

HIAB wspr+

Electric hybrid crane solutions



HIAB wspr+

Powerful. Reliable. Quiet.

Introducing HIAB wspr+, the next evolution of our electric hybrid crane range. Building on proven performance, wspr+ delivers extended operating range, improved energy efficiency, and enhanced durability – combining the power of the ePTO with the traditional strengths of a diesel powered crane.

Operating your loader crane with a HIAB wspr+ electric power take-off system is cost-effective and free from both excess noise and exhaust fumes, ensuring a healthier and stress-free environment. The HIAB wspr+ solutions are easy to install and use. HIAB wspr+ offers maximum flexibility as a hybrid, compatible with both electrical and conventional

fuel engine systems. With the truck engine off, electrically powered cranes consume less energy, reducing operating and maintenance costs while providing quiet and reliable manoeuvring precision without toxic fumes. With increased battery capacity and improved thermal efficiency, HIAB wspr+ enables longer operating time between charges.





Power hybrid for flexibility

The HIAB wspr+ electric power take-off solution functions as a hybrid plug-in system, utilising a battery to power your loader crane with the vehicle's diesel engine as a potential back-up.

A fully charged battery typically lasts between 1–2 work days, depending on the crane size and working conditions. With up to 25% increased usable battery capacity, HIAB wspr+ extends operating range and reduces the need for intermediate charging. With updated thermal performance, the system sustains higher power levels in demanding applications or warm climate.

Increased business opportunities

With zero emissions during use, HIAB wspr+-fitted cranes can be operated in emission-restricted zones, indoors, in tunnel operations, and wherever there are people.

As operations are virtually silent, HIAB wspr+ are ideal for urban or other noise restricted areas, as well as early morning or night-time deliveries, which increases uptime potential and your bottom line.

Superior operator experience

Superior operator experience is achieved through the user-friendly design of HIAB wspr+, ensuring ease of use. Despite maintaining the lifting capacity of conventional cranes, these electric cranes offer silent and effortless manoeuvring, creating a more pleasant work environment for the operator.

The HIAB wspr+ has an intuitive and simplified control interface, providing real-time feedback to ensure optimal control during operation. Extended operating time also reduces interruptions, enabling smoother and more productive workflows.

Safer and healthier working conditions

The HIAB wspr+ crane's significantly reduced noise levels create a safer environment, enabling clearer on-site communication and minimizing operator fatigue.

Elimination of toxic exhaust fumes further enhances working conditions. Employee well-being is a key productivity and retention driver.

Up to 90% lower operating costs

HIAB wspr+-fitted cranes can operate with the truck engine off, resulting in up to a 90% reduction in energy costs compared to diesel cranes. The ePTO only uses the energy needed to move the crane, ensuring higher energy efficiency.

Reduced vehicle operating hours lead to savings in diesel and truck maintenance costs over time. Longer operating range further reduces charging frequency and increases productive uptime.

CO₂ reductions for business relevance

The HIAB wspr+ is a hybrid electric solution designed for crane operation with the engine switched off, effectively reducing your carbon footprint by up to 85% (manufacturing and use).

Even with a combination of diesel engine and electric operations, the total carbon footprint remains superior. Proactively meeting stringent legal requirements on CO₂ emissions is critical to future-proof your business.





ELECTRIC POWER FROM HIAB

A powerful model for every application

Hybrid installation

Hybrid plug-in system powers the crane by either battery or diesel, as needed. Downtime is minimised if the battery is drained, while extended operating range reduces the likelihood of interruptions in the first place.

Maximise your uptime

Powerful performance

Matches the speed, strength, and precision of diesel power, while enhancing operational response. Enjoy the same productivity, regardless of power source. Improved thermal management ensures consistent performance even under continuous high-load operation.

Optimised for your application

5 year warranty

Extensive warranty covering battery modules for five years. Additional battery parts are covered for two years. Don't worry about expensive battery repairs in the unlikely event of any issue. For even more peace of mind, extended coverage is available through HIAB ProCare Total R&M agreement.

For your peace of mind



Total R&M



Technical specifications

HIAB wspr+ is packed with innovative features. Get all the details about the latest electric hybrid crane range from HIAB that combines the power of the ePTO and the traditional strengths of a diesel powered crane.

HIAB wspr+

Hybrid solution integrated on the crane base.

HIAB wspr+ is suitable for most applications, with battery capacity for 1–2 work days.* With HIAB wspr+, increased usable battery capacity extends operating time by up to 25%, depending on application and conditions.

Updated version with increased usable battery capacity and improved thermal design.



	HIAB wspr+	
	eX. 142-162 HIPRO	eX. 192-232 HIPRO
Installation	Integrated	Integrated
Battery capacity	23 kWh	23 kWh
Maximum power	45 kW	45 kW
Maximum flow	60 lpm	90 lpm
Onboard charger	3 kW	3 kW
Fast charger option	13 kW	13 kW
Additional installation width	+73 mm	+59 mm
Additional weight ePTO	357 kg	405 kg
Oil tank capacity	85 L / 150 L	85 L / 150 L
Additional weight, Oil tank with oil	130 kg / 213 kg	130 kg / 213 kg

* Please contact your HIAB sales representative to estimate operational time for your application.

