The Jacobi Group was founded in Sweden in 1916 by Ferdinand Adolph Wilhelm Jacobi. Over the years the company has grown into one of the world’s largest manufacturers of activated carbons for a wide array of applications. Today the Jacobi Group consists of three divisions, and is a proud member of the Osaka Gas Chemicals Group.

The Jacobi Group is involved with production and all aspects, from innovation and best practice to customer focus and comprehensive process control. We are conscious of regulatory issues and are highly sensitive to the requirements of a changing market and our customer’s need to shift perspective from ROI to environmental concerns. Through our partnerships and industry participation we play an active role in shaping the future along with our customers.

Our dedicated affiliates from around the world share one mission: To be the best value activated carbon provider and to offer our customers unrivaled technical and customer service.
The Focused Company

ENCOUNTER WITH ACTIVATED CARBON USED FOR EMISSION CONTROL AND ALSO FOR REMOVING RECOVERED SOLVENT FROM THE DRY CLEANING PROCESS.

1965 ENTERS THE ACTIVATED CARBON BUSINESS AS A DISTRIBUTION PARTNER FOR BAYER IN GERMANY. FIRST ENCOUNTER WITH ACTIVATED CARBON USED FOR EMISSION CONTROL AND ALSO FOR REMOVING RECOVERED SOLVENT FROM THE DRY CLEANING PROCESS.

WITH 100 YEARS in business, Jacobi has developed the technical expertise and knowledge to understand the difficult challenges our customers face on a daily basis.

Our collective company-wide IT platforms create a shared framework that helps us seize opportunities related to the achievement of our customer’s objectives. Our cross functional, matrix type organisation, allows us to best utilise our resources and optimise our customer relations, technical support, accounting and sales activities. Understanding the customer/provider interface is facilitated by our own in-house marketing and IT management teams that lets us remain focused on the business.

Jacobi’s large R&D facility is a part of the OGC facilities in Osaka, Japan and continually creates customer-based solutions with the help of our engineering and process application groups. Custom solutions are commonplace at Jacobi and we welcome any challenge. Our dedicated team of experts are already working on the next generation of products.

Quality is not just an idea for Jacobi, it is the fundamental basis of all we do. Every grain of carbon has to meet the customer’s needs.

Jacobi listens to our customers to ensure that every aspect of their requirements are met, everytime.

With the industry’s largest research department, Jacobi is at the forefront of carbon product innovation.

Responsibly motivated employees make all the difference.

QUALITY IS NOT JUST AN IDEA FOR JACOBI, IT IS THE FUNDAMENTAL BASIS OF ALL WE DO. EVERY GRAIN OF CARBON HAS TO MEET THE CUSTOMER’S NEEDS.

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AS A GLOBAL COMPANY, Jacobi is highly conscious of our social responsibilities regarding welfare and rights of employees and stakeholders alike. This extends to considerations for working conditions and standards in the developing countries we operate in.

Jacobi's team of specialists have over 20 years’ experience in environmental sustainability and are certified to all environmental standards including ISO14001:2013. Customised solutions, superior know how and reliable services allow our customers to meet their goals while maintaining a sustainable profile.

Using sustainable raw materials, such as coconut shells and wood, are of utmost importance for Jacobi. At the same time our R&D department is constantly working to develop alternatives to non-sustainable raw materials. We also understand and strive to minimise the impact of CO₂ emissions that our operations can create.

Maximum utilization is also important, as is keeping waste to a minimum. We effectively reuse resources like water, steam and generated heat to a great extent. Exhausted activated carbon can be recycled, and we provide cost effective and environmentally sensitive reactivation services.

Our factories employ system to recover energy and water for use and reuse. This provides utility services and protects the environment.

Coconuts provide a truly sustainable and carbon neutral activated carbon and this is where Jacobi leads.

Economically sound and environmentally responsible recycling of activated carbon.

Twenty years of responsible, sustainable thinking keeps Jacobi at the leading edge.
The Carbon Company

CARBON IS THE MOST abundant element on earth. Also, it is Jacobi’s specialty; our “bread and butter”. We know activated carbon and how to select the correct raw materials that will produce the most suitable end products for specific application demands.

Jacobi carefully selects the highest quality coconut shell, coal and wood. These raw materials are processed at high temperatures to remove the naturally volatile components and to create the characteristic porous nature that activated carbon is known for. The skilled control of the manufacturing parameters is second nature to Jacobi, allowing our products to out-perform those of our competitors.

Making activated carbon from coconut shells requires the input of many people, and our skilled teams across the world are proud of our achievements.

From humble raw materials to a highly technical adsorbent, Jacobi manages to create one of the most versatile products available today.
OUR DIVERSE OFFERING includes carbons produced from lignite, bituminous and anthracite coals. We produce double the amount of activated carbon from coconut shells than any other supplier. The end products come in various application forms including powdered, granulated and extruded.

