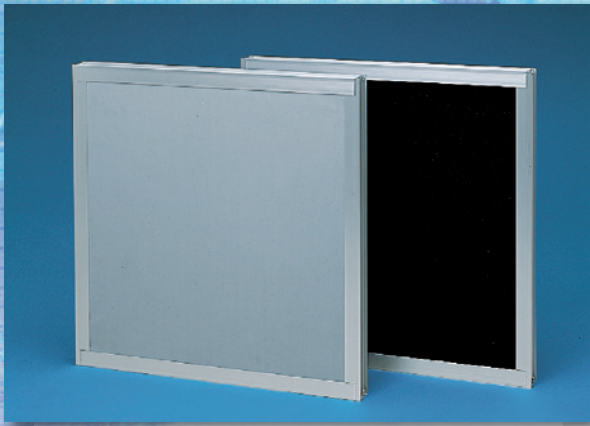


NICHIAS

面向半导体产业的霓佳斯制品 반도체 산업용 니치아스 제품

NICHIAS Products for SEMICONDUCTOR INDUSTRY



NICHIAS contributes to the Earth's bright future through our Insulation and Protection technologies.

霓佳斯公司用「断·保」技术为地球的光明未来作出自己的贡献。
니치아스는 「차단·유지」의 기술로 지구의 밝은 미래에 공헌 합니다.

Business fields and main products

经营范围和主要制品

사업 분야 및 주요 제품

Advanced Products Business

先进的制品事业

고기능 제품 사업

We provide advanced products and technologies related to pipes and equipment and process environment in cutting-edge industries such as semiconductor, LCD and so on.

以半导体、液晶为尖端产业，提供和配管、机器、生产过程相关联的先进制品及技术。

당사는 반도체, FPD 등 첨단 산업에서 사용되는 배관 시스템, 장비, 공정과 관련된 고기능 제품 및 기술을 제공하고 있습니다.

- Advanced (fluoropolymer) Products
- Heat and chemical resistant sealing materials
- Inorganic fiber products for ultra-high temperature
- (AMC or Chemical) filters for Low concentration gas (Ammonia, Acid, Organic)

- 先进的树脂（氟树脂）制品
- 具有耐热性、耐化学性的密封材料
- 超高温用无机纤维制品
- 低浓度气体（氨气、酸性气体、有机气体）过滤器
- 고기능수지 (불소수지) 제품
- 내열성 및 내화학성 실제품
- 초고온용 무기섬유 제품
- 저농도 가스 (암모니아, 산, 유기) 제거용 필터

Industrial Thermal Insulation Work Business

- Thermal Insulation Work
- Cryogenic Insulation Work
- Fireproofing Work
- Soundproofing Work

工业保温

- 保温
- 低温绝缘
- 防火
- 隔音

산업용 보온 보냉 공사 사업

- 보온 공사
- 극저온 보냉 공사
- 내화 공사
- 방음 공사

Industrial Products Business

- Gaskets and Packing
- Insulation Materials for Plants and Buildings
- Corrosion-resistant Lined Tanks and Pipe Materials

工业制品

- 垫片和包装材料
- 工厂和建筑的隔热保温材料
- 容器和管道内衬的防腐材料

공업 제품 사업

- 가스켓 및 패킹
- 플랜트 및 건물용 단열재
- 내식성 라이닝 탱크 및 배관 소재

Automotive Parts Business

- Gaskets for Automotive Cylinder Head
- Heatproofing Parts
- Soundproofing Parts

汽车零件

- 汽缸盖垫片
- 隔热零件
- 隔音零件

자동차 부품 사업

- 자동차 실린더 헤드가스켓
- 방열재
- 방음재

Building Materials Business

- Calcium Silicate Board
- Insulation Materials made of Rock Wool
- Access Floor Work
- Fire-resistant Wrapping Work

建材

- 硅酸钙板
- 岩棉保温材料
- 自由拼接地板
- 耐火材料张贴

건축 자재 사업

- 규산칼슘 판재
- 록울 단열재
- 악세스후로아 공사
- 내화 피복 공사

NAFLON™ PFA-HG Tubing



Clean tubing with smooth inner surface due to superior chemical-resistance and microminiaturization of PFA spherocrystal.

