Since our development of the very first slitter rewinder in Japan in 1946, we, NISHIMURA MANUFACTURING COMPANY, have been dedicating ourselves to advancing slitting and rewinding technology to support the manufacturing and converting industries around the world.

The brand of “NS SLITTER” is characterized by its specialized models for individual types of materials and now well known as high-quality and high-performance slitter rewinders with the top-class share in Japan. What makes this happen are as follows: the technology acquired in the long history, the expertise from designers accounting for one-third of our staff, the capacity to manage the whole process from design, machine assembly to after-sales service, and the capacity to manufacture from small to large-scale machinery.

Thanks to the reliability led by our achievements so far, many customers of different industries come to consult us about slitting solutions as they develop new materials. We will continue committing ourselves to advance of our slitting and rewinding technologies to contribute to technical innovations pioneering the future of individual industry segments.

Absolute Technology for Your Expectations

Support the World Through Slitter Rewinders
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Ever since the foundation, NISHIMURA has been consistently committing to the policy that says we design and manufacture excellent machinery that fulfills our customers’ requests; dealing with every type of material and enhancing every production process and service from design, manufacturing to maintenance achieve our high-quality products and services.

What We Can Do

Genuine Quality That NISHIMURA Professionals Create

Ever since the foundation, NISHIMURA has been consistently committing to the policy that says we design and manufacture excellent machinery that fulfills our customers’ requests; dealing with every type of material and enhancing every production process and service from design, manufacturing to maintenance achieve our high-quality products and services.

Technical Capabilities
Over 10,000 unit sales to more than 50 countries and regions in the 60-year history achieved. We embody our customers’ ideas by taking advantage of the expertise from designers (one-third of the staff population) and our technology and knowledge gained in the long history. Assigning a mechanical designer and an electrical system designer to individual orders for manufacturing slitter rewinders, we can give a quick response to our customers’ inquiries.

Responsiveness
We have the after-sales service teams both in the headquarters and Tokyo branch office, covering our domestic and overseas customers. Thanks to all the drawings completely in custody since the foundation, we can provide repairing, improvement, and renewal services. This is reflected by the fact that many of our customers have been using our products for as long as three or four decades.

Development Capabilities
We always have been making every effort to develop and advance technology to meet needs changing with the times. We have two machines in the testing room, where you can have slitting tests on your materials including newly developed ones. We work on evaluation tests of slitting and rewinding performance until our customers are satisfied and propose optimum slitting solutions.

Productivity
We have three machine assembly plants in the headquarters and in Uji City, Kyoto, we have another machine assembly plant as well as one parts machining plant where we produce large-scale machine frames and rollers. Self-managing all processes from machine assembly, cabling to operation check, we produce machinery in different sizes ranging from small-scale slitter rewinders for narrow widths slitting to large-scale ones for materials of as wide as 8 meters.

4 Key Factors
Supporting NS SLITTER
Ever since the foundation, NISHIMURA has been consistently committing to the policy that says we design and manufacture excellent machinery that fulfills our customers’ requests; dealing with every type of material and enhancing every production process and service from design, manufacturing to maintenance achieve our high-quality products and services.

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**4 Key Factors**

**Supporting NS SLITTER**
A slitter rewinder is a roll-to-roll machine that unwinds a roll of a long sheet, slits it into strips of a particular width and rewinds them into rolls in a continuous action. Its fundamental structure consists of unwinder, guide roller, cutter, and rewinder. In the slitting and rewinding processes, optimum slitting conditions and balanced tension between the unwinder and rewinder play the most critical role. Applying a slitting method and tension control fitted to characteristics of each type of material achieves high-quality cut surfaces and rewind packages.

**What is Slitter Rewinder?**

A slitter rewinder is a roll-to-roll machine that unwinds a roll of a long sheet, slits it into strips of a particular width and rewinds them into rolls in a continuous action. Its fundamental structure consists of unwinder, guide roller, cutter, and rewinder. In the slitting and rewinding processes, optimum slitting conditions and balanced tension between the unwinder and rewinder play the most critical role. Applying a slitting method and tension control fitted to characteristics of each type of material achieves high-quality cut surfaces and rewind packages.

