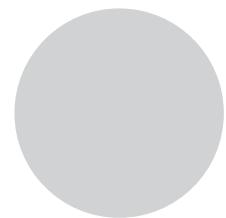


IKUTA

生田産機工業株式会社

IKUTA SANKI KOGYO CO., LTD.

〒612-8241
6 Shimomisu Tsujido-cho, Yokooji,
Fushimi-ku, Kyoto 612-8241, JAPAN
+81-75-611-4347





"We are proud of our unwavering commitment to manufacturing excellence since the company's founding. This dedication embodies the spirit of Ikuta. We never give up; we face challenges head-on, responding to customer needs with flexibility and always striving for the best possible outcomes. We steadfastly uphold our principles and dedicate ourselves to excellence. Ikuta proudly honors its commitments with perseverance."

As a leading company in the copper industry

Since obtaining a patent for our milling technology in 1955, we have built trust and a proven track record through our advanced technology and indomitable spirit, and have continued to lead the industry for nearly a century. IKUTA's path forward is to further develop the copper alloy industry. It is our role to explore the possibilities of the industry as much as possible.

Bringing you the power of
all-in-one innovation



MILLING

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[Precision Surface Scalping in Copper Rolling]

The milling line plays a critical role in copper strip production, meticulously scalping both sides of the copper strip after melting and hot rolling. This process removes impurities and achieves a high-quality, ultra-smooth surface. The precision of this initial milling phase is pivotal, as it directly influences the success of subsequent rolling processes. The accuracy of surface preparation significantly impacts the overall quality of the final product, laying the foundation for superior performance.

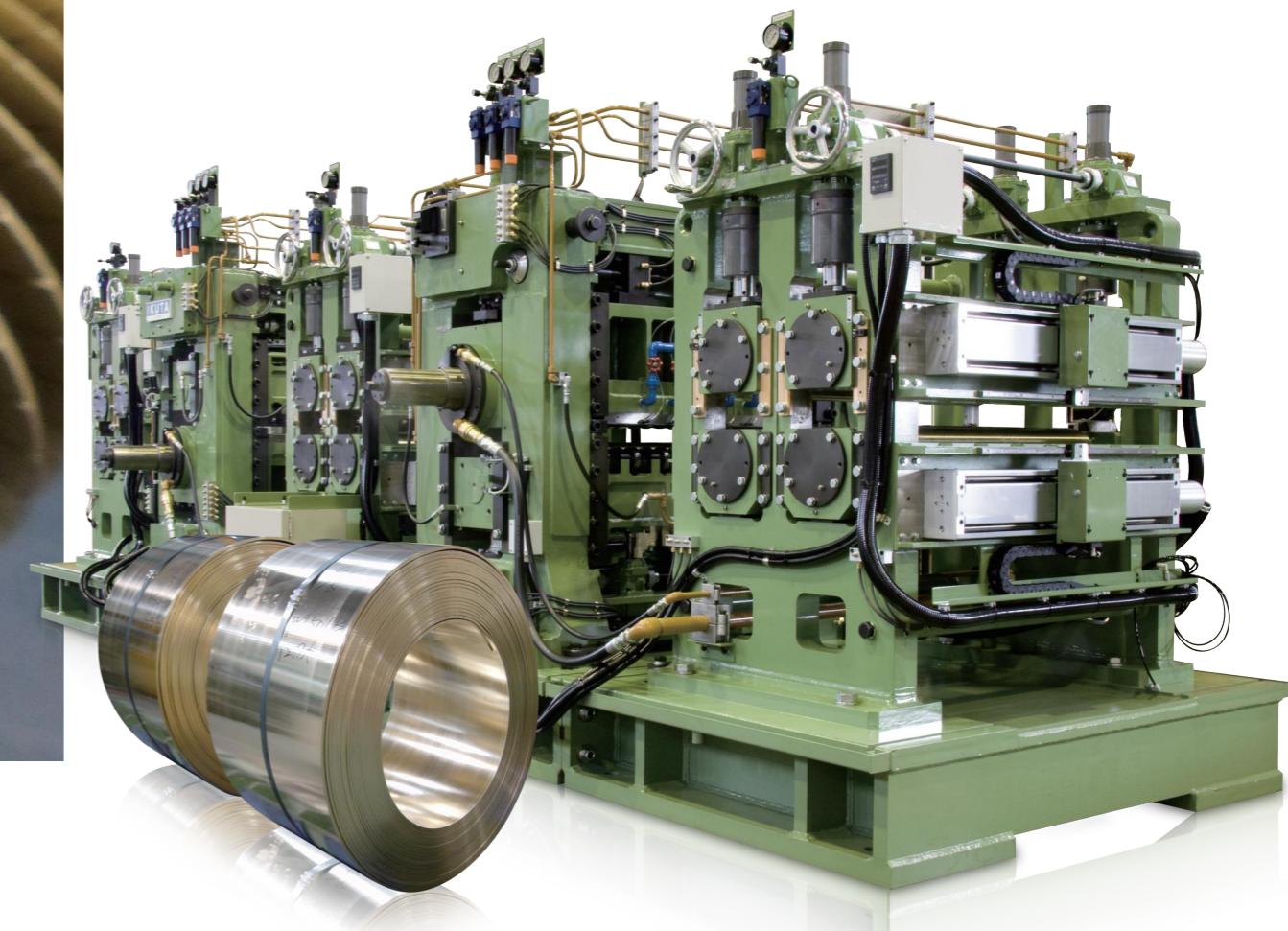
[Milling Process for Ultra-Fine Copper Surfaces]

