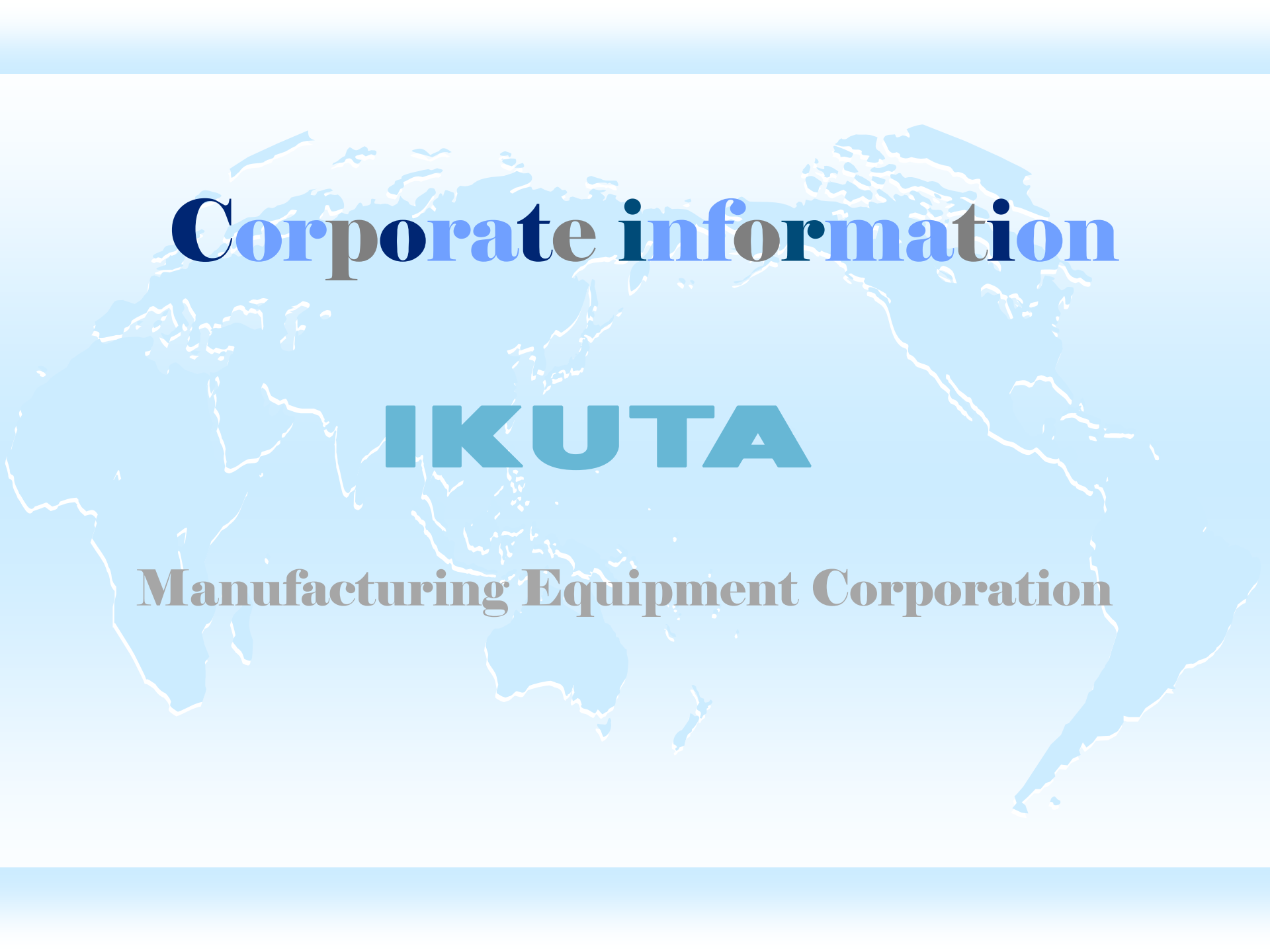


A light blue world map is centered in the background of the slide. The text is overlaid on the map.

Corporate information

IKUTA

Manufacturing Equipment Corporation

IKUTA contributes various machines used for making high quality copper strip products such as electronic components. Particularly, our work has been spread not only for copper strip products but also aluminum, iron and some composite material.

IKUTA



**Please contact us from inquiry
form of our website.**

URL : <http://ikuta-sanki.com>

IKUTA SANKIKOGYO CO.,LTD

IKUTA Manufacturing Equipment Corporation

Founded : 1st April 1953

Capitalized at : ¥20,000,000-

President and CEO Director : Yasuhiro Ikuta

Employee : 81 employees (as of in 2022 May.)

