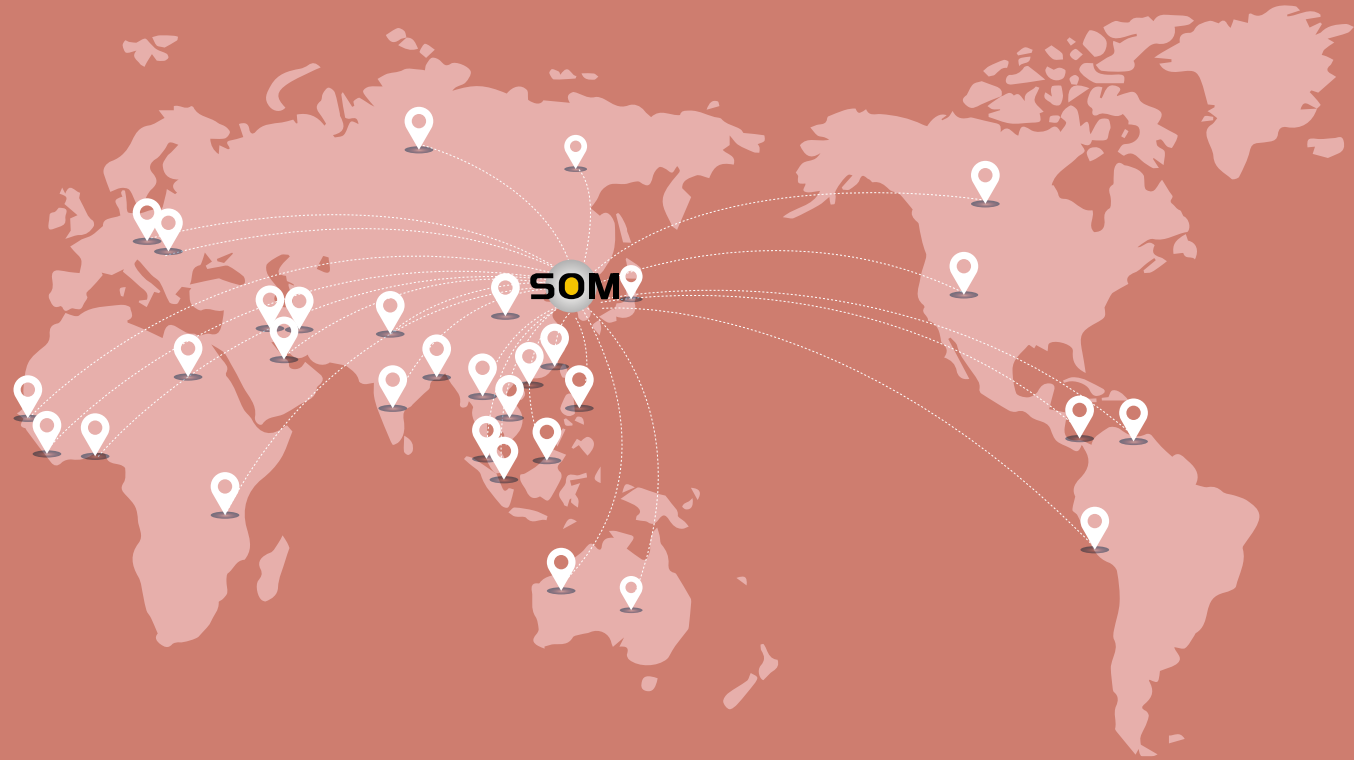
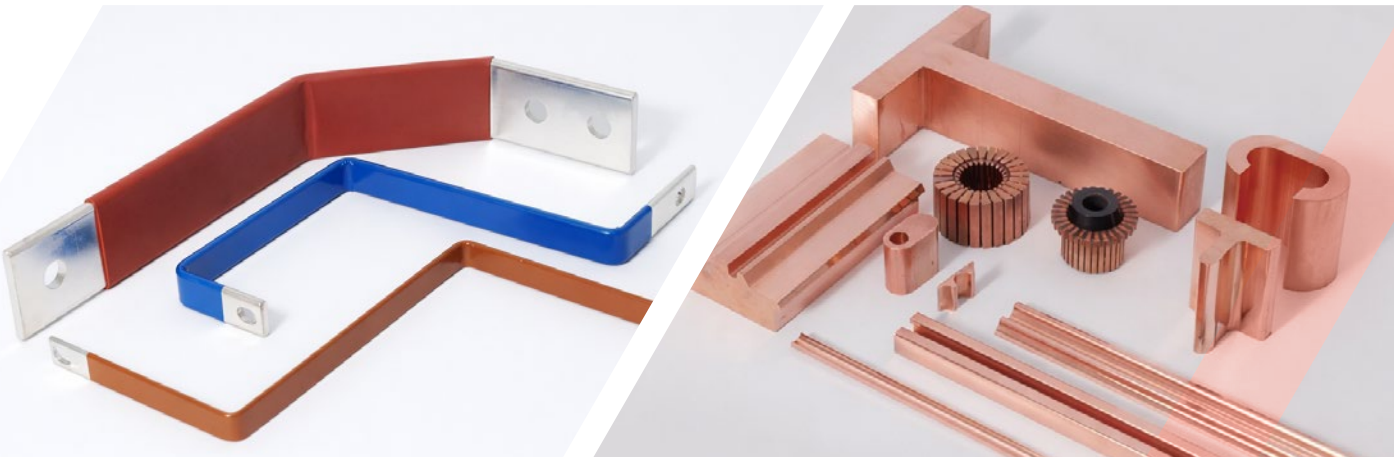




