BLOOH SOLUTION LTD.

AGRICULTURE

HYDROGEN-POWERED MACHINERY
AND MOBILE REFUELING FOR
SUSTAINABLE FARMING.

www.blooh-solution.com

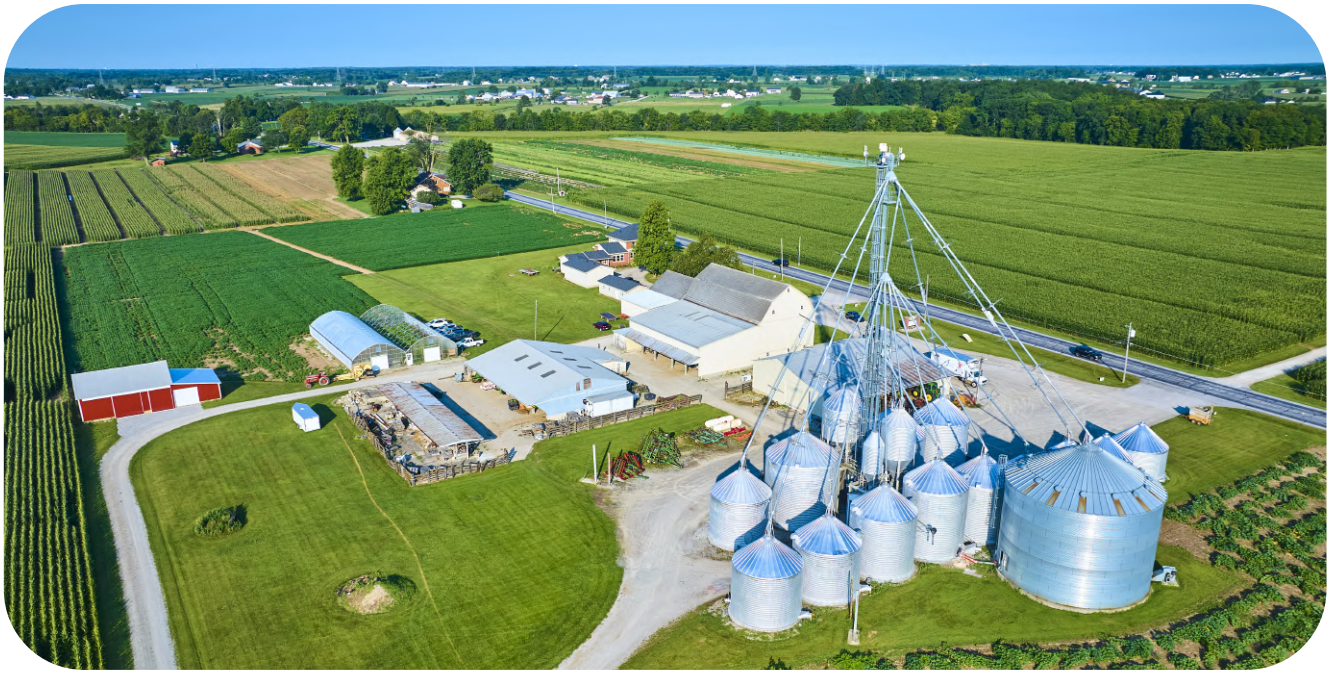
HYDROGEN-POWERED AGRICULTURE

BLOOH Solution, a company focused on developing innovative and sustainable technologies, has taken a major step towards revolutionizing agriculture by introducing hydrogen as a fuel to power farm machinery. With the growing concern for climate change and the need for sustainable practices, IIS has recognized the need for a more sustainable future and is committed to providing sustainable solutions for agriculture.

One of the major challenges facing the agriculture sector is the high carbon emissions generated by farm machinery. The use of fossil fuels in agriculture contributes significantly to greenhouse gas emissions, which exacerbates climate change. By utilizing hydrogen as a fuel, IIS is offering an alternative to fossil fuels, which can generate more energy with zero emissions.

The company's commitment to sustainable agriculture is reflected in its range of hydrogen-powered tractors, hybrid tractors, hydrogen-powered generators, and hydrogen generators. These machines offer a range of options to help farmers transition towards sustainable farming practices.

Hydrogen-powered tractors are a great option for farmers looking to reduce their carbon footprint. These tractors utilize fuel cells that convert hydrogen into electricity to power the tractor. The only by-product of this process is water vapor, making it a sustainable and eco-friendly option. IIS has also developed hybrid tractors that use a combination of hydrogen fuel cells and electric batteries to power the machinery. This approach helps to reduce emissions while maintaining the efficiency and power of the machinery .
BLOOH Solution also offers hydrogen-powered generators that can provide energy for irrigation systems and other farm equipment. These generators are highly efficient and produce zero emissions, making them a great option for farmers looking to reduce their carbon footprint. Additionally, the company offers hydrogen generators that can produce hydrogen on-site, eliminating the need to transport and store h ydrogen, which can be expensive and challenging.



