

# HIAB X-HIPRO BIG CRANES





# HIAB BIG CRANES GRACEFUL GIANTS







# HIAB BIG CRANES

The Hiab heavy range is packaged, state-of-the-art load-handling technology. The cranes boast many technical features for different applications – each feature designed to make your crane fast, smooth and safe.

A few examples:

- Lateral deflection and unexpected movements when manoeuvring loads in high positions are avoided thanks to full-sequence cylinders, hexagonal profiles and large slide pads.
- VSL+ makes working in confined spaces easy while retaining stability and high capacity.
- Our HiPro system ensures fingertip precision no matter how far the crane boom tip is extended.
- Smooth operation and fine precision thanks to a robust, well-designed boom system and the HiPro system.

## **Easy tilting of stabiliser legs *NEW