



STRIZING

Surface Protection & Treatment

STRIZING Surface Treatment Business Unit



S.T.RIZING Co., Ltd. which was established in 2001

-started the manufacturing and the sales of the various chemicals of surface protection & treatment, rust preventive and pre-treatment. And now,

-started of Jobbing business surface treatment service using our chemicals, and Parlube coating service which is a solid lubricant coating

At a glance

- Focused on Surface Protection & Treatment and Coating service.
- 30 employees
- SME Business Type

STRIZING Surface Treatment Business Unit



Strategic Business Divisions

STRIZING Group

Surface Treatment

- Auto Components
- Cold Forming
- Aerospace Components
- General Industry
- Vci Technology

Coating Service

- Phosphate
- Chromate
- Lubricants
- Passivation

STRIZING Surface Treatment Business Unit



Head Office & Manufacturing with google map



http://maps.google.co.th/maps?f=q&source=s_q&hl=th&geocode=&q=strizing&sl=42.295536,-97.106882&sspn=35.889577,86.572266&ie=UTF8&hq=strizing&hnear=&radius=15000&t=h&z=13

STRIZING Surface Treatment Business Unit



Company and Technology Overview



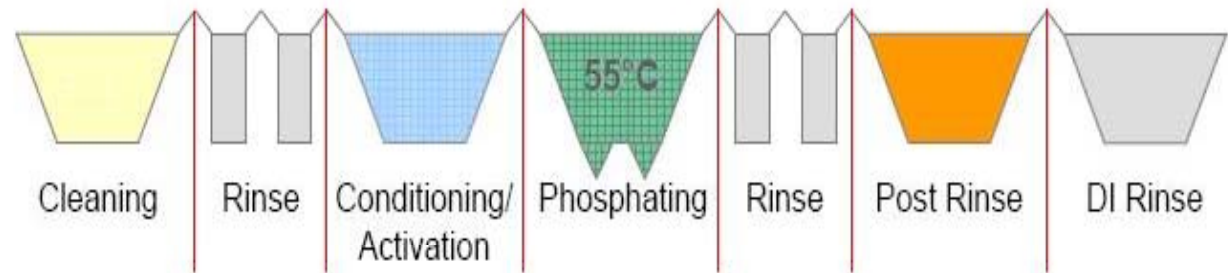


Strizing – Surface Chemistry

- Together with our customers, we develop process chemistry for the chemical treatment of metal and non-metallic surfaces.



Zinc Phosphating Process



- Strizing products provide cleaning, corrosion protection, improved paint adhesion and facilitate cold forming and machining. Chemicals for maintenance as well as sealants for aerospace applications round off our product portfolio.
- Be it vehicle manufacturers, automotive suppliers, steel works, cold formers or other metal processing industries: a perfect surface depends on excellent pre-treatment.

STRIZING Surface Treatment Business Unit



Surface Treatment Product Portfolio

PARCLEANER®

- Deoxidisers
- Descalers
- Etchants
- Pickling Products
- Acid Cleaner

FINECLEANER®

- Industrial Cleaners
- Exterior Cleaners
- Interior Cleaners

PARKOLENE®

- Activators for Phosphate

PARCOAT®

- Iron Phosphate Processes
- Manganese Phosphate Processes
- Zinc Phosphate Processes