SOM

SOM Group



SEOUL METAL Co., Ltd.

Headquater/Sihwa Factory

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SOM HOLDINGS Co., Ltd.

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DAE HYUN Co.,Ltd.

Gimpo Factory

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Incheon Factory

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CONTENTS

Since 1982, SOM Group has been dedicated exclusively to the non-ferrous metals industry. With high purity standards and advanced surface treatment technology, we are recognized for delivering outstanding quality in electrical conductivity and workability.

We specialize in the production of tough pitch copper billets and silver-bearing copper alloy billets, as well as copper extrusions, copper busbars, copper rods, and various custom copper profiles, positioning ourselves as a leading copper materials manufacturer.

In addition, we operate a fully integrated production system capable of turnkey orders, including busbar plating and tubing processes. As Korea's largest and only fully integrated copper materials company equipped with an advanced ERP system and smart factory infrastructure, we provide solution-based business services by supplying the highest-quality products on time, tailored to meet our customers' specific needs.

Driven by trust and a spirit of challenge, our group continuously strives to align with our customers' goals and deliver superior quality. In recognition of our efforts, we have been officially certified by the Korean government as a "Prestigious Root Enterprise" and a "Best Root Enterprise to Work For." Through the full smart transformation of all our facilities, we have automated the root industry and advanced toward an ACE industry—Automatic, Clean, and Easy. We have obtained KS and JIS certifications and secured multiple patents related to extrusion and busbar packaging, leading the copper materials industry in technology, quality, and production capacity.

Beyond being a copper materials manufacturer, we are committed to sustainability and the future. In the era of AI-driven transformation, we continue to evolve as a globally competitive leader, working closely with our customers to build long-term value and innovation.

04 _P ETP COPPER BUSBARS	06 _P COPPER SHAPED BARS AND PROFILES	08 _P SILVER & TIN ELECTROPLATING	10 _P COPPER FABRICATED GOODS	12 _P COPPER BILLETS & EXTRUSIONS	14 _P OFC WIRE ROD
16 _P CONFORM EXTRUDED COPPER PRODUCTS	18 _P MANUFACTURING PROCESS	20 _P HISTORY	22 _P QUALITY ASSURANCE, R&D	23 _P COMPANIES	

ETP COPPER BUSBARS

ELECTROLYTIC TOUGH PITCH COPPER BUSBARS

High electrical and thermal conductivity
Excellent corrosion resistance
Superior mechanical strength

Copper Busbar is a high-performance metal conductor that plays a vital role in efficient and stable power transmission. It is mainly used in electric panels, switchboards, transformers, and power distribution systems, ensuring reliable delivery of high-current electricity.

