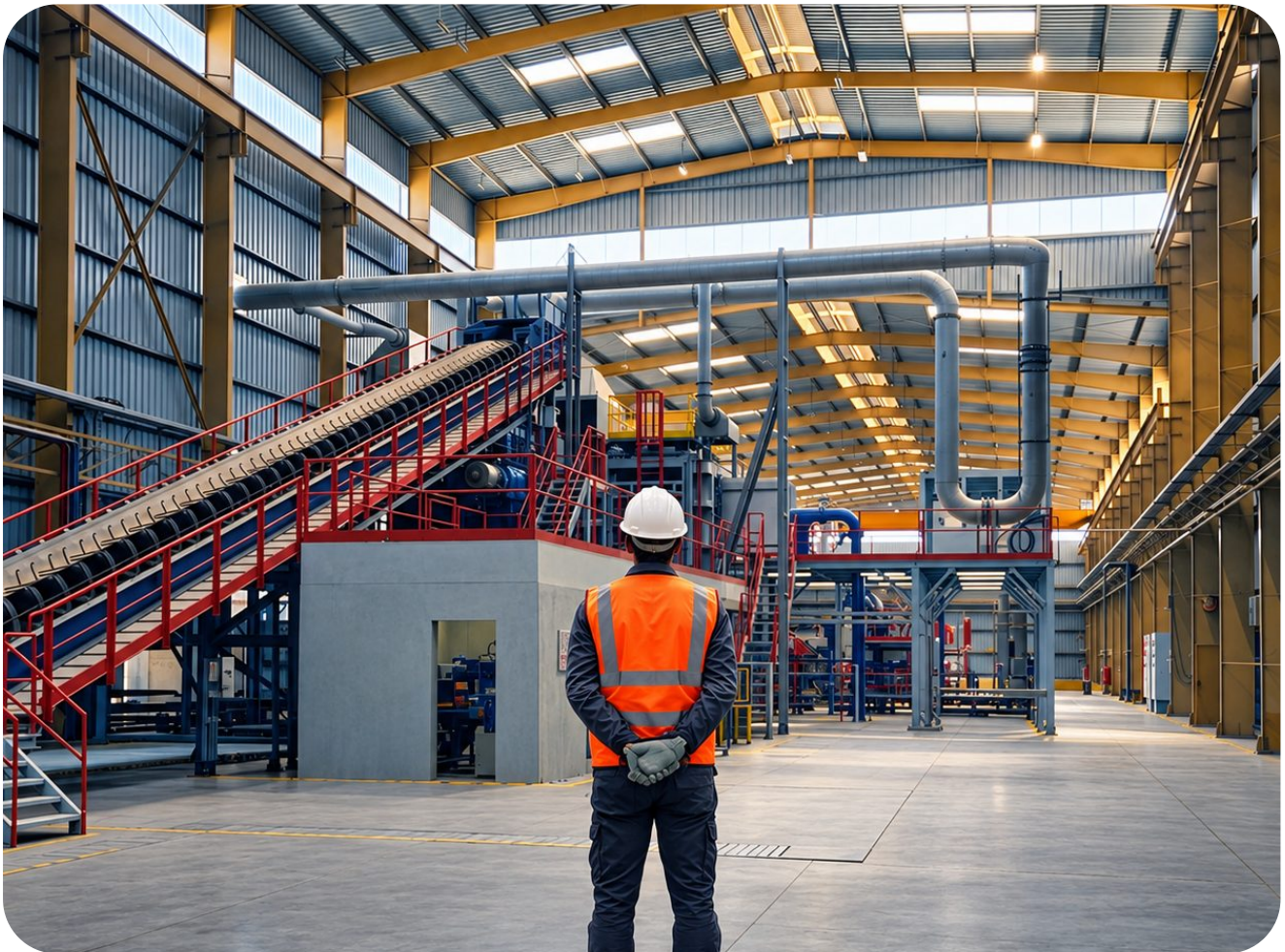
Health, Safety &
Environment

Security

Quality

Production

Maintenance



Sustainability

At SHMOUKH AL AZ we believe genuine industrial leadership is inseparable from our responsibility to the planet. We do not simply manufacture copper — we are redefining a more sustainable industrial future by embedding environmentally conscious practice at the core of our operations.



Our Commitment to a Better Tomorrow

Energy Efficiency

Advanced melting and casting technologies that markedly reduce heat loss and energy consumption.

Responsible Resource Management

Optimising our processes to minimise industrial waste and maximise output efficiency.