ZIRCOTEC®

- Nano Surface Treatment
- Thin Organic Coatings

ALCOAT®

- Chromating Processes
- Chrome Free Processes

PREPALENE®

- Final Rinse Seals

POLARCOOL®

- Coolants

POLARCOOL®

- Cutting Oil

PARLUBE®

- Lubricants
- Salt carriers
- Stamping Oils

WELDTEC®

- Welding Primer

NORUST®

- Corrosion Protection Oils

PAINTSTRIPER®

- Paint Strippers

SOLCLEAN®

- Solvent Cleaner

PARFLOC®

- Paint Detackification

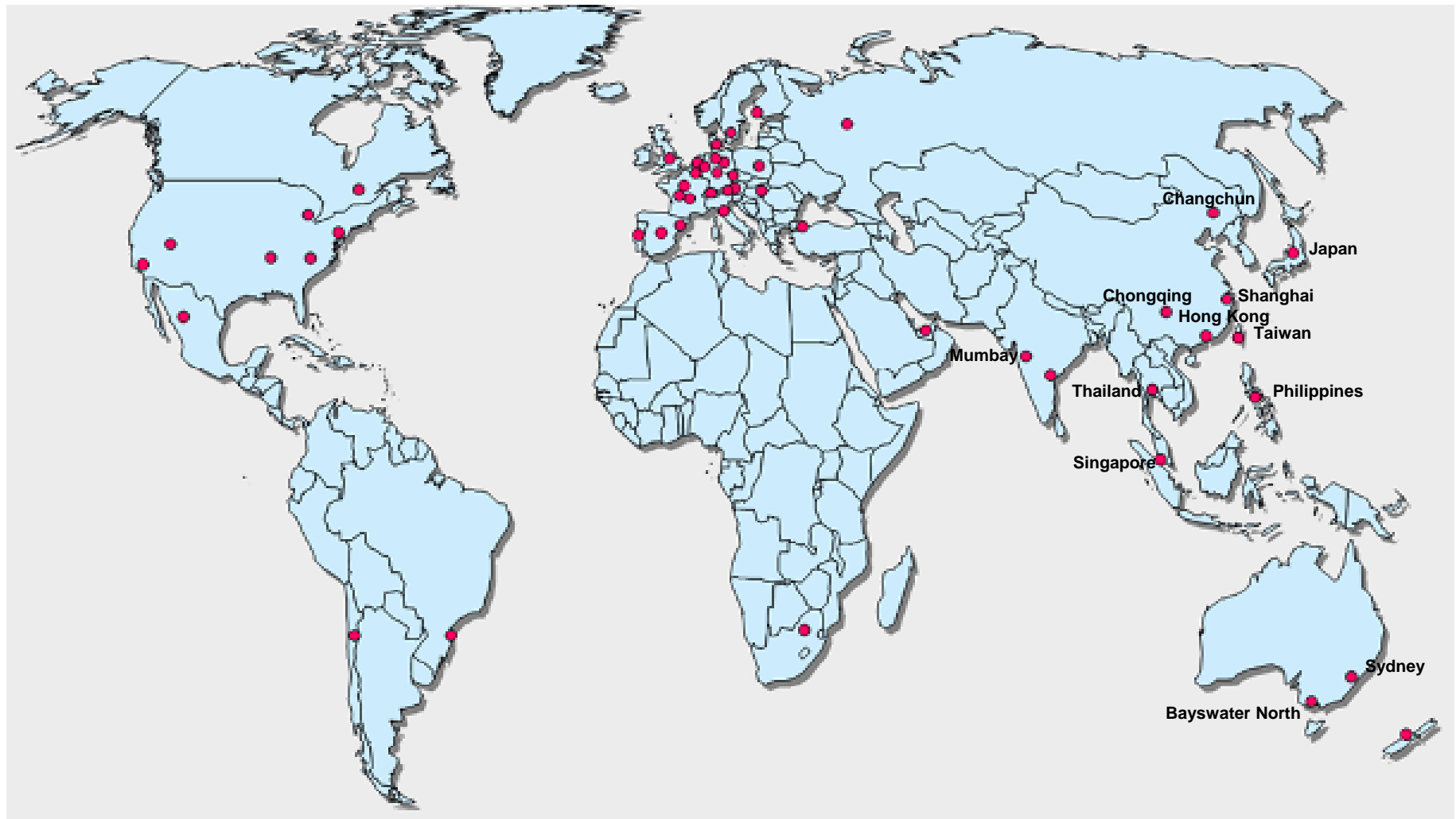
VCI-TECH®

- FERROTEC® VCI PAPER
- COPPERTEC® VCI PAPER
- SILVERTEC® VCI PAPER
- TYPAK® VCI PLASTIC FILM

STRIZING Surface Treatment Business Unit



The Strizing Network



Automotive Components

Exterior

Interior

Powertrain

Chassis / Underbody

Electrical / Electronic



- Strizing is a leading supplier of a wide-range of speciality chemicals for treatment of virtually all the components used in automobiles, trucks and buses.