Our company performs the entire process - melting, casting, extrusion, and drawing - in-house to produce busbars in a wide range of sizes and profiles.

We utilize electrolytic copper cathodes and high grade copper scrap as raw materials, achieving superior purity and excellent mechanical properties.

With low oxygen content, our busbars feature smooth surfaces, minimal porosity, and excellent, workability and plating performance.

STANDARD

- KS D 5530
- KS D 5101
- JIS H 3140
- JIS H 3250
- ASTM B187/187M
- Cu 99.9% Min
- Electrical Conductivity 98%IACS Min

SIZE

THK IN MM	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
1.5																									
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- FRE (FULL ROUND EDGE), SQ (SQUARE), ROUND
- METRIC & IMPERIAL SIZE AVAILABLE
- Additional sizes and specifications available upon request

APPLICATION

Power Distribution in Switchgear, Connection Conductors for Transformers, Earthing Busbars, Thermal Management Components.



INDUSTRY SERVED

Power & Renewable Energy, EV & Electric Mobility, Data Center Infrastructure, Industrial Plants & Shipbuilding, Building & Infrastructure



COPPER SHAPED BARS AND PROFILES

Engineered Precision Complex Shapes and Simplified Assembly High Purity Copper and High Energy Reliability

Our copper shaped bars and profiles are engineered for high-performance electrical and industrial systems where precision, conductivity and reliability are critical.

We supply profiles made from copper grades with a conductivity of up to 99.9%. This gives our profiles outstanding electrical and thermal conductivity, making them ideal for high-current, high-energy and magnetic field applications. Through advanced extrusion and cold drawing processes, we achieve tight dimensional tolerances that exceed standard extrusion requirements. Cold drawing enhances mechanical strength, improves straightness and provides a smooth, clean surface finish, often eliminating the need for secondary machining. The result is superior dimensional consistency, high tensile strength and excellent machinability.

From simple flat and round sections to complex geometries with cavities, undercuts, and hollow conductors, we provide engineered solutions that optimize conductor design, reduce material waste, and improve thermal dissipation through increased surface area. Optimized surface area improves thermal management while maintaining electrical performance.

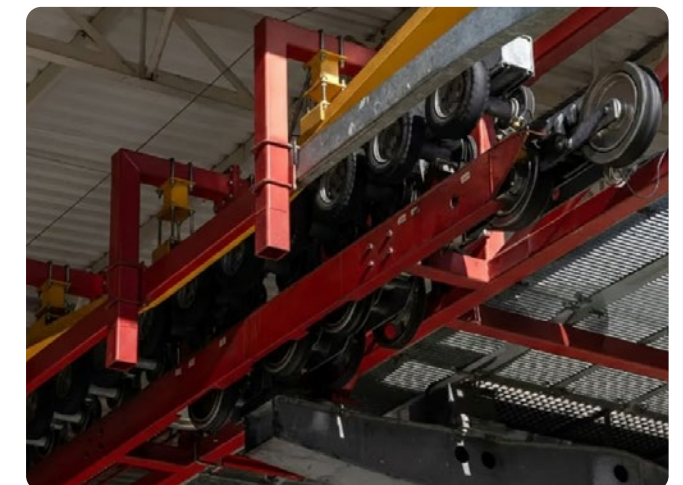
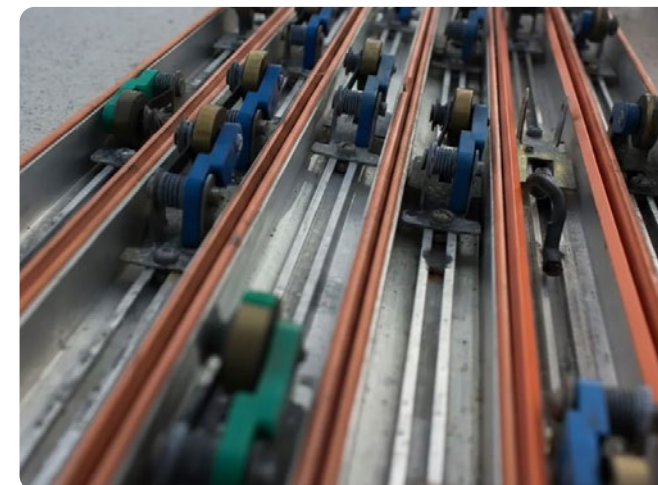
Profiles can be delivered as long lengths or precision cut-to-length components, enabling faster, hole-free assembly and significantly reducing cabinet installation time and labor costs. Copper's inherent corrosion resistance, recyclability, and long service life make our profiles a sustainable and economically competitive solution. By minimizing machining, reducing assembly time, and improving dimensional accuracy, we help customers lower total production costs while enhancing system performance.

