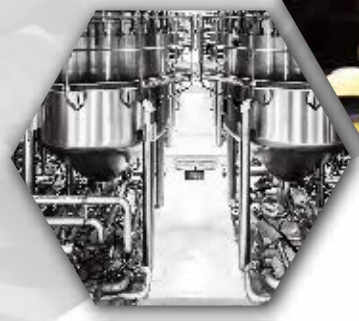
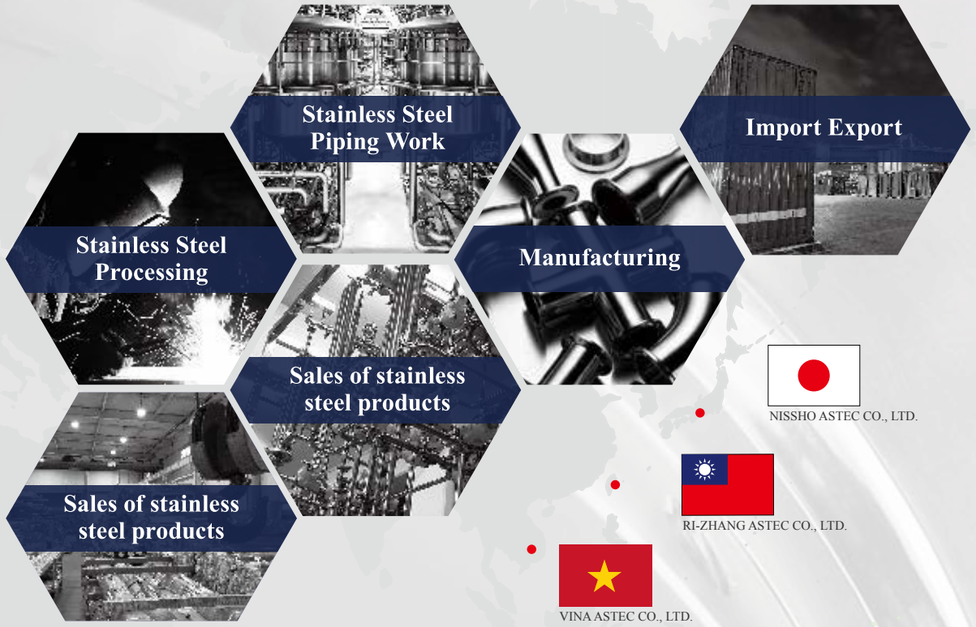


NISSHO ASTEC CO.,LTD.

Business Summary

Integrated production and sales model of stainless steel products in collaboration with domestic and international suppliers and customers



We are and will continuously try our best to become a company that is needed and trusted by society. We will maintain to be a sincerity company with constant innovation in technology.

Since our establishment, our company's development has always been alongside the advancement of stainless steel.

Our distinctiveness is that we not only sell materials or process product parts, but we also analyze customers' needs and take into consideration every customers' order so as to find the most appropriate types of materials and processing phases with the aim to deliver the best products to our beloved customers.

In the future, we will try our best to maintain and improve the quality of our service. At the same time, we, in unison, will push ourselves harder to enhance the trust between us and you.

President Shoichi Sugita

Company Profile

Company Name	NISSHO ASTEC CO., LTD.
Capital	30,000,000 JPY
Establishment	December 1, 1972
Headquarters	562-0035 1-8-16, Semba-Higashi, Minoh City, Osaka Prefecture, Japan TEL: 81-072-730-8581 FAX: 81-072-730-8561
Business Area	Sales of industrial stainless steel products, Treatment/Processing, Surface treatment, Piping construction
Number of patents acquired	4 *Excluding overseas application
Number oftrademark registrations	9 *Excluding overseas application
Transaction banks	Mitsubishi UFJ Bank,Shoko Chukin Bank, Resona Bank, Mizuho Bank
Company qualification	**"Construction Industry Permission"** Piping Construction Permission No./General Permission from Osaka Prefecture Governor No. 135603 **"ISO 9001 Certification"** Applicable standard: ISO 9001:2015/JIS Q 9001:2015 Scope of certification: Design, development, manufacture and sales of stainless steel plumbing products (industrial use and building materials),various metal processing (cutting, milling, bending, welding, pressing, polishing, electropolishing and others) and plumbing assembly (cabinets and plants for gas, pharmaceutical and food industry) Registration number: JICQA 1727 **"KES / Kyoto Environmental management standard Step 2"** Scope of certification: Sales of stainless steel materials in the registered organization and all business sites of the processing industry. Registration number: KES2-0478