Engineering 25

Manufacture 32

Sales and other 24

< Head Office >

Add: 6 Tsujido-cho Shimomisu Fushimi-ku Kyoto Japan

Postcode: 612-8241

Tel: [81] (75) 611-4347 Fax: [81] (75) 622-4391

<Tokyo Satellite Office>

Add: 4-2-11 Nishi Rokugou Tokyo

Postcode: 144-0056

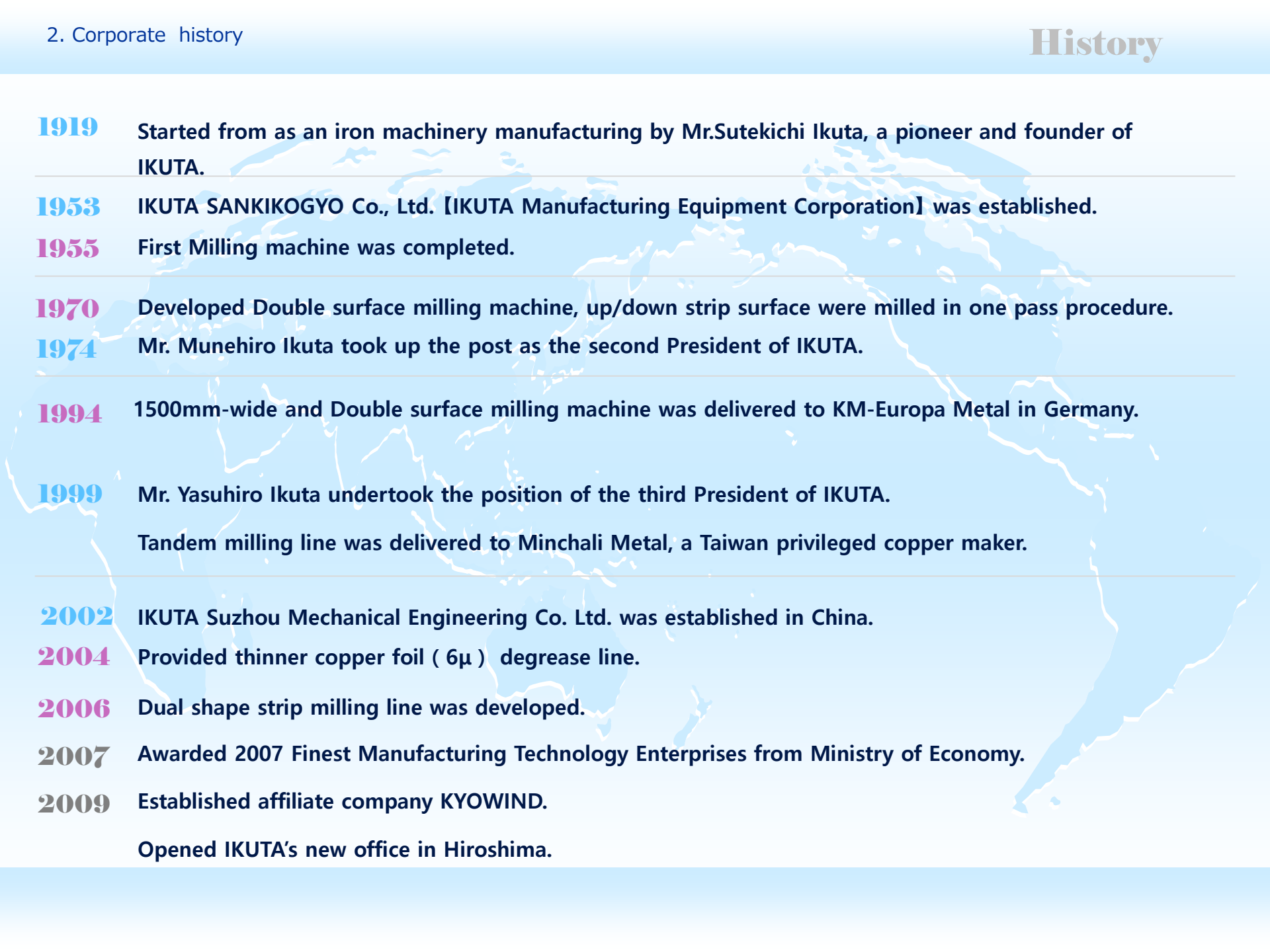
Tel:[81] (3) 3739 5519 Fax: :[81] (3) 3739 5616

Our Business

- Design and manufacturing of metal production equipment.
- Design and manufacturing of design automation equipment.
- Design and manufacturing of R&D equipment.
- Industrial software development
- Removal, relocation, installation, and modification of various types of equipment
- Overhauling of various equipment.
(Compatible with equipment manufactured by other manufacturers)
- Japan-China trade, Sales of products in China.
- Co-ordination and business support.

Main products

- Up and down surface milling machine
- CNC Milling Cutter grinder
- Plating line
- Degreasing and pickling buffing line
- Degreasing and cleaning line for foil
- Tension Leveler
- Slitter line
- Leveler shear line
- Carbide milling cutters
- Levelers for press equipment
- Sheet leveler
- Design and manufacture of industrial machinery and metal related manufacturing equipment
- Remote monitoring system, METIS-i

- 
- 1919** Started from as an iron machinery manufacturing by Mr.Sutekichi Ikuta, a pioneer and founder of IKUTA.
-
- 1953** IKUTA SANKIKOGYO Co., Ltd. [IKUTA Manufacturing Equipment Corporation] was established.
- 1955** First Milling machine was completed.
-
- 1970** Developed Double surface milling machine, up/down strip surface were milled in one pass procedure.
- 1974** Mr. Munehiro Ikuta took up the post as the second President of IKUTA.
-
- 1994** 1500mm-wide and Double surface milling machine was delivered to KM-Europa Metal in Germany.
- 1999** Mr. Yasuhiro Ikuta undertook the position of the third President of IKUTA.
Tandem milling line was delivered to Minchali Metal, a Taiwan privileged copper maker.
-
- 2002** IKUTA Suzhou Mechanical Engineering Co. Ltd. was established in China.
- 2004** Provided thinner copper foil (6 μ) degrease line.
- 2006** Dual shape strip milling line was developed.
- 2007** Awarded 2007 Finest Manufacturing Technology Enterprises from Ministry of Economy.
- 2009** Established affiliate company KYOWIND.
Opened IKUTA's new office in Hiroshima.

2011 Head office building was renewed.

2012 SEIWA Suzhou Engineering Co.Ltd.

Delivered vertical pass Tin-plating lines to some of the copper makers.

2013 Delivered the newest milling machines to JX Nippon Mining Metals Corporation.

Established corporation with TOTO Engineering Co. Ltd.

2014 Delivered the Multi – layers strip line to a national poly – material maker in Germany.

Participated in an exhibition of Euro BLECH 2014 in Hannover Germany.