The milling process is fundamental in achieving the ultra-fine surface required for copper strips in high-end electronic applications. This precision step directly influences the material's suitability for advanced technologies. There are three essential equipments: carbide cutter, grinder, and milling stand. IKUTA is the only company in the world capable of delivering a comprehensive solution across all three technologies, offering them as a single, integrated package.





IKUTA possesses the technical capability to deliver all three core technologies of the milling process under one roof, coupled with the ability to process and manufacture key components in-house. Our extensive experience allows us to understand the purpose, required functions, and essential elements of milling, enabling us to capture the subtle nuances and characteristics of metals that blueprints often miss. Through meticulous fine adjustments, we achieve near-perfect precision, ensuring exceptional quality and performance in every product we create.



Three In One Technology

Tungsten Carbide Milling Cutter

IKUTA's tungsten carbide milling cutter is a superalloy tool known for its exceptional wear resistance, boasting a lifespan of over three times that of traditional high-speed steel cutters. By significantly reducing replacement costs and minimizing maintenance requirements, our cutters drive efficiency and rationalization across various manufacturing processes, enhancing productivity and reliability.

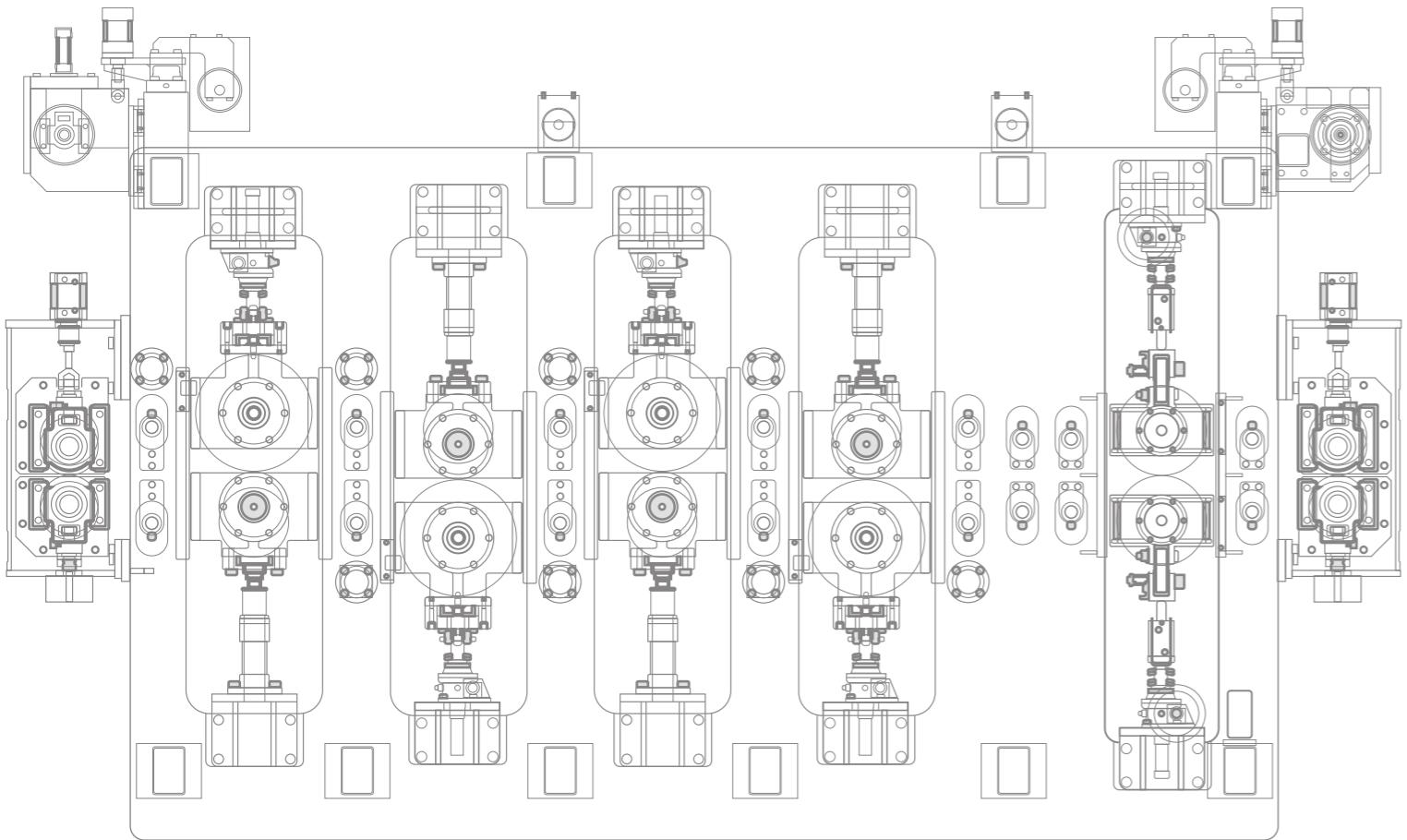
CNC Cutter Grinding Machine

The quality of the surface finish relies heavily on the sharpness of the cutter. To ensure optimal performance, we incorporate a dedicated grinding machine specifically for maintaining tungsten carbide cutters. With precision of under 10 microns, this machine automatically selects the optimal grinding method based on the material being processed. Already in use at the world's leading copper rolling factories, it underscores our commitment to delivering exceptional quality and efficiency.



Double-Sided Milling Line

This milling line produces ultra-precise surfaces that meet exact specifications. As the only inward-facing milling line in the world, developed from our unique expertise, it is rapidly gaining market share globally in response to the growing demand for high-quality copper rolled products. This innovation solidifies its status as a world standard in the industry.

