

# OVERVIEW OF IMAGES

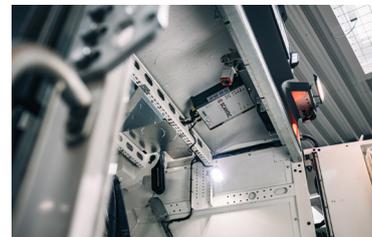
## PICTURE 001

SmartScan: Artificial intelligence analyses the composition of waste. This helps to separate waste better and more efficiently and increase recycling rates.



## PICTURE 002

ZOELLER subsidiary SCANTEC takes AI solutions for waste disposal to the next level. The SmartScan technology has just been certified by TÜV Austria with the „Trusted AI Application“ test mark for functional trustworthiness.



## PICTURE 003

BLUEPOWER is the resource-saving battery/hydrogen vehicle for climate-neutral disposal. This vehicle was specially developed for use in the waste disposal industry and represents a clean, CO<sub>2</sub> -neutral cycle.

### Hydrogen in the tank

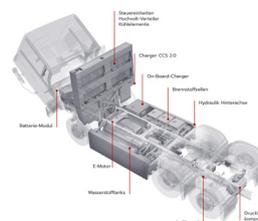
Electric motors also have a limited range due to the limited batteries. Added to this is the long charging time. With hydrogen fuel cell vehicles, the range only depends on how big the tank is. The Bluepower manages around 400 kilometres. Refuelling is similar faster than conventional diesel or petrol vehicles.



## PICTURE 004

### The Bluepower

The carrier is a glider based on the Mercedes Benz Econic chassis, to which the conventional drive train (combustion engine and exhaust system) has been added. The hydrogen fuel cell technology has replaced the hydrogen fuel cell system.

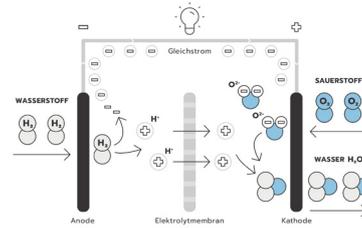


TECHNIK ENTSCHEIDET.

**PICTURE 005**

How a fuel cell works

In a fuel cell, the supplied fuel (in this case hydrogen) reacts with an oxidising agent (in this case oxygen from the air). This reaction produces water, electricity and heat. The cell consists of two electrodes: an anode (+) and a cathode (-). An electrolyte (a solid, liquid or gel-like membrane) separates the two and is responsible for transporting ions between the anode and cathode. The hydrogen molecules are oxidised at the anode, producing protons and electrons. The protons move through the electrolyte to the cathode, while the electrons pass through an external circuit. This produces usable energy. At the cathode, protons, electrons and oxygen then react to form water, which escapes as water vapour.



**PICTURE 006**

Magnum GPM: The Uncompromising One

Commercial waste disposal at the highest level - efficient, cost-optimised, climate-friendly. The new addition to the portfolio can also handle large quantities of waste in just one operation, with maximum interior capacity, maximised payload and economical energy consumption. Also available as a hybrid.



**PICTURE 007**

Thomas Schmitz, CEO ZOELLER GROUP



**PICTURE 008**

Markus Dautermann, COO ZOELLER GROUP



**PICTURE 009**

Volker Schröder, CFO ZOELLER GRUOP



### PICTURE 010

Thomas Schmitz, CEO ZOELLER Group (centre)  
Volker Schröder, CFO ZOELLER Group (right)  
Markus Dautermann, COO ZOELLER Group (left))



### PICTURE 011

The Bestseller: The Medium X4, rear loader with a standard usable volume of 18 to 25 m<sup>3</sup>. With its compact rear section and low overhang, it is ideally suited for collection in urban areas. And also available with alternative drives.



### PICTURE 012

The future of waste disposal: On the way to a clean circular economy. Waste collection vehicle with DeepScan technology on board.



### PICTURE 013

The future of waste disposal: On the way to a clean circular economy. Waste collection vehicle with DeepScan technology on board.



Use of this material is free of charge, provided the source ZOELLER GRUPPE is acknowledged.

**Any questions? Just give us a call.**

**Press contact:**

Kristina Lerch

Tel. +49 160-90 94 53 20

presse@zoeller-kipper.de

**TECHNIK ENTSCHIEDET.**