

SUSTAINABLE TRANSPORT SOLUTIONS TODAY

# TR GROUP HYDROGEN TRUCK OVERVIEW



100% HYDROGEN

DUAL FUEL

AVAILABLE NOW



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## TR Group Hydrogen

TR Group has been operating for over 30 years and is New Zealand's specialist heavy commercial vehicle lease and rental company.

With 10,000 heavy commercial vehicles across New Zealand and Australia we are focused on providing our customers with solutions that offer cleaner and more efficient transport solutions, contributing to a more sustainable future for heavy transport.

With more than 60 battery-electric trucks in our lease and rental fleet, we are leading the way in providing the best fully maintained alternative fuel solutions to our customers. Now, with our hydrogen truck options, we can provide an expanded range of alternative fuel and zero emission options.



## Why Green Hydrogen?

Efficient heavy transport is about moving the most freight with the fewest trucks possible while remaining within driver and regulatory requirements.

Green hydrogen is a zero-emission solution that enables freight operations similar to a diesel truck. A hydrogen truck driver can start a 12-hour shift, drive for 5.5 hours, take a break, then drive for another 5.5 hours. With a quick 15–20 minute refuel when required. A driver swap allows the cycle to repeat—ensuring seamless business operations.

Our partner, Hirlinga Energy, has a world-class system that produces green hydrogen directly at the refuelling site, eliminating the need for road or sea transport. Fuel is available at three locations: Wiri, Te Rapa, and Palmerston North, with a fourth site in Tauriko opening in June.

Refuelling takes approximately 15–20 minutes, depending on the vehicle, and transfers hydrogen at a rate equivalent to a 3.5MW–4.0MW EV charger, with back-to-back refuelling available 24/7.

### Key Advantages of a TR Group Hydrogen Truck Fully Maintained Operating Lease or Long-Term Rental

- Fully Maintained Operating leases provide fixed cost and remove risk. In addition you get access to 24/7/365 backup and support, alternative fuel expertise, and a strong service network.
- Hydrogen supply price is capped for the lease term at \$16.50/kg + GST (via Hirlinga Energy). If fuel prices drop, the savings will be passed onto you.
- We offer multiple options:
  1. GBV 100% hydrogen FCEV 6x4
  2. Hyundai Xcient 100% hydrogen 6x2 rigid chassis
  3. 6x4 Dual fuel hydrogen/diesel tractor unit
- The first 20 trucks (100% hydrogen) receive substantial EECa support as part of our partnership with Hirlinga Energy, providing a highly competitive fully maintained operating lease solution.



The refuelling process is as simple as conventional diesel refuelling, using a self-service dispenser, a fuel swipe card, and the push of a button. All refuelling sites are located in key heavy vehicle hubs and are designed to accommodate truck and trailer combinations.



## TR Group Truck Options





## Tractor Unit FCEV

- Based on DAF CF 85 6x4 tractor unit
- GCM: 50t / TARE:11,440kg
- Range:450-500km / 52 kg h2
- Power: 350kW / 2500Nm electric drive through 6 speed transmission
- Energy: 2x Toyota 85kw (170kw) Fuel cells with 124kwh HV battery
- 16 x units available
- This unit will suit a 34 pallet B train and 28 pallet semi trailer

## Specifications

Use as an indicative guide only.

### Truck

Type	TARE	GVM	Payload
Semi 28 Pallet	11,440	22,200	10,760

### Trailer

Type	TARE	GCM	Payload	Body Internal	Pallets	Combo Total Pallets	Combo Total Payload
Semi 28 Pallet	7,000	40,000	21,560	14,750	28	28	21,560