List of Branches

Sales Department

Headquaters / Sales Department

562-0035 1-8-16, Semba-Higashi, Minoh City, Osaka Prefecture, Japan

81-072-730-8581
81-072-730-8561
info@nissho-astec.com

Awaji-Shima Sales Office

656-0122 Hirotahirota 17-1, South Awaji City, Hyogo Prefecture, Japan

81-0799-45-1111
81-0799-45-1777

Manufacturing Department

Minoh Factory (CT*)

*Clean Technology

562-0035 1-8-16, Semba-Higashi, Minoh City, Osaka Prefecture, Japan

81-072-730-8581
81-072-730-8563

Meishin Factory

561-0841 1-5-5, Meishinguchi, Toyonaka City, Osaka Prefecture, Japan

81-072-730-8581
81-072-730-8563

Sasayama Factory

669-2513 464 Fukuzumi, Tamba Sasayama City, Hyogo Prefecture, Japan

81-079-557-1255
81-079-557-1266

List of Branches

Neyagawa Factory

572-0077 5-2-20 Shimeno, Neyagawa City, Osaka Prefecture, Japan

81-072-827-5069
81-072-827-4964

Subsidiary Companies

Nissho Metal Industry Co., Ltd

669-2513 728-3 Fukuzumi, Tamba Sasayama City, Hyogo Prefecture, Japan

81-0795-57-0577
81-0795-57-0778

VINA ASTEC CO., LTD. (in Vietnam)

LOT F01B1 F01B2 Center Road, Long Hau IP,Long Hau Commune, Can Giuoc District, Long An Province, 82507, VIETNAM

+84-28-3873-4743
info@vinaastec.vn

RI-ZHANG ASTEC CO., LTD. (in Taiwan)

No. 2, Ln. 151, Ziqiang S. Rd., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)

+886-3-558-6509

Total Service for Stainless Steel Piping

Nissho Astec's piping services with expertise in stainless steel

For approximately half a century since establishment, we have accumulated expertise and processing know-how of stainless steel as a wholesaler and a processing company. And **our stainless steel piping construction total service** is built based on them. We can handle everything from material selection to processing, unit production and installation work, so we can help you in the most effective way in accordance with the situation, delivery time and budget of your project.

Total Service for Stainless Steel Piping

Inventory capacity / procurement ability

We are confident of our stock and high procurement ability of steel pipes and steels that are abundant in quality and quantity, such as sanitary pipes, BA pipes and EP pipes. In addition, we use materials and processing know-how cultivated from 50 years of experience to support customers' material selection process.

Consistent processing

We can perform all the processing necessary for steel pipe processing such as cutting, welding, polishing, and cleaning, and we are capable of producing stainless steel and special steel custom-made products in-house. We provide high quality products with quick delivery.

From material to equipment

We can handle a wide range of processes from material processing to prefab piping and equipment assembly. In order to make room for the tight schedule of the customer, we think that it is best to deliver the finished work as close as possible to the field.

The final process is checked at your site

We do not think that it is the end of the process once we send the works out of our factory. We will be responsible for on-site installation and testing, as well as processing and cleaning that can only be done on-site.

Overseas network capabilities

Our import and export network, which has been cultivated through many years of overseas trading, including overseas subsidiary Vina Astec Co., LTD., will handle a wide range from procurement from piping materials to production of machinery and consumable parts.

Flow of Our Services

Sales of Stainless Steel Products

Aim for being the leader in terms of QCD (product quality, price and delivery)

Customers' needs always change with the times. So does innovation in new materials, new fields, and delivery. In anticipation of them, our company strives every day to catch up with latest trend in needs for certain product, secure stock, and develop procurement routes.

Top of domestic inventory volume of sanitary, BA and EP pipes

Our inventory volume and types of sanitary pipes and fittings used in food and pharmaceutical plants, as well as BA pipes and EP pipes used in high purity gas lines in semiconductors and liquid crystal plants are ranked one of the top class in Japan. Furthermore, we also provide services for various fields, such as for gas, water supply systems, vacuum systems, constraction materials, etc.

Materials and products, which are superior in stable quality and cost competitiveness, from our group's overseas production factory

We not only respond to customized orders but also to mass-production-required orders and repeated orders with products from our group factories overseas which are stable in quality while competitive in cost.