Some of the key factors in choosing the right activated carbon is the degree of purity, adsorption efficiency and capacity along with other individual qualities like microporosity, mesoporosity, macroporosity and ash content. Jacobi produces high quality activated carbons from a wide range of raw materials.

In line with Jacobi’s aim of providing ecologically sustainable options to all our customers, all of our packaging materials are suitable for recycling.
PROVEN MANUFACTURING TECHNOLOGY is used in combination with technically advanced processing techniques to produce Resinex™ ion exchange resins for use in a wide range of applications.

• Water softening
• Water purification
• High purity water
• Decarbonization

• Catalyst
• Decolorization
• Desalination
• Dealkalinization

• Removal of contaminants in activate, waste water treatment
• Steam condensate polishing
• Activated mud treatment

• Food processing
• Ultra pure water production
• Removal of chlorine, bromine and chlorates

Resinex™ is a line of ion exchange resins designed to ensure the consistent high water quality required in today’s industrial manufacturing processes, from water purification to the development of chemical and pharmaceutical products. Proven to have minimal effect on the treated liquid, either in terms of organic leaching or bacteriologically.

Jacobi supplies a broad range of high quality ion exchange resins worldwide to cover all the most important applications in water and wastewater treatment. The highest quality raw materials are used to manufacture Resinex™ and every stage of the production is closely monitored.

Many industrial manufacturing plants operate high pressure steam boilers for power generation and other applications. The quality of the feed water required for high pressure steam boilers is critical and requires stringent control. Resinex™ ion exchange resins may be installed in filter operations as the principal treatment stage, or form part of a multi-stage water treatment facility.

Jacobi Resinex is a division of the group dedicated to ion exchange resin technology and products.

Ion exchange resin help to purify the water we drink and aid for the generation of energy. Without the Resinex™ products, the minerals present in water would be unacceptable or cause damage to expensive equipment.
PROVIDING THE HIGHEST quality activated carbon and ion exchange resins to our customers is not the only thing we do well. We also have a full range of related services, from modular filtration units to carbon exchange and reactivation, that meet and exceed the demands of the many different industries we serve.

Dealing with spent carbon requires complex handling, and regulatory compliance, while ensuring minimum downtime. Our highly trained experts can handle the entire process – from removal, packaging, transportation and disposal to replacement with reactivated or fresh carbon.

Recycling is a responsible method for reducing CO₂ emissions. Jacobi places high importance on the environment and has invested in facilities that will regenerate activated carbon while considering the environment. Our reactivation plants allow an effective option to media replacement.

When removal and exchange of spent activated carbon is required, our modular filter units AquaFlow™ and EcoFlow™ provide great flexibility. These units reduce capital outlay and are available on a purchase or rental basis. Our Resinex™ ion exchange services include media removal and placement as well as in-service testing.

Jacobi has the equipment, experience and expertise to ensure maximum effectiveness and return on investment.

Recycled or regenerated activated carbon can be a cost effective answer.

Close control of logistics operations, and using dedicated vehicles makes Jacobi a market leading service provider.

EXPANDED ANNUAL CAPACITY TO 9,000 MT IN SRI LANKA. 2009 NEW COCONUT SHELL CARBON PLANT IN COIMBATORE, INDIA. THE WORLD’S LARGEST WITH ANNUAL CAPACITY OF 16,000 MT. ESTABLISHES OPERATIONS OUTSIDE BERLIN PROVIDING REACTIVATION SERVICES IN GERMANY. 2011 JACOBI ACQUIRES PICA SASU FROM VEOLIA GROUP WITH MANUFACTURING DIVISION SERVICES.
GLOBAL PRESENCE WITH A LOCAL TOUCH
With manufacturing hubs on three continents and sales offices on four, Jacobi Carbons is a truly global company. However, our philosophy has always been to think global and act local. Our network of authorised representatives are experts in their territory and can provide support and local knowledge to serve our customers individual needs.
The Versatile Company

ACTIVATED CARBONS in their various forms are used in many diverse markets. Jacobi makes a substantial effort to know the inner workings of every market, and how to provide the most suitable solutions for our customers.

AIR & GAS
The use of activated carbon for the purification of air is widespread. Originally used in industrial equipment for regulatory compliance of emissions the recovery of solvents has been both an environmental and economic benefit to a variety of industries. Through the use in clean rooms, for whole building filtration and now in the growing sector of home air filtration (HAF), Jacobi has been a leader in provision of clean air. Similarly, our activated carbon products both purify and separate critical gases, such as CO₂, H₂, O₂ and CH₄.

AUTOMOTIVE
The ultra-competitive vehicle manufacturing market poses a variety of challenges for this dynamic industry. Stringent emission regulations require efficient removal of volatile organic compounds from the vehicle. Fuel mileage standards mean weight must be minimized, which impacts on how air and fuel filters are designed. Activated carbon plays an important role in the filtration systems of almost all motor vehicles.

