

Stronger Together

Designing and Manufacturing Composite Solutions
for Industrial Applications

The future belongs to composites



The advanced solutions of tomorrow are made of composites. The rigid and lightweight properties of composite materials have proven their superior performance in demanding environments.

Our objective at Exel Composites is to design and manufacture products that give our customers a leading position in their businesses.



A new era of applications

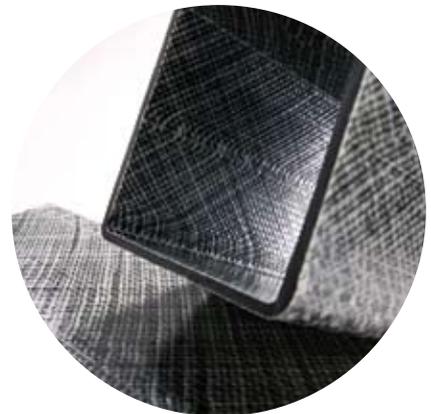
Exel Composites specializes in composite technology. Our operations include design, manufacturing and marketing of advanced composite solutions for industrial applications. We offer a wide range of products – from standard shapes to the most challenging solutions, including custom fabrication and installation.

Excellency in composites

Exel Composites is a global composite manufacturer using pultrusion technology with manufacturing sites in seven countries. Exel's share is listed in the Small Cap segment of the OMX Exchanges/ Helsinki Nordic list. We have developed thousands of carbon and glassfibre profiles for our customers worldwide, with solutions based on our focused product development. New areas for applications are rapidly emerging – thanks to the many advantages the composite materials offer.

Respecting the customer needs

All our products are designed and developed in close co-operation with our customers; meeting and exceeding the customer requirements and expectations. Our main business segments include Building, Construction and Infrastructure, Transportation, Energy, Paper and Electrical Industries, Telecommunication, Cleaning and Maintenance, Sports and Leisure as well as Machine and General Industries. Applications range from heavy duty industry access structures and water treatment equipment to light weight weaving machine parts and robotics.