Optimal and reliable delivery

When new equipment is installed or renewed, tight deadline control is required in tight process planning. Delays in delivery or mis-deliveries lead to increase in cost and lost opportunities, while early arrivals can also impair site operability. Our sales staff always strives for optimal and prompt delivery while always considering the customers' schedule.

"Five Grade Categories" and "Four Stock Categories"

Pickling grade
A standard grade that is used in various fields, including utility lines.

High corrosion resistance grade
Demand is increasing year after year in various fields, including seawater desalination related equipment. We have rich processing experience with titanium, nickel alloy, dual phase steel, super stainless steel, etc.

Sanitary grade
We have broad experience in food, beverage and pharmaceutical field. Sanitary grade is widely used in process lines, equipment, machines, tanks, etc.

BA/EP grade
We provide clean materials for the semiconductor and vacuum industry. We have extensive experience with equipment and machines in addition to plant process lines.

Polishing grade
We offer a variety of piping from large diameter to small diameter, used in factories' processing lines like in paper mill. There are many achievements in the field of construction such as handrails.

General Standard Products	Sanitary
TP-A, TP-S, TP-Y, flange, fitting, B & N, round bar, steel plate, etc.	Pipe, fitting, ferrule, clamp band, pipe hanger, packing, etc.
Order products: Titanium, high nickel steel, duplex stainless steel, super stainless steel, etc.	Order products: Pumps, strainers, filters, valves,containers, etc.

Clean	Building materials
Pipe (AP, BA, EP), Fitting (AP, BA, EP), Flange, B & N, etc.	Square pipe, decorative pipe, angle, channel, H-shaped steel, steel plate, flat bar, etc.
Order products: VCR · UJR · VTF, valve, regulator, NW flange, etc.	Order products: Punching metal, expanded metal, etc.

Stainless Steel / Other Special Steel Processing

Ability to perform custom-made and mass-produced processing order of high-level stainless steel at domestic and overseas factories

While handling more than 1,000 processing operations a month at domestic factories alone, in response to customer requests, we also have expanded to acquire various stainless steel processing technology and continued to pursue that level. We will continue to respond to customer requests under the motto of evolution.

High technology obtained from processing experience for equipment used in pharmaceutical and semiconductor plants

We understand the differences in each project's requirements and material properties required in the plant, and combine the processing methods that are most appropriate for our customers' needs. Therefore, we have a series of processes such as cutting, pressing, welding, bending, burring, buffing, electrolytic polishing, and cleaning in-house, and ensure diverse processing with high quality.

Electro polishing (EP) technology accumulated from 1985

We perform electro polishing for products in various sizes and shapes such as pipes, tanks, fittings and processed products with large and small diameters. Especially for processing products, based on our know-how of EP, you can expect higher accuracy, corrosion resistance and smoothness.

Selection of parts, processing, manufacturing, and installation – all completed in-house

Our company can complete from the selection of parts, processing, manufacturing to installation in-house. This will reduce your hassle-free arrangements, and will eliminate concerns about quality fluctuations and instability. This will lead to a significant reduction in customer burden and cost.

List of Technologies

Cutting

At Nissho Astec, we have various specialized machines as well as automatic machines such as CNC lathes, Machine Center or 3D laser machines. However, we also value the craftmanship with manual machines. This is due to our belief, which is that specialized and automated technologies are based on the fundamental technology of general machines; and that our cutting process are being operated by a combination of various kinds of specialized, automatic and general machines.

Laser Cutting

We have a high-end model machine which added a positioner function to a 5-axis drive CAD-CAM laser cutting machine. This makes it possible to cut with high-difficulty laser cutting.

Pipe Bending

We have installed a 3D pipe bender for piping inside the semiconductor manufacturing equipment, which makes it possible for us to replicate the complicated bending process with high precision. Bending for general piping and sanitary pipe is handled at our own plant, our overseas subsidiary company, or our partner company.

Burring

By making use of the burring process, pipe assembling can be done without the use of some TEE fittings, which not only reduces leakage and strain, but also brings down the total cost of piping, and simplifies the cleaning process and installment of the whole process line. At Astec, we can deal with various sizes of caliber. Furthermore, we have receive high praise for the fact that there are extremely few scratches on both the inside and outside of the final products thanks to our continuous innovation after regular dealing with abrasive products.

