



HIAB wspr
ELECTRIC HYBRID CRANE SOLUTIONS

HIAB wspr

POWERFUL. RELIABLE. QUIET.

Introducing HIAB wspr, the new electric hybrid crane range from HIAB that combines the power of the ePTO and 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.



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 1–4 days, depending on the crane size and working conditions. It can be conveniently charged anytime and anywhere you can access electricity and a 3-phase socket.



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.



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 wsprs 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.



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.



eSERIES
ELECTRIC POWER FROM HIAB



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.



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.

A POWERFUL MODEL FOR EVERY APPLICATION





SERIES

ELECTRIC POWER FROM HIAB

HYBRID INSTALLATION

Hybrid plug-in system powers the crane by either battery or diesel, as needed.

Downtime is eliminated if the battery is drained.

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.

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 your peace of mind



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 Light Duty

Hybrid solution integrated on the crane base.

Light Duty is optimised for drop-off applications or for use during specific time windows.

HIAB wspr Standard

Hybrid solution integrated on the crane base.

Standard Duty is suitable for most applications with a battery capacity for 1-2 work days*.

HIAB wspr Heavy Duty

Chassis-mounted hybrid solution.

The Heavy Duty battery pack is optimised for applications requiring long working hours or less frequent charging sessions.



	HIAB wspr Light Duty iX.142 -162	HIAB wspr Standard iX.142 -162 X-HIPRO 192-232 X-HIPRO 262-302		HIAB wspr Heavy Duty	
Duty type	Optimised for drop off deliveries	Suitable for most applications	Suitable for most applications	Suitable for most applications. Up to 6 extensions	Optimised for long working hours or less frequent charging
Installation	Integrated	Integrated	Integrated	Integrated	On chassis
Battery capacity	15 kWh	20 kWh	20 kWh	20 kWh	41 kWh
Maximum power	30 kW	40 kW	40 kW	40 kW	40 kW
Maximum flow	60 lpm	90 lpm	90 lpm	90 lpm	90 lpm
Onboard charger	3 kW	3 kW	3 kW	3 kW	9 kW
Fast charger option	13 kW	13 kW	13 kW	13 kW	-
Additional installation width	+73 mm	+73 mm	+59 mm	None	480 mm motor box, 1030 mm battery box **
Additional weight ePTO	331 kg	357 kg	405 kg	405 kg	668 kg
Oil tank capacity	75 L / 150 L	75 L / 150 L	75 L / 150 L	75 L / 150 L	
Additional weight oil tank	90 kg / 159 kg	90 kg / 159 kg	90 kg / 159 kg	90 kg / 159 kg	

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

** Can be placed on separate sides of chassis.

CUSTOMER FAQs

	Light Duty	Standard	Heavy Duty
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. Please contact your HIAB sales representative to estimate operational time for your application.		On a full charge, the battery will last for at least 3–4 days for regular users. 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 4 hours to fully charge using a standard industrial 3-phase socket (CEE 400/16A).	A completely discharged battery takes around 6 hours to fully charge using a standard industrial 3-phase socket (CEE 400/16A).	The estimated charging time for a completely discharged battery is approximately 4 hours when using a standard industrial 3-phase socket (CEE 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 iX.142/162 and to 90 lpm for X-HIPRO 192/232/262/302.		
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 1 hour. This rapid charging option is ideal for quick top-ups during lunch, keeping your crane ready, and maximising productivity.		Not for the Heavy Duty battery, which already has three onboard chargers.
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 HIAB wspr product range features a comprehensive 5-year warranty for the battery cells, securing dependable long-term use. The remaining components are backed by a 2-year warranty. For extended coverage on these parts, additional warranty options are available. Please consult the HIAB service agent in your region for further details.		
What is the CO ₂ footprint 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 entire range of HIAB wspr products allows for AC charging while in use, which helps to maximise uptime and increase productivity.		

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



HIAB Customer Value Simulator apps:



Android app on Google Play



iPhone/iPad app on App Store

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BUILT TO PERFORM

Hiab is a leading provider of smart and sustainable load handling solutions. We are committed to delivering the best customer experience every day with the most engaged people and partners. Hiab's premium equipment includes HIAB, EFFER and ARGOS loader cranes, MOFFETT and PRINCETON truck mounted forklifts, LOGLIFT forestry cranes, JONSERED recycling cranes, MULTILIFT skiploaders and hooklifts, GALFAB roll-off cable hoists, and tail lifts under the ZEPRO, DEL and WALTCO brands. As the industry pioneer, Hiab continues to make load handling smarter, safer and more sustainable to build a better tomorrow. Hiab is part of Cargotec Corporation.

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