

DESCRIPTION

Electrichemical battery powered forklifts show long charging time and low autonomy. The Foundation has implemented a fuel cell power pack in a forklift, including hydrogen storage and all the necessary power electronics to replace the standard battery pack of an electric battery forklift.

During a workday, a battery forklift must change (or charge) at least one battery pack, (replacement time of about 15-30min). The hydrogen powerpack presents a fast charging time (2-3 minutes) and the range, if fully charged, is a complete workday (8 hours).

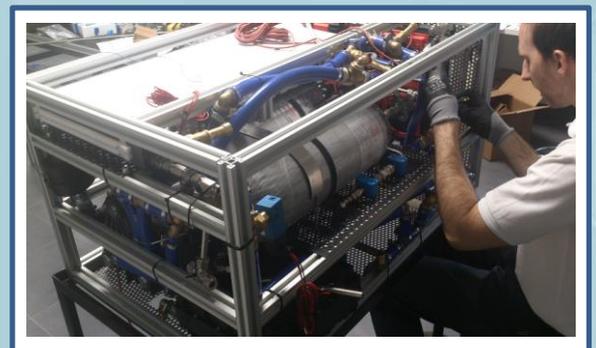
The whole balance of plant (BoP) and control systems have been also developed by the Foundation.

FEATURES

- Up to 18kW Fuel Cell
- Full BoP integration including storage and power electronics on batteries space
- ~3 minutes for full charge

DATOS TÉCNICOS:

Energy savings	Diesel Forklift: 3.6kWh/km
	Electric Forklift: 0.55Wh/km
	Hydrogen Forklift: 0.55Wh/km
Economics	Diesel Forklift: 15 000€
	Electric Forklift: 14 700€
	Hydrogen Forklift: 28 000€
Emissions	Diesel Forklift: 0.869kg/km
	Electric Forklift: 0kg/km
	Hydrogen Forklift: 0kg/km



FUNDED BY



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