APPLICATION

Custom Conductors for Specialized Switchgear, Commutator Segments for High-Performance Motors & Generators, Slide Rails for Hoist Cranes & Electric Railway Current Collection, High-Strength Specialized Hardware for Industrial Connectors & Clamps

INDUSTRY SERVED

Renewable Energy (Solar & Wind), Electric Vehicle (EV) Infrastructure, Railway & Urban Transit, Industrial Automation & Robotics



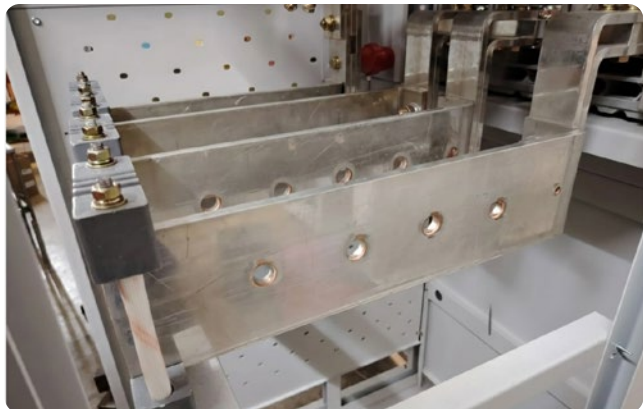
SILVER AND TIN ELECTROPLATING

In-House Plating under Stringent Quality Control
Excellent Oxidation Resistance
Low Contact Resistance

Busbar plating enhances the electrical, mechanical, and thermal performance of copper conductors by protecting them from oxidation and corrosion. High-quality plating such as silver or tin ensure low contact resistance and reduce heat buildup. And they also guarantee long-term reliability under high current loads.

This advanced surface treatment enables efficient, durable, and stable power distribution for data centers, EVs, and industrial systems. We operates its in-house automated plating facilities, ensuring full process control and consistent quality.

Using high purity of Silver and Tin, we achieve a uniform, smooth, and refined surface finish that meets global standards. Our eco-friendly plating process, certified under ISO 9001, 14001, and 45001, reflects our commitment to quality, reliability, and environmental responsibility.



SILVER PLATING

Silver plating offers excellent electrical and thermal conductivity, very low contact resistance. And it also gives high reliability in high-temperature, high-current environments through stable and efficient heat dissipation.

TIN PLATING

Tin plating offers high reliability in high-temperature, high-current environments through stable and efficient heat dissipation. Also, it offers excellent corrosion resistance and solderability. Due to its superior cost-effectiveness and ductility compared to other plating methods, it is widely used across industrial settings, including for busbars in power distribution panels and control panels.

TYPE	SILVER	TIN
CONTENTS	Ag 99.99% Min.	Sn 99.95% Min.
THICKNESS	0.127μm ~ 3.0μm	0.5μm ~ 10.0μm
SIZE	up to 4,000mm long	up to 4,000mm long
KEY PROPERTIES	Minimizes Energy Loss, Stable Conductivity at Elevated Temperatures, Reliable Contacts with Minimal Failure Risk	Superior Corrosion Resistance, Excellent Solderability, Cost-Efficiency, High Lubricity
TYPICAL APPLICATIONS	Power Transmission & Distribution Infrastructure, Conventional & Renewable Power Plants, Aerospace & Defense Systems, High-Precision Telecom & Medical Equipment	Marine & Offshore Plants, Control Systems & Enclosures, Commercial Infrastructure, Battery Energy Storage Systems

※ Customizable upon request

COPPER FABRICATED GOODS

One-Stop Manufacturing System High-Precision Fabrication Dependable Service

Our fabricated copper products are custom-made precision parts manufactured using our own copper bus bars.