List of Technologies

Welding

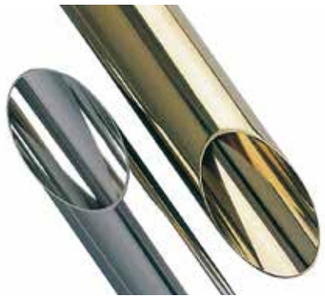
“Enormous damage is caused by Defects afterwards”, this motto is constantly remembered by each and every staff member of our company, pushing them to pursuit high level of completion, according to the requirements stated in our customers’ welding instructions. We also operate welding process for other products, such as tanks or frames.

Buff Polishing

We are devoted to polishing as well. For example, temperature control during titanium material polishing process, precision of the buffing process operated in our in-house factory with electro-chemical polishing system: for the polishing process, we are using machines such as the automatic pipe polishing machine, the automatic fitting polishing machine and the cask specialized polishing machine, which are all made by our enthusiastic and innovative employees.

Electro Polishing

According to our customers’ orders, we provide two kinds of EP grade. For customers who order completed EP prefab piping, we will re-apply EP only to the welded part. By doing this, the pipes will be covered with a layer of chromium-rich passive film.We also provide various inspections, certificates, and validation documents.

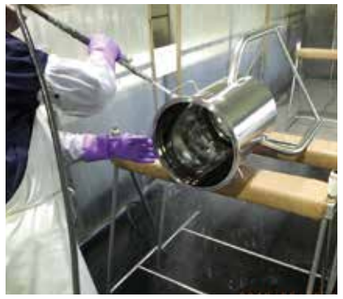


GOLD EP / PLATINUM EP

GOLD EP and PLATINUM EP are stainless steel surface treatment technology which is solution of the problems occurring when using Ultra Clean Technology. GOLD EP has no elution against residual oxygen-rich alcohol / ozone water, and PLATINUM EP has the characteristic of not dissolving in ultra-pure water · organic amine type chemicals. Currently, only two companies in Japan are capable of operating this treatment process.

*According to our survey in 2017

List of Technologies



Cleaning

For the cleaning process, we are operating pickling (degreasing cleaning) · BA pipe cleaning and EP pipe cleaning. We also have a clean room (conforming to JIS B9920 Class 6 (USA Fed.Std. 209 E Class 1000)) for cleaning with ultrapure water and precision cleaning using techniques such as nitrogen blowing.

Measuring

For cutting pipe, for example, we can provide finished products with accuracy of 0.1mm even though pipe length is 4000L thanks to our strict and accurate dimensional control system. We can achieve a high level of accuracy not only in finished components, but also in prefabricated piping. At our company, we can perform different kinds of measurement according to customers’ requirements, such as ultrasonic thickness measurement, oil content measurement, particle measurement, surface roughness measurement, etc.

Inspection

Regarding the visual inspection for each process, we have set up a standardized accreditation system and we also provide training so that constant and precise judgment can be made. In addition, we aim to maintain and improve the technology for handling and operating equipment.

Testing

For our testing process, we are performing pressure resistance test, Helium leak test and 121°C pure steam exposure test. Regarding the handling of this testing equipment, we have established an in-house accreditation system, which is an equivalent to the inspecting process, and we have a thorough system for proper examination although it is still at a self-inspection level.

Electro Polishing

Electro polishing effective for high hygiene control and stability of product composition

Electro polishing removes fine burrs and particles in objects and forms a chromium-rich passivation film with excellent corrosion resistance. It is very effective for high hygiene management and stability of product composition that can be found in manufacturing facilities such as chemicals, medicine, semiconductors and beverages plants. We manufacture jigs and electrodes according to various shapes and sizes, and also perform electrolytic polishing of fine piping.

Features of Electro Polishing

The treated surface is extremely smooth (lubricant)

Existence of a dense passivation film

Existence of a highly-condensed chromium layer with great corrosion resistance

Merits of Electro Polishing

Improvement of Washing Efficiency

Difficult-to-adhere for fine powder

Strong rust prevention effect

Improvement of chemical resistance

No work-affected layer

Solving the problems of ultra-clean technology

“GOLD EP / PLATINUM EP”

Pre-Electro polishing

The heterogeneous oxidation state and granular particles are easy to get rid of after the surface is affected.