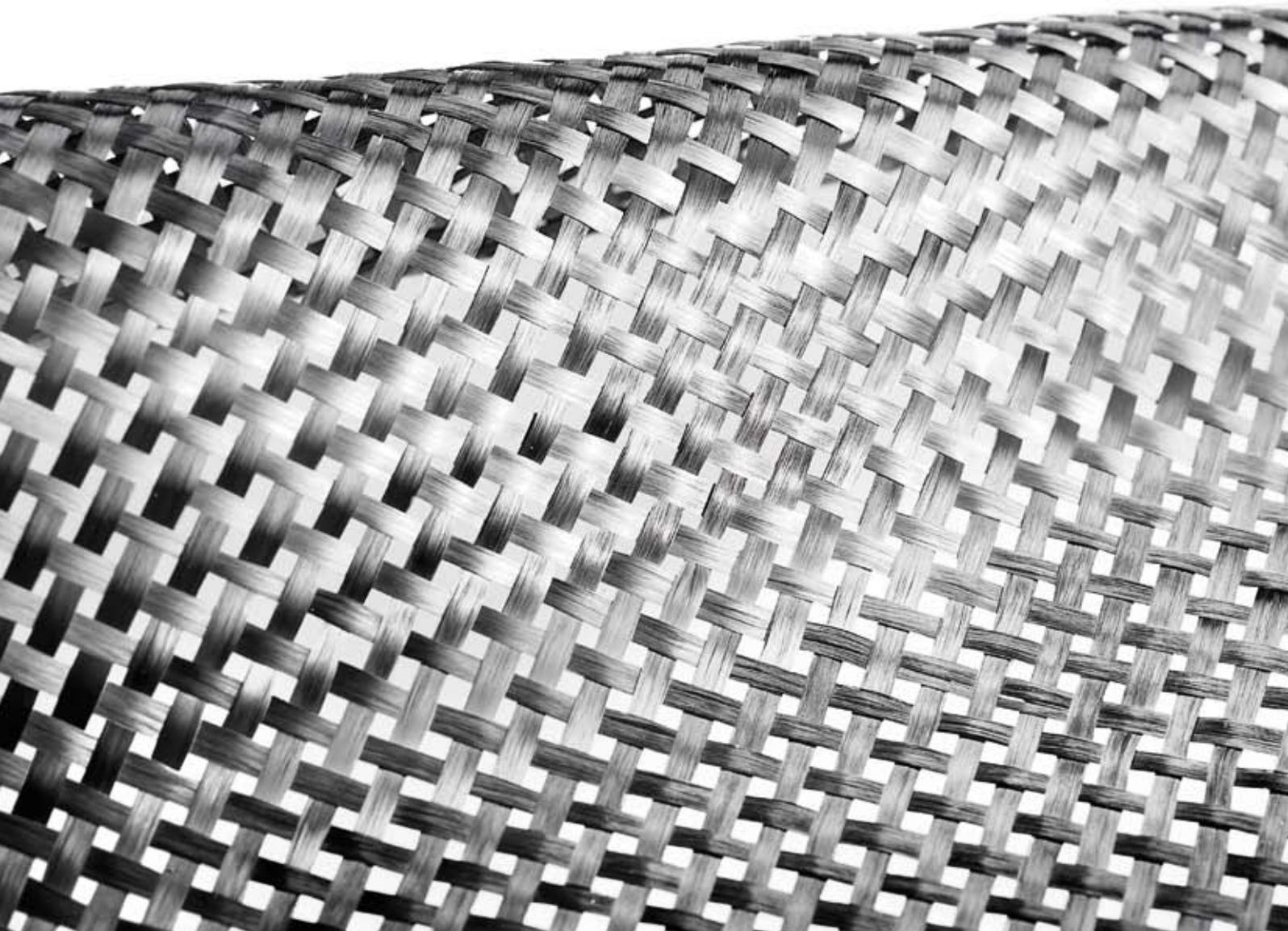


The use of composites allows the design and tailoring of end products to suit the varying final applications.



The structure is everything

Specific combinations of fibres and resin systems give the product the unique properties such as strength, stiffness and low weight that can not be achieved with any other material.



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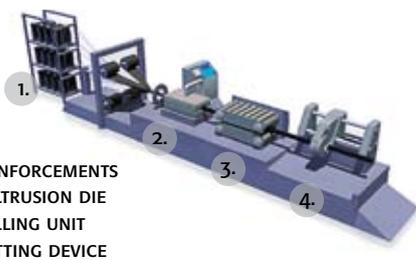
Carbon fibres, glassfibres and resins offer only limited benefits on their own right – but when combined, they result in superior product features. The fibres form the structural element of the product. The resin bonds the fibres together and protects them from damage by transferring the stress among the fibres.

At Exel we utilize continuous fibres as the major reinforcement in the production process. Different resin systems are used to gain the final desired properties. A variety of other reinforcements can be added to meet specific parameters such as mats, woven fabrics, multiaxials and non-wovens.

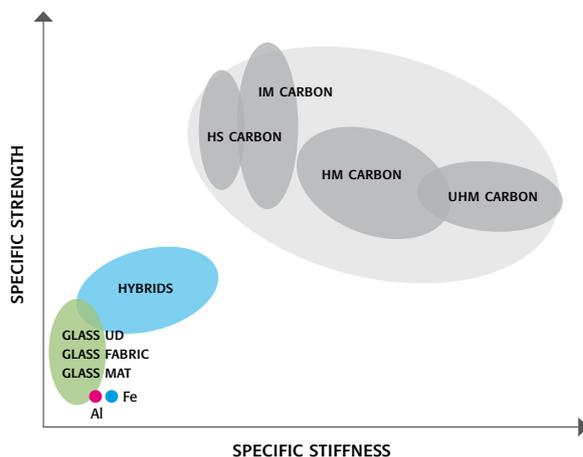


Strength and stiffness combined with light weight

Flexibility in design and various material combinations are the main advantages of composites over any conventional material. The structural possibilities are almost unlimited. Orientation of the fibres and fibre contents can be adjusted according to application. Special properties such as resistance to heat, fire, chemicals and weathering can be achieved by choosing the appropriate resin system, fibre types and surface treatment.