Each product is produced through cutting, bending, punching and plating processes, optimized for high-current and high-reliability applications.

From design to delivery, we offer a fully integrated manufacturing system tailored to customer specifications.

PROCESS FLOW

- Design Review & Engineering Consultation
- Cutting, Punching, and Bending (CNC Precision)
- Insulating Tubing & Surface Finishing (Plating)
- Inspection & Quality Verification (ISO Certified)
- Packaging & Shipment



MANUFACTURING CAPABILITIES

- CNC Machining (Turning, Milling, Punching, Bending)
- Laser & Water Jet Cutting
- Silver / Tin Plating (In-house Facility)
- Extrusion & Drawing Process Line
- Custom Tooling and Prototype Fabrication
- Material Traceability & MTR Documentation
- Automated Inspection & Measurement Systems



WHY PARTNER WITH US?

- One-stop production system – from extrusion to fabrication and plating
- Customized machining based on client drawings and specifications
- Stable electrical and mechanical performance
- In-house plating with 99.99% silver and tin options
- Strict quality management under ISO 9001 / 14001 / 45001
- Short lead time and flexible production capacity
- Eco-friendly process & sustainable operation



COPPER BILLETS & EXTRUSIONS

Refined Purity Outstanding Workability Superior Structural Integrity

Our Copper Billet is manufactured using electrolytic copper cathode and high-grade copper scrap, achieving high purity and superior mechanical properties.

Through advanced refining and deoxidation processes, the oxygen content is maintained below 400 ppm, ensuring excellent electrical and thermal conductivity with a smooth, blister-free surface.

It is a premium material for extrusion, machining, and forging applications in electrical and industrial fields.

Furthermore, using Korea’s largest capacity 2,500-ton extruder and electric induction heating, we produce high-purity copper extrusions with single-unit weights up to 300kg and oxygen levels below 400ppm, while ensuring uniform quality and minimal surface defects.

Our products guarantee superior processability and structural uniformity, allowing us to supply a wide range of customized sizes and weights that directly contribute to enhancing your production efficiency.

COPPER BILLETS

TYPE	ALLOY NO.	Cu CONTENTS	O ₂ CONTENTS	P CONTENTS	PROCESS	ELECTRICAL CONDUCTIVITY
TOUGH-PITCH COPPER BILLET	C11000	Cu 99.9% Min.	≤400 ppm		Continuous Casting	98% Min.
SILVER-BEARING TOUGH PITCH COPPER BILLET	C11400	Composition can be adjusted upon customer request.				
PHOSPHORUS DEOXIDIZED COPPER BILLET	C12200	Cu 99.9% Min.		150~400ppm		
SIZE	Ø150, Ø160, Ø180, Ø200, Ø250 x 360~5,000mm					

COPPER EXTRUSIONS

TYPE	SIZE
COPPER TAPE	(T) 2mm ~7mm x (W) 50mm~170mm
EXTRUDED COIL	4mm x 17mm ~ 22mm x 170mm / Ø10 ~ Ø40mm
EXTRUDED SLAB	(T) 100mm Max. / (W) 250mm Max.
EXTRUDED ROD	Ø40 ~ Ø160mm

OFC WIRE ROD

OXYGEN FREE COPPER WIRE ROD

High Purity
Low Oxygen
Good Workability

Oxygen-Free Copper (OFC) wire rod is manufactured with less than 10 ppm of oxygen and over 99.96% copper purity, ensuring exceptional electrical performance.

Through precise deoxidation, it offers superior electrical and thermal conductivity, smooth surface quality, and excellent workability and reliability. It is widely used in solar ribbon wires, high-end audio cables, semiconductor and EV power lines, and communication systems requiring high conductivity and purity.