TRACTORS

HYDROGEN-POWERED TRACTOR

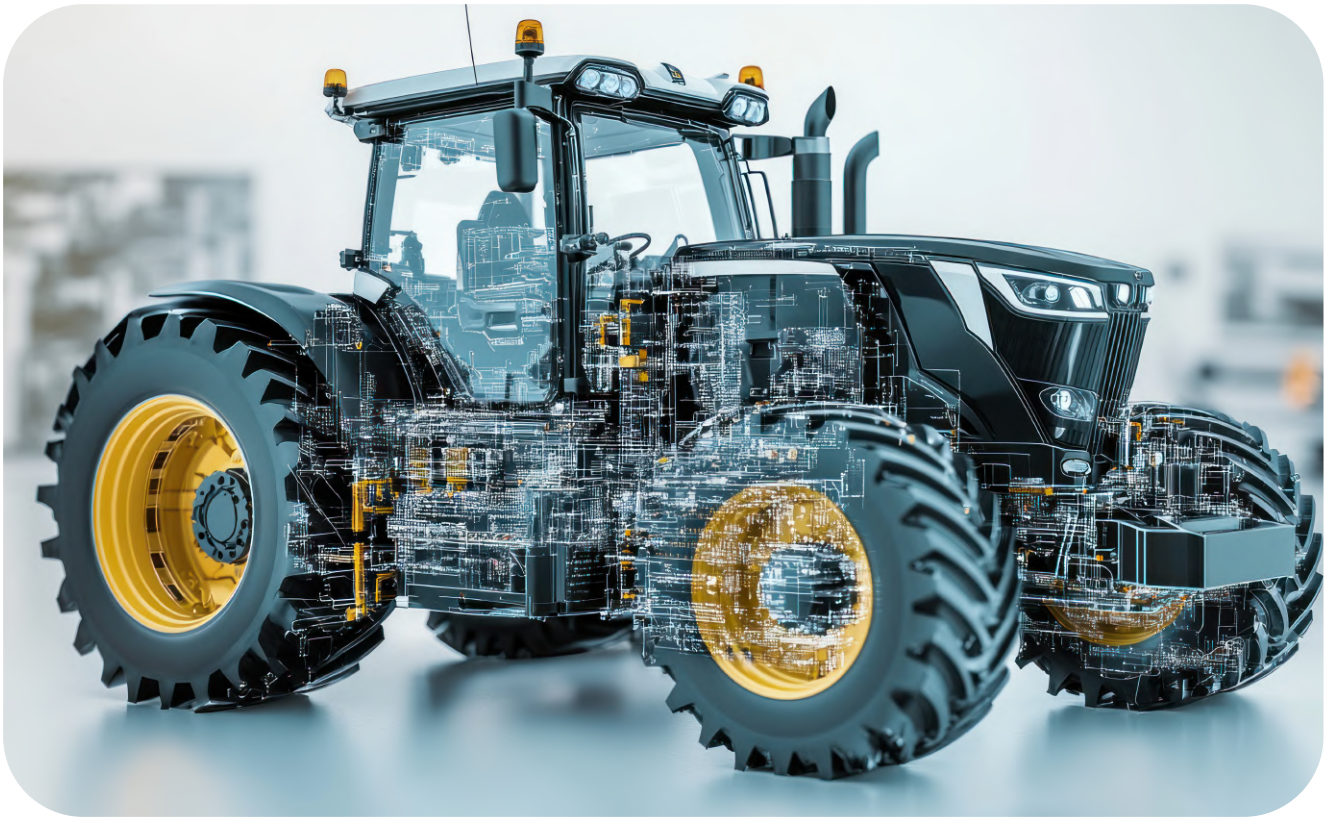
The HPT-3000 is a hydrogen-powered tractor that utilizes a PEMFC fuel cell to generate electricity to power the tractor. It has a power output of 55 kW, a top speed of 30 km/h, and consumes 1.5 kg of hydrogen per hour. It produces zero emissions, making it a sustainable option for farmers.

- Model: HPT-3000
- Fuel Cell Type: PEMFC (Proton Exchange Membrane Fuel Cell)
- Power Output: 55 kW (73.8 hp)
- Operating Pressure: 350 bar (5,076 psi)
- Max Speed: 30 km/h (18.6 mph)
- Fuel Consumption: 1.5 kg of hydrogen per hour (3.3 lbs/hr)
- Emissions: Zero

HYBRID TRACTOR

The HT-2000 is a hybrid tractor that uses a combination of an electric motor and a fuel cell to power the tractor. It has a power output of 30 kW and a top speed of 25 km/h. It consumes 0.9 kg of hydrogen per hour and produces zero emissions, making it an eco-friendly option for farmers.