STRIZING Surface Treatment Business Unit



Automotive Components (cont'd)

- Body Panels
- Gear Parts
- Windscreen Wiper
- Shock Absorbers
- Oil Filters
- Plastic Fascia
- Radiators
- Lights
- Aluminum Wheels
- Steel Wheels
- Suspension Parts
- Seats
- Evaporators
- Coil Springs
- Engine Components
- Chassis Parts





Cold Forming



Wire, Tube and Cold Extrusion

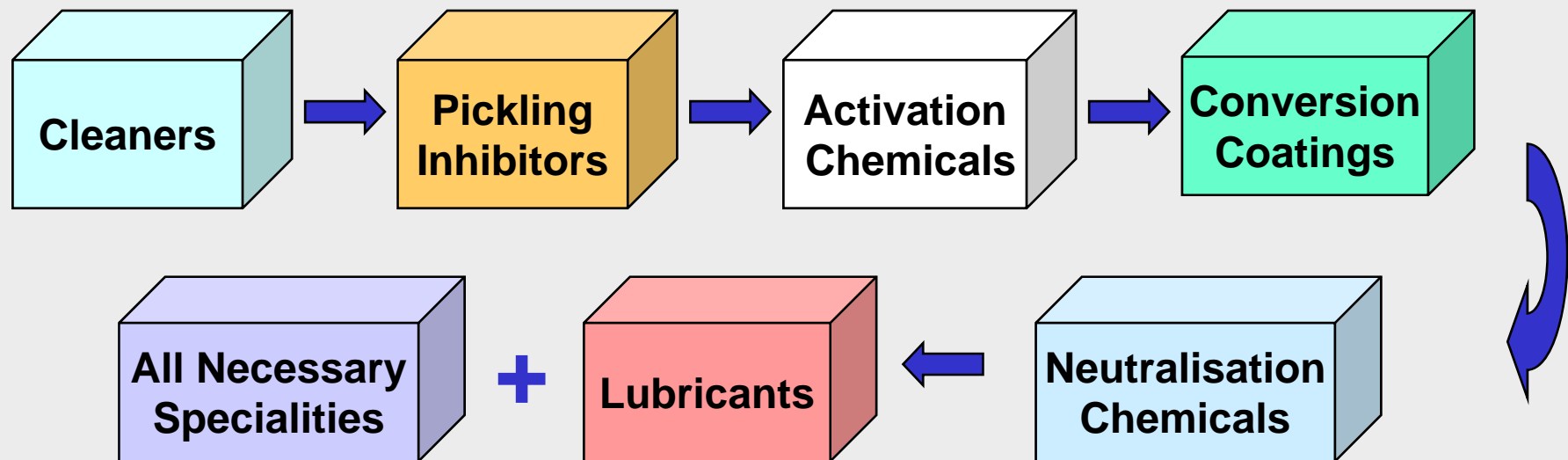
- Be it in wire drawing, tube production, sheet forming or in the manufacture of extruded parts, the use of state-of-the-art pre-treatment technology plays an evermore crucial role to achieve consistent high quality finished product, improved productivity and reduced cost.

STRIZING Surface Treatment Business Unit



Cold Forming *(cont'd)*

Product Lines:



- We offer our cold forming customers a broad range of chemical products for each step in their manufacture. Tailored to their specific needs, based on the requirements of the industry.

STRIZING Surface Treatment Business Unit



Aerospace Component



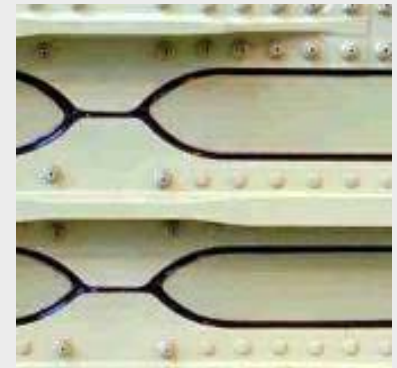
Overhaul



Cleaning



NDT



Sealants

- **STRIZING is a unique one-stop supplier of chemical products to the aviation industry.**
- **STRIZING products are specified and approved for airframe and aero-engine, for use in manufacture, repair, overhaul and line maintenance.**



General Industry

Appliance Applications:

Strizing is recognised as a strong partner by its customers in the Appliance industry. Products have been developed for a broad range of applications, e.g. for white goods and small appliances (brown goods).

