

# Emission free multi-purpose trucks



## Toward greener operations

As a full commitment to global CO<sub>2</sub> emission reduction, PowiDian Mobility, manufacturer of innovating vehicles, has developed a new range of emission free trucks.



## Why going electric ?

No noise, no CO<sub>2</sub> emission  
when operating

## Technology

HyRIS trucks are electrical vehicles  
of two technologies:

- 100% battery powered
- Hybrid battery / hydrogen

All Hyris are chassis cabins allowing to mount  
any equipment required by professionals.



LMI, 30 years of innovative vehicle production, and PowiDian, hydrogen expert, have launched PowiDian Mobility to design and manufacture electric and hydrogen vehicles with financial support of Xerys.

# Battery vehicles

Best fitted for operation in central urban area with small range of operation but also for suburbs and rural area.

## Chargers

Charging can be done on AC outlet or standard EV charging stations.

# Hydrogen vehicles

Hydrogen offers more energy thus allowing a longer range of operation, heavier load or electrical supply to auxiliaries.

## Work shift

Refueling is done in minutes and can be done at shift change.

## HyRIS B1

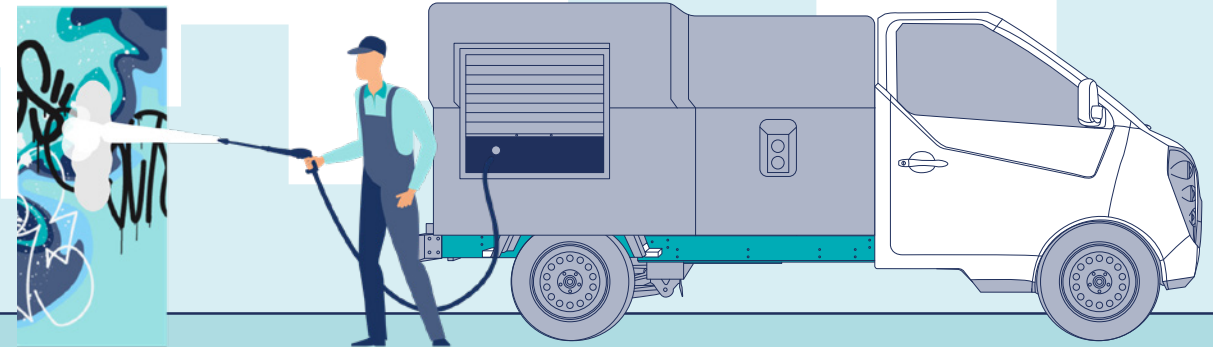
180 km 3T PTAC  
80 km/h

Allows a standard range for **daily work in urban centers** when towing is not required



## Local supply

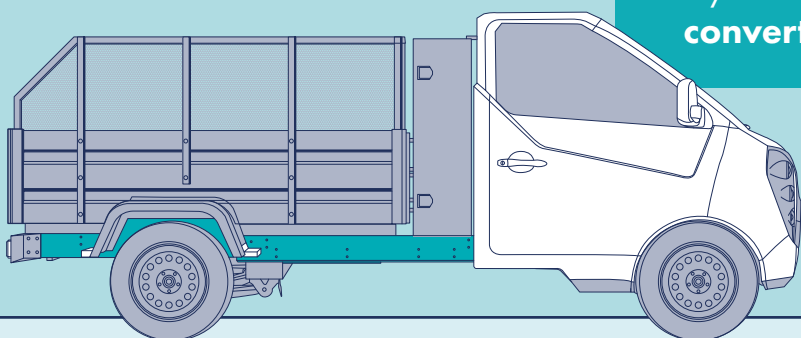
Hydrogen can be locally produced using electrical grid or renewables (wind / sun).



## HyRIS B2

270 km PTR < 4T2  
90 km/h

With a **stronger motor** and a **bigger battery**, HyRIS B2 allows a wider range and towing up to the limit of BE licence.



## What about rural areas ?

Hyris B2 offers an extended range of operation.

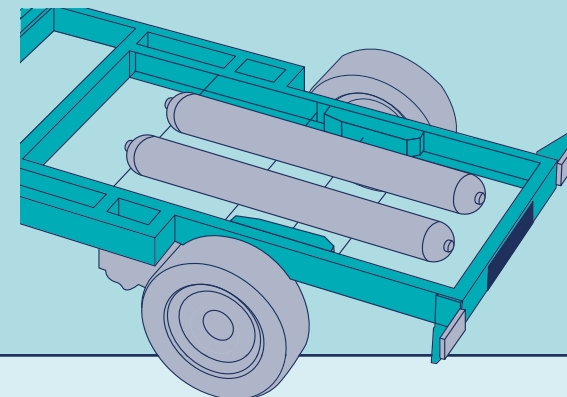
## Good to know

HyRIS B2 can **be converted** to hydrogen.

## HyRIS H1

350 km PTR < 3T7  
90 km/h

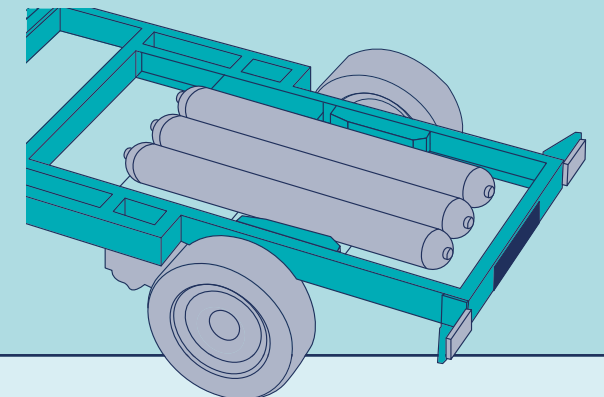
Standard hydrogen vehicle having a **range of 350 km** able to tow and to **carry a higher payload**.