Electro polishing

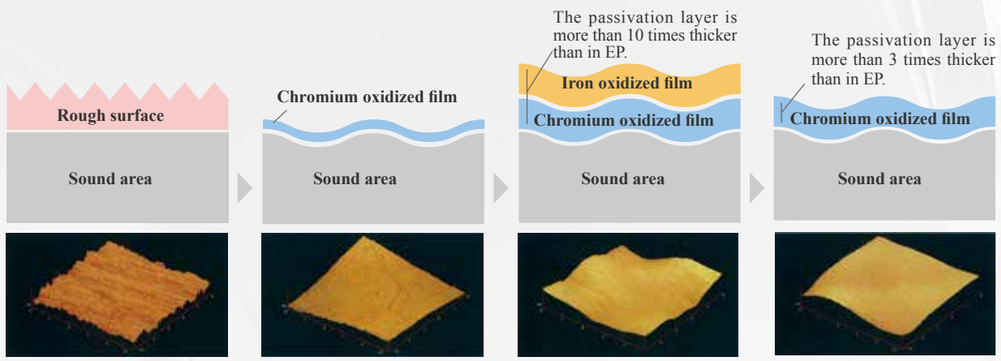
Eliminate uniform oxidation state by Electropolishing.The surface becomes a flat and smooth metal cloth.

G-EP Processing

Burning the targeted object in oxidizing atmosphere. The passive layer of the chromium oxidized film covers the sound area while the passive layer of the iron oxidized film covers it from the top.

P-EP Processing

Remove the iron oxidized film from the surface. Now, the passive layer of chronium oxidized film becomes the surface.



The heterogenous oxidation state be sufficiently removed by uniform dissolution.

There is no elution against alcohol with high level of residual oxygen and ozonated water.

There is no elution against ultrapure water and organic amine-based chemical solution.

Clean Technology

Acquring the advanced clean quality using clean technology (CT)

In the processing of sanitary piping, the processing environment and the degree of cleanliness such as cleaning and packaging greatly affect the quality of final products. Nissho Astec owns two clean rooms, and meets the high quality requirements of clean technology with clean technology (CT).

Tubular fine processing in a clean environment (Minoh factory’s clean room)

We process and manufacture precision and clean piping for semiconductor and pharmaceutical manufacturing equipment. We process stainless steel tubes into high-precision and clean piping products according to the specifications requested by customers.

Precision cleaning of electro polishing in clean environment (Sasayama factory’s clean room)

Even if a high quality polished surface is produced by electrolytic polishing, the adhesion of scratches and dirt after treatment will impair the original quality of electrolytic polishing.We pay close attention to pickling and passivation treatment, cleaning with ultrapure water, drying with clean air, etc., and clean finish of processed products so that our customers can use the final products without worrying about product quality.

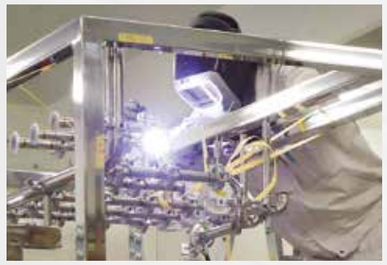
Clean packaging in a clean environment (Sasayama factory’s clean room)

Packaging is done in a clean room that is free of dust and dirt. We are also committed to packaging materials and packaging methods, and cooperate with the shipping department to deliver high-quality piping materials to our customers’ hands.

▲ Microfabrication in clean room

▲ Packaging in clean room

Unit Production and Assembly



For smooth installation and adjustment within the tight schedule of plant construction

The unitization of valves and devices improves operability and maintenance when customers operate the facility, and also has various benefits such as a better appearance in the factory. In addition, it is excellent in construction, and smooth installation and adjustment can be performed on a tight schedule of plant construction.

Abundant stock

We have a large stock of square pipes, angle, channels, etc. Furthermore, frame mounts can also be manufactured with various materials according to customer requirements

Buff Polishing

We have high-skilled buff craftsmen in our company, and we can respond quickly to buff polishing orders of weld line and removing scratches from repairs.

Cleaning and electropolishing

We have pickling facilities and electro polishing facilities in-house. We can ofer advanced finish by removal of welding burn and electrolysis.

Clean Room

In the company's own clean room facility, it is possible to perform clean precision processing such as for gas capillary.

【Example of unit production】 Valve unit, filter unit, decompression unit, RO (reverse osmosis) water purification unit, PS (pure steam) unit, WFI (water for injection) unit, gas panel.

Installation work

Our customer's site is our final process

The prepared units and prefab piping are also available for installation work at the customer's site. In addition, processed piping, utility piping, support materials, etc. are compatible with on-site processing, installation and inspection.In particular, we are highly regarded at sites where high-quality levels are required, such as for pharmaceuticals, semiconductors, beverages, and food plants.