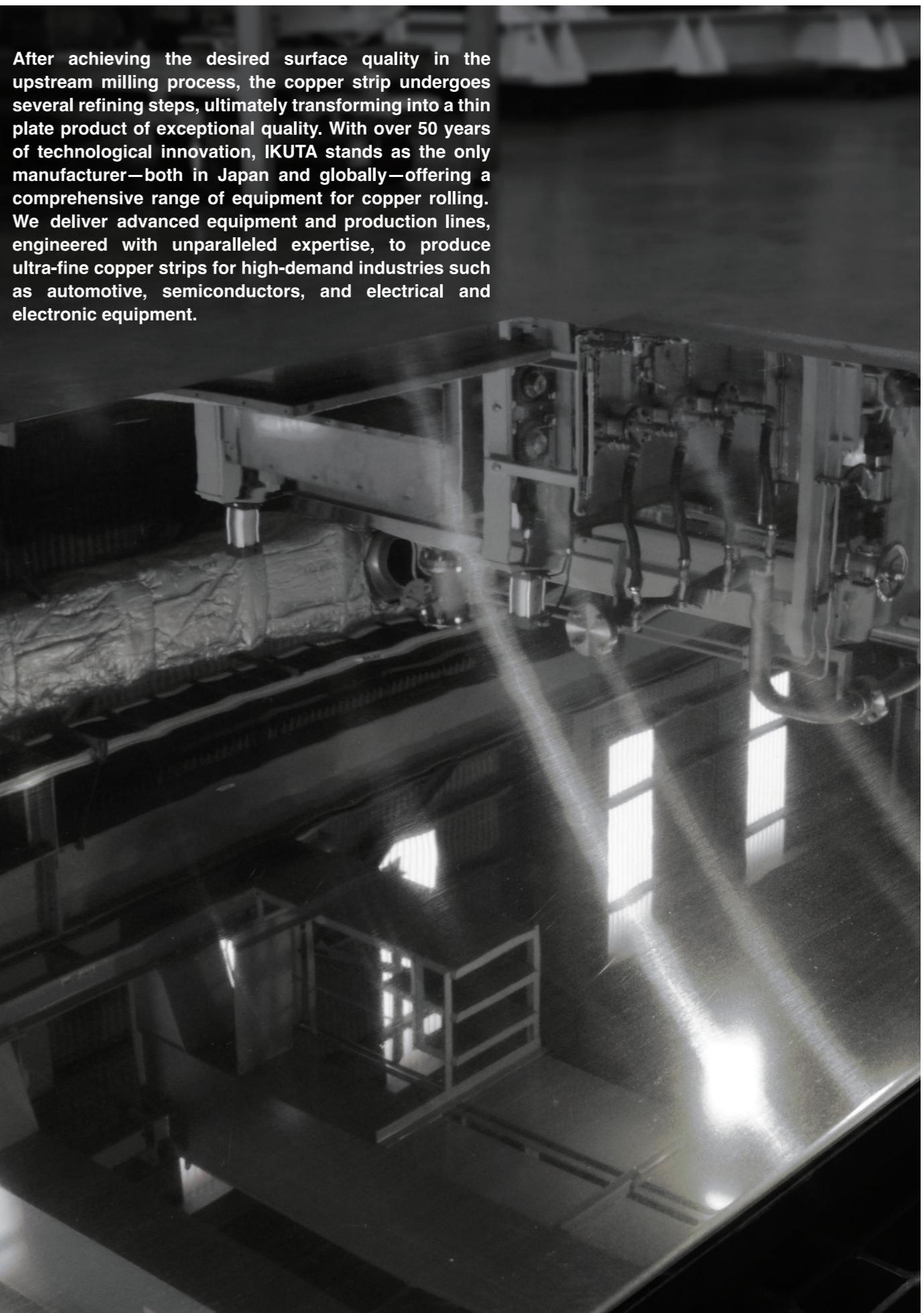


POLISHING

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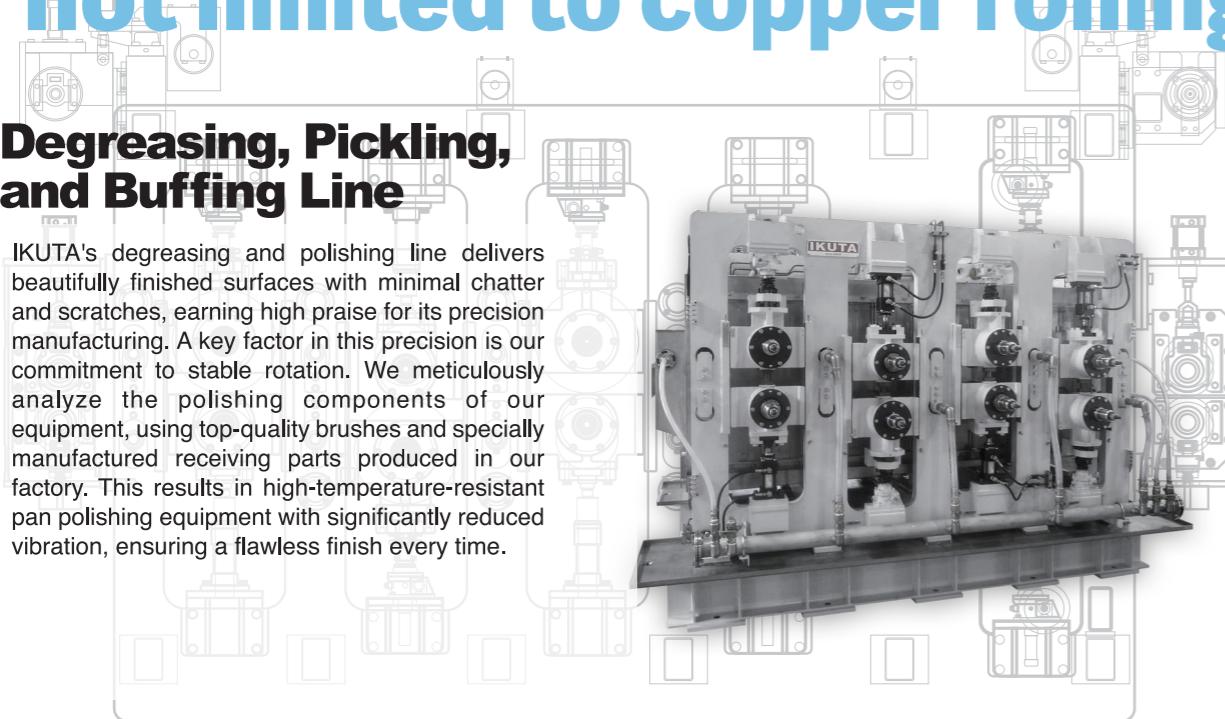
[Degreasing and Polishing Process in Copper Rolling]

The polishing line further enhances the surface quality achieved in the upstream process, delivering an even finer finish. Following this, the degreasing and washing line meticulously removes any residual oil, ensuring that the surface quality is maintained to the highest standard. Both processes utilize highly precise technologies that require a deep understanding of the delicate properties of copper strips, guaranteeing exceptional results.