- Refrigerators
- Freezers
- Dishwashers
- Microwaves
- Washers
- Dryers
- Ranges





General Industry *(cont'd)*

HVAC:

Our work begins when customers buy their steel coil. We are not only able to reduce costs by providing efficient conversion coating processes but also by providing additional 'state-of-the-art' speciality chemical products ranging from lubricants to waste water treatments and, if required, full chemical management.

- Radiators
- Air Purifiers
- Compressors





General Industry *(cont'd)*

Wheels for Cars, Trucks and Motorcycles:

Working hand in hand with wheel producers and platers, STRIZING strives to continuously improve and expand the quality and productivity of its wheel customers through continuous support in production, quality control and chemical management processes.



- **Diamond Turned**
- **Cast**
- **Polished**
- **Forged**



STRIZING Surface Treatment Business Unit



General Industry *(cont'd)*

Heavy Equipment:



Off – Road Vehicles

- **Wheel and Crawler Loaders**
- **Scrapers**
- **Off-Road Trucks**
- **Road Maintenance Machinery**

Construction Equipment

- **Mining and Quarrying**
- **Bulldozers**
- **Dumper Trucks**
- **Excavators**

Agricultural Equipment

- **Tractors and Trailers**
- **Grass Cutting Equipment**
- **Turf Care**
- **Combine & Harvesting Equipment**

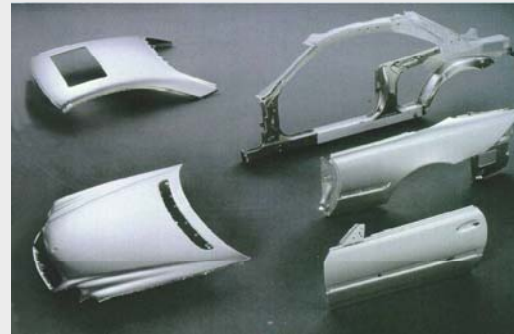
Industrial

- **Material Handling Equipment**
- **Telescopic Cranes and Platforms**
- **Forklift Trucks**



General Industry - Aluminium Applications

- Aerospace
- Auto Body Panels
- Packaging
- Coil
- Cold Forming
- General Industry
- Auto Components
- Architecture
- Wheels
- Cans



STRIZING is a recognised leader in the supply of specialty chemistries for the pre-treatment of aluminium, magnesium and other lightweight metals and alloys.



General Industry - Architectural Aluminium

Aluminium profiles and sheets for outdoor and indoor applications.



- **Our products meet the most stringent demands of the building, construction and design industries. We supply environmentally friendly technologies such as chromium-free processes and biodegradable cleaners.**

Vci Technology

กลุ่มลูกค้าที่ใช้งานผลิตภัณฑ์กระดาศกันสนิม

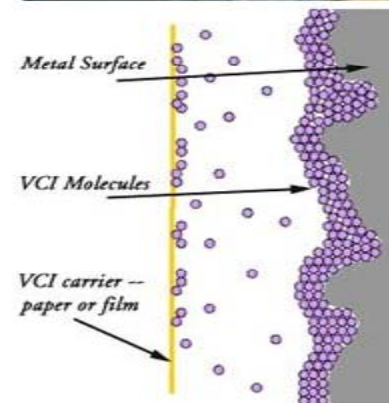
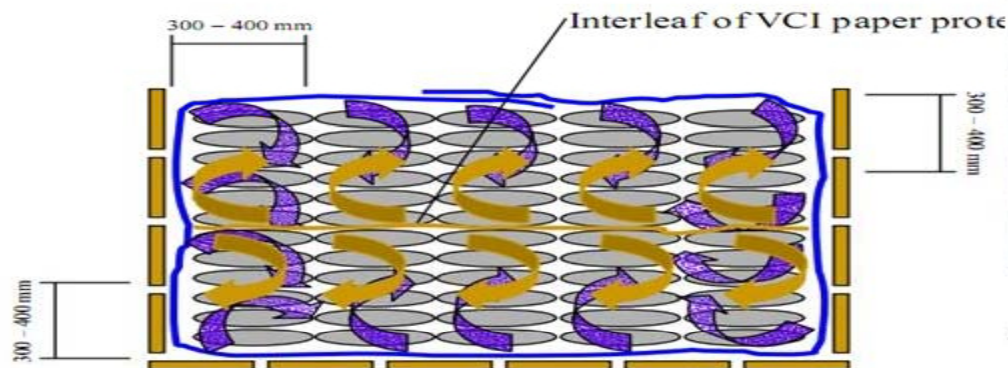
ผู้ผลิตชิ้นส่วนโลหะ เช่น อะไหล่รถยนต์ ชิ้นส่วนเครื่องจักร เหล็กม้วน และโลหะภัณฑ์อื่นๆ