FLUE GAS & MERCURY
It is common practice to use incineration methods for waste disposal in many industrialised countries. If correctly done, there are opportunities to recover energy from this process. However, operating an incinerator requires strict adherence to environmental regulations. Jacobi has a line of specially designed activated carbon that effectively absorbs unwanted compounds from flue gases.

FOOD & BEVERAGE
In the food and beverage industry it is very important to be able to deal with unwanted impurities that require removal. Beverage producers especially need to maintain high water purity levels and sometimes water from local sources needs treatment before use. Public health and safety is at the top of the list. Jacobi has activated carbons with a diverse range of pore properties that are ideal for adsorption of numerous unwanted chemical compounds.

REORGANISES THE RESINEX™ DIVISION TO ENHANCE QUALITY AND DELIVERIES OF HIGH PERFORMANCE ION EXCHANGE RESINS.
2012
DEVELOPS PETROSORB™ TO SERVE THE OIL AND GAS INDUSTRIES FOR TREATMENT OF LIQUID AND GAS STREAMS IN THE REFINING AND DOWNSTREAM PROCESSES.
2014
JACOBI IS ACQUIRED BY OSAKA GAS CHEMICALS CO, A WHOLLY
Pharmaceutical & Medicinal
Activated carbons can be incorporated into medicinal products that act as aids to digestion and relieve the symptoms of cholestasis. They are also used in abdominal radiography procedures and during blood dialysis to absorb insim and potentially life threatening contaminations. Carbons are included in certain over the counter stomach remedies and in veterinary medicine. For pharmaceuticals, activated carbons can eliminate unwanted by-products without chemical modification. Purity and performance are key factors.

Supercapacitors
Today’s society demands more electrical power for a huge array of applications. Simultaneously, energy storage has become more problematic, especially when it comes to short term accumulation for immediate and rapid reuse. Supercapacitors are able to supply peak bursts of power for many applications when required and are able to recharge quickly. Activated carbon plays an important role in this process enabling stored energy to discharge without significant power loss, and restoring optimal capacity to the supercapacitor cell.

Tobacco
Tobacco users are highly selective when it comes to taste and odour, and the tobacco industry modifies these sensory perceptions by using activated carbon in their delivery devices. Activated carbon is the principal means of providing respiratory protection for military and police applications. And they are also used in the nuclear industry to guard against radioactive iodine compounds and other toxic gases.

Personal Protection
Working in hazardous environments requires personal protection equipment to ensure worker’s safety. Removing airborne contaminants becomes more complicated when required to meet technical challenges and navigating complicated health and safety regulations. Protection from chemical, biological and radiological materials is required and efforts from toxic industrial chemicals are increasingly monitored. Activated carbon is the principal means of providing respiratory protection for military and police applications. And they are also used in the nuclear industry to guard against radioactive iodine compounds and other toxic gases.

Water Treatment
The need for pure, clear water will never cease and the demand grows every day. Stringent water quality regulations and further challenges to manage possible contaminants in drinking water supplies. For a long time, activated carbons have been used to provide cleaner water, and the surrounding technology continues to develop. From purification of municipal water, effluent water treatment, providing clean feed water for industry to filters for home aquariums, swimming pools and more, Jacobi has the activated carbon solutions to handle any application.
**STANDARD PRODUCTS**

- **AddSorb™**
  - Product line providing specialised high performance impregnated activated carbons.

- **AquaSorb™**
  - Activated carbons for water treatment.

- **ColorSorb™**
  - Activated carbons for highly effective decolourisation for food, chemical and pharmaceutical products.

- **EcoSorb™**
  - A range of air and gas filtration products, including a specific line of activated carbons for flue gas treatment.

- **Resinex™**
  - A complementary and stand-alone treatment media for ion exchange processes in water and food applications.

- **Actitex™**
  - A novel adsorbent based on an activated carbon fibre media for gas and water filtration purposes, offered in either a felt or cloth form.

- **EcoSorb QS-Advanta™**
  - Unique liquid treatment for the removal of toxic mercury. Ensures compliance with current and proposed standards.

- **PetroSorb™**
  - Activated carbons specially designed for treatment of liquid and gas streams in the extraction, refining and downstream processes.

- **GoldSorb™/Picagold™**
  - Integration of the industry-leading Picagold™ precious metal recovery carbons with high performance GoldSorb™.

- **Reactivated Carbon**
  - Environmentally responsible and cost effective carbon reactivation services utilizing high temperature furnaces can greatly reduce CO2 footprint of treatment processes.

**SPECIAL PRODUCTS**

- **JACOBI IS PROUD**
  - to offer the broadest line of activated carbons in the industry, with hundreds of standard products in granular, powdered, and extruded forms, made from diverse raw materials including coconut shell, various grades of coal, and wood.

- **The Complete Company**

- **AquaFlow™/EcoFlow™**
  - Modular filter units offering an easy to use solution for remediation, treatment and purification of water.
Jacobi Carbons has developed the most diverse production base in the industry with manufacturing plants, reactivation plants and sales offices located in 19 countries around the world.