Circular Economy

Placing recycling at the heart of our business model so vital resources are conserved and kept in continuous use.

The Sustainable Copper Cycle



Copper Recycling – In Service of Nature

Recycling copper scrap is one of the most effective examples of the circular economy. Through melting, refining and casting into the required end product, substantial energy savings are achieved while reducing the need for additional mining.

2.5×

the energy required to produce copper from mined raw material compared with recycling scrap.

750×

the difference in sulphur dioxide SO₂ emissions, in favour of recycling.

Our advanced recycling plant can process and melt a wide range of copper scrap — from high-purity bright copper from drawing operations (close to cathode grade) to lower-grade scrap with a minimum copper content of around 93%.

من النفايات النحاسية إلى مورد مستدام.

نعيد تدوير النحاس بكفاءة عالية وتقنيات منظّبة لتحويل المخلفات إلى منتجات نحاسية عالية الجودة، مساهمةً في اقتصاد دائري أكثر استدامة.



إعادة التدوير

تحويل مخلفات النحاس إلى مواد قيّمة



كفاءة الاستهلاك

توفير الطاقة والموارد الطبيعية



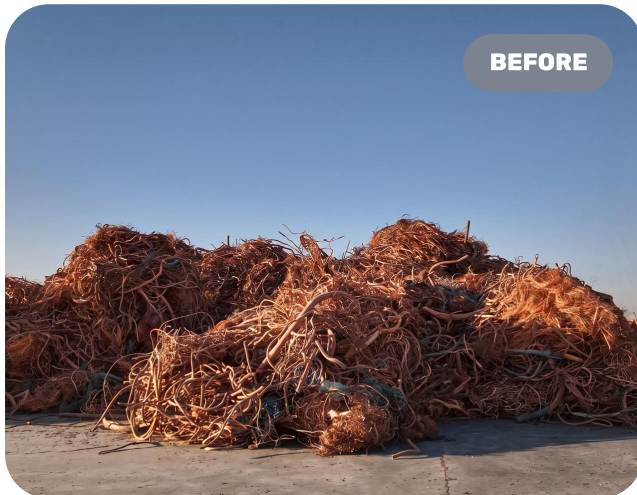
مستقبل أفضل

اقتصاد دائري نظيف ومستدام

BEFORE & AFTER

Before & After

From locally collected copper scrap to high-purity copper coils and rod ready for market — this is the added value the plant creates in every production cycle.



Copper scrap and end-of



Copper coils above 99.9% purity, ready for delivery.



Scrap piles in the outdoor yard before sorting and shredding.



Rod and wire in standard diameters compliant with ASTM B49-98.

93%+

minimum copper content in accepted scrap

100

tons of copper rod and wire per day

99.99%

final product purity

Health & Safety

We believe human safety is the foundation of success. We are committed to a safe and healthy working environment through international best practice, a culture of prevention, and continuous adherence to occupational health and safety standards across all operations.

Zero Harm Culture

ZERO HARM CULTURE

We are building an organisational culture aimed at preventing incidents and injuries through awareness, shared responsibility and continuous improvement.

Safety First

SAFETY FIRST

Safety is an absolute priority in all our activities; every operational decision and procedure is taken to protect workers, visitors and assets.

Risk Assessment

RISK ASSESSMENT

We carry out systematic risk assessment before any work begins, applying control and prevention measures to sustain safe operation.

Emergency Response

EMERGENCY RESPONSE

We maintain integrated emergency response plans supported by regular drills, qualified teams and modern equipment for a fast, effective response.

Our Partners

A partnership across both sectors

A partnership agreement between the Iraqi central government — the Military Industrialization Authority and the State Company for Copper and Mechanical Industries — and Hazhar International Group, to build and operate a new copper recycling plant in Fallujah.

Continuus-Properti

ITALY • MELTING & CASTING

A long-established Italian company and world leader in the design and manufacture of continuous casting and rolling lines for non-ferrous metals. It is our principal supplier for the plant's melting and casting system — specifically the CCR «Prime Rod» line that converts molten copper into continuously cast rod, ensuring optimal thermal efficiency and consistent output.

Eldan Recycling

DENMARK • SHREDDING & SORTING

A Danish specialist in heavy shredding and sorting machinery for metal recycling. It supplied the shredders used in the advanced shredding stage of copper scrap — the first step before material enters the melting lines — ensuring consistent feedstock quality.

CONTACT

**SHMOUKH
AL AZ**

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