MATERIAL	OXYGEN FREE COPPER
Cu CONTENTS	99.96% Min.
O ₂ CONTENTS	≤ 10ppm
SIZE	Ø8mm, Ø12.5mm, Ø16mm
UNIT WT	3~4ton/Roll
CONDUCTIVITY	≥101%IACS

APPLICATION

Power cables and wiring, Internal wiring for electronic devices, Automotive harnesses and electrical components,

INDUSTRY SERVED

Power Infrastructure, Renewable Energy, Automotive/EV, Motor & Transformer

Upward Continuous Casting System



CONFORM EXTRUDED COPPER PRODUCTS

Continuous Copper, Continuous Performance One-Step Process High Purity, Low Loss, High Impact

Our Conform extruded copper products are manufactured using advanced continuous rotary extrusion technology, a fully continuous solid-state process that transforms in-house produced Oxygen Free Copper (OFC) Wire Rod into high-quality profiles with virtually unlimited length. By utilizing a rotating extrusion wheel and friction-based heating, we eliminate the need for conventional melting and batch processing, ensuring consistent product quality and high production efficiency.

The solid-state forming method preserves the dense grain structure of the copper, delivering excellent mechanical strength, dimensional stability, and a smooth, clean surface finish. The ability to produce seamless, long-length copper profiles eliminates potential failure points and electrical resistance, improving overall performance.

We offer a wide range of solid and hollow profiles, including busbars, strips, wires and complex custom geometries tailored to specific design requirements. Ultimately, our Conform solutions provide a cost-effective, eco-efficient, and high-performance advantage for modern electrical and industrial applications.

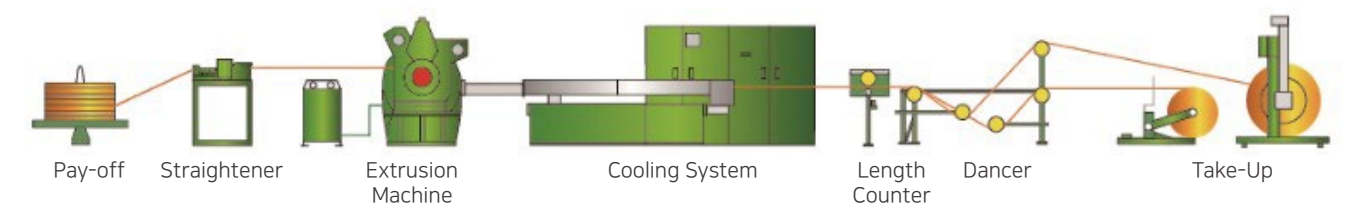
APPLICATION

Busbar, Magnet Wire, Commutator Segment, Shaped Conductor, Tube & Hollow Profile, Electric Motor