**Basic Structure**

- Unwinder (parent roll)
- Cutter (knife)
- Guide roller
- Rewinder (finished roll)

**Applications of Slit Rolls**

- Plastic wrapping film
- Diaper
  (back sheet film, stretch tape)
- Drink carton
- Food packaging
- Aluminum foil
- Self-adhesive tape
- Electronic components
  (capacitor, flexible printed circuit)
- Television
  (display film)
- Medical mask, Hygiene products, Filter
  (non-woven fabrics)
- Thermal receipt paper
- Label, Tag
- Smartphone, Tablet
  (display film, Li-ion battery)
- Electric vehicle
  (Li-ion battery)
- Aircraft, sporting goods
  (carbon primer)
- Pharmaceutical packaging
  (plastic film, medicine wrapper)
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**Basic Structure**

- **Unwinder (parent roll)**
- **Cutter (knife)**
- **Guide roller**
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**Applications of Slit Rolls**

- Plastic wrapping film
- Diaper (back sheet film, stretch tape)
- Drink carton
- Food packaging
- Aluminium foil
- Self-adhesive tape
- Electronic components (capacitor, flexible printed circuit)
- Television (display film)
- Medical mask, hygiene products, Filter (non-woven fabric)
- Thermal receipt paper
- Label, Tag
- Smartphones, Tablet (display film, Li-ion battery)
- Electric vehicle (Li-ion battery)
- Aircraft, printing media (carbon printing)
- Pharmaceutical packaging (plastic sheet, medical wrapper)
According to types of applications such as industry, lithium-ion battery (LIB), optics and packaging as well as film sizes, we offer optimum solutions from primary to secondary/tertiary slitter rewinders. Our mechanical design tailored to film characteristics enables high quality finished rolls by stable web path and highly precise tension control and contact force control.

For Films

Model FN405E
- Duplex rewinding, Touch rollers tracking in arc, Product unloader
- Material: Packaging films, medical and hygiene films, optical films, electrical films

Model FH105E
- Duplex rewinding, Linear tracking rewind stations
- Material: Medical and hygiene films, optical films, electrical films

Model FQ523B
- Primary, Shaft-less rewinding, Linear tracking rewind stations
- Material: Medical and hygiene films, optical films, electrical films

Model FZ723B
- Primary, Hanging type rewind arms, Shaft-less rewinding, Automatic knife/rewind arm positioning
- Material: Packaging films, medical and hygiene films, optical films, electrical films

Model TH513J
- Individual rewind arms
- Material: Metallized capacitor films, battery separator films
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Primary | Hanging type rewind arms | Shaft-less rewinding | Automatic knife/rewind arm positioning
Material: Packaging films, medical and hygiene films, optical films, electrical films

Model TH513J
Individual rewind arms
Material: Metallized capacitor films, battery separator films
Our paper slitter rewinders have a long history where the designs have been customized to individual paper industry segments’ needs such as large diameter rewinding for paper manufacturers, high-speed, small diameter rewinding for thermal receipt papers, and multiple-slitting for label stock. Types of material to process include wood-free papers, thermal papers, pressure-sensitive papers, inkjet papers, siliconized papers, glassine papers, and self-adhesive papers.

We also provide solutions for nonwoven fabrics made of glass fiber, resin, or cotton used in the applications of filters, separators, medical and hygiene products, and clothing labels. We offer mechanical designs tailored to material characteristics such as stretchiness and winding density.
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For Nonferrous Metal Foils

We have a diverse lineup of models for thin nonferrous metal materials such as aluminum foils, battery electrodes, FCCL and copper foils. Our slitter rewinders for the electrolytic capacitor aluminum foil application, in particular, mark the best sales performance throughout the industry. We realize sophisticated slitting quality through optimum slitting methods fitted to material characteristics and also offer solutions including multiple-slitting, half-slit, and edge trimming.
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Model TH144A
Duplex rewinding | Differential drive | Bottom knife and web surface cleaners
Material: Aluminum foils (e.g. electrolytic capacitor aluminum foils, EDLC)

Model TD183J
Narrow width slitting | Multiple rewind shafts
Material: Aluminum foils

Model TG194C
Special shear cutting
Material: Electrolytic copper foils, rolled copper foils

Model TG124E
Special shear cutting
Material: Battery electrodes (cathode & anode), EDLC, CCL, FCCL

Model TD16S
Narrow width slitting | Cantilevered
Material: Aluminum foils (e.g. electrolytic capacitor aluminum foils)
Taking advantage of the experiences and achievements gained so far from the broad fields, we also can offer solutions for other particular slitting and rewinding purposes: inspection rewinders, traverse winders, film take-up winders, sheet cutters, inline cutters, and paper core cutters.