### Truck

Type	TARE	GVM
B Train		
34 Pallet	11,440	22.200
36 Pallet	11,440	22.200

### Trailer

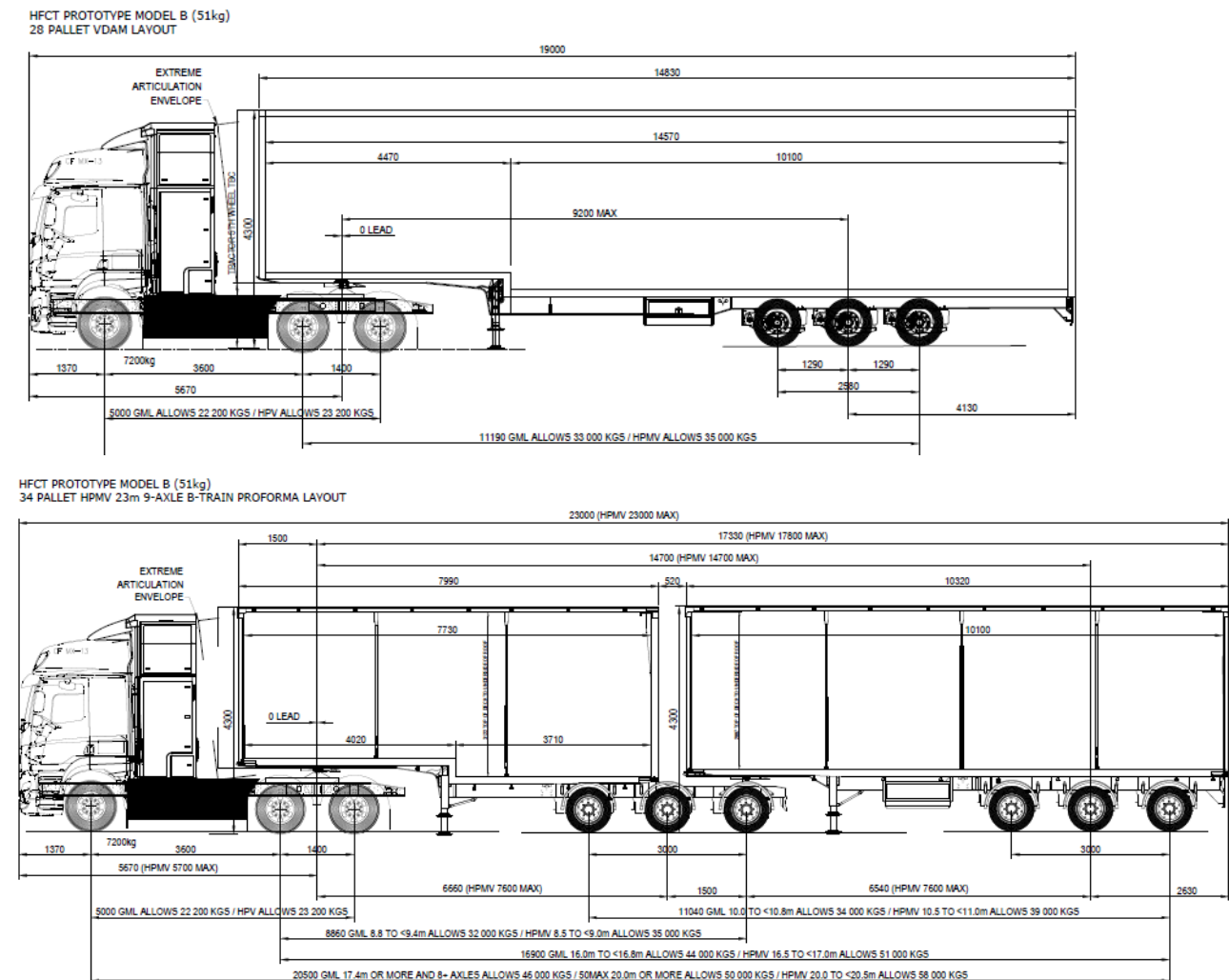
Type	TARE	Body 1 Internal	Pallets	GCM	Payload	Body 2 Internal	Pallets	Combo Total Pallets	Combo Total Payload
34 Pallet	12,500	7,730	14	50,000	20,060	10,100	20	34	20,060
36 Pallet	14,000	8,330	16	50,000	24,560	10,320	20	36	24,560

Notes:

- A 36 pallet B train is possible in some situations
- With existing trailers we will need to do a full compatibility check
- Some permits will be likely however TR Group will manage this on your behalf



## Example Bodies / Combinations



## Dual Fuel



The technology injects hydrogen into the original diesel engine at a variable rate.

- GCM as per truck rating
- 1000kg tank module
- Compatible with almost all trailers
- Average consumption expected\* 20%-30% hydrogen
- Reduction in CO2 is directly related to the green H2 consumed
- CO2 customer and delivery reporting
- Can be turned on or off depending on customer
- Will run on 100% diesel if no hydrogen is available in area
- Technology can be retrofitted to existing trucks
- May be suitable for 8x4 58t

\* 20-30% hydrogen is variable by make model and situation



## Hyundai Xcient FCEV

- GCM 42t / Cab chassis TARE 10,500kg
- Range: 400km / 32 kg h2
- Rigid chassis with 6x2
- Power: 350kw /2500 NM through an Allison 6 speed auto
- Energy: 2x Hyundai 90kw fuel cell (180kw) and 72kw Hv battery
- Curtainside truck - payload approx. 8,500kg (with tail lift) + trailer
- Refrigeration truck - payload approx. 7,500kg (with tail lift)
- 4 x units available
- Some permits may be required depending on configurations, we will advise and manage this if applicable

## Specifications

Use as an indicative guide only.