Vci Technology (cont'd)

How VCI Works

Packaging Design Considerations



STRIZING Jobbing business surface treatment service



Phosphate Treatmet : Phosphate is a metal conversion coating process. There are many kinds of such as Zinc phosphate, Zinc calcium phosphate, manganese phosphate. We apply phosphate coating on many applications.

Parlube Treatments : process is STRIZING company's trademark for an comprehensive solid lubrication treatment system.

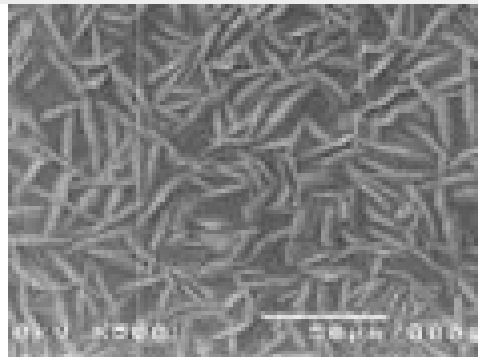
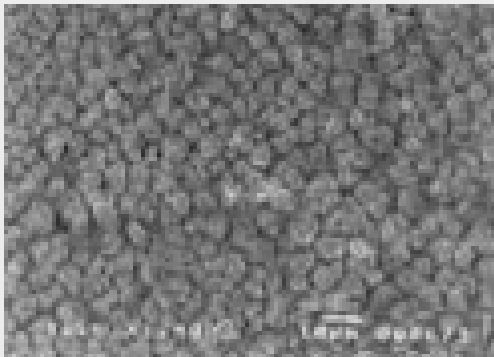


STRIZING Jobbing business surface treatment service

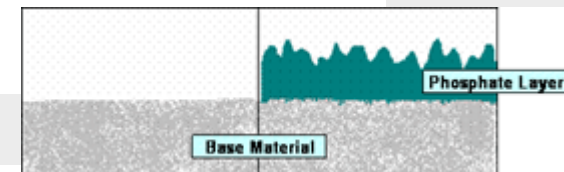


Phosphate Treatment : (cont'd)

Phosphate is a metal conversion coating process. There are many kinds of such as Zinc phosphate, Zinc calcium phosphate, manganese phosphate. We apply phosphate coating on many applications such as Anti-corrosion, Based for organic coating, Anti-seizer for cold forming, Wear resistance. After surface cleaning by suitable technique, metal will be reacted by Phosphate chemical and generate an even crystal of the phosphate compound. Aluminum surface can also be coated by Non-chrome or Tri-valent chrome chemical.



SEM image of Phosphate coating



STRIZING Jobbing business surface treatment service



Phosphate Treatment : (cont'd)

Type of Process Service

Zinc Phosphate

Application

- Corrosion resistance.
- Use in adhesion rubber and plastic.
- Base for paint.

Zinc-Calcium Phosphate

Application

- Apply on part working in high temperature such as Engine part, Washer, Spring (Panel Assy).

Aluminum (Corrosion Coating)

Application

- Suitable for Aluminum material
- Anti-corrosion resistance coating and paint based for Aluminum.
- Non Cr or Cr3+ can be selected.

Zinc Phosphate + Soap Lubricants

Application

- Longer die life.
- Anti-seizure for cold forming part.

