

LAMBERET SPECIAL ISSUE

# COLDCHAIN MANAGEMENT

GOOD NEWS FROM THE GREEN COLD CHAIN



NEW ENERGIES

ELECTRIC,  
HYDROGEN,  
SOLAR

AUTOMATIC DROP  
IMMOBILIZER  
SAVES LIVES

LAMBERET SERVICES  
ILE-DE-FRANCE  
BECAUSE  
YOUR BODY  
IS WORTH IT



INNOVATION

# OK LAMBERET...

THE SIRI FOR BODYWORK



**10** years ago Lamberet took part in its first Solutrans under its new corporate name, LAMBERET SAS. It was also the first Innovation Award which we won with the SR2 SuperBeef, now a market reference. Since then, 10 trophies have followed, rewarding our developments. We have tripled our turnover and built a fourth factory dedicated to utility vehicles. We have started our project of expanding our industrial vehicles factory in Saint-Cyr/Menthon with the acquisition of 4 hectares of land. With our 7500 vehicles per year (all ranges included) we have become the leader for refrigerated bodies in France and we are exporting thanks to our great network in 40 countries. We are now able to place nearly 1100 members of staff at your service in Europe to provide you with the best temperature-controlled transport solutions from 1 to 100 m<sup>3</sup>.

Everything is ready to support you through the next decade which will be one of technological breakthroughs related to environmental requirements. Our central theme aims to exceed your expectations and enable you to move faster, whilst adopting a pragmatic view leading to practical, useful developments that are compatible with the refrigerated transport economy. Our key words are economic realism and ecology. This is what we will show you

with the innovations we unveil at Solutrans 2021. Whatever the vector for producing energy, be it hydrogen, electricity, solar, etc., we are putting our expertise as a bodywork manufacturer at the service of prestigious industrialists such as BOSCH, CARRIER, SAF and many others. Similarly, we are by your side to offer you the very best in terms of bodies, with our vans, chassis, rigids and semitrailers range made up of products, for which the quality standards are today's benchmark. We are adapting to the new requirements, such as electric utility vehicles with our Frigolight offer, which is 25% lighter. We are ensuring a positive transformation to the daily lives of drivers with voice control of the body. We are taking care of logistics centers staff with our reliable automatic solution to prevent the unexpected departure of vehicles. We are supporting your efficiency needs in terms of operation and reduction of the TCO, with our Safelight anti-breakage lights, our Ergowall bulkheads and the new SR2 back...

**In this period of change and despite the supply difficulties that we are all encountering, Lamberet is demonstrating the confidence we have in the future, for our business and also for yours. We are totally committed to be there at your side and to serve your interests in the best possible way. ■**

## COOL NEWS!

### Origin'Ain labelling



Lamberet has received the Origin'Ain label for its site at Saint-Cyr sur Menthon, Head Office, R&D centre and factory for the Group's heavy industrial vehicles. The Origin'Ain label enhances the excellence of expertise from the Ain department.

### New Lamberet Shop website



The online sales website for tie-in items bearing the Lamberet logo is decorated in the winter collection colours. Spend the winter in the warm with Lamberet!

### Lamberet Spa and Renault Trucks are electrifying Italy



Lamberet Spa and Renault Trucks Italy are starting a Customer trials campaign for electric straight trucks: ZE D16 15 pallets and CARRIER TRS Syberia cooling unit, followed soon afterwards by a D Wide 26 T and a Renault Master RED chassis-cab!

### RTS, official Lamberet distributor in UK



Lamberet is joining together with RTS (Refrigerated Trailer Services Ltd) and its Managing Director, Steven McCue, to distribute the latest generation of SR2 refrigerated semi-trailers on the British market.



> FIRST

# OK LAMBERET: DELIVER!

Lamberet, the SIRI for Bodywork: with the “hands free” truck the daily life of drivers is finally seeing a revolution.

**L**amberet's ambition is to honour the daily life of drivers and deliverymen by introducing a world first in voice control of bodywork on its straight trucks and semi-trailers.

The “OK Lamberet” voice control is based on the Multiplex Lamberet connected application. It makes it possible to control the raising of the taillift, the opening and closing of the rear roller shutter door, switch on the lights, etc. In this way delivery operations are safer, faster and more comfortable for the operator. Deliveries are fluid, risks reduced, and the cold chain and energy losses are optimised!

The voice control developed by Lamberet is a breakthrough innovation which benefits drivers, whose daily life has not basically changed for the last 50 years.

OK LAMBERET ...



...LIGHTS ON

OK LAMBERET ...



...UP

...open



OK LAMBERET ...



...DOWN



DISCOVER  
THE VIDEO

# NEW ENERGIES: ENVIRONMENTAL TRANSITION FROM 1 TO 100 M<sup>3</sup>

Lamberet presents the most advanced solutions for all the “zero emission” technologies applicable to refrigerated vehicles: hydrogen, electrification, solar energy, etc.

## SR2 FRESH2

**SR2 FRESH2 is a multi-temperature reefer** whose electric cooling unit is **powered directly by the hydrogen fuel cell** without the need for a buffer battery pack that adds to cost, weight and power consumption. **A world first**, this development **is the result of a partnership between top-tier suppliers:** the world-class parts maker **Bosch**, specialized in the fuel cell, the manufacturer of cooling units **Carrier Transicold**, **Lamberet** and the leading logistician **STEF**.

The FRESH2 collaborative project is supported with the framework of the Investments for the Future programme (PIA) operated by ADEME (French Environment and Energy Management Agency). Gwenaél Tuet, Chief Technical Officer of Lamberet, gives details of the project's ambitions: “Our development aims to meet all future operating constraints to make it an SR2 semi-trailer like the others, with the same equipment capabilities, same speed in operation, and so on. Together with Bosch, we are also planning to design a “fuel cell pack” that will be retrofitable to SR2s already on the road.” ■



Tests in real conditions with the carrier, STEF, are conclusive: the BOSCH direct PAC H2 technology has made it possible to provide multi-temperature distribution rounds in the long-term.



The Swiss carrier, Galliker, operates several Lamberet SR2-e trucks for the first time, including an assembly incorporating a 900 kWh Volvo Futuricum electric tractor for 100% zero emission operations.

## SR2-e

**SR2-e is a “rechargeable electric” multi-temperature distribution reefer** whose energy requirements are met by a battery pack. This pack can be recharged either while driving through energy recovery or production, or from the standby with the option of a static precharge (as for a rechargeable hybrid vehicle). The latest generation **TRAK'r** electric generator axle, supplied by **SAF**, is integrated into the chassis of the semi-trailer made by Lamberet.

SR2-e is an initial development, labelled “France Relance”, in the Live2Pure project: Ecological and Economic Delivery of Fresh Products in Urban and Residential Areas. This project aims to develop, industrialise and mass-market distribution solutions in the short-term which are suitable to meet the challenges of ecological transition and CSR, in order to have a real impact. ■



## ELECTRIC KLEUSTER FREEGONE FRIGOLINE

The new KLEUSTER Freegone Frigoline with its 1.5 m<sup>3</sup> of refrigeration acts as a electrically power assisted bicycle.

Zero emissions, Zero noise and Zero congestion as it can use bike lanes. Its cooling unit and body are ATP-approved. Its new Frigoline cell offers an innovative full-width rear opening, 'OT1'. Its electric drive propels it up to 18 km/h effortlessly and includes a hill-start assist and cruise control. The battery recharges in 5 hours from a single 230V 16 amp socket. **THE electric tricycle that is ideal for urban deliveries.**



KLEUSTER Freegone is fitted with the new Frigoline body cell with coefficient K 0.31 and positive cold plug & play cooling unit.



Lamberet has fitted the body roof with 6 solar panels giving a surface area of 10 m<sup>2</sup> providing peak power of 2400 W.

## ELECTRIC RIGID TRUCK WITH PHOTOVOLTAIC TECHNOLOGY



VIDEO OF  
TRANSPORTS  
PERRENOT'S  
EXPERIENCE

The first 100% electric refrigerated standard rigids, **RENAULT TRUCKS D-Wide ZE 26t**, have had their bodies made by Lamberet. They offer a range of 150 km, a Frigoline HD reinforced insulated body, a silent cooling unit and here the addition of solar panels to supply the electric cooling unit, the taillift, pallet truck recharging and the lighting, minimising the effect on powertrain autonomy. This solution is THE answer to responsible urban delivery: Zero gas emissions, Zero noise emissions. ■

## REFRIGERATED CITROËN E-JUMPY, OPEL E-VIVARO AND PEUGEOT E-EXPERT

They now benefit from a conversion that is as accessible as the classical thermal versions. The new range of electric units from Kerstner, Lamberet's subsidiary in charge of road freight cooling systems, marks a breakthrough in terms of energy consumption. The **eCoolJet 106**, the market leader since its launch at Solutrans 2019 where it was the **winner of the Innovation Award**, benefits from such efficiency that it can be **powered indirectly by the traction battery**. It thus limits the use of an independent battery pack, which in vans is heavy, cumbersome, has an uncertain lifespan, and is impractical to use, as it requires a double connection when recharging. ■



SEE IT  
ON VIDEO



The e-Cooljet 106 cooling unit is housed in the space for the spare wheel to retain overall height and aerodynamics.

### > INNOVATIONS

## ADI SAVES LIVES

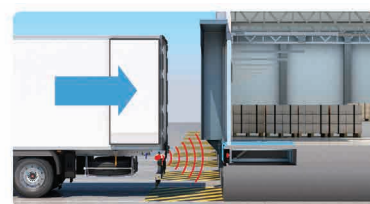
Lamberet is introducing the first automatic drop immobilizer (ADI) system taking care of avoiding unexpected departures, a breakthrough innovation for the safety of logistic centers staff.

The major risk when loading vehicles at the dock is departure while a handling machine is still in operation. The untimely departure prevention system developed by Lamberet innovates with its automation based on a new implementation of RFID technology between the vehicle and the loading docks.

Lamberet's automatic ADI is reliable,

affordable, and retrofittable to all semi-trailers and straight trucks. The docks can use the system without adding heavy new structures or a power supply.

Automatic and maintenance-free, and therefore without risk of human error, the Lamberet ADI is a universal, accessible innovation that can prevent accidents and save lives. ■



1. Free docking manoeuvres



2. Dock ramp unarmoured by RFID radar, untimed



4. Brakes locked, loading operations are fully safe



5. Safety active as long as the ramp is armed

## FRIGOLIGHT: UNITED WE STAND

Frigolight is the demonstrator for tomorrow's delivery utility vehicle with an innovative, lighter, aerodynamic multicomposite body which is all-in-one, i.e. incorporating the cooling system.

This new, **completely redesigned refrigerated body** is based on a platform-cab base, which is ideal for accessibility thanks to its ultra-low loading sill. The Frigolight's design is compatible with all types of chassis-cabs and platform-cabs on the market, and all traction systems (thermal, hybrid, electric, etc.).

The bodywork uses a **novel combination of new materials** that save significant weight, without compromising strength or insulation. The entire body has been digitally reworked and optimised to leave no weak points, but also no points that are too heavy for the expected performance. The weightiest traditional components (inserts, cross-pieces, plywood floor, metal frames, etc.) have been replaced by composites.



At the centre of this "all-in-one" body and unit concept, the new very low consumption Kerstner e-Cooljet 206 electric unit is unveiled as a preview. It is 100% new and could maintain 10 m<sup>3</sup> in positive cold.

The cooling unit is no longer an add-on part, with all the disadvantages that this entails. **The unit is now integrated into the roof, directly into the bodywork.** The weight of incorporating it into the vehicle is thereby minimised. Its ventilation is maximised for improved performance. Its aerodynamic shape has been engineered to

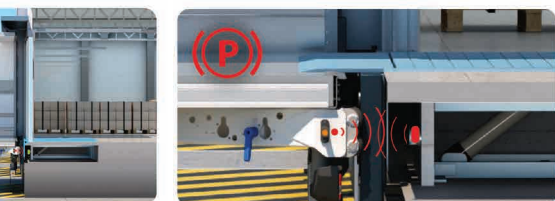
exceed the benefit of a cab deflector, which becomes unnecessary, saving on cost and weight.

**Frigolight offers a level of robustness, durability and insulation equivalent to Lamberet's current Frigoline range. Its innovative design saves 25% by weight and 20% by Scx. ■**



SEE IT  
ON VIDEO





4. No signal picked up  
locked vehicle brakes

3. Dock ramp armed, TAG RFID visible and  
detectable, locked vehicle brakes



docking



6. Dock ramp folded, TAG hidden, vehicle brake  
released. Authorized departure.  
Safety of departure controlled automatically  
by the ADI system

#### > BEST-SELLER

### NEW REFRIGERATED MERCEDES CITANVAN EASYFIT INTEGRATED INSULATION



The totally new Citan van is the ideal base for having a refrigerated minivan capable of transporting nearly 2 m<sup>3</sup> in the best conditions. The refrigerated cell offers as standard the sliding side door while benefiting from ATP approval for reinforced-class insulation to preserve the cold chain and optimise energy consumption. Available in lengths, L1 and L2 (beginning of 2022). ■



#### > NEARBY

## LAMBERET SERVICES ILE-DE-FRANCE YOUR BODY IS WORTH IT

Lamberet Services is the network of Lamberet finishing and after-sales agencies. It relies on 11 sites in Europe including 5 in France. These "expert" sites manage 350 approved bodybuilders and fitters, to form the first after-sales network for refrigerated bodies. The Ile-de-France agency in Marolles-en-Brie is in an ideal location close to Rungis International Market.

**25%** of the repairs carried out at the Lamberet agency near Paris concern bodies from other manufacturers. "Our experience and the link we have with the Lamberet factories and R&D centre enables us to carry out exceptional work: integral change of a front face, side panels or putting a new chassis in place" explains Jean Ferreira, Agency Head.

Lamberet IDF has 4000 m<sup>2</sup> of covered workshops and a 2000 m<sup>2</sup> parking, both of which are secure. 20 technicians carry out various operations of preparation, maintenance and repair. The resources used make it possible to meet all needs efficiently: extra long paint cabin (30 m), space for the storage and sale of spare parts for all makes, 12-metric ton motorised hoists, chassis straightening bench (marble), welding stations for aluminium, steel and stainless steel, etc. ■

Lamberet is the only player on the market to have its own network of integrated services agencies: a guarantee of quality.

"THE EXPERIENCE OF OUR TEAMS AND THE RARE RESOURCES WE HAVE IN THE PARIS REGION SOMETIMES LEAD US TO PROVIDE SERVICES TO MORE THAN JUST REFRIGERATED VEHICLES, SUCH AS THESE DAMAGED SWEEPERS BELONGING TO THE CITY OF PARIS WHICH NEEDED TO HAVE THEIR CHASSIS STRAIGHTENED AND WORK ON THE POLYESTER BODY!"

**JEAN FERREIRA, LAMBERET SERVICES IDF MANAGER.**

#### EXPERTISE:

- Repair of composite panels
- Preparation ATP and presentation at the control
- Work on bodies: rear frame, transfer of the body cell, doors
- Repair and maintenance of the taillift: fitting, maintenance, hydraulic repairs and control.
- Complete or partial painting of body cells or vehicles
- Repair and maintenance of cooling units



# SR2 SAFETY. AERODYNAMICS. TCO.



Lamberet has taken advantage of the enactment of the new R58-03 regulation that increases the safety of road users against the risk of rear underrun, to redesign the SR2 chassis. SR2 are now equipped with an **aerodynamic flap**, air ducting and extraction. This feature is combined with **light brackets** designed to reduce drag and air resistance. This new back can

incorporate the **Lamberet Safelight antibreakage** lights, able to absorb shocks with either forward or backward rotation kinematics. The separation of the different functions of the lights allows for an economical one-off replacement. **Optimised safety, design, aerodynamics and TCO.**