2015 Established IKUTA MAKINE A.S. (IKUTA Machinery Inc.) which is located in Istanbul Turkey.

2017 Integrated IKUTA business operation with TOTO Engineering Co., Ltd. and start as IKUTA Tokyo office.

2020 101st Anniversary

2021 Establishment Shofuku Co.,LTD

In 2002, **IKUTA** established 100% subsidiaries in Suzhou China. They consistently manages the designing, assembling, processing and sales trade under the guidance of Japanese staff and contribute a high quality and low-costs of equipments to the customers.

IKUTA Suzhou Mechanical Engineering Co.,Ltd.

Building D.46 Chunxing Road, Caohu Street, XiangCheng
Economic & Technological Development Zone, Suzhou City, Jiangsu Province, 215144 China
TEL : 86-512-69362025
FAX : 86-512-69362018

Chairman Yasuhiro Ikuta
President and CEO, Director Isamu Kanai

Main business : manufacturing machine parts, assembly and other manufacturing consignment, according to client's requirement.
Main facilities : NC, regular lathes and other machines such as press, welding and etc.



SUZHOU Ikuta Trading Co.,Ltd

Jingu-road 68, Industrial Park, Suzhou, 215006 China
TEL : 86-512-69562609
FAX : 86-512-69562610

Legal Representative : Isamu Kanai

Main business : importing Japan-made manufacturing product , sales in China and exporting China-made product.

SEIWA Suzhou Engineering Co.,Ltd.

Building D.46 Chunxing Road, Caohu Street, XiangCheng
Economic & Technological Development Zone, Suzhou
City, Jiangsu Province, 215144 China

TEL : 86-512-69360322

FAX : 86-512-69360325

Chairman : Masaya Ikuta

CEO Director : Isamu Kanai

Main business : shear-cut, vessel, welding and machining with a 5 faces machining (Mitsubishi Heavy Industry)

In 2015 **IKUTA** establish a new company in Istanbul Turkey, named as "**IKUTA MAKINE A.S. (Ikuta Machinery Inc.)**", the third branch following Japan and China. They work mainly on sales, manufacturing and maintenance, in addition to business expanding to many countries in Europe or Middle-East, even to Africa where the market is relatively new.

IKUTA MAKINE A.S. (Ikuta Machinery Inc.)

IKUTA

President and CEO, Director : Mr. Daisuke Kitamura

Established: 2015 October

Capitalized at: ¥ 50,000,000 (full ownership of capital)

Add: Huzur Mah. Faith Cad. No67/17 Sariyer, Istanbul, Turkey

Tel: [81] 90 1156 4348

URL: <http://www.ikutamakine.com>

Main Business

- Sales, Manufacturing and Regrinding of scalping cutter
- Manufacturing machine parts, assembly and other manufacturing consignment, according to client's requirement
- Design and Manufacturing, CMS, Maintenance of industrial equipment
- Sales of IKUTA group products
- Sales and Trade operation of other merchandise



IKUTA established **Kyowind Co., Ltd.** in 2009 to expand its import/export business. **Kyowind** procures commercial materials from overseas, sells Japanese products overseas, supports companies entering the Chinese market, and accepts delegations of Chinese executives for business inspections. We create new value through the exchange of people and information as well as products.



Kyowind Co., Ltd.

〒612-8241 Kyoto city, Fushimi Dist.,
tsujido-cho shimomisu, Plot No. 6
(Inside Ikuta Head office)

TEL : 075-611- 4347

FAX : 075- 622- 4391

Representative : Yasuhiro Ikuta

Established on January 30, 2009

Capital: ¥10,000,000-

URL: <http://kyowind.com/index.html>

Corporate Information

- Trading business
- Chinese ↔ Japanese interpretation and translation service
- Hosting and management service for delegation from China
 - Inspection tours of china, Co-ordination of product sales, support for Japanese companies entering Chinese market.
- Development of commercial products
 - Sales of traditional Japanese crafts in China in collaboration with our Chinese partners, Suzhou Ikoda trading company.



Shofuku .Co.,Ltd

●Main business

- Design, manufacture and sales of automatic noodles boiling machine with cooling.
- Sales of Semi-automatic noodles rolling machine
- Design, manufacturing and sales of parts related to above

Shofuku .co., Ltd was established in 2021 as a subsidiary of **IKUTA** group. Although we are relatively new in the business, we are able to meet customers needs with quick response and reliable technology.



〒612-8241 Kyoto city, Fushimi Dist., Tsujido-cho Shimomisu, Plot No. 6 (Inside Ikuta Head office)

