



SHAPE OF EXCELLENCE



Safety Glass

Wherever You move

Jaakko-Tuote Oy produces safety glass for various vehicles such as trains, trams, busses, coaches, agricultural machines, train cabins, ships and boats. Our products fit in surroundings that require a high level of safety. Our products are being used in numerous vehicles all over the world.



WE PRODUCE SAFETY GLASS

Basic idea of the company

Jaakko-Tuote Oy was founded in 1971 and has adapted a policy of a personal service to its customers. The long experience and high quality has made us one of the leading companies in the glass processing industry.

Jaakko-Tuote Oy has been able to specialize in several fields such as automotive, marine, railways, architectural, furnishing, etc.

Processing and applications

Jaakko-Tuote Oy offers glass solutions for the automotive, marine, railway and tram sector, always meeting the highest quality requirements demanded by national and international level. The production process of laminated and tempered glass in its multiple versions is highly specialized and according to customer's requirements.

Our CAD/CAM equipment for cutting and processing the glass allow endless possibilities to specific requirements, such as the manufacture of heated, tinted and custom-made safety glass. Silk-screen printing creates different patterns and logos on glass.

Finished products in various versions; flat, curved, laminated or tempered, single or double insulating panes meet the high mechanical strength and safety requirements.

Quality and testing

Vehicle glass manufactured by Jaakko-Tuote Oy is made of installation-ready parts that comply with the **ECE** and **AS** standards. Glass for marine industry comply with the quality requirements of the **ISO 614** standard.

Factory does have several testing equipment of its own which guarantee continuous high quality of the products. Such tests as;

- artificial head dropping equipment **ECE43R**
- optical distortion testing equipment **ECE43R**
- secondary image testing, windscreen optics **ECE43R**
- light transmission measuring equipment VTT **ECE43R**
- metal ball dropping equipment 2...7 m **ECE43R**
- metal ball dropping equipment 1,5...12,5 m **EN 356**
- metal ball dropping equipment 4 m **EN 14449**
- laminated glass, moisture test **EN 14449**
- train insulating glass, tightness testing equipment **UIC 566**
- railway rolling stock tempered testing equipment **NF F 31 129**

Besides the factory's own quality control, the quality is monitored among others by **the Eurofins Expert Services** and **the Finnish transport and Communications Agency (Traficom)**.

J-T safety glass applications

J-T windscreens are installation-ready parts manufactured according to customer requirements and design. J-T windscreens are normally manufactured from laminated glass.

J-T side glass is flat or curved and manufactured from tempered or laminated glass. It can also be manufactured as insulating glass, normally used as side glasses for busses and trams.

J-T safety glass can also be used in bus and railway carriage partitions, as well as in railings and other interior features.

J-T safety glass for machinery cabins is either laminated, tempered, or a combination of both. It can also be manufactured as insulating glass to provide excellent thermal insulation and protection from outside noise. Tempered glass is suited best for openable glass and emergency exit hatches, as well as places subject to torsional stress.

J-T safety glass for ships and boats can be laminated, tempered or a combination of both. 6 -19 mm tempered glass complies with the quality requirements of the **ISO 614** standard.

J-T safety glass is always manufactured according to the customer's drawings and specifications.



Tritium

- Curved laminated windscreen and backlite with screenprinting
- Curved laminated front quarter sidescreens with screenprinting
- Curved tempered sideglasses

WHEREVER YOU MOVE



VDL BRT

- Curved laminated windscreens and corner glass with heating and screenprinting
- Curved laminated destination glass with screenprinting
- Tempered double-glazed sideglass with screenprinting
- Tempered backlights with screenprinting
- Tempered interior glass with screenprinting



Auvetech – autonomous shuttle

- Laminated windscreens and backlights with screenprinting
- Tempered sideglass with screenprinting
- Tempered door glass



Sargo 31

- Tempered laminated windscreens with heating and screenprinting
- Tempered sideglass with screenprinting
- Tempered interior glass



Skoda Transtech Tram (Helsinki, line 15)

- Tempered double-glazed sideglass and doors with screenprinting
- Tempered laminated screenprinted interior glass



Skoda Transtech Railway ICS Wagon (VR)

- Tempered double-glazed sideglass with screenprinting and framework
- Tempered interior glass with screenprinting

Lännen Tractors – Lundberg 60-series

- Curved laminated windscreen and backlite with screenprinting
- Laminated roofglass with screenprinting
- Tempered sideglasses and doorglass with screenprinting

Icon of the Seas, Meyer Turku

- Tempered laminated railing, stairway and windscreen glasses

Jaakko-Tuote

Jaakko-Tuote Oy is a Finnish family business that designs, develops and manufactures high-quality safety glass products for demanding applications. We produce safety glass products for different applications, such as buildings, vehicles, machinery, ships, interior decoration and high-security environments. Safety glass products are manufactured according to the customer specification, using high-quality materials selected on the basis of a long user experience.

Jaakko-Tuote Oy also manufactures versatile high-quality steel profiles (roof and wall) and their supplementary products for various applications for the domestic markets.

Since its beginnings as a small company, Jaakko-Tuote Oy has gradually expanded its product range from traditional laminated safety glazing and glass machinery to today's demanding construction and vehicle glazing, as well as to the manufacture of roof and wall profiles and their supplementary products. The company employs approximately 140 employees and the production facilities cover appr. 36 000 m² of space. The safety glass products are exported European wide, mainly within EU countries. The company policy is based on customer-oriented service with flexibility and expertise from start to finish.

Vehicle glass

Jaakko-Tuote Oy manufactures safety glass for various vehicles, such as trains, trams, buses, agricultural machinery, ships and boats. We have been manufacturing laminated windshields for 50 years ever since the company was founded, and our products are used in numerous vehicles around the world.

The equipment we use for the manufacture and processing of glass enables endless possibilities, such as the manufacture of heated, tinted and custom-made glass. Silk-printing creates different patterns and logos on glass.

The safety glass for vehicles manufactured by Jaakko-Tuote Oy are ready-to-install parts that meet the requirements of the ECE and AS standards. In addition to our own quality control, the quality of our products is monitored by Eurofins Expert Services and the Finnish Transport and Communications Agency Traficom.

Jaakko-Tuote Oy is ISO 9001: 2015 certified by Eurofins Electric & Electronics Finland Oy, which covers the manufacture and sales of vehicle glasses and their spare parts.

We are known for being a reliable and trustworthy partner to our customers. We are constantly looking for new solutions in terms of process dynamics. Sustainability is a key driver in all our actions, and more energy efficient solutions are put in action throughout our operations. For example, since 2022 we have been part of RINKI (a producer community for wood packaging) to fulfill our responsibilities for wooden packaging.

Manufacturing and information

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