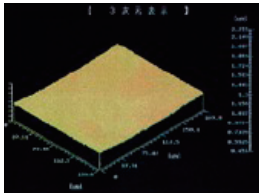
具优异的耐药品性，并通过PFA의球状结晶体进行微小化使内壁表面得以做到平滑的洁净软管。

내약품성이 우수, PFA의결정을 극소화 함으로써, 튜브 내면의 평탄화를 가능케한 클린 튜브 입니다.

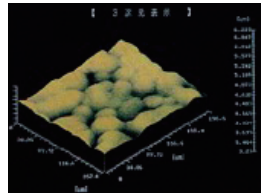
Characteristics

- Tubing inner surface is smooth
- Reduced retention of particles and liquids
- Reduced chemical permeation volume

- 软管内壁表面平滑
- 微粒和药液滞留的减低
- 药液浸透量的减低
- 튜브내표면이 평탄
- 파티클이나 약액의 체류저감
- 약액침투량의 저감



PFA-HG



General PFA

Rubber O-ring BLAZER™ NEXT



Superior heat-resistance, radical-resistance, purity and anti-sticking feature have been achieved due to unique cross-linking technology.

采用独有的交联技术，实现优异的耐热性、自由基耐受性、纯净性、非固着性。

독창적 가교기술로 우수한 내열성, 내라디칼성, 순수성, 비고착성을 실현 하였습니다.

Characteristics

- Heat-resistance guideline : 315°C
- Able to seal stably for long time
- low outgassing

- 耐热标准温度: 315°C
- 做到长期间的安定密封
- 低释气量
- 내열 기준: 315°C
- 장시간 안정적 씰링 가능
- OUTGAS 발생량이 작습니다

NAFLON™ PFA-NE Tubing

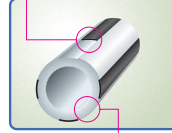


PFA conductive stripe on the surface of tubing outer surface. Prevents release of sparks that could result in starting of fires.

软管外表面覆有条纹状导电性PFA。最适合用于由火花放电引起的火灾事故的防范。

튜브의 외표면부에 줄무늬형 도전성 PFA가 들어간 튜브로 불꽃방전에 따른 화재사고 방지에 최적이다.

material: Electric conductive PFA



material: PFA-HG

NAFLON™ PFA-AS Tubing

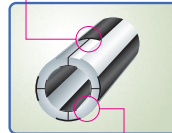


PFA electric conductive stripe on both inner and outer surfaces of tubing. Prevents tubing from insulation breakdown due to transport of organic solvent.

软管内·外表面覆有条纹状导电性PFA。能够防止由输送有机溶剂等而引起的绝缘破坏。

튜브의 내·외층에 줄무늬형 도전성 PFA가 들어간 튜브로 유기용제등의 이송에 따른 튜브 절연파괴를 방지한다.

material: Electric conductive PFA



material: PFA-HG

Rubber O-ring Lineup

NICHIAS has the lineup of O-ring products suitable for each production process.

霓佳斯公司提供适合各种生产工艺的O形圈系列产品

니치아스는 각 제조공정에 적합한 O-RING을 제공하고 있습니다.

Manufacturing process 制造工艺 제조 공정	O-ring product O形圈产品 O링 제품	Characteristics 特性 특성
Oxidation, Diffusion 氧化·扩散 산화·확산	BLAZER™ NEXT	Heat-resistance guideline: 315°C 耐热标准温度: 315°C 내열 기준: 315°C
Cleaning 洗净 세척	BLAZER™ O-ring-A	Excellent in chemical-resistance 耐化学性优异 내약품성이 우수 합니다
	PURE RUBBER	Excellent in purity 纯净性优异 순수성이 우수 합니다
Etching, Photoresist stripping 蚀刻·光刻胶剥离 에칭 방지막 분리	PERFLUORO PFW	Excellent in plasma-resistance 等离子体耐受性优异 내플라즈마성이 우수 합니다
	BLAZER™ O-ring-FC BLAZER™ O-ring-FE	Excellent in plasma-resistance 等离子体耐受性优异 내플라즈마성이 우수 합니다

Semiconductor manufacturing process

半导体制造工艺 반도체 제조 공정

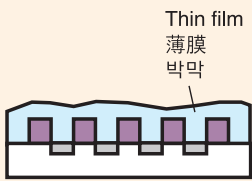
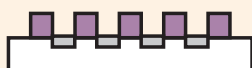
Silicon wafer
硅晶片
실리콘 웨이퍼