Customer faqs

What is new in HIAB wspr+?	The HIAB wspr+ delivers 25% more energy capacity and superior heat management for prolonged use. With updated thermal performance, the system sustains higher power levels in demanding applications or warm climate. Note: All new cranes feature HIAB wspr+ as standard.
How long will the battery last on a full charge?	On a full charge, the battery will last for at least 1–2 days for regular users. With HIAB wspr+, increased usable battery capacity can extend operating time by up to 25%, depending on application and conditions. Please contact your HIAB sales representative to estimate operational time for your application.
How long does it take for the battery to charge?	A completely discharged battery takes around 7 hours to fully charge using a standard industrial 3-phase socket (CEE 5-pin 400/16A).
How does the performance of an electric crane compare to traditional diesel truck-mounted cranes?	Our ePTO solution delivers performance comparable to traditional diesel truck-mounted cranes, enhancing operational response through the use of high-voltage power. This ensures the maintenance of both power and speed in most applications. The maximum flow is limited to 60 lpm for eX. 142/162 and to 90 lpm for eX. 192/232 HIPRO.
Are there any options for faster battery charging?	Yes, HIAB provides a powerful fast charging solution that can completely recharge a drained battery in approximately 2 hour. This rapid charging option is ideal for quick top-ups during lunch, keeping your crane ready, and maximising productivity.
What are the fuel savings from operating the crane with HIAB wspr+?	Fuel savings will vary based on your location, crane type, and usage. Please visit valuecalculator.hiab.com to calculate how much fuel you can save.
Will the truck battery run out of energy if all the working lights are on while operating HIAB wspr+ cranes?	No, the truck battery is charged by the HIAB wspr+ battery solution. Our systems are equipped with a 28V DC/DC converter that helps maintain the charge of the truck battery, ensuring continuous and uninterrupted operation.
What are the HIAB wspr+ warranty terms?	The wspr+ comes with an extensive 5-year warranty for the battery cells for long-term reliability. Other components are covered by a 2-year warranty. For even more peace of mind, extended coverage is available through HIAB ProCare including Total R&M agreement. Please contact your local HIAB service representative for more details.
What is the CO ₂ foot-print reduction from using an electric crane?	On average, your CO ₂ footprint is reduced by 60% to 85%. Please be aware that the actual reduction achievable may vary depending on location, crane model, and usage. For a customised estimation of CO ₂ savings and financial benefits, use our online business simulator at valuecalculator.hiab.com
Is it possible to keep the standard pump installation?	Yes, the HIAB wspr+ product range incorporates a hybrid system that allows you to retain your existing diesel-driven PTO pump during installation. Our design has a parallel setup, offering the flexibility to operate both systems as needed. Please note that the installation process may require an optional valve block if a variable pump is used in parallel.
How will the HIAB wspr+ help me improve operator safety?	The HIAB wspr+ emits zero emissions and reduces noise, which makes communications easier and reduces operator fatigue while increasing efficiency and wellbeing.
Can I charge the equipment battery while using/operating it?	Yes, the HIAB wspr+ option allows for AC or DC fast charging while in use, which helps to maximize uptime and increase productivity.
Is the HIAB wspr+ the right solution for my fleet?	Ideal for logistics and construction, the HIAB wspr+ delivers significant cost savings and operational freedom for night-time, tunnel, or trailer use. While not for every application or extreme heat, it ensures a safer, quieter work-space without sacrificing productivity. Its self-powered design is perfect for installations where external power is unavailable. Contact HIAB to determine if your specific duty cycle and climate are a match for this technology.

Access the HIAB Customer Value Simulator on Hiab.com here: valuecalculator.hiab.com



HIAB Customer Value Simulator apps:



Android app on
Google Play



iPhone/iPad app on
App Store



BUILT TO PERFORM

Hiab (Nasdaq Helsinki: HIAB) is a leading provider of smart and sustainable on-road load handling solutions, committed to delivering the best customer experience every day with the most engaged people and partners. Hiab's premium equipment includes HIAB, EFFER, ARGOS and ING loader cranes, MOFFETT and PRINCETON truck mounted forklifts, LOG-LIFT forestry cranes, JONSERED recycling cranes, MULTILIFT skiploaders and hooklifts, GALFAB roll-off cable hoists, ZEPRO, DEL and WALTCO tail lifts, and the service brand HIPERFORM, a comprehensive suite of smart solutions that help maximise the life-cycle value of Hiab's equipment.

As the industry pioneer, Hiab continues to make on road load-handling smarter, safer and more sustainable to build a better tomorrow. Globally, Hiab is represented on every continent through its extensive network of 3,000 own and partner sales and service locations, enabling delivery to over 100 countries. The company's continuing operations sales in 2025 totalled approximately EUR 1.6 billion and it employs approximately 4,000 people.

www.hiabgroup.com