Even if welding cannot be done on site

Products that have been prefabricated at our own factory can be delivered to the site and installed on-site.

Inspectors who are familiar with the equipment

Inspections are conducted by experienced inspectors with excellent qualification ability and necessary documents.

Validation of pharmaceutical production

We commit to consistently conduct our work with appropriate manual and automatic welding operations and inspections which are strictly controlled by WPS in accordance with strict specifications and standards.

Even if there is no drawing

In the company's own clean room facility, it is possible to perform clean precision processing such as for gas capillary.

*Due to certain situation, we may not be able to perform according to customer's requirements.

On-site Cleaning

Prepare cleaning equipment and chemicals, and go directly to the site to perform cleaning work

We prepare cleaning equipment and chemicals, and go on site to perform cleaning work. Whether the site is rebuilt or newly built, the inside of the tank, large container, piping, etc. that cannot be taken out to the cleaning factory, is guaranteed to always be in a clean condition.In addition to being able to satisfy FDA inspections, periodical passive-film processing in tanks and pipes can be rescaled to restore the buffing and electropolishing gloss of the original construction.

We can deal with various surface contamination

- Change of color rouge in stainless steel of bio and pharmaceutical industry
- Oxide scale generated during welding (welding burn)
- Scale of oxide film formed on the surface when being heated
- Scale that deposits dissolved mineral matter as water is concentrated and adheres to inner wall

Various cleaning techniques

"Chemical circulation cleaning"
Pump the chemical solution according to the application to remove contamination.

"Application cleaning"
Using brush to apply the chemical solution to make it react with the contaminated surface and remove the stain.

"Electro cleaning"
React the contaminated surface with electricity and chemical solution and remove it.

"Circulation passivation process"
Form a dense passive film on the surface of stainless steel (Reproducibility of inactivated film in welding spot)

Because we undertake the construction of stainless-steel pipes, we could make use of that know-how, can clean the pipes by using temporary pipes without using rubber tubes. Therefore, construction can be performed without leakage of detergent.

Consideration for customer's facilities and environment

In our company's on-site cleaning, all the used chemicals are carried back in temporary tanks, or collected by a local truck, so customers do not have to worry about the treatment of left-over chemicals and waste liquid.

▲Tank before cleaning

▲Tank after cleaning

*Usually, only the inside of the tank is processed, but the tank in the "After" photo was also subjected to external cleaning.

Import Export Business

Import and export business utilizing know-how acquired through trade in consignment processing

We have expanded our business in East Asia, mainly in Vietnam, since 2010, through international transaction of reverse commissioning of stainless steel products, importing stainless steel products from abroad, importing and exporting machines precision machining, tools and wear products, ...

Development of total services for stainless steel piping construction in cooperation between Japan and foreign countries

VINA ASTEC CO., LTD. is an overseas production base. Taiwan-based subsidiary RI-ZHANG ASTEC CO., LTD. is an overseas sales office. Each site has staffs who are fluent in Japanese and familiar with stainless steel processing and trading operations, and cooperate with domestic staff to carry out production, construction and import / export operations.

Overseas subsidiaries

VINA ASTEC CO., LTD.
(Subsidiary in Vietnam)

Vietnam-based VINA ASTEC CO., LTD. is an integrated processing factory of stainless steel products with a site of 10,000 square meters, located in the area which is 22 km to the south of Ho Chi Minh and Tan Son Nhat Airport, and in the corner of Long Hau Industrial Park.

RI-ZHANG ASTEC CO., LTD.
(Subsidiary in Taiwan)

RI-ZHANG ASTEC CO., LTD. is a subsidiary mainly executing installation and dismantling pipes at factories in Taiwan. In addition, we also deal in microbiological steel pipes and microbiological pipe fittings, and also can act as an agent importing Japanese machinery to Taiwan.

International Trading Business Description

Total support from packing, delivery to declaration procedure

Please contact us if you are considering to start to trade or import / export.
We propose and support from the beginning the logistics methods that match your package, such as ocean transportation and airmail.

Wholesale of factory equipment, etc., which are expanding thanks to connection with various industries

We utilize our links with pharmaceutical, semiconductor, food, and various other industrial plants to carry out wholesale of road tools, equipment and materials used in various factories. We operate wholesale business with high-quality Japanese products to foreign customers, and inexpensive, yet superior products from abroad to domestic customers.