Oxidized film
氧化膜
산화막

Photosensitive agent
感光剂
감광제

Ultraviolet irradiation
紫外线照射
자외선 조사

Photomask
光掩膜
포토마스크



Oxidization, Diffusion
氧化・扩散 산화, 확산

Lithography (Photresist coating)
平板印刷技术 (涂光刻胶) 리소그래피 (레지스트 도포)

Lithography (Exposure)
平板印刷技术 (曝光) 리소그래피 (로광)

Lithography (Development)
平板印刷技术 (显像) 리소그래피 (현상)

Etching
蚀刻 에칭

Photoresist stripping
光刻胶剥离 포토레지스트리 박리

Ion implantation
离子注入 이온 주입

Thin film formation
薄膜形成 박막 형성

Cleaning
洗净 세척

Heat resistant perfluoro elastomer 1

耐热性全氟橡胶
내열 퍼플로 고무



Excellent in heat resistance and appropriate sealing material for heat treatment equipment such as oxide or diffusion furnaces due to low gas emission under high temperature range.

具优异耐热性，高温情况下气体挥发量少，作为密封部件最适合使用于诸如防酸化和防扩散等的热处理设备。

내열성이 우수하고, 고온에서 방출가스가 적어서 산화·확산 등 열처리장치에 최적의 선택입니다.

Tubing for chemical transport 2

药液输送用软管
약액 이송용 튜브



Fluoropolymer tubing which is excellent in purity in addition to heat resistance, chemical resistance.

具有耐热性、耐化学性的高纯度氟树脂软管。

내열성, 내약품성은 물론, 순수성에도 뛰어난 불소수지 튜브입니다.

Fluoropolymer processed product 3

氟树脂加工品
불소수지 가공 제품



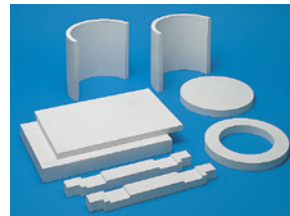
Wafer cleaning jigs or chemical tanks which consists of PTFE or PFA.

由PTFE或PFA材质构成的晶片清洗设备和药液储藏槽等。

PTFE나 PFA로 구성되어, 웨이퍼 세정장치나 약액저장조 등이 있습니다.

Insulation material for extreme high temperature 4

超高温用隔热材料
초고온용 단열재



Fibrous insulation material which is resistant to temp. range of 1400 to 1800 degC able to form into variant configurations.

能在1400~1800℃高温下使用，可加工成任意形状的纤维隔热材料。

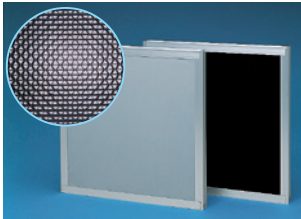
1400~1800℃ 사용가능, 형상이 다양한 제조도 가능한 섬유질 단열재입니다.

Semiconductor manufacturing facility

半导体制造设备 반도체 제조 시설

Chemical filter for low concentration chemical gasses ⑤

低浓度气体化学过滤器
저농도가스 제거용 케미컬필터



Chemical filter to remove low concentration of ammonia, acid and organic gasses.

清除微量氨气、酸性气体和有机气体的化学过滤器。

저농도 암모니아가스, 산성가스, 유기가스를 제거하는 필터 입니다.

Pure water dripping humidification + Chemical removal equipment ⑥

纯水滴下式加湿+化学物质除去设备
순수적하식加湿+케미컬 제거장치



Able to evaporative-humidify and to remove water soluble chemical substances.

可气化加湿并可清除水溶性化学物质。

기화식加湿과 수용성 케미컬물질의 제거가 가능합니다.