For Others

Model WA137A
Inspection rewinder with cameras
Material: Packaging films, medical and hygiene films

Model KL110N + WT021A
Narrow width slitting | Traverse winder
Material: Electrical insulation papers, electrical insulation films, ACF, carbon prepregs

Model WA193A
Inspection rewinder with cameras
Material: Optical films

Model CV105A + WA192A
Film take-up winder
Material: Battery separator films

Model CV104A + WA191A
Film take-up winder
Material: Packaging films, medical and hygiene films, electrical films
Taking advantage of the experiences and achievements gained so far from the broad fields, we also can offer solutions for other particular slitting and rewinding purposes: inspection rewinders, traverse winders, film take-up winders, sheet cutters, inline cutters, and paper core cutters.

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Material: Optical films

Model CV105A + WA192A
Film take-up winder
Material: Battery separator films

Model CV104A + WA191A
Film take-up winder
Material: Packaging films, medical and hygiene films, electrical films
Growing with Technological Development

Being Essential All Through the Times and Contributing to Society

Our persistent efforts to develop new technologies to satisfy needs that vary with social changes have created NISHIMURA’s history. Our products, whose demand changes with the times, take the essential role all the time in supporting society.

NISHIMURA MANUFACTURING COMPANY founded in Kyoto as a machine repairing and parts machining shop

1946

1953
- Started development of a prototype of a slitter rewinder
- Developed the first Japanese slitter rewinder
- Launched T Series for papers and DI Series for electrical insulation papers

1954
- Relocated the main office to Sakyō-ku, Kyoto City

1956
- Participated in the Tokyo International Trade Fair

1957
- Relocated the main office to Sakyō-ku, Kyoto City
- Renovated the Tokyo sales office
- Launched the Tokyo sales office

1959
- Participated in the Tokyo International Trade Fair

1961
- Constructed the Jujo factory (the current main factory) in Minami-ku, Kyoto City
- Established the Tokyo sales office
- Established the Tokyo service center (the current Service Division of Tokyo branch office)
- Launched the Tokyo service center

1965
- Established the Tokyo service center (the current Service Division of Tokyo branch office)
- Constructed the third main factory for machine assembly
- Established the Tokyo service center

1969
- Received the Export Contribution Company Award of the Year 1970
- Reorganized the Tokyo sales office as Tokyo branch office
- Received the Export Contribution Company Award of the Year 1970

1970
- Launched AP Series and AM Series for photographic papers
- Launched FK Series for plastic films
- Launched AP Series and AM Series for photographic papers

1971
- Received the Export Contribution Company Award of the Year 1971
- Participated in the Tokyo International Trade Fair
- Established the Tokyo service center (the current Service Division of Tokyo branch office)

1973
- Established the Tokyo service center (the current Service Division of Tokyo branch office)
- Reorganized the Tokyo sales office
- Established the Tokyo service center (the current Service Division of Tokyo branch office)

1978
- Took over the subsidiary corporation NISHIMURA ENKO Co., Ltd. and converted into the Uji factory

1983
- Constructed the fourth main factory containing a machine assembly floor and offices of the Engineering Department, Electrical System Department and Manufacturing Department

1986
Growing with **Technological Development**

**Being Essential All Through the Times and Contributing to Society**

Our persistent efforts to develop new technologies to satisfy needs that vary with social changes have created NISHIMURA’s history. Our products, whose demand changes with the times, take the essential role all the time in supporting society.