Import and export

We accept import and export of not only stainless-steel products and steel pipes but also precision machinery, machine tools, tools, dangerous goods, consumables good. We also sign contract to act as import agents of vendor companies.

Packaging for delivery

We select packaging methods that do not impair the product quality according to the application, quantity, and shape, such as wooden box, crate, and pallet packaging. We also deliver customers' important packages in an optimal packing method and shipping method such as containerized ocean transportation and air transportation.

Wholesale

We carry out wholesale of tools, equipment, materials, etc., used in the factory such as pumps, measuring instruments, cleaning agents and work clothes. In addition, we have certified facility electrical engineers and skillful electricians stationed in our subsidiary in Vietnam, therefore our staff can provide partial maintenance service for equipment sold in Vietnam, concerning electrical related problems.

A stainless steel processing factory which is capable of conducting the whole processing cycle including electro polishing

Our local subsidiary in Vietnam, VINA ASTEC CO., LTD. (Vina Astec), was established in Ho Chi Minh City in 2010.In 2014, we moved to the current location (Long Hau Industrial Park) and started an integrated stainless steel processing manufacturing plant. Every year, as a major overseas production base, we continue to make great results.

Domestic factory with up-to-date processing technology for stainless steel products

VINA ASTEC inherits stainless steel processing technology that Nissho Astec has learned and developed in Japan for decades, and is now operating as a consistent processing factory for stainless steel products.We can perform a variety of manufacturing processes such as machine work, buffing, electro polishing, welding, etc., and have the ability and skills to carry out mass production, special order, and construction projects.

High processing quality for mass production and for international market

In the last 10 years, the processing quality of VINA ASTEC has been further refined, and today it has reached a certain reputation in Vietnam. The high evaluation of quality led to huge orders from consumers, and for that reason, we have started to begun mass-production.Furthermore, we have been starting to aim for cross-border inquiries from neighboring countries such as Singapore, Malaysia, and the Philippines.

Provide services for a wide range of piping work and field services

We support the following operations at various plants such as food, pharmaceutical, gas, semiconductor and so on.

Piping work:
general pipe, BA pipe, EP pipe and utility piping

Field service: buff polishing, EP repair, etc.

Inspection:
hydrostatic test or filling water test for assembled units and tanks

Introduction of Vina Astec's Business

Processing of custom-made items and mass-produced items

We possess equipment to carry out various processing steps such as cutting, bending, welding, cleaning and inspection, and with the help of multiple skilled workers, we can produce a variety of processed products.

Buff Polishing

From # 200, # 400, # 600, Mirror surface polishing, to HL polishing and other finish, we can polish products with a wide range of shapes.

Vibratory Polishing

Used for polishing of mass-produced products. The cutting power is not like in buff polishing done by manual labor, but this method can remove unnecessary edges and can provide a uniform and high-quality finish.

Electro Polishing

Not many factories in Vietnam can do stainless steel EP (electropolishing) from small objects to large tanks and we are proud to be one of the few.

Cleaning

We have a large drainage treatment system, which make it possible for us to do degreasing cleaning, passivation treatment, and pickling. We can handle products from small size to large size like big tanks, and from single product order to mass production.

Inspection

We have a large, highly qualified group of inspection staff who perform the essential checks on product quality, such as product dimensions and appearance, molybdenum check, etc.

Prefabricated Piping

Prefabricated piping not only helps reduce working hours at the site, but also allows us to provide better- and more-stable-quality products.

On-site construction , Plumbing work and Field service

We do piping work, field service, hydrostatic test or filling water test for assembled units and tanks, in various plants such as food, pharmaceutical, gas, semiconductor manufacturing plants.

Implementation of Product and Utilization

Our products are not easily being noticed but our products and services are used in popular products that are familiar in Japan

We have summarized information of our domestic purchasers with whom we are doing business with. The industry shares and company names are not the most up-to-date, but please consider them for reference purpose.Our products are delivered to customers who are end users through engineering companies, machine manufacturing factories, or general contractors / subcontractors. Of course, the fact that our products are being used by companies representing each industry cannot be realized without the help and support of our customers and related parties.We will endeavor to continuously improve our technology and improve quality so that our customers can continue to use our products with peace of mind.