Rotary concentrator for low concentration volatile organic compounds ⑦

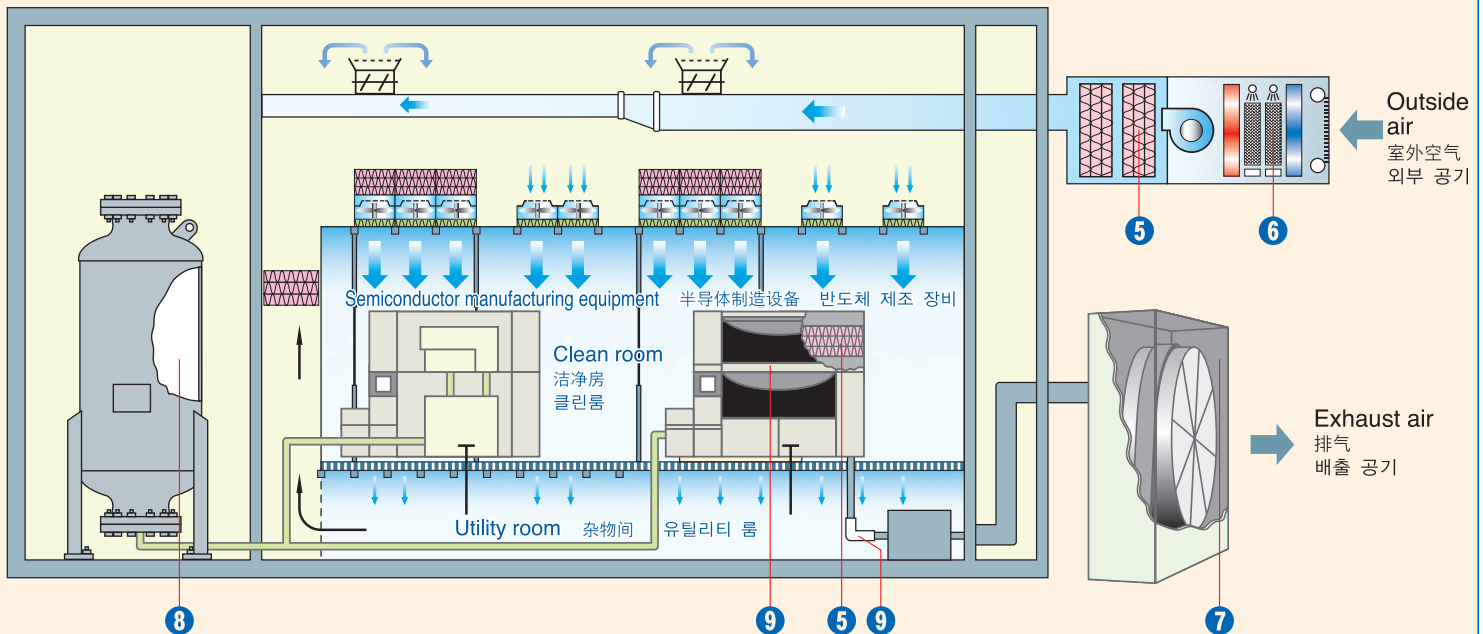
低浓度有机溶剂浓缩设备
저농도 유기용제 농축장치



Equipment to concentrate low concentration volatile organic compounds at the same time as to get purified air by removing organic gasses contained in exhaust gasses.

在清除排气中有机气体，净化空气的同时，对低浓度有机气体进行浓缩的设备。

배기중의 유기가스를 제거하여 정화공기를 공급, 저농도 유기가스를 농축하는 장치입니다.



Fluoropolymer chemical tank ⑧

氟树脂制药液储存罐
불소수지 약액저장 탱크



Fluoropolymer lined tank which store high purity chemicals.

内衬氟树脂材料的高纯度药液储藏罐。

고순도 약액을 저장하는 불소수지 라이닝 탱크 입니다.

Jacketed heater for pipe ⑨

配管用装卸式加热器
배관용 자켓 히터



Jacketed heater able to reuse to prevent pipes from deposition.

防止配管内药液残留，可装卸式配管用加热器。

침전물 방지를 목적으로한, 탈착가능한 배관용 자켓 히터 입니다.

ENETHERMO™ PH



Jacketed heater which is detachable used for the pipes and equipment in semiconductor and LCD manufacturing equipment.

用于半导体, 液晶制造设备的配管·机器, 安装拆卸自由的可卸式加热器。

반도체, FPD제조장치의 배관, 기기류에 사용되는 탈착이 용이한 자켓히터 입니다.

■ Characteristics

- Attachable and detachable free
- low outgassing
- low dust emission characteristics
- Maximum service temperature: 250°C

- 安装拆卸自由
- 低释气
- 低发尘性
- 最高使用温度: 250°C

- 탈부착 용이
- 저 아웃가스
- 저 발진성
- 최고사용온도: 250°C

■ Clean room SPEC

Excellent in dust emission and outgassing thanks to fluoropolymer-coated glass cloth.

使用经氟树脂涂布的玻纤布, 为一种具优异的低发尘性, 低释气性的产品。

불소수지 코팅 글래스 크로스를 사용해 저발진성, 저아웃가스성이 우수한 타입 입니다.