TEL:090-2569-0690

FAX:075-622-4391

Representative : President Yasuhiro Ikuta

President Morihiro Fukusumi

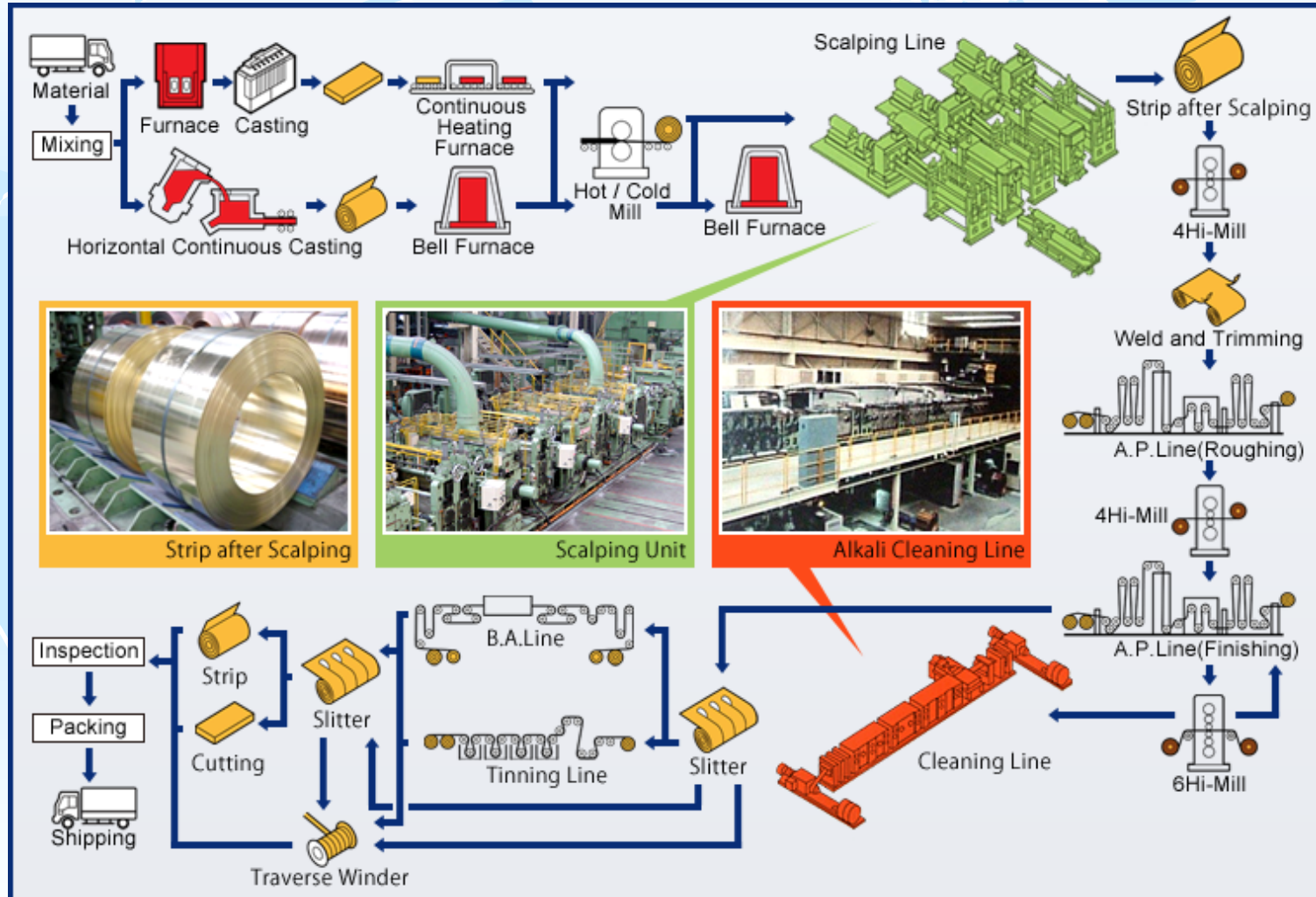
Capital : ￥20,000,000 -

Established on May 30, 2021





Here is a common rough flow chart of manufacturing process for a copper strip. The actual process in every rolling maker might be slightly different according to the needs.



Milling Line

Milling line is used to remove oxidized layer on a copper strip surface occurred in process of upstream casting or hot-rolling. **IKUTA** plays an important role with a high precision and a high surface finish. **IKUTA** obtains 90% share of Milling line in Japan and also 80% in Asia.



Milling Line Layout

- Un-coiler
- Roller leveler
- Inlet shear
- Edge milling
- Feed roll
- Cutter stand
- Cutter exchange machine
- Thickness measuring control system (Option)
- Edge cutting
- Brushing machine
- Bending roll
- Tension reel
- Coil binding machine

Three in One Milling Technology

In copper rolling process, it is indispensable to have a milling (scalping) section after casting upstream. **IKUTA** is known as the most famous maker and the unique manufacturer in designing of milling machines, milling cutters, and cutter grinders. These three technologies are combined together in one machine and termed as “Three in One Milling Technology” .

1. Milling Machine

A Milling machine is one of IKUTA' s main product, which is used to remove oxidized layer or impurity on the copper surface occurred while upstream casting or hot-rolling process. Inside the machine, a rotating cutter is mounted to grind the surface of the material with high speed.



2. Brazed Cutter Carbide Blade (tips)

Cutter blades are composed of carbide alloy with a high frequency welding on cutter body. The blades make a fine finish on strip surface and has a prolonged life span.

It is well-known that carbide is much stronger in strength and hardness than high-speed steel but weaker in toughness. To increase the toughness a power micro-alloy technique is applied. For additional precision, PVD coating technology is also involved in making the cutters.



3. Six axis Control CNC cutter grinder

6 axis CNC control can set up the optimal grinding method. It supports high precision grinding with the functional and rigid high structure.

Grinding Process

- Relieving
- Cylindrical
- Rake
- Body

Control Specification

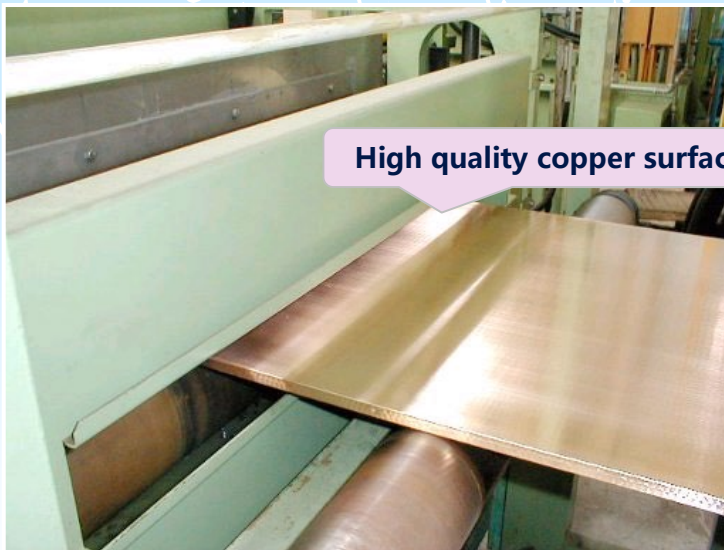
- | | |
|----------------------------|--------------------------|
| ■ X - longitudinal slide | ■ A - work-piece index |
| ■ Z - wheel cross slide | ■ B - grindstone turning |
| ■ Y - wheel vertical slide | ■ C - grindstone tilting |



IKUTA's Total Power Service

Advantage of three in One Milling Technology is that we know much about their relation among three products. If a problem occurs in any of the three stages, by inspecting the products rationally, we can find the problem conveniently by many years of our experience and considerable study.