Nissho Astec's Purchasers (categorized by industry sector)

*Shares and company names are as of 2016

Beverages

Rank	Company	Share (%)
1	Suntory Holdings	24.1
2	Coca-Cola Japan	13.3
3	Asahi Group Holdings	11.5
4	ITO EN	11.0
5	Coca-Cola West	10.4
6	Yakult	9.2
7	Otsuka Holdings	8.6
8	Dydo Drink	3.5
9	Sappro Holdings	3.2
10	Kagome	1.8

Food

Rank	Company	Share (%)
1	Nipponham	6.4
2	Meiji Holdings	6.3
3	Ajinomoto	6.1
4	Yamazakipan	5.3
5	Maruha-nichiro	4.6
6	Itoham	3.3
7	Nissui	3.3
8	Morinaga Milk	3.1
9	Megmilk Snow	3.0
10	Kewpie	3.0

Electrical Equipment

Rank	Company	Share (%)
1	Hitachi	12.0
2	Sony	9.7
3	Panasonic	9.0
4	Toshiba	6.8
5	Fujitsu	5.7
6	Mitsubishi Electric	5.2
7	Canon	4.5
8	NEC	3.4
9	Sharp	2.9
10	Ricoh	2.6

Electronic Parts

Rank	Company	Share (%)
1	Kyocera	13.3
2	Murata Manufacturing	10.9
3	Nidec	10.6
4	TDK	10.4
5	Omron	7.5
6	Nitto Denko	7.1
7	Alps Electric	7.0
8	MinebeaMitsumi	5.5
9	KEYENCE	3.4
10	Rohm	3.2

The company name may not be the official name or abbreviation of the company.

Information on the industry share of this document is taken from "Industry Trends SEARCH.com" (2015-2016).

Semi-conductor

Rank	Company	Share (%)
1	Toshiba	21.0
2	Hitachi	14.7
3	Sony	10.0
4	Renesas Electronics	9.0
5	Tokyo Electron Limited	8.3
6	Fujitsu	7.9
7	Rohm	4.6
8	Kyocera	2.8
9	Nikon	2.4
10	Mitsubishi Electric	2.4

Chemicals

Rank	Company	Share (%)
1	Mitsubishi Chemical Holdings	13.4
2	Sumitomo Chemical	7.4
3	Mitsui Chemicals	4.7
4	Shin-Etsu Chemical	4.5
5	Asahi Kasei	2.9
6	DIC	2.9
7	Nitto Denko	2.8
8	Tosoh	2.6
9	Air Water Inc.	2.3
10	Ube Industries	2.2

Pharmaceuticals

Rank	Company	Share (%)
1	Takeda Pharmaceutical	16.8
2	Astellas Pharma	12.7
3	Daiichi Sankyo	9.2
4	Otsuka Holdings	9.0
5	Eisai	5.1
6	Chugai Pharmaceutical	4.6
7	Mitsubishi Tanabe Pharma	4.0
8	Sumitomo Dainippon Pharma	3.7
9	Kowa	3.5
10	Kyowa Kirin	3.4

Automobile

Rank	Company	Share (%)
1	Denso	15.6
2	Aisin Seiki	11.2
3	Toyota Industries	7.7
4	Toyota Boshoku	4.9
5	JTEKT	4.8
6	Calsonic Kansei	3.6
7	NSK	3.4
8	Koito Manufacturing	2.8
9	Toyada Gosei	2.7
10	NOK	2.6

Petroleum

Rank	Company	Share (%)
1	JXTG	35.0
2	Idemitsu Kosan	17.6
3	TonenGeneral Sekiyu K.K.	12.9
4	Cosmo Energy Holdings	11.1
5	Showa Shell Sekiyu K. K.	10.7
6	Inpex	5.0
7	San-Ai Oil	3.7
8	Fuji Oil	2.1
9	JAPEX	1.2
10	Nisshin Shoji	0.3

Plant

Rank	Company	Share (%)
1	JGC	31.1
2	Chiyoda Corporation	21.6
3	Toyo Engineering	10.6
4	Toshiba Plant Systems	7.7
5	Kurita	7.6
6	Takuma	4.0
7	Metawater	3.6
8	Shinko Plantech	3.2
9	Taihei Dengyo	2.9
10	Fuji Electric E & C	2.7

Company names are as of 2016 and do not reflect the subsequent change or consolidation of company names.

The sales results of our company are made from the sales record of 2012 to the end of 2018.

Many of our products are delivered to the end users through our customers such as engineering companies, general contractors and sub-contractors.

https://www.nissho-astec.com（Global）
https://www.nissho-astec.co.jp（Japanese）

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