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1946
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- Established the Tokyo sales office
- Launched T Series for papers and D Series for electrical insulation papers
- Launched TC Series versatile models for papers or films

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1969
- Launched AP Series and AM Series for photo-sensitive papers
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- Established the Tokyo service center (the current Service Division of Tokyo branch office)
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1971
- Received the Export Contribution Company Award of the Year 1971

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- Established the Tokyo service center (the current Service Division of Tokyo branch office)
- Developed the first Japanese slitter rewinder
- Launched T Series for papers and D Series for electrical insulation papers
- Launched FK Series for plastic films
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- Received the Export Contribution Company Award of the Year 1971

1978
- Took over the subsidiary corporation NISHIMURA ENKO Co., Ltd. and converted it into the Uji factory
- Launched FT Series and UR Series for magnetic tapes
- Launched AP Series and AM Series for photo-sensitive papers
- Launched FK Series for plastic films
- Reorganized the Tokyo sales office as Tokyo branch office
- Received the Export Contribution Company Award of the Year 1971

1983
- Constructed the fourth main factory containing a machine assembly floor and offices of the Engineering Department, Electrical System Department and Manufacturing Department

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Panorama view of the main office and factory

Designers of those days
- Launched FZ Series for a wide film in 1989
- Constructed the Uji second factory for machine assembly in 1998
- Received the Kinki Regional Award of Invention and Innovation of the Year 2004 in 2004
- Launched FZ Series equipped with the hanging type rewind arms for a wide film in 2004
- Received the Kinki Regional Award of Invention and Innovation of the Year 2001 in 2004
- Patented the individual friction type rewind shaft (NS-PX Shaft) in 2002
- Completed renovation of the Uji second factory for machine assembly in 2010
- Launched Model CV+WA take-up winder for battery separator films in 2017
- Completed renovation of the Uji second factory in 2018
- Selected as one of the 70 Unique Companies in Kyoto and Siga Prefectures Shining to the Future by Nikkan Kogyo Shimbun in 2018
- Completed renovation of the main office in 2019

- Model TH500 (102 unit sales)
- Model TQ (29 unit sales)
- Model FQ (35 unit sales)
- Model TG (219 unit sales)
- Model FZ
- Testing room
- Model CV+WA
- Entrance of the main office

* The number of unit sales referred to herein is as of December 2019.
NISHIMURA was founded in 1946 and developed Japan’s first slitter rewinder in 1954. Since then, we have sold over 10,000 units domestically and abroad. For those more than 60 years, we have been taking the role of a reliable slitting solution partner for our customers by striving to develop and advance our technology according to the times and also managing all the production processes by ourselves.

Succeeding the history established in this way, we will push ourselves further to improve our technology and service quality in order that we can reach our 100th anniversary.

Moreover, we will make further progress in the business by creating an employee-friendly workplace and encouraging individual employees to work actively.

Now that more corporate responsibility is required than ever to obtain a sustainable society, we will keep on contributing to the development and maintenance of society.

Heading for the 100th Anniversary with Further Development of Technology

Hisato Nishimura
President

Corporate Profile

Company Name
NISHIMURA MFG. CO., LTD.

Founded
January 1, 1946

Incorporated
April 1, 1957

Representative
Hisato Nishimura, President

Number of Employees
129 (as of April 1, 2019)

Capital
376 million yen

Revenue
6,682 million yen (Fiscal Year 2018)

Business Activities
Designing, manufacturing, sales and maintenance of slitter rewinders and their related devices

 Offices and Factories

Headquarters
21 Minaminawawshiro-cho, Kamitoba, Minami-ku, Kyoto 601-8113, Japan
Phone: +81-75-681-0351
Fax: +81-75-681-4610
E-mail: salesHD@ns-slitter.co.jp

Tokyo Branch Office
Ueno Chuo Bldg. 7F, 6-11-7 Ueno, Taito-ku, Tokyo 110-0005, Japan
Phone: +81-3-5828-3571
Fax: +81-3-5828-3577
E-mail: salesTky@ns-slitter.co.jp

Uji 1st Factory
126 Juichi, Makishima-cho, Uji City, Kyoto 611-0041, Japan
Phone: +81-774-22-5321
Fax: +81-774-22-5319

Uji 2nd Factory
107 Fukemae, Makishima-cho, Uji City, Kyoto 611-0041, Japan
Phone: +81-774-28-2121
Fax: +81-774-28-2165

KES Step 1 certified.

KES stands for Kyoto Environmental management system Standards, which are the standards started from Kyoto where the Kyoto Protocol was concluded.
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