After achieving the desired surface quality in the upstream milling process, the copper strip undergoes several refining steps, ultimately transforming into a thin plate product of exceptional quality. With over 50 years of technological innovation, IKUTA stands as the only manufacturer—both in Japan and globally—offering a comprehensive range of equipment for copper rolling. We deliver advanced equipment and production lines, engineered with unparalleled expertise, to produce ultra-fine copper strips for high-demand industries such as automotive, semiconductors, and electrical and electronic equipment.

Advanced technologies across all rolling processes not limited to copper rolling.



Degreasing, Pickling, and Buffing Line

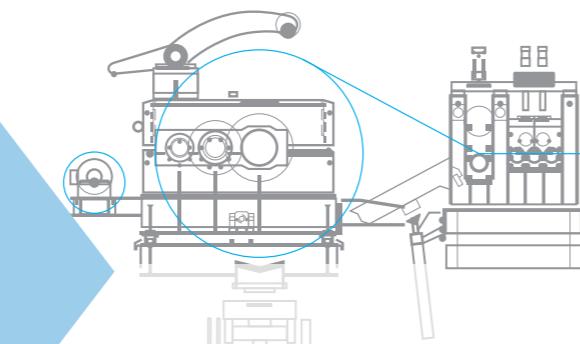
IKUTA's degreasing and polishing line delivers beautifully finished surfaces with minimal chatter and scratches, earning high praise for its precision manufacturing. A key factor in this precision is our commitment to stable rotation. We meticulously analyze the polishing components of our equipment, using top-quality brushes and specially manufactured receiving parts produced in our factory. This results in high-temperature-resistant pan polishing equipment with significantly reduced vibration, ensuring a flawless finish every time.

Reflow Plating Line

IKUTA's reflow plating technology effectively heats, melts, and solidifies electroplated layers, addressing common copper plating challenges such as peeling, burrs, and pressing defects. Our innovative plating solutions, developed through years of expertise, significantly enhance the performance of electronic components, including connectors and terminals. We remain committed to supporting the industry by providing optimal plating solutions and essential maintenance methods tailored to meet market needs.



Bringing you the power of all-in-one innovation



Slitter Line

At IKUTA, we have mastered the production of electromagnetic color removal devices, a complex technology developed through years of in-house expertise. Our extensive knowledge enables us to design and manufacture slitter lines that are precisely tailored to the product, environment, and specific requirements—whether loop or friction type. Our advanced technical capabilities ensure that metal strips as thin as 50 microns are wound evenly without scratches or wrinkles, applying the same high precision we've refined across all copper production processes.

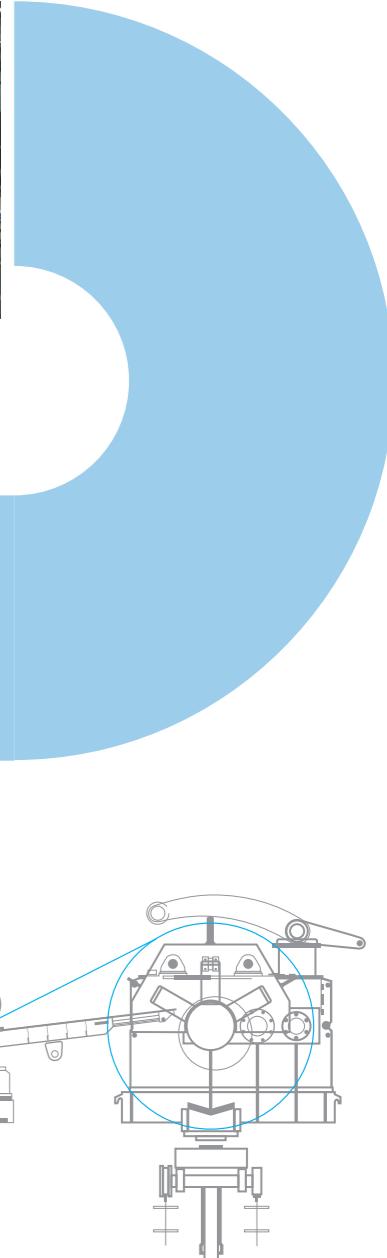


Tension Leveler Line

As the demand for high-performance electronic materials continues to rise, IKUTA's tension leveler plays a crucial role in enhancing product quality. This advanced system can handle copper strips up to 50 μm thick, effectively correcting shape defects and reducing internal residual stress to prevent warping, ensuring a smooth, uniform finish. This technology significantly lowers the failure rate of products caused by poor plate shape and internal stress, contributing to overall reliability and performance.