Manganese Phosphate

Application

- Excellent in wear resistance. Such as gear, pistons, cam etc.
- Corrosion resistance.



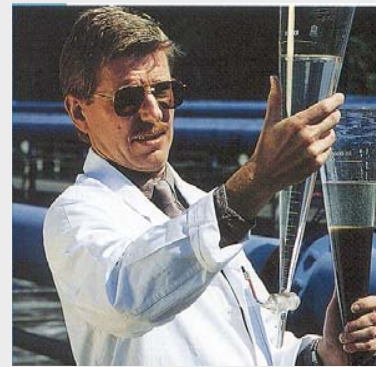
STRIZING Surface Treatment Business Unit



Process Management



Equipment Cleaning



Waste Management



Chemical Management

- the service organisation within the STRIZING, is an experienced and reliable service partner for the automotive and metalworking industries in the field of chemical service.
- Services include consultation, product supply and maintenance cleaning of production installations e.g. for spray booths and other paint shop equipment.



Analytical

STRIZING analytical laboratory is specialized in the fields of surface technology, polymers and fine chemicals (in particular lithium and cesium chemistry).

We support our customers with

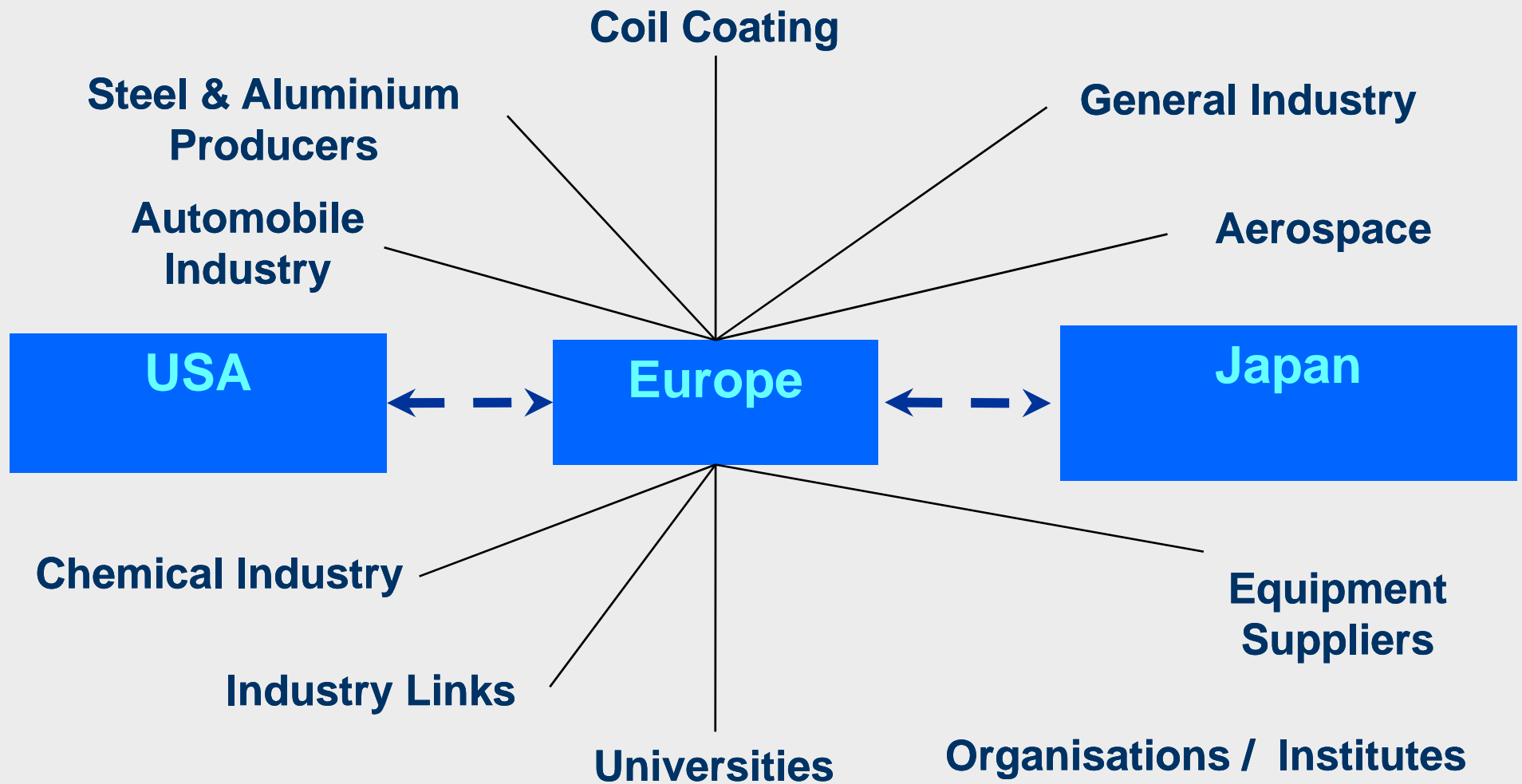
- Analytical support during the R&D phase of products
- Consulting and training
- Examination and surface analysis of produced parts
- Qualitative and quantitative analyses of individual and serial bath samples
- Selection and drafting of analytical methods for external laboratories
- Development of procedures for laboratories and production quality control



