

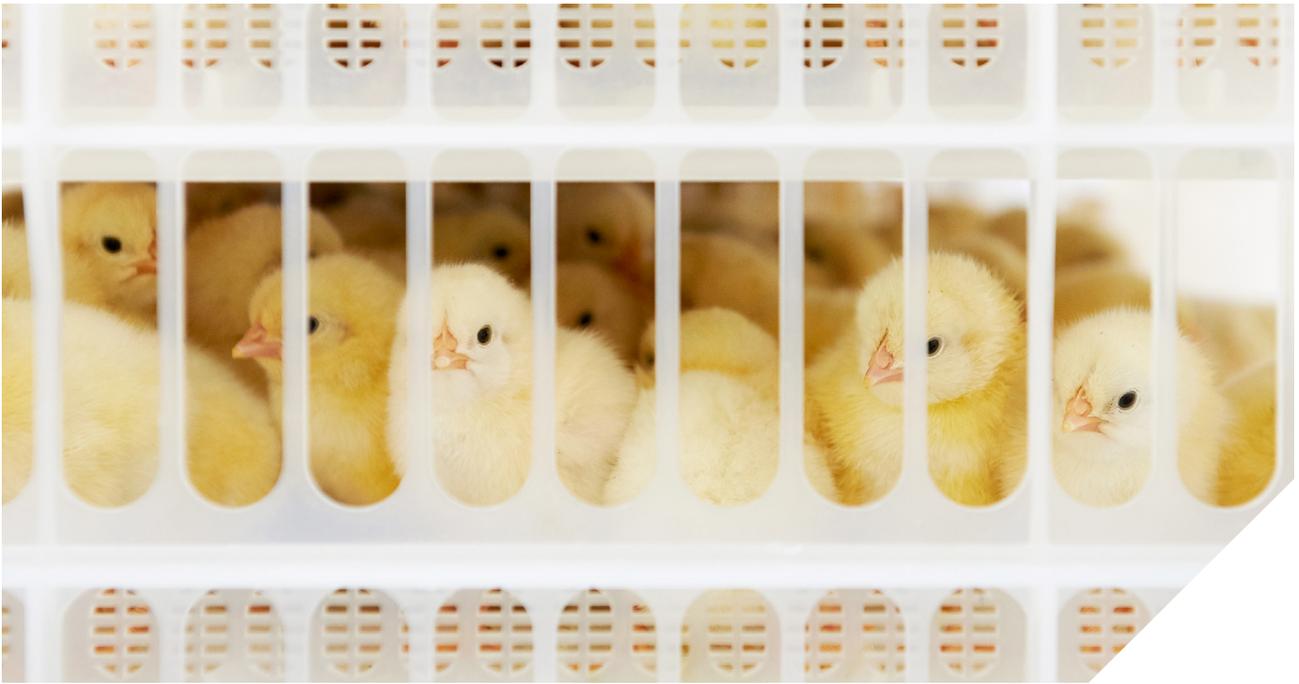


Brochure

# HatchTraveller

Chick Transport

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# HatchTraveller

Delivering superior chick quality during transport

**Transporting chicks remains a key challenge for poultry producers worldwide. While companies have significantly improved their incubation, hatching and farming processes in recent years, transport remains a “break” in the chick development cycle. This disrupted development can severely impair overall chick quality.**

- World's lowest energy costs: 100% hybrid, battery-driven trailer
- The perfect in-transit climate solution, plus light and fresh air at chick level
- Transport up to 183,600 chicks per truckload





Today's poultry companies need to meet a range of different requirements, including sustainability, animal welfare, chick quality, and return on investment. However, when it comes to transporting chicks, these objectives are frequently in opposition. Poorly equipped transport systems fail to create the optimal climate and environmental conditions required for healthy chick growth and development, and long-term quality. Furthermore, expensive, energy-intensive mechanical cooling and ventilation systems take up too much space, driving up energy consumption and costs.

At the same time, modern-day producers are under growing pressure to be responsible corporate citizens and to reduce their carbon footprint.

Traditional transport systems rely on expensive and poorly regulated climate-control systems that prevent chicks from maintaining a stable, optimal body temperature. They also consume vast quantities of fuel, adding to companies' energy costs, as well as harmful CO<sub>2</sub> emissions.

The fact of the matter is that poultry producers can no longer rely on basic, outdated technology for transporting chicks. They require modern, cost-efficient, easy-to-use solutions that create optimal, uniform climatic and atmospheric conditions in a sustainable way. Only then can companies ensure the consistent development – and quality – of every chick under their care. With HatchTraveller, we have the answers you're looking for.