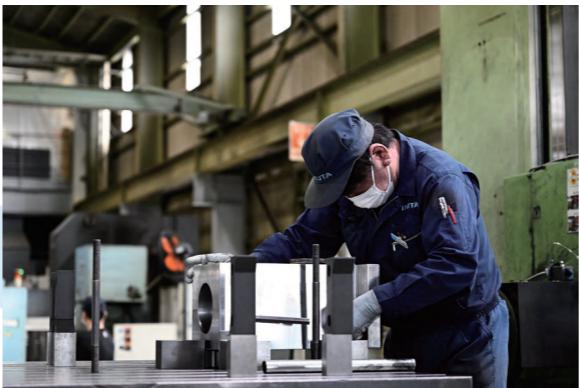
Once the strip has achieved a satisfactory surface quality in the facing process in the upstream copper drawing process, it then goes through various processes to become the final thin plate product. IKUTA has 50 years of technological development experience and is the only manufacturer in Japan and overseas that can provide various equipment and lines for the copper drawing process. We provide equipment and lines equipped with outstanding engineering know-how in various processes to create the super fine strip surfaces required in industries such as automobiles, semiconductors, and electrical and electronic equipment.



The technical capabilities that IKUTA has developed over many years of experience in copper production in manufacturing are also applied to the final process of the slitter line. It has been. The accumulated experience of metal is 4mm wide and 4mm thick. The 50 micron strip is wound evenly without any scratches or wrinkles.

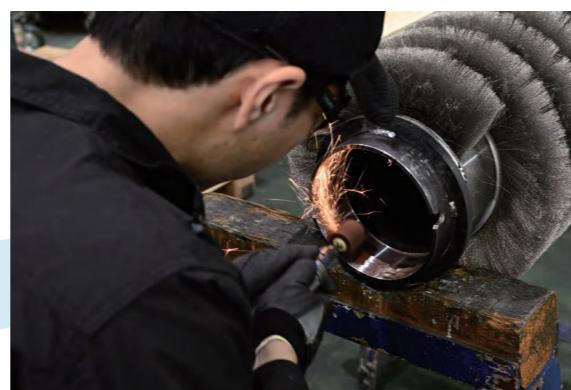
Experience

With decades of experience in copper production line technology, particularly in facing processes, IKUTA has developed unique capabilities that extend beyond traditional methods. Our advanced technological development enables us to meet the customized equipment needs of our clients, delivering tailored solutions that perfectly align with their specific production requirements.



Technology & Innovation

As the global industrial landscape evolves and new technologies emerge rapidly, IKUTA remains at the forefront of innovation. We are dedicated to addressing the diverse challenges faced by manufacturing companies worldwide. With our extensive experience, cutting-edge technology, and innovative approach, we are well-equipped to tackle even the most complex problems.



IKUTA SOLUTION

As a world-class leader in technology development, IKUTA is a trusted partner for machine design, plant development, and comprehensive solutions in the copper and metals industries. Whether you are looking for innovative equipment design or need assistance with large-scale plant development, you can rely on us for cutting-edge solutions.

TEL. 075-611-4347

FAX. 075-622-4391

Mail. solution@ikuta-sanki.co.jp

Client Consultation

Survey and specification Meetings

Specification Creation

Development Plan

Consideration and Approval

Technical Design

Functional Design

Production Planning

Project Initiation

MADE WITH IKUTA

- Creating a better future -

Greetings

IKUTA SANKI KOGYO CO.,LTD. was founded in 1919 when my grandfather established a small ironworks in this area of Fushimi, Kyoto-Japan. In the early 1950s, following the war, we began manufacturing equipment for copper drawing. Since then, we have specialized in producing full custom-made metal manufacturing equipment, primarily focusing on facing machinery for copper and other metal materials, tailored to meet our customers' specifications. Today, we are proud to hold the No. 1 market share in facing machines for copper drawing in Japan. In 2002, we established our first overseas subsidiary in Suzhou, China, followed by another in Istanbul, Turkey, in 2015. We continue to work alongside our customers to promote IKUTA's world-class manufacturing with pride.

A pivotal moment for our company was our decision to expand overseas to China in 2002, made possible by our 2000 development of an in-house carbide milling cutter. This enabled us to offer all three core milling technologies—milling machines, cutter grinding machines, and maintenance—in one package. While manufacturing cutters posed significant challenges and faced internal opposition, I remained committed to leveraging our inherited human resources for growth. Our dedicated employees successfully developed IKUTA's carbide milling cutter, allowing us to take a decisive step toward globalization and ongoing expansion.