STRIZING Surface Treatment Business Unit



R&D



STRIZING Surface Treatment Business Unit



R&D (cont'd)



Spray Coat Application



Outdoor Exposure



Salt Spray Test



Coil Coat Application



ED-Coat Application



Test Panel Production



Powder Coat Application



X-Ray Fluorescence



SEM/EDX-Analysis



Microprobe Analysis



Ion Chromatography

STRIZING Surface Treatment Business Unit



Some of Our Customers of 495 cases.



FUJI xerox



OSRAM



WHY CHOOSE SGS AS PARTNER? / ทำไมถึงควรเลือก

บริษัท เอส.ที.ไรซิง จำกัด เป็นพันธมิตรทางธุรกิจ



- ✓ ได้รับการรับรองระบบมาตรฐานสากลด้านคุณภาพ ISO 9001:2000
- ✓ กำลังจัดทำระบบการจัดการสิ่งแวดล้อม ISO 14001:2004
- ✓ กำลังจัดทำระบบการจัดการอาชีวอนามัยและความปลอดภัย OHSAS18001:2007
- ✓ กำลังจัดทำระบบการจัดการอาชีวอนามัยและความปลอดภัย มอก 18001
- ✓ มีการดำเนินงาน โดยยึดหลักของความรับผิดชอบต่อสังคม CSR-DIW
- ✓ มีผู้บริหารและบุคลากรที่มีประสบการณ์ด้านเคมีเตรียมผิวโลหะมากกว่า 11 ปี
- ✓ มีผลิตภัณฑ์ที่ตอบสนองรองรับอุตสาหกรรมโลหะได้ครอบคลุมทุกความต้องการ
- ✓ มีผลิตภัณฑ์ที่เข้มข้นประหยัด เป็นสูตรของเยอรมันและญี่ปุ่น
- ✓ มีบริการหลังการขาย และจัดฝึกอบรมให้ความรู้เพื่อเพิ่มประสิทธิภาพการทำงาน
- ✓ มีระบบช่วยออกแบบระบบการผลิตที่เป็นมาตรฐานสากล

WHY CHOOSE SGS AS PARTNER? / ทำไมถึงควรเลือก

บริษัท เอส.ที.ไรซิง จำกัด เป็นพันธมิตรทางธุรกิจ



- ✓ ส่งมอบสินค้าได้รวดเร็วภายใน (กรุงเทพ-ปริมณฑล 1-2 วัน)
- ✓ ใช้วัตถุดิบที่ปลอดภัยจากสารต้องห้ามตามข้อกำหนด SoC & RoHS
- ✓ มีการใช้ระบบการบริหารลูกค้าสัมพันธ์ (Customer Relation Management) CRM
- ✓ มีการใช้เครื่องจักรที่ทันสมัยในระบบกระบวนการผลิต
- ✓ มีการใช้ระบบบริหารทรัพยากรขององค์กร (Enterprise Resource Planning) ERP
- ✓ เป็นบริษัทที่กำลังขยายธุรกิจออกสู่ประชาคมประชาคมเศรษฐกิจอาเซียน **AEC**
- ✓ มีการประชาสัมพันธ์สินค้าในงาน Manufacturing ,Metalex Thai-Vietnam
- ✓ ได้รับการส่งเสริมจากหน่วยงานภาครัฐ เช่น บีโอไอ,สนช,กรมส่งเสริมอุตสาหกรรม
- ✓ ได้รับการสนับสนุนจากสถาบันการเงิน