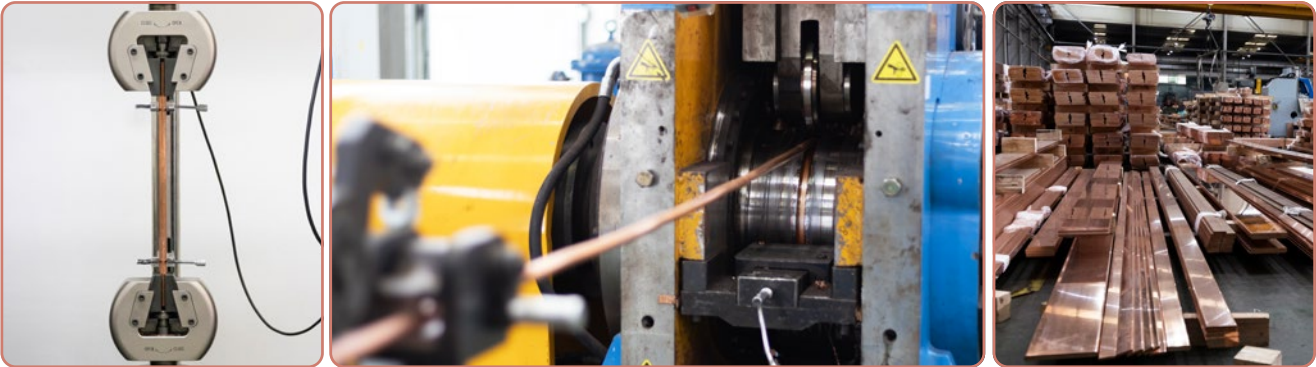
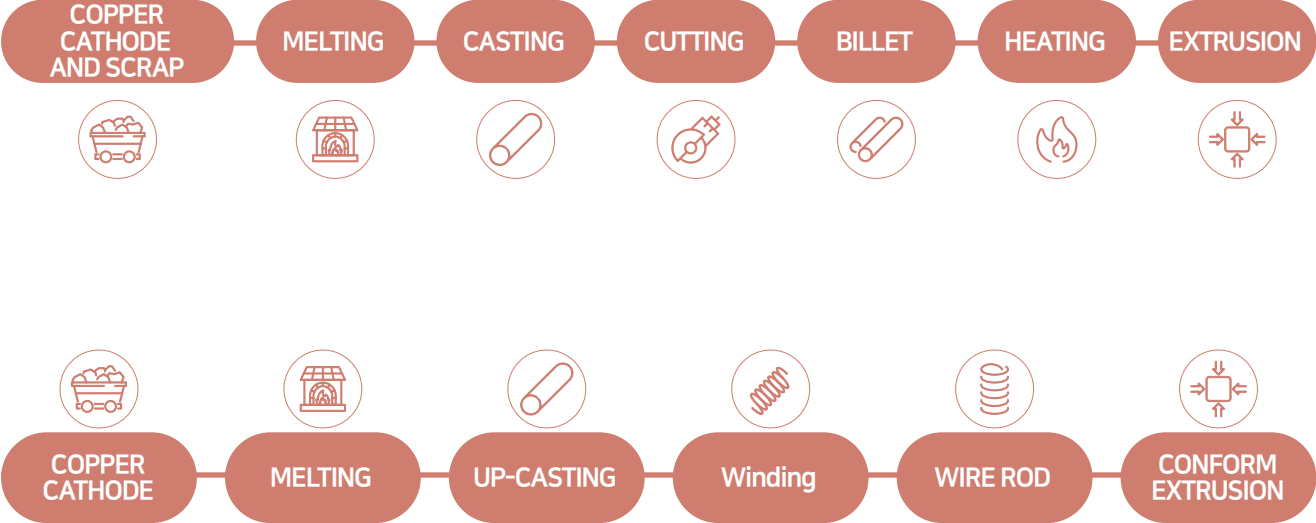
INDUSTRIES SERVED

Electric Vehicle (EV) & E-Mobility, Power Distribution & Grid, Renewable Energy, Aerospace & Defense, Electrical Manufacturing

CONFORM EXTRUSIONS



MANUFACTURING PROCESS



HISTORY



Foundation and Heritage

1982 ~ 1999



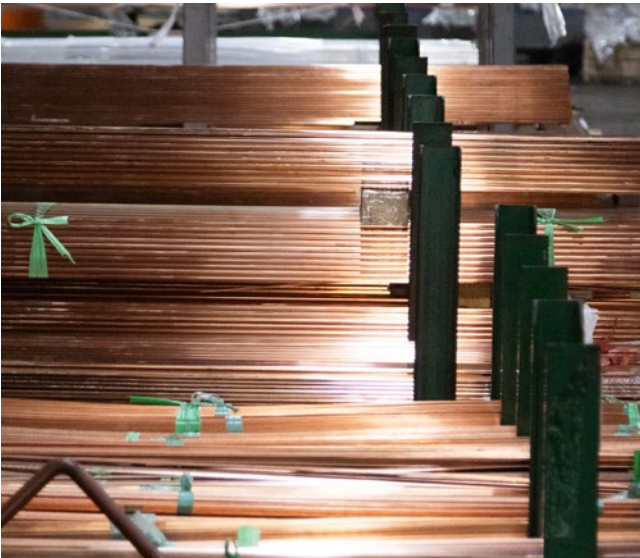
The Foundation of the Korean Non-Ferrous Metals Industry

Over 40 years of history, establishing core expertise in metal processing.