In today's rapidly advancing technological society, our most valuable asset is our people. Since our founding, we've embraced the principle of "Do your best and leave the rest to fate," fostering a culture of "Manufacturing through nurturing people." This commitment to personal growth, cherished by our predecessors, remains the essential foundation of our company, unchanging despite growth or societal shifts. Our culture and belief in people as assets have earned us the trust of our customers over the years. As we see a rise in the younger Z generation, especially in Southeast Asia, we recognize the growing need for IKUTA's sincere approach to manufacturing. We aim to share our skills and values with these emerging engineers worldwide and shape the future of IKUTA together.

Our vision for "MADE WITH IKUTA" is a world where people from all walks of life—across generations, nations, cultures, religions, genders, and skin colors—come together under IKUTA's shared values. By respecting and inspiring one another, we foster individual growth that contributes to the company's success and enriches society. This is the future we envision with "MADE WITH IKUTA."

As we celebrate our 105th anniversary in 2024, we reflect on our active recruitment of foreign engineers, starting with our first Chinese international student in 1997. Since then, we've welcomed engineers from Germany, Thailand, Turkey, Indonesia, Brazil, India, Myanmar, and more. Today, with a focus on future overseas expansion, generation Z foreign engineers work alongside Japanese engineers in our manufacturing efforts.

With the vision of a brighter future through "MADE WITH IKUTA," we will continue to take bold steps forward.

生田泰秀



History

The techniques and ideas passed down from our predecessors are IKUTA's assets. We will protect them, refine them with wisdom and effort, and pass them on to the next generation.

1919年

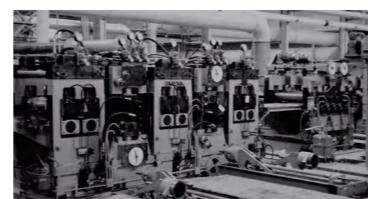
- The company's founder, Sutekichi Ikuta, established Ikuta Ironworks, initially focusing on manufacturing scientific machinery.
- Developed sake brewing machinery and filter presses, contributing to the streamlining of sake production.

1950年

- Following the encounter with Masataka Terada, an engineer from the former Manchurian Railway (and former IKUTA chairman), the company began manufacturing copper processing equipment. Developed the copper washing, crushing, and sorting machine, as well as automation equipment for rolling mill tables (utility model approved).

1970年

- Developed the Double-Surface Scalping Machine, contributing to significant labor savings in surface cutting operations. The first unit was delivered to Sumitomo Metal Mining. After that, all copper companies adopted double-sided surface cutting machines.



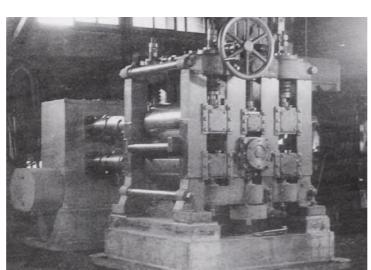
1953年

- Established as Ikuta Sanki Kogyo Co., Ltd.



1955年

- Secured patent No. 27-14473 for the copper plate surface cutting device (scalping machine), succeeding in mass production. This contributed significantly to the dramatic improvement of the quality of copper products in Japan, making the surface cutting device essential in copper strip production.



1961年

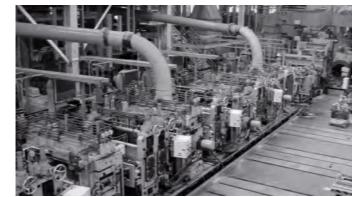
- Constructed a new factory at the current site.

1995年

- Developed a CNC cutter grinding machine based on Windows NT and delivered it to Hitachi Cable.

1999年

- Yasuhiro Ikuta becomes the company president.
- Delivered the world's first tandem-type double-sided cutting line to Minchali Metal in Taiwan.



1974年

- Munehiro Ikuta becomes the company president.

1978年

- Delivered the first export unit of the double-sided facing machine and automatic welding equipment to South Korea's Poongsan Metal Corp (now Poongsan Holding Company), marking the company's first export. Later supplied to copper manufacturers in Hong Kong and Taiwan.

1985年

- Developed a large-scale 1500mm-wide double-sided facing machine and delivered it to Mitsubishi Shindoh (now Mitsubishi Materials).

1986年

- Delivered double-sided milling machines to an Iranian state-run copper factory.



1994年

- Supplied a 1500mm-wide large-scale double-sided facing machine to Germany's KM-Europa Metal.



2002年

- Established Ikuta (Suzhou) Machinery Co.,Ltd., a 100% owned subsidiary in Suzhou, China.

2004年

- Delivered the world's finest degreasing line for 6µm copper foil.

2006年

- Successfully developed the world's first profile bar tension leveler (Patent No. 4164111).