■ Utility room SPEC

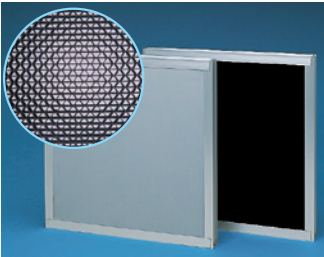
Cost effective model using silicon-coated glass cloth.

使用经硅胶涂布的玻纤布为一种经济型的产品。

글래스 크로스를 사용한 저렴한 타입.



CHEMICAL GUARD™ -HA,-HC,-HT



Chemical filters for removal of low concentration gasses for clean rooms, semiconductor and LCD manufacturing equipment.

适用于净化室、半导体生产、液晶生产等设备的, 去除低浓度化学性气体的过滤器。

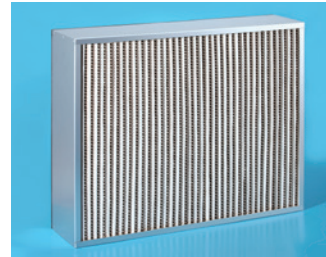
■ Characteristics

- High removal efficiency
- Small footprint
- Low pressure loss

- 去除性能高
- 空间省
- 压力损失低
- 높은 제거 효율
- 작은 공간 사용
- 저 압력 손실

클린룸, 반도체, FPD 제조 장비의 저농도 가스를 제거하기 위한 케미컬 필터.

CHEMICAL GUARD™ WAVE-A,-T



Pleated type chemical filters to deal with high face velocity.

适用于高面风速的褶皱型化学性气体过滤器。

고면속에 대응한 플리츠형 케미컬필터.

■ Characteristics

- CGW-A For acid gas
- CGW-T Able to remove TMS

- CGW-A 酸性气体用
- CGW-T 可去除TMS
- CGW-A 산성 가스용
- CGW-T TMS 제거 가능

	Target gasses 过滤气体类型 대상 가스	Acid gas 酸性气体 산성 가스	Basic gas 碱性气体 염기성 가스	Organic gas 有机气体 유기 가스
Filter Type 过滤器类型 필터 유형	Small footprint, low pressure loss model 省空间, 低压力损失型 적은 공간, 저 압력 손실형	HA	HC	HT
	High face velocity, large air volume model 高面风速, 大风量对应型 고면속, 대풍량 대응형	CGW-A	—	CGW-T

■ Corporate Date (As of March 31, 2024)

	NICHIAS Corporation	
Founded	April 9, 1896	
Head Office	6-1, Hatchobori 1-chome, Chuo-ku, Tokyo, Japan	
Paid-in Capital	¥12,128.35 million	
Employees	6,468	
Factories	Tsurumi Factory Oji Factory Hashima Factory	Fukuroi Factory Yuki Factory
Laboratories	Hamamatsu Research Laboratory Tsurumi Research Laboratory	

■ Global network

VIETNAM

NICHIAS HAIPHONG CO., LTD.
NICHIAS VIETNAM CO., LTD.

CHINA

SUZHOU NICHIAS INDUSTRIAL PRODUCTS CO., LTD.
SUZHOU NICHIAS SEAL MATERIAL CO., LTD.
NICHIAS (SHANGHAI) TRADING CO., LTD.
NICHIAS (SHANGHAI) AUTOPARTS TRADING CO., LTD.
SUZHOU SHUANGYOU AUTOPARTS CO., LTD.
SHANGHAI XINGSHENG GASKET CO., LTD.

CZECH

NICHIAS AUTOPARTS EUROPE a.s.

INDONESIA

PT. NICHIAS ROCKWOOL INDONESIA
PT. NICHIAS METALWORKS INDONESIA
PT. NICHIAS SUNIJAYA

MALAYSIA

NICHIAS FGS SDN. BHD.
NT RUBBER-SEALS SDN. BHD.
NICHIAS SOUTHEAST ASIA SDN. BHD.

SINGAPORE

NICHIAS SINGAPORE PTE. LTD.

INDIA

NICHIAS INDUSTRIAL PRODUCTS PRIVATE. LTD.

THAILAND

NICHIAS (THAILAND) CO., LTD.
THAI-NICHIAS INTERNATIONAL CO., LTD.
THAI-NICHIAS ENGINEERING CO., LTD.

Hamamatsu
Research Laboratory

NICHIAS CERATECH
CO., LTD.