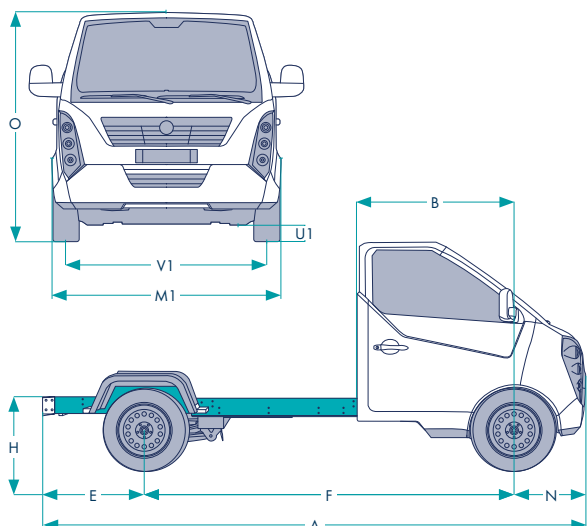
## HyRIS H2

477 km PTR < 4T2  
90 km/h

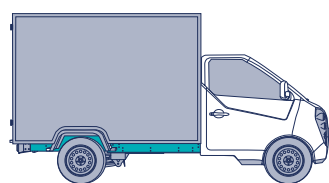
**Extended model** to go further with **ultimate payload capacity**.



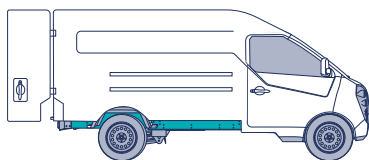
# Multi-purpose vehicle



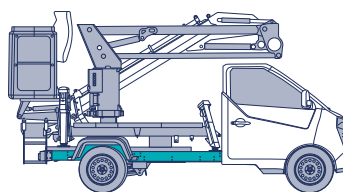
DIMENSIONS (mm)		HyRIS B1	HyRIS B2	HyRIS H1	HyRIS H2
<b>F</b>	Wheelbase	3600	3600	3600	3600
<b>E</b>	Front overhang	880	880	880	880
<b>N</b>	Rear overhang	1000	1000	1200	1200
<b>A</b>	Chassis length	5480	5480	5680	5680
<b>O</b>	Maximal Height (unloaded)	1950	1950	1950	1950
<b>V1</b>	Front track	1625	1625	1625	1625
<b>H</b>	Rear chassis height: loaded / unloaded	565/685	565/685	565/685	565/685
<b>U1</b>	Minimal ride height FT/RR (loaded)	160/150	160/150	160/150	160/150
<b>M1</b>	Width at Ft fender	1900	1900	1900	1900
<b>B</b>	Length RR wheel axis - cabin back	1750	1750	1750	1750



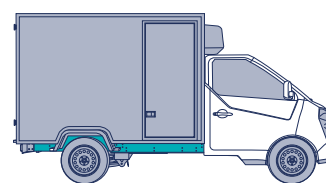
Dry box



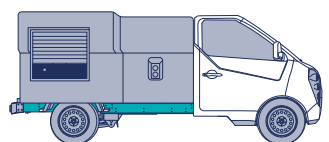
Body



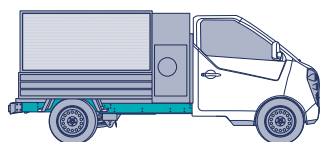
Elevation work platform



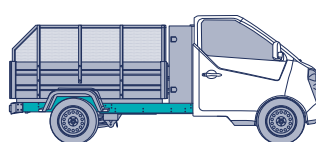
Refrigerated box



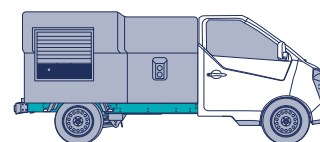
Hot water grass cleaner



Vaccum cleaner



Dump truck



Pressure washers

	HyRIS B1	HyRIS B2	HyRIS H1	HyRIS H2
<b>Motor</b>	55/90 kW	65/150 kW	65/150 kW	65/150 kW
<b>Battery</b>	40 kWh	60 kWh	21 kWh	21 kWh
<b>H<sub>2</sub> Tank (700 bar)</b>	-	-	3,4 kg	5,1 kg
<b>Fuel cell power</b>	-	-	50 kW	50 kW
<b>WLTP range*</b>	180 km	270 km	350 km	500 km
<b>Payload</b>	1 500 kg	1 600 kg	1 500 kg	1 600 kg
<b>Total Weight</b>	3 T	3,2 T	3,2 T	3,4 T
<b>Max truck + towed load</b>	N/A	4,2 T	3,7 T	4,2 T
<b>Homologation</b>	N1 (VUL <3T5)			

\* WLTP value is calculated and will have to be revised and confirmed upon homologation testing.  
This documentation is not binding. LMI - PowiDian Mobility may revise specification and vehicle equipment without preliminary notice.

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