2007年

- Acquired CE marking for cutters for HALCOR S.A. of Greece.
- Selected as one of the "300 Vibrant Manufacturing SMEs" by the Small and Medium Enterprise Agency of the Ministry of Economy, Trade and Industry.

2008年

- Delivered a double-sided cutting line and cutter grinding machine to China's largest state-owned copper company, Tianshan Copper.
- Received the "Kyoto Small Business Technology Award."



2012年

- Established Seiwa (Suzhou) Technology Research Co., Ltd.

2013年

- Delivered the latest facing machine to a major domestic copper manufacturer.

2014年

- Delivered a metal-resin lamination line to the European plant of a Japanese composite material manufacturer.
- Exhibited at EuroBLECH 2014, the 23rd International Sheet Metal Working Technology Exhibition in Hannover, Germany.

2015年

- Established IKUTA MAKINE A.S. in Istanbul, Turkey.
- Awarded the "Master Craftsman of Kyoto" award in the 2014 fiscal year for excellence in skills in the Kyoto area.

2016年

- Opened an office and factory for the Turkish subsidiary IKUTA MAKINE A.S. in Istanbul.

2021年

- Established Seifuku Co., Ltd.
- Established IKUTA MFG Support and Service Co., Ltd.

2023年

- Established Ikuta Group Co., Ltd.
- Integrated Fujiplanning Co., Ltd. into the group.

CREDO



IKUTA's Philosophy

All the customers and associates are the assets of IKUTA. IKUTA, its Customers and Associates collectively termed as "Sanpouyoshi" (三方善し) in Japanese has to make combined progressive efforts to produce highly proficient products and simultaneously reaping the benefits. To achieve this growth IKUTA promises its Operations in synchrony with 38 elements viz Speed, Simple, Symphony.



All the employees and their families are IKUTA's assets. IKUTA has utmost respect for its Employees and provides enough chance for their development in terms of their destiny and shining their personalities. Employees should believe that everyone is the integral part of one family and have mutual respect and understanding for each other. Superiors help to grow their Sub-ordinates, Sub-ordinates sincerely learn from their Superiors and we treasure enhancing mind principled by "Sodatou" (grow by oneself), "Sodateyou" (grow each other) and "Sodachiaou" (grow together).

To work in IKUTA is to contribute to society, to have a satisfactory role in family and to enhance human intellect by having a grateful, considerate and independent mind.

For making comfortable satisfied environment, we have always engraved 3-S housekeeping system for Seiri (orderliness), Seiton (neatness & tidiness) and Seisou (cleanliness).



IKUTA's Manufacturing spirit is our Asset. The technical skills, manufacturing spirit and excellence are being passed on since 1919. We embrace our knowledge, efforts, teamwork, challenge and change that are based on manufacturing better things constantly and growing ourselves intellectually.

IKUTA must not content to its technical skills and achievements but rather try to put together progressive efforts, develop creative ideas and pass them to coming generations. IKUTA has to make efforts to fulfill its responsibilities to highest merit to get perpetual trust, confidence and support from its customers.

【MAIN CUSTOMERS IN JAPAN】

JX ADVANCED METALS CORPORATION
MITSUBISHI MATERIAL CO.,LTD.
THE FURUKAWA ELECTRIC CO.,LTD.
KOBE STEEL, LTD.
MITSUI SUMITOMO METAL MINING BRASS&COPPER CO.,LTD.
DOWA METAL CO.,LTD.
DOWA METANIX CO.,LTD.
PROTERIAL METALS, LTD.
DAIDO STEEL CO.,LTD.
NIPPON KINZOKU CO.,LTD.
JFE STEEL CORPORATION
TOYOTA MOTOR CORPORATION
MITSUI HIGH-TEC, Inc.
...AND OTHERS

【GLOBAL CUSTOMERS】

CHINALCO LUOYANG COPPER CO.,LTD. (CHINA)
JIANGXI COPPER CORPORATION (CHINA)
NINGBO XINGYE SHENTAI GROUP CO.,LTD. (CHINA)
ANHUI XINKE NEW MATERIALS CO.,LTD. (CHINA)
MINCHALI METAL INDUSTRY CO.,LTD. (TAIWAN)
FIRST COPPER TECHNOLOGY CO.,LTD. (TAIWAN)
SIAM POONGSAN METAL (THAILAND)
LEE KU INDUSTRIAL CO.,LTD. (KOREA)
POONGSAN CORPORATION (KOREA)
KME (GERMANY)
HALCOR S.A (GREECE)
SOFIA MED (BULGARIA)
PMX INDUSTRIES. INC. (USA)
ALTEK DÖKÜM (TURKEY)
ÖZER METAL (TURKEY)
...AND OTHERS