Tsurumi
Research Laboratory

FUKUSHIMA
NICHIAS CORPORATION

Yuki Factory

Head Office

Tsurumi Factory

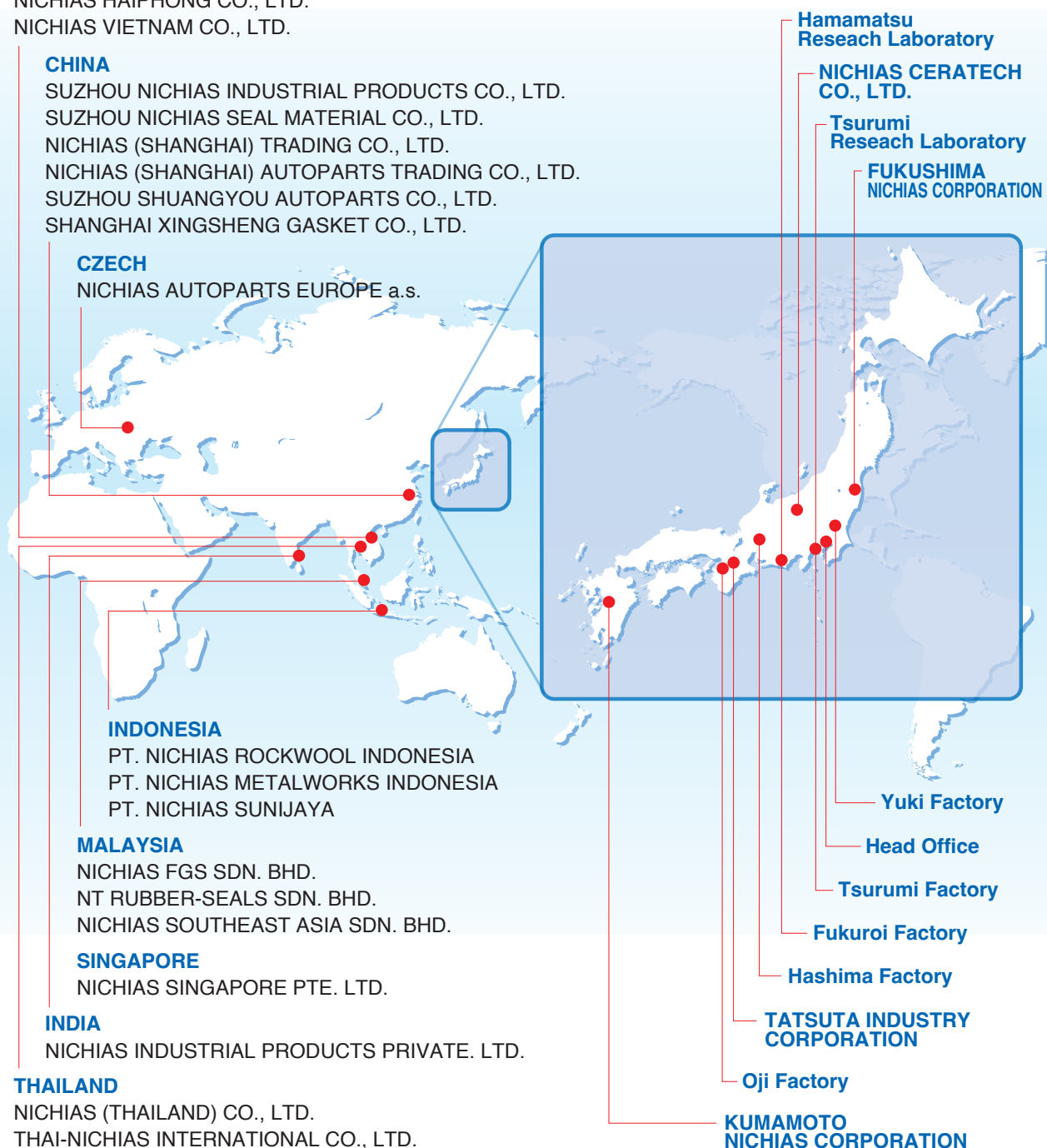
Fukuroi Factory

Hashima Factory

TATSUTA INDUSTRY
CORPORATION

Oji Factory

KUMAMOTO
NICHIAS CORPORATION





■ 总部

6-1, Hatchobori 1-chome, Chuo-ku, Tokyo 104-8555, Japan
International Marketing and Sales Group
电话: 81-3-4413-1132 传真: 81-3-3552-6108
网址: <https://www.nichias.co.jp/>

■ 海外销售公司

中国

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