อะไรที่จะช่วยให้ท่าน**แตกต่าง**จากองค์กรอื่นๆ
แนวทางการดำเนินงานที่ช่วยพัฒนา ขั้นตอนการดำเนินงาน ระบบงาน และบุคลากร

WHAT SETS YOU
APART
FROM ALL THE REST ?

SOLUTIONS THAT IMPROVE PROCESSES, SYSTEMS AND PEOPLE

ในโลกที่สินค้าและบริการเริ่มคล้ายคลึงกัน **ขั้นตอนและระบบ** เป็นสิ่งที่จะช่วยผลักดันให้เกิดความ**แตกต่างอย่างแท้จริง**และช่วยให้เกิดข้อได้เปรียบทางการแข่งขัน

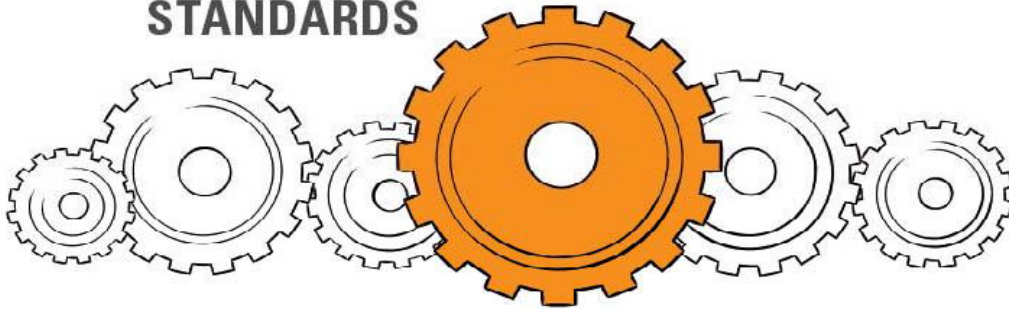
**IN A WORLD WHERE
COMPETING PRODUCTS AND
SERVICES BEGIN TO LOOK THE
SAME, IT'S THE PROCESSES
AND SYSTEMS BEHIND
THEM THAT MAKE THE
REAL DIFFERENCE AND DELIVER
COMPETITIVE ADVANTAGE**

เราช่วยให้ลูกค้าของเราพัฒนา



OUR IMPROVEMENT SOLUTIONS

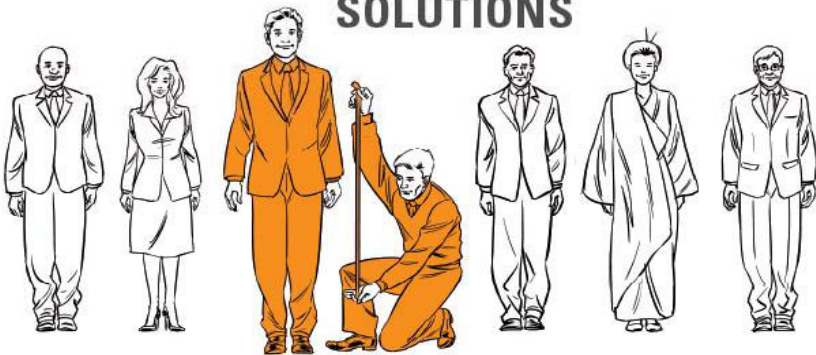
GENERIC STANDARDS



INDUSTRY STANDARDS



CUSTOMISED SOLUTIONS



TRAINING SERVICES



STRIZING Surface Treatment Business Unit



- HEAD OFFICE
& SURFACE TREATMENT FACTORY
CHEMICAL FACTORY
TECHNICAL CENTER

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