- Model: HT-2000
- Engine Type: Electric Motor
- Battery Type: Lithium-Ion
- Fuel Cell Type: PEMFC
- Power Output: 30 kW (40.2 hp)
- Max Speed: 25 km/h (15.5 mph)
- Fuel Consumption: 0.9 kg of hydrogen per hour (1.98 lbs/hr)
- Emissions: Zero



GENERATORS

HYDROGEN-POWERED GENERATOR

The HPG-5000 is a hydrogen-powered generator that uses a PEMFC fuel cell to generate electricity. It has a power output of 5 kW and consumes 0.6 kg of hydrogen per hour. It produces zero emissions, making it an excellent option for farmers looking to reduce their carbon footprint.

- Model: HPG-5000
- Fuel Cell Type: PTGER
- Power Output: 5 kW
- Operating Pressure: 350 bar (5,076 psi)
- Fuel Consumption: 1.95 kg of hydrogen per hour (8.3 lbs/hr)
- Emissions: Zero

HYDROGEN GENERATOR

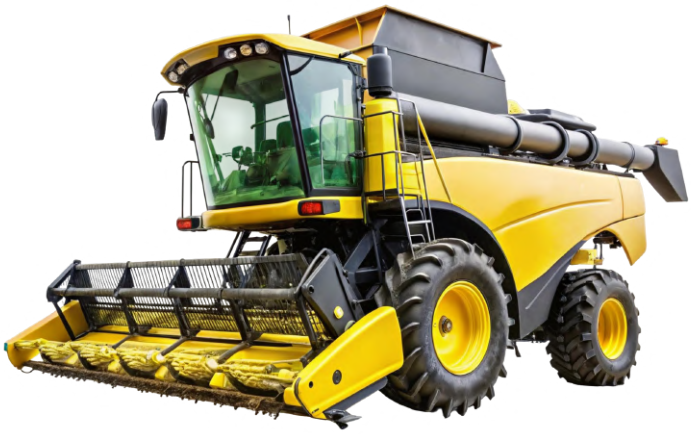
The HG-100 is a hydrogen generator that uses a PEM electrolysis process to produce hydrogen on-site. It has a power consumption of 1.2 kW and can produce up to 0.1 kg of hydrogen per hour. It has a maximum operating pressure of 30 bar and a maximum purity of 99.99%. It consumes 0.5 L of water per hour, making it an efficient and cost-effective option for farmers.

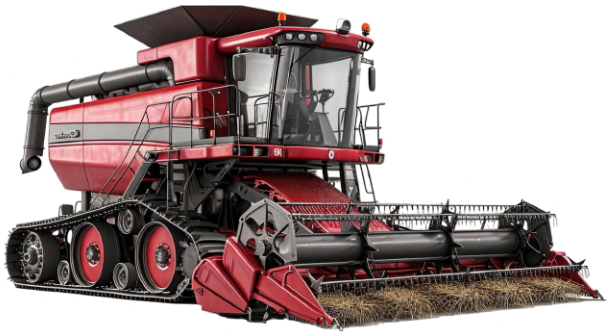
- Model: HG-100
- Electrolysis Type: PEM
- Power Consumption: 1.2 kW
- Max Hydrogen Production: 0.1 kg/h (0.22 bs/hr)
- Max Operating Pressure: 30 bar (435 psi)
- Max Purity: 99.99%
- Water Consumption: 0.5 L/h (0.13 gal/hr)

FARM MACHINES

HYDROGEN-POWERED COMBINE HARVESTER

- Model: HPC-3000
- Fuel Cell Type: HJ-780KT
- Power Output: 55 kW (73.8 hp)
- Operating Pressure: 350 bar (5,076 psi)
- Cutting Width: 3,000 mm (118 in)
- Grain Tank Capacity: 3,000 L (793 gal)
- Fuel Consumption: 1.5 kg of hydrogen per hour (3.3 lbs/hr)
- Emissions: Zero





HYDROGEN-POWERED IRRIGATION SYSTEM

- Model: HPI-500
- Fuel Cell Type: HJ-50K
- Power Output: 5 kW
- Operating Pressure: 350 bar (5,076 psi)
- Water Flow Rate: 500 L/h (132 gal/hr)
- Water Pressure: 3.5 bar (51 psi)
- Fuel Consumption: 0.6 kg of hydrogen per hour (1.3 lbs/hr)
- Emissions: Zero

BLOOH Solution is committed to providing sustainable solutions for agriculture by introducing hydrogen as a fuel to power farm machinery. The company's range of hydrogen-powered tractors, hybrid tractors, hydrogen-powered generators, and hydrogen generators are an excellent option for farmers looking to reduce their carbon footprint and transition towards sustainable farming practices. By embracing hydrogen as a fuel source, IIS is playing a crucial role in creating a more sustainable future for agriculture.

DRIVING INNOVATION FORWARD!

FOR MORE INFORMATION PLEASE CONTACT:

BLOOH Solution Ltd.
1055 Dunsmuir St
Vancouver, BC V7X 1L4

Tel: +1 604 260 6692