- 1998** Began production and sales of Copper Billets
- 1996** Completed Incheon Plant (Plating Line)
- 1994** Incorporated as Seoul Metal Co., Ltd.
- 1992** Incorporated Daehyun Co., Ltd.
- 1987** Relocated and Expanded Factory to Sihwa Industrial Complex
- 1982** Established Seoul Metal Industry and Daehyun Metal (Founding)

Innovation and Technology

2000 ~ 2019



Securing Technology Leadership and Quality Management Systems

Establishment of R&D centers, Venture Business and Inno-Biz certifications, and securing key patents.

- 2018** Established Technology Research Institute & Acquired ISO 9001/14001 Certifications
- 2017** Certified as a Specialized Root Technology Company
- 2016** Acquired ISO 14001 (Environmental Management System)
- 2015** Certified as a Venture Business
- 2013** Granted a Patent for Copper Billet Casting Equipment
- 2012** Certified as a Specialized Parts and Materials Company
- 2011** Acquired Inno-Biz (Innovative Small Business) Certification & Venture Business Certification
- 2010** Established Company-Affiliated Research Institute & Acquired ISO 9001 Certification
- 2006** Granted Patent for Extrusion Method of Copper Billet for Electrical/Electronic Use
- 2005** Completed Gimpo Plant and Headquarters
- 2003** Acquired KS Certification (KSD5530, KSD5101)
- 2001** Began production of Silver-bearing Tough Pitch Copper Billet

Growth and Expansion

2020 ~ 2023



Expanding R&D and Infrastructure Investment

Expansion of ISO certifications, completion of the 2nd factory, and attainment of a significant sales milestone.

- 2023** Acquired ISO 45001 Certification (Occupational Health and Safety Management System)
- 2023** Incheon Plant acquired ISO 9001, 14001, and 45001 Certifications
- 2023** Installed New Tube Working Line & Commenced Busbar Turnkey Services
- 2023** Awarded Minister of SMEs and Startups Prize & Designated as a Best Partner Company
- 2023** Introduced Conform Extrusion Facility Completed 2nd Factory
- 2022** Established Advanced Smart Factory and MES System Designated as an Excellent Root Industry & Great Workplace by the Ministry of Trade, Industry, and Energy Designated a Promising Export SME
- 2021** Introduced Automatic Drawing Equipment
- 2020** Designated as a Company with Excellent R&D Performance

Leap and Future

2024 ~ PRESENT



Growing Toward a Global Leader in Advanced Copper Materials

Focus on smart factory advancement and new high-value businesses like OFC wire rod and profile.

- 2026** Awarded the Minister of Trade, Industry and Energy Award Established a smart factory specialized in manufacturing AI
- 2025** Acquired JIS H3140 / H3250 certification Commenced production of Oxygen-Free Copper wire rod Expansion of the 2nd factory in Incheon Established a supply chain-connected smart factory Expanded export of plated busbars & Commenced operation of automatic hydraulic drawing machines
- 2024** Entered the submarine cable materials business and completed the 3rd factory Introduced an automatic packaging system and acquired a patent Awarded the Prime Minister's Commendation Established Manufacturing Execution System

QUALITY ASSURANCE/R&D

COMPANIES



SOM Seoul Metal Co.,Ltd 서울금속공업(주)

Specialized in the production and supply of high-quality copper materials, including Tough-Pitch Copper Billet, Oxygen Free Copper Wire rod

SOM Dae Hyun Co.,Ltd. (주)대현

Specialized in high-purity Copper products and advanced plating solutions, providing a comprehensive range of Copper Busbars, Rods and Extrusion Materials

SOM SOM Holdings Co.,Ltd (주)에스오엠홀딩스

As the holding company of SOM Group, not only fulfilling its role as a holding company, but also handling the export/import operations of its subsidiaries

SOM SOM Co.,Ltd (주)에스오엠

Specialized in the production of various Aluminum products, including Aluminum Rod, Shot and Wire



Yeon Hap Co.,Ltd 주식회사 연합

Producing Copper Wire and Copper Rolling, Extrusion and Drawn products