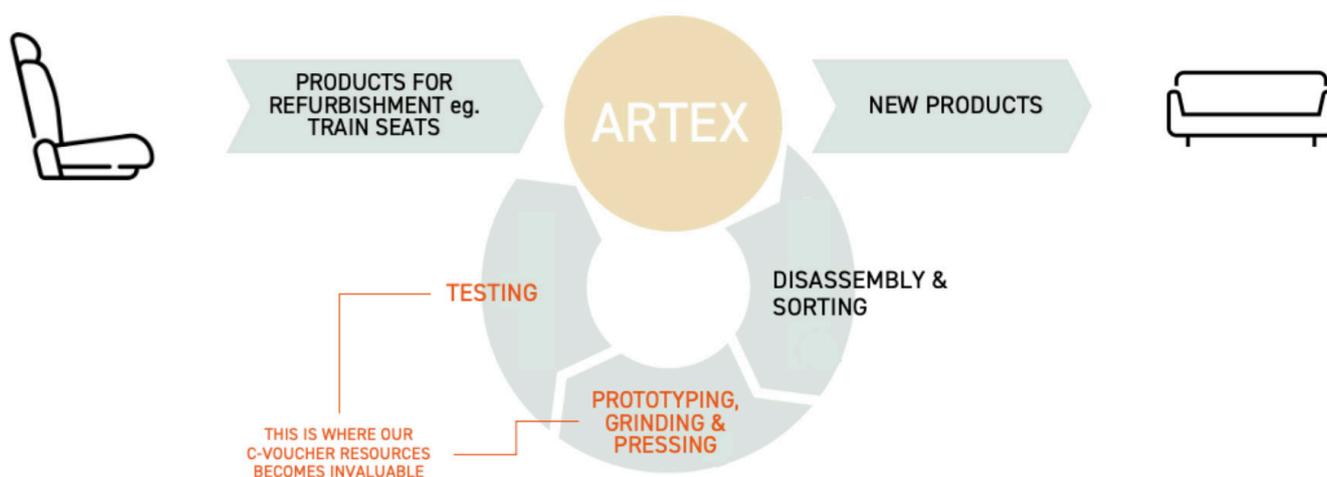


ARTEX

Refurbishing Train Seats and Repurposing the Waste Material – A Circular Economy Opportunity with a Double Win



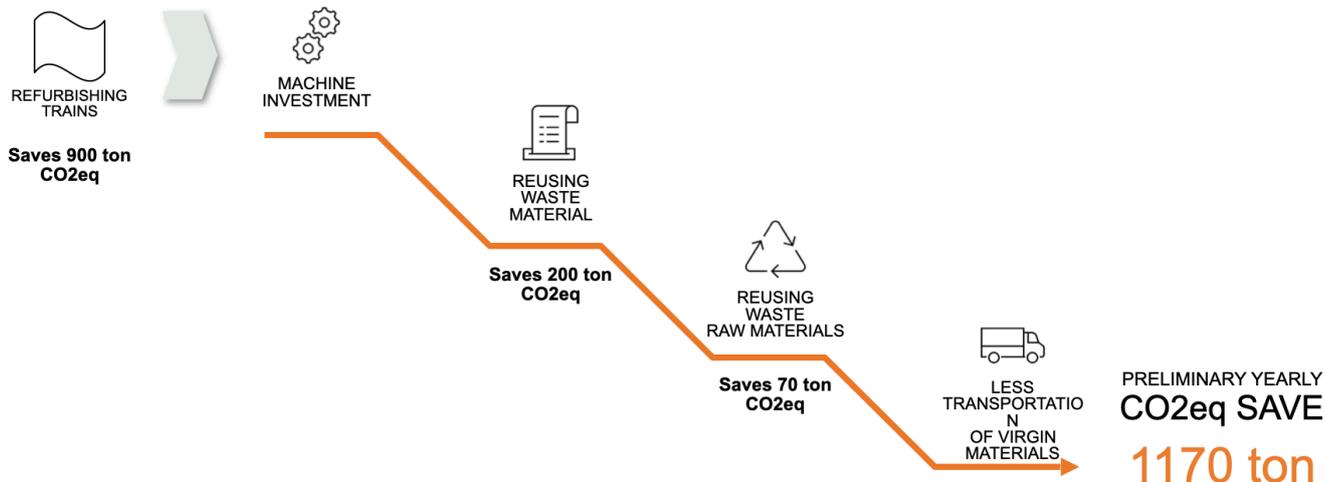
Artex is a Swedish textile company in the industrial sewing and upholstery industry. Focusing on the interior of trains, the company is committed to finding solutions contributing to a circular economy.

Refurbishment of train seats is a sustainable choice compared to discarding old seats and buying new ones – yet Artex has taken its offering further. The company is repurposing the waste material from the old seats, such as foam

and fabrics, for other products, e.g. sound absorbers and room dividers. Recirculating the material reduces the need for virgin materials and, therefore, the amount of CO2 emissions created in producing new materials.

Environmental and Financial Benefits

Artex offers mid-term refurbishment of train seats, typically taking place after 15 years



of service. A new seat generates about 205kg of CO2e compared to a refurbished seat that generates about 31kg of CO2e. The savings multiply by the number of seats on each train, which is usually around 10,000 but sometimes up to 100,000. In addition to climate benefits, refurbishment is around half the price compared to buying new seats.

“Refurbishment at Artex implies that the supporting structures in steel, aluminium or plastic are re-used, providing great energy savings. The seats are re-upholstered to the latest standards with great freedom of choice regarding customisation,” says

Björn Samenius, CEO and Owner at Artex.

Recirculation Creates Value from Waste

To further reduce CO2e, Artex enables the reuse of old foam and fabric for new purposes in other industries. There is approx. 5kg of waste foam and fabric from each refurbished train seat. Artex refurbishes more than 15,000 seats, adding up to more than 75 tonnes of waste material annually.

“Through the help of external experts, we have been able to develop a method to recirculate

the 75 tons of waste and let others create valuable products,” says Björn.

The waste material is tested for chemicals, processed into grains and, in some cases, pressed into blocks in preparation for other industries that further refine the recycled material for their products.

“This process reduces the footprint of a refurbished train seat to around 10kg of CO2e, to be set against the 205kg of CO2e of a new seat. The savings in a train with 20,000 seats will be about 4,000 tonnes of CO2e, which corresponds to about 1,000 petrol cars that are driven for a year,” Björn concludes.

Customer products



Processed waste material



Meet Artex at
InnoTrans, Berlin,
20–23 September
2022

You'll find Artex in **Hall 11.2, in the Swedish Stand 260.** Set up an appointment in advance through info@artex.se

Midlife upgrade?

Save money and the environment

Compared to buying new seats, refurbishing the used seats will save you half the cost and lower your impact on the environment significantly.

Let's meet at InnoTrans, Berlin, 20-23 September 2022

You'll find us in hall 11.2, in the Swedish stand 260. Email us to set up an appointment. We'll get back to you as soon as possible. midlifeupgrade@artex.se

Artex designs, redesigns, refurbishes, and upgrades seats and other interior components for trains, aviation, trucks, and public interiors. We are proud to provide better passenger experiences to many leading transport operators worldwide. Our facilities are in Sweden and Latvia, with around 350 people employed.

ARTEX