Exel's manufacturing techniques: pultrusion, pullwinding, co-winding, continuous lamination and pre-preg moulding.



Specific properties

Composites offer very good strength and stiffness values, especially in relation to their low weight. Therefore they are ideal for applications that are weight critical, such as machine parts or transportation and sports equipment.

Leading the way



Exel's strength lies in our global ability to serve our customers locally and flexibly. We focus on developing advanced solutions for chosen market segments, where our many years of experience serves the benefit of our customers.

Advanced solutions for telecommunication

Composite radomes with their high strength, transparency to electromagnetic waves and integrated functions are the best choice for mobile phone base stations all over the world.

Lasting materials for transportation industry

Pultruded profiles offer the possibility to integrate several functions in one profile. This feature, combined with low weight enables reduced fuel consumption and provides significant cost savings for the transportation industry. Exel manufactures a wide range of high quality, corrosion resistant profiles for buses, coaches, trains, trams and refrigerated trucks.

New solutions for energy industry

The search to provide new forms of environmentally friendly and cost effective solutions for the energy sector is expanding rapidly on a global scale. Wind, solar and thermal industries are growing fast to become major end users of composite materials.

Long life in building, construction and infrastructure

The products in building, construction and infrastructure are exposed to ever changing, highly demanding environmental conditions where the traditional materials will not always meet the extended life cycle criteria. By introducing maintenance free, chemical and weather resistant composite materials, the long service life and ease of assembly offer a cost-effective alternative.

Insulating solutions for electrical industry

Due to the composites' excellent insulating properties, their application areas in the electrical industry are numerous. Fine examples are composite rod insulators for overhead transmission lines and insulating components for electrical machines, insulating tool handles and insulating ladder profiles.

Traditionally strong in composite sporting goods

We manufacture tubes for cross-country and alpine skiing poles, windsurfing masts and floorball shafts. We also provide tubes and profiles for a wide variety of customer applications including archery, caravan awnings, kiting, bicycles and canoeing.

Toolhandles and telescopes for situations beyond normal reach

Our wide range of telescopic systems has applications from testing and measuring equipment to high reach window cleaning, painting and tree pruning. Exel Composites is the only company currently offering a ten section telescopic pole capable of extension to twenty metres. In addition to our standard range of telescopic poles, we also have the flexibility in production and assembly to brand poles to individual companies.



High-performance solutions for machine industry

The challenges in the machine industry often involve light weight components and requirements for high stiffness and strength. Typical such applications are fast moving machine parts and robotics, where composites show good wearing and damping properties. Furthermore, low thermal expansion makes them extremely attractive alternatives for material in testing and measurement equipment.



Paper industry

At Exel, we have many years of experience with composites in paper industry applications. We developed the first composite fabric guiding poles and dewatering profiles. Paper machine parts demand extreme corrosion resistance, light weight and good wearing properties. We produce high performance composite profiles that meet the strictest of requirements in this industry.



Innovative solutions for you

If you dream of an application that utilizes composites in places where the stress is high, the environment harsh, and there is no time to lose – we can help you. How ever demanding your material requirement, Exel can offer an efficient, professional and long-term solution to your challenge with innovative composite combinations. We look forward to serving you.



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Exel Composites is a leading manufacturer of advanced composite products and solutions, meeting the requirements of environmental legislation, rules and regulations. We use only tested materials that are safe for the environment. Due to their long life and durability, composites always offer ecologically safe solutions. Exel is committed to develop the products and processes to reduce the environmental impact. The Exel quality and environmental policy complies with the requirements of the standards ISO 9001:2000 and ISO 14001.

ISO 9001
BUREAU VERITAS
Certification