### Truck

Type	TARE	GVM	Payload	Body Internal	Pallets
Refrigeration	14,655	22,200	7,545	7,650	14
Curtainside					
Hyundai with 2 Axle Domett	13,500	22,200	8,700	7,250	14
Hyundai with 3 Axle Domett	13,500	22,200	8,700	7,250	14
Hyundai with 4 Axle TR Trailer	13,500	22,200	8,700	7,250	14

### Trailer

Type	TARE	GVM	GCM	Payload	Body Internal	Pallets	Combo Total Pallets	Combo Total Payload
Hyundai with 2 Axle Domett	4,120	16,000	38,200	11,880	8,200	16	30	20,580
Hyundai with 3 Axle Domett	5,620		40,200	12,380	11,620	22	36	21,080
Hyundai with 4 Axle TR Trailer	6,048		40,200	11,952	8,600	16	30	20,652

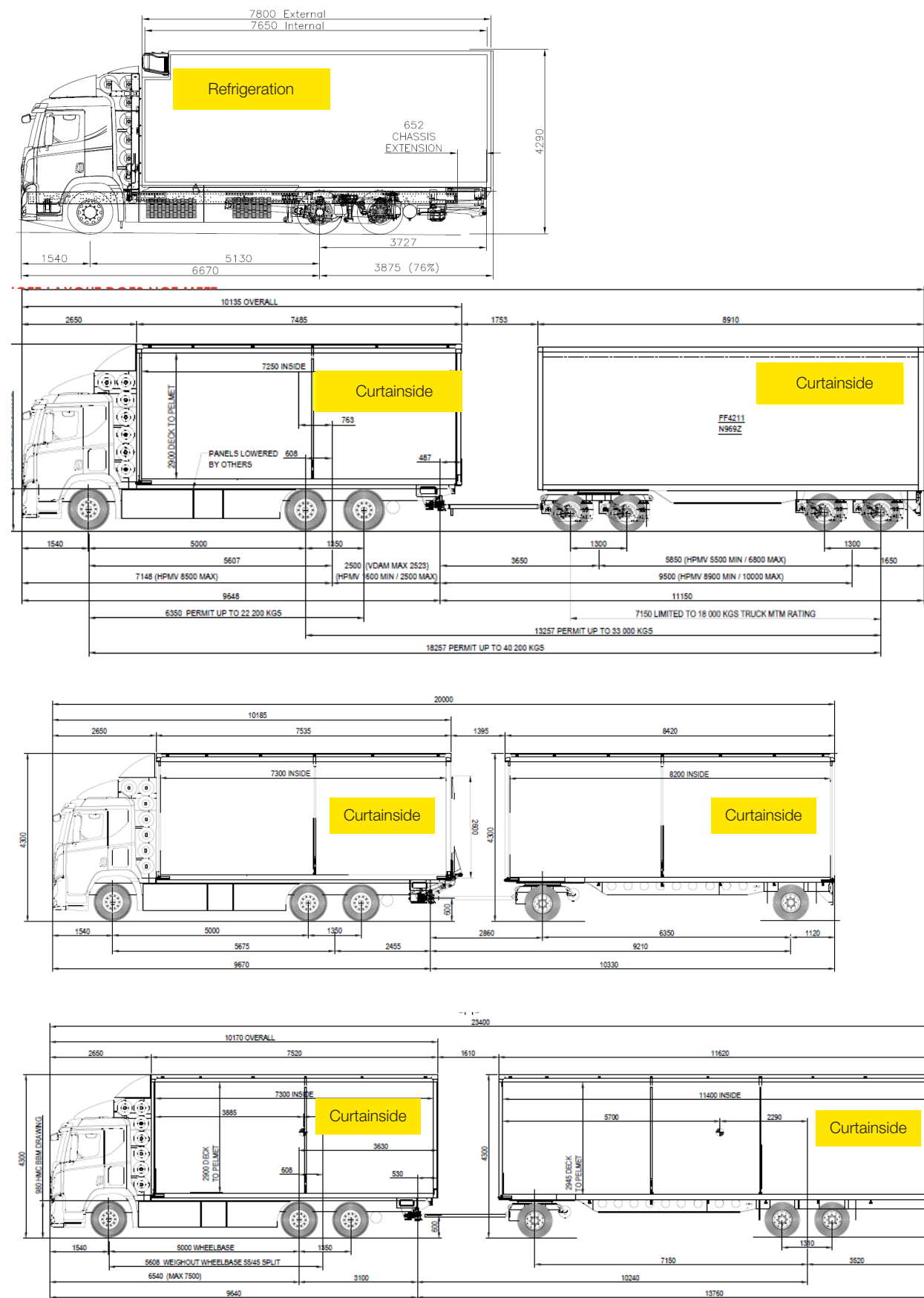
Notes:

- Curtainside Truck includes tail lift in tare
- Refrigerated Truck includes refrigeration unit and tail lift
- Trailer is limited to 18,000 GVM due to Hyundai tow rating



## Example Bodies / Combinations

Note: Some permits may be required depending on configurations. We will advise and manage this if required.







**Over 11,000 Heavy Vehicles  
Across New Zealand  
& Australia.**

**A team of over 300 people  
are ready to help you with  
your fleet.**

**We have 10 branches  
in New Zealand and  
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#### **AUCKLAND**

781 GREAT SOUTH ROAD,  
PENROSE

#### **HAMILTON**

1219 TE RAPA ROAD,  
TE RAPA

#### **MT MAUNGANUI**

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#### **NEW PLYMOUTH**

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#### **HASTINGS**

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#### **WELLINGTON**

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