IKUTA contributes all together to our customers to meet their demands.



Degreasing-Pickling-Buffering Line & Grinding-Stone Buffering Line

Along with milling technology, IKUTA possess a high reputation for the Degreasing-Pickling- Buffering line.

From Un-coiler, cleaning, Re-coiler, and up to ACC ancillary equipment, it can be produced all together. We produce a high precision buffering machine, with the high quality shaft, shaft-bearing and hard stand to minimize vibration.

Buffing Machine

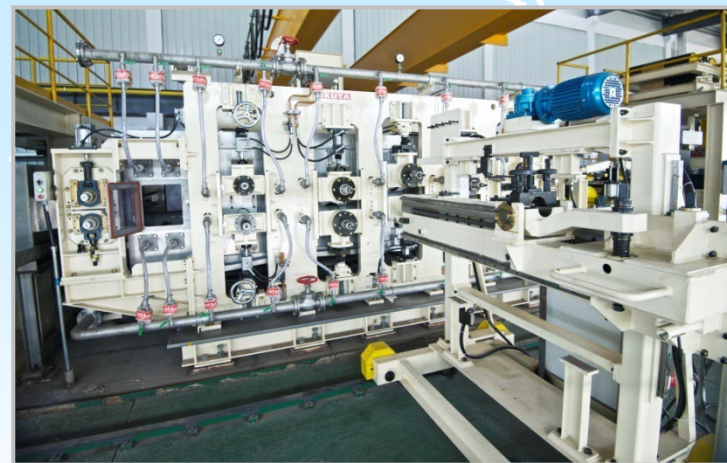
Buffing machine is not only used to remove oxide scale after annealing-pickling line or finish process, but also used for coil material and sheet strip.

There are 2 types of Buff support, one is cantilevered and another is both ends support. Both are very easy for exchange.

The work piece surface will vary greatly depending on grindstone selection, through plate speed, rotation.



Degreasing-Pickling-line



Buffing Machine

Tension Leveler Line

Tension leveler can process up to even 50-micron thick strip material, and eliminate shape defects, curvature and camber.

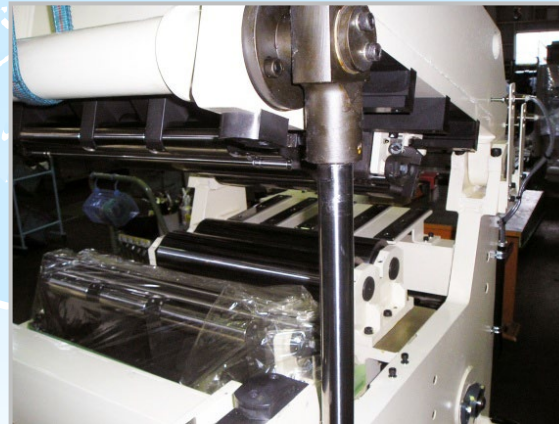
IKUTA has Multi-roll stand and also elongation stand in one leveling line. Since all the products have made in own workshop from parts to assembly, the custom-made line can be built just to fit the customer's manufacturing environment and their final products.



Tension Leveler Line

Tension Leveler Line Lay-out

- Entry coil car
- Pay off reel
- Entry deflect roll
- Cleaning device
- Entry bridle roll
- Multiple roller leveler
- Exit bridle roll
- Inspection table
- Exit deflect roll
- Re-coiler
- Exit coil car



Extension-Leveler



Multi-Leveler

Tin plating Line

Tin plating of copper and copper alloy are used in a variety of applications including the electrical components for automobiles. Moreover, **IKUTA** will realize your various needs and criteria such as pass method, base material, reflow, etc.



Tin-Plating Line



Cu substrate & Tin coating

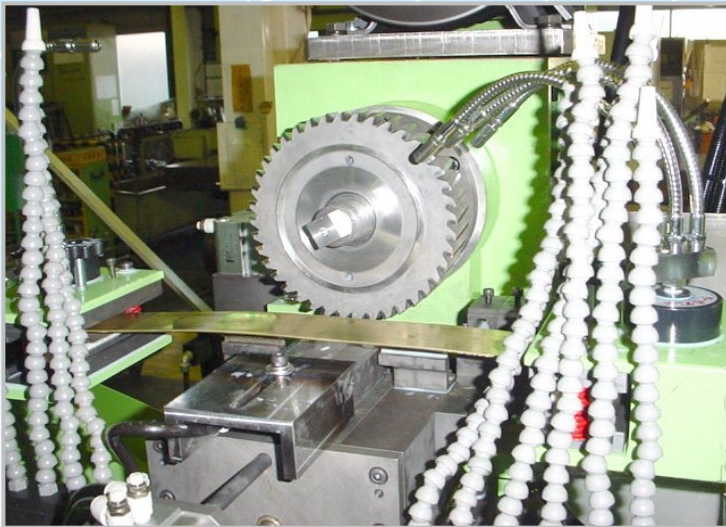
Dual Gauge Milling, Pickling-Buffing, & Leveler Line

Dual gauge material is used in electronic industry for application such as terminal parts and LED technology. As there are many different types of it and has a variable condition, milling method has an important role to play. This unique demand is satisfied by advanced rolling dual gauge strip manufacturing.

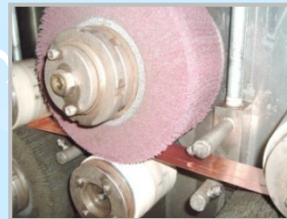
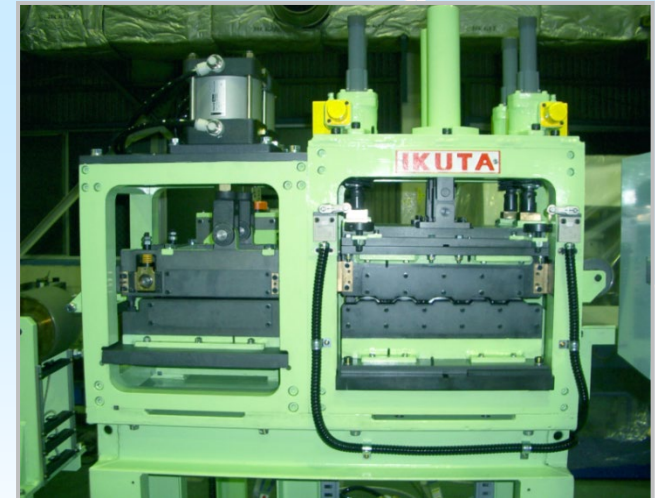
Here are our Dual gauge milling line, Dual gauge pickling-buffing line and Dual gauge leveler line.



Dual Strip Milling Line



Dual gauge milling line

Dual gauge
pickling- buffing line

Dual gauge leveler line

Leveler for the sheet material

IKUTA has designed and manufactured the Leveler for a various material of sheets and plates(strips). We have a dedicated test equipment in-house, which can easily carry out the test on a sample and confirm roll diameter and its numbers which are optimized for your specification. Please consult us if you have any specific requirements.



Test Leveler in-house

Test leveler in-house

Roll specification

- $\Phi 20$ up : 7 down : 8
- $\Phi 36$ up : 6 down : 7
- $\Phi 50$ up : 5 down : 6

Corresponding material : Various material

Corresponding strip width : MAX 420mm

Corresponding strip thickness
: Depending on the material



For copper plates

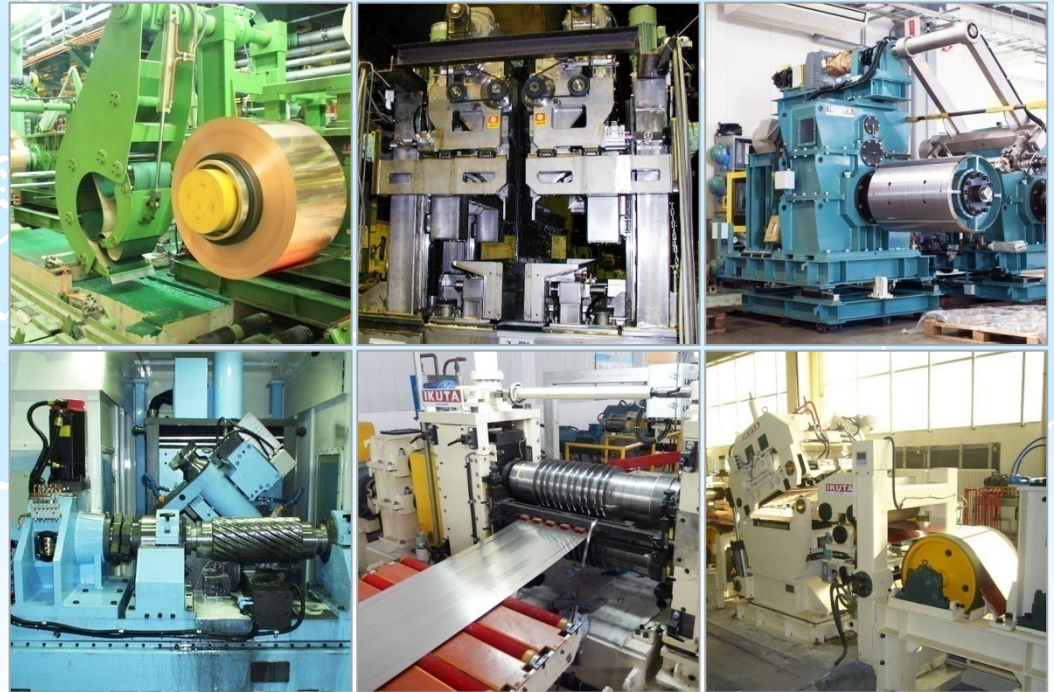


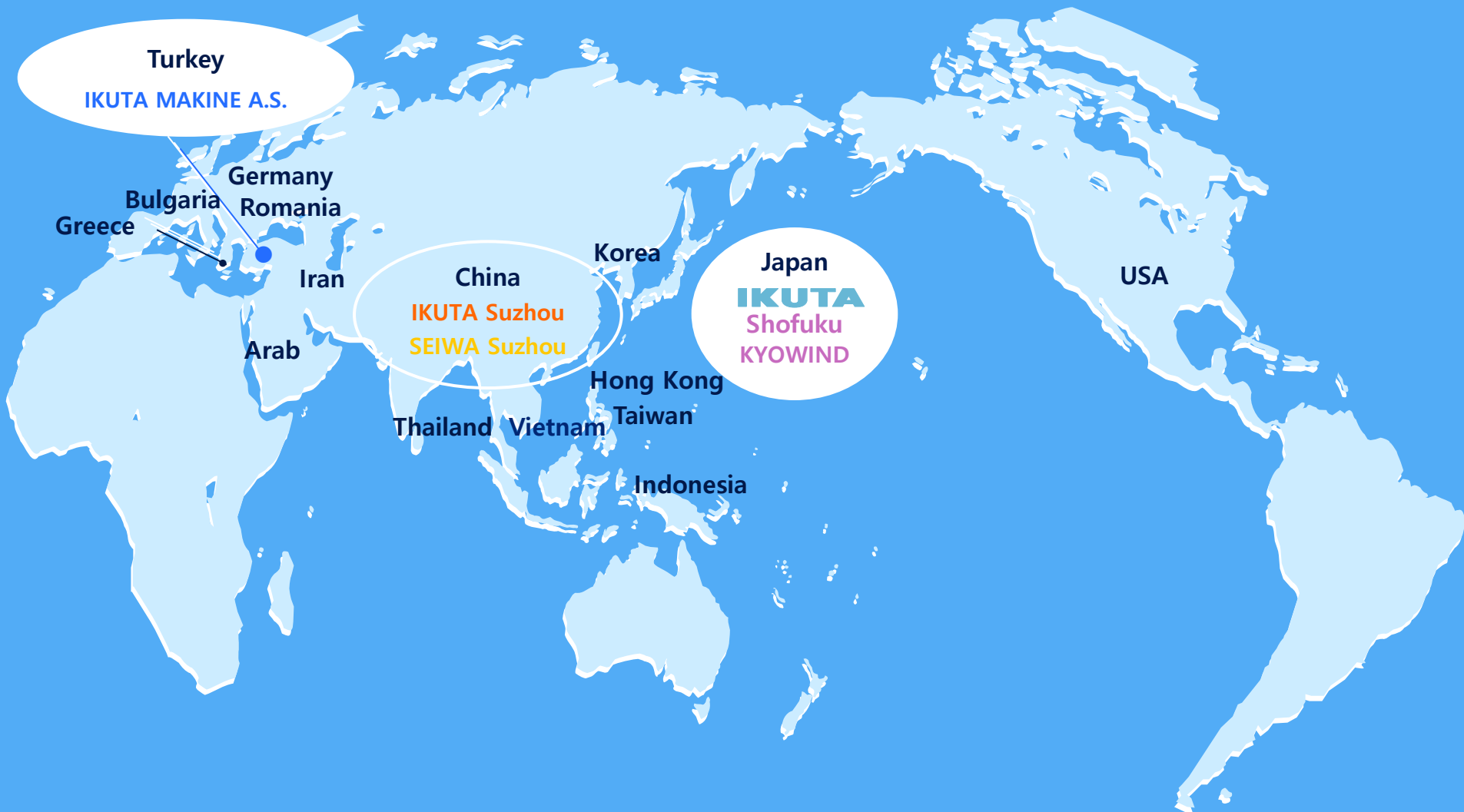
For magnesium sheet

Expanding our business from copper rolling to synthesize realm

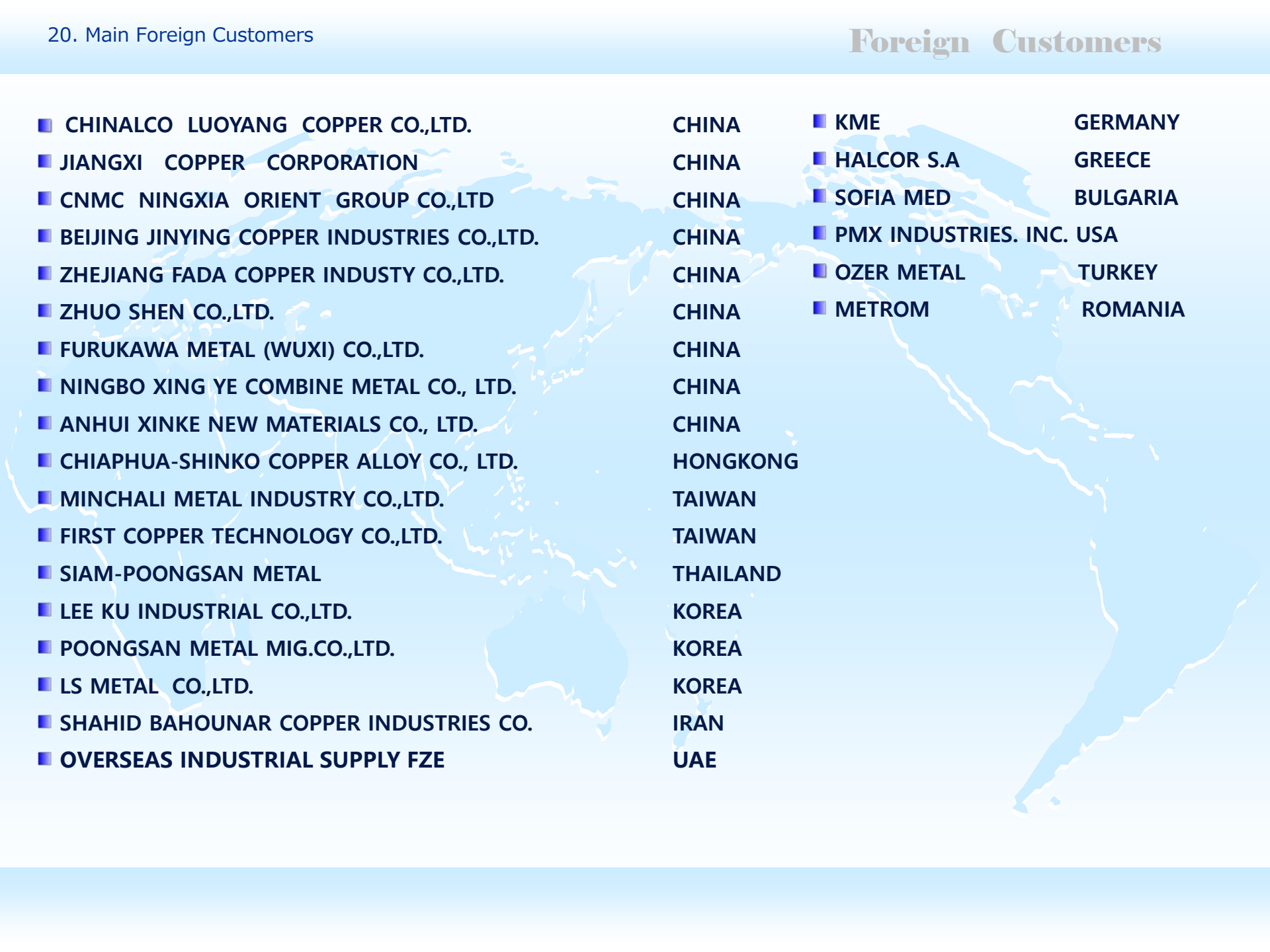
IKUTA has developed a great variety of high level equipments to contribute to the copper strip rolling world. Our business is not constrained only in that field, as it is consistently spreading in other areas as well. A lot of know-how and a considerable experience have been obtained as a solid foundation for it. Nowadays, our machines are applied to wiring, rod manufacturing and on variety of different materials such as steel, stainless-steel, synthesize and so on. We will provide our technology to meet your demand and satisfaction.

- Milling Line
- Tungsten Carbide Milling Cutter
- CNC Cutter Grinder
- Dual Gauge Milling Line
- Dual Gauge Pickling Polishing Line
- Alkali Cleaning Line
- Pickling Line
- Tension Leveler Line
- Slitter Line
- Trimming Line
- Coil Build Up Line
- Tin Plating Line
- Polishing Machine
- Entry and Exit Section Equipment
- Auxiliary Equipment





- 
- JAPAN MINT HIROSHIMA BRANCH
 - S H COPPER PRODUCTS CO.,LTD.
 - JX NIPPON OIL & ENERGY CORPORATION
 - JX NIPPON MINING & METALS CO.,LTD.
 - KOBE STEEL LTD.
 - DOWA METAL CO.,LTD.
 - DOWA METANIX CO.,LTD.
 - SUMITOMO ELECTRIC INDUSTRIES LTD.
 - MITSUI SUMITOMO METAL MINING BRASS&COPPER CO.,LTD.
 - MITSUBISHI SHINDO CO.,LTD
 - MITSUBISHI MATERIAL CO.,LTD.
 - MITANI COPPER ALLOY CO.,LTD.
 - MITSUI MINING SMELTING CO.,LTD
 - THE FURUKAWA ELECTRIC CO.,LTD.
 - FURUKAWA TECHNO MATERIAL CO.,LTD.
 - NIPPON STEEL & SUMIKIN METAL PRODUCT CO.,LTD.
 - NIPPON KINZOKU CO.,LTD
 - GONDA METAL INDUSTRY CO.,LTD.
 - KIYOMINE METAL INDUSTRY CO.,LTD.
 - MITSUBISHI PLASTICS, INC.
 - SUNSTAR ENGINEERING INC.
 - SANSHO CO.,LTD.
 - ACE21 CO.,LTD.
 - JFE STEEL CORPORATION
 - DAIDO STEEL CO.,LTD.
 - NGK INSULATORS ,LTD.
 - HARADA METAL INDUSTRY CO.,LTD.
 - AICHI STEEL CORPORATION
 - UJI COPPER & ALLOY CO.,LTD.
 - SHOWA PRECISION STEEL CO.,LTD.
 - HITACHI ALLOY CO.,LTD.
 - HITACHI METALS ,LTD.
 - UNITIKA ,LTD.



- CHINALCO LUOYANG COPPER CO.,LTD.
- JIANGXI COPPER CORPORATION
- CNMC NINGXIA ORIENT GROUP CO.,LTD
- BEIJING JINYING COPPER INDUSTRIES CO.,LTD.
- ZHEJIANG FADA COPPER INDUSTRY CO.,LTD.
- ZHUO SHEN CO.,LTD.
- FURUKAWA METAL (WUXI) CO.,LTD.
- NINGBO XING YE COMBINE METAL CO., LTD.
- ANHUI XINKE NEW MATERIALS CO., LTD.
- CHIAPHUA-SHINKO COPPER ALLOY CO., LTD.
- MINCHALI METAL INDUSTRY CO.,LTD.
- FIRST COPPER TECHNOLOGY CO.,LTD.
- SIAM-POONGSAN METAL
- LEE KU INDUSTRIAL CO.,LTD.
- POONGSAN METAL MIG.CO.,LTD.
- LS METAL CO.,LTD.
- SHAHID BAHOUNAR COPPER INDUSTRIES CO.
- OVERSEAS INDUSTRIAL SUPPLY FZE

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THAILAND
KOREA
KOREA
KOREA
IRAN
UAE

■ KME
■ HALCOR S.A
■ SOFIA MED
■ PMX INDUSTRIES. INC. USA
■ OZER METAL
■ METROM

GERMANY
GREECE
BULGARIA
USA
TURKEY
ROMANIA

For design and developement

Linux server 1set
Windows server 1set
CAD system 10set
3D cad system 1set
PC for calculating and other purpose 30set
PC for programming 5set
Debugging tool 5set
Signal analyzer 1set

For manufacturing

- Multi function lathe INTEGREX50 MAZAK
φ300 (φ700) ×2500 1set
- Multi function lathe INTEGREX300IV MAZAK
φ165 (φ660) ×1500 1set
- Horizontal milling machine TOSHIBA MACHINERY
- Main shaft 130X1/110X2XATC/100X1 3 set
- Machining center 1set
- Lathes 3set
- Vertical milling machines 1set
- Surface grinder 1set
- Cylinder grinder 1set
- Welders 3set



IKUTA's site in-house



IKUTA

Manufacturing Equipment Corporation

2022/October