# Maintain perfect conditions during transit

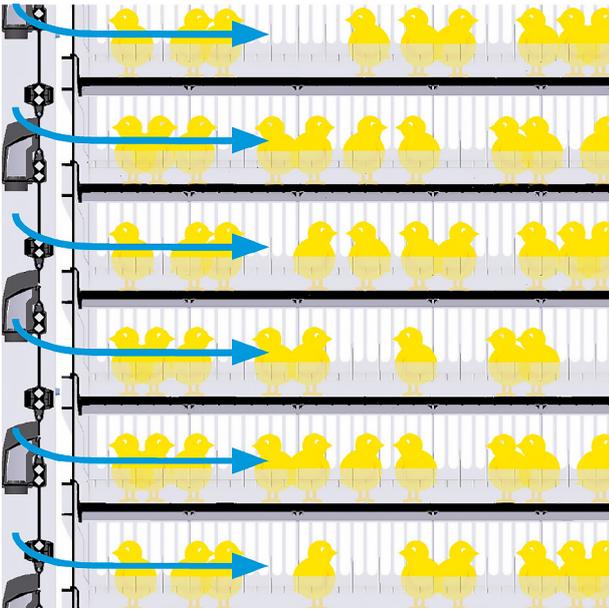


Creating the ideal trailer climate depends on finding the right balance of four key environmental factors: (1) airflow, (2) air velocity, (3) air temperature and (4) relative humidity. HatchTraveller's unique climate-control solution is specifically designed to keep each of these key indicators in equilibrium. What's more, every trailer delivers consistent fresh air and light at chick level.

## Laminar airflow: achieve the perfect climate using natural fresh air

One of HatchTraveller's key differentiators is the HatchTech laminar airflow system, which uses natural, outside air to create optimal temperature and ventilation conditions for every chick basket without the need for mechanical coolers in all but the warmest climates. With temperature and humidity in perfect balance, chicks are less likely to feel cold, or experience dehydration and heat stress – factors that can severely undermine chick wellbeing and quality.





“ The perfect in-transit climate solution, fresh air and light at chick level ”

### Consistent fresh air and light at chick level

Our proven laminar airflow technology is complemented by perforated radiators and a series of temperature, humidity and air-quality sensors, to form a highly reliable climatecontrol solution. In this way, customers can maintain a consistent 40.3°C (104°F) body temperature for every chick – the optimal level for healthy development. Our purpose-built mechanical cooling system is also available when driving in warmer conditions of 30°C (86°F) and above.

Each HatchTraveller trailer draws in fresh outside air consistently via a series of air vents, which are carefully positioned at chick level. Meanwhile, optimal chick-level lighting ensures the transport baskets are fully illuminated for the duration of the journey, allowing chicks to see each other, locate feed and pass on essential vaccinations. HatchTech's lighting system has been rigorously tested to ensure uniform, optimal (272 lux) illumination.





# More space, reduced expenditure

Our smart design limits journeys and saves costs

**Our unique trailer design creates space for up to 183,600 day-old chicks per trailer – expanding the volume of every truckload by up to 30% and generating a significant overall cost saving. You can customise the size and capacity of your transport system using the HatchTraveller Configurator. The trailer can also be used as a mains-powered storage facility for chicks awaiting transport. This eliminates the need for additional storage, further reducing costs.**

“ Transport up to 183,600  
chicks per truckload ”

“ World’s lowest energy costs due to fresh air and a 100% hybrid, battery-driven trailer ”



## The world’s first hybrid power system

Chick transportation can be highly energy-intensive, due to the energy needs of outdated mechanical cooling and ventilation systems which source power from the truck’s main fuel supply, driving up costs and generating harmful CO<sub>2</sub> emissions. What is more, due to lack of adequate airflow, transporters often resort to leaving large gaps between each basket, restricting the number of chicks per ride.

HatchTraveller uses an innovative hybrid, battery-power solution that reduces emissions and cuts fuel costs by as much as 80%. Each trailer is equipped with its own battery pack, which supports the climate-control and lighting systems using electricity alone and charges automatically while driving or at the hatchery or farm. A portable diesel generator is provided as a back-up option; customers transporting over longer distances can also select an additional battery pack or range extender via the Configurator.



# Advancing sustainable,



## Driving animal welfare and sustainability

As well as minimising mortality, HatchTraveller is designed to maximise the comfort of chicks during transit by providing a favourable, uniform ambient temperature with sufficient fresh air and light at all times. It also prevents unnecessary movement; when used in combination with our HatchCare hatcher, HatchTraveller sees chicks – and their feed – remain in their baskets from birth all the way to the poultry house, preserving the ‘hatching environment’ for as long as possible.

Like all our solutions, HatchTraveller is designed to ensure sustainable, responsible operations. It is no secret that food industry supply chains are a leading cause of carbon emissions. As they expand, their environmental footprint grows. But thanks to its innovative hybrid, battery-driven power solution, our system is one of the most energy-efficient and environmentally friendly transportation solutions around.

# responsible transport



## Raising the bar for chick quality

Traditional chick transportation systems reduce mortality. However, HatchTraveller goes much further than that, by also helping poultry producers to meet their overall objectives for chick health, wellbeing and quality. HatchTraveller chicks stay cool and hydrated; they can access their feed, pass on vaccinations and even sleep during transport. Healthier, well-looked-after chicks mean better long-term bird quality. Once a problem, chick transportation has become part of the solution.

“ Every HatchTraveller is fully customisable. Build it to your needs. ”

# HatchTraveller Benefits

- Transport up to 183,600 chicks per trailer
- Maintain optimal climate conditions during transit
- Ensure uniform quality for your chicks
- Cut your fuel costs by up to 80%
- Save on storage space and costs with built-in storage
- Reduce your carbon footprint by cutting emissions
- Configure your system to your precise needs
- Achieve excellent return on investment

Customise your chick transport solution to your needs at

[www.hatchtraveller.com](http://www.hatchtraveller.com)

# Technical Specifications

## Four sections - Box

Capacity	81,600 chicks
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### Performance and consumption

#### Ventilation

Air circulation	0 - 10,000 m <sup>3</sup> /h
Fresh air supply via radiators	0 - 3,500 m <sup>3</sup> /h

#### Power consumption electrical

No cooling	5 kW
Half cooling	8 kW
Full cooling	11 kW
Heating	8 kW

### External dimensions

Length	7,850 mm
Width	2,500 mm
Box height	2,780 mm

### Features

#### Battery pack

Voltage	48 V
Capacity	1,125 Ah

#### Generator

Kubota 14 kW	1 pcs
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#### Mechanical cooling

Rooftop chiller	1 pcs
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#### Sensors

Temperature inside	5 pcs
Carbon dioxide inside	1 pcs
Humidity inside	1 pcs
Temperature outside	1 pcs
Temperature back-up	1 pcs

#### Bodywork

Anti-slip floor, marothan coating with grains





### Six sections - Trailer

Capacity	122,400 chicks
<b>Performance and consumption</b>	
<i>Ventilation</i>	
Air circulation	0 - 10,000 m <sup>3</sup> /h
Fresh air supply via radiators	0 - 5,500 m <sup>3</sup> /h
<i>Power consumption electrical</i>	
No cooling	9 kW
Half cooling	15 kW
Full cooling	21 kW
Heating	12 kW
<b>External dimensions</b>	
Length	10,704 mm
Width	2,500 mm
Vehicle height	4,000 mm
<b>Features</b>	
<i>Battery pack</i>	
Voltage	48 V
Capacity	1,125 Ah
<i>Generator</i>	
Kubota 14 kVA	1 pcs
<i>Mechanical cooling</i>	
Rooftop chiller	2 pcs
<i>Sensors</i>	
Temperature inside	5 pcs
Carbon dioxide inside	1 pcs
Humidity inside	1 pcs
Temperature outside	1 pcs
Temperature back-up	1 pcs
<i>Bodywork</i>	
Anti-slip floor, marothan coating with grains	

### Nine sections - Trailer

Capacity	183,600 chicks
<b>Performance and consumption</b>	
<i>Ventilation</i>	
Air circulation	0 - 10,000 m <sup>3</sup> /h
Fresh air supply via radiators	0 - 7,000 m <sup>3</sup> /h
<i>Power consumption electrical</i>	
No cooling	9 kW
Half cooling	15 kW
Full cooling	21 kW
Heating	16 kW
<b>External dimensions</b>	
Length	13,540 mm
Width	2,500 mm
Vehicle height	4,000 mm
<b>Features</b>	
<i>Battery pack</i>	
Voltage	48 V
Capacity	1,500 Ah
<i>Generator</i>	
Kubota 14 kVA	2 pcs
<i>Mechanical cooling</i>	
Rooftop chiller	2 pcs
<i>Sensors</i>	
Temperature inside	5 pcs
Carbon dioxide inside	1 pcs
Humidity inside	1 pcs
Temperature outside	1 pcs
Temperature back-up	1 pcs
<i>Bodywork</i>	
Anti-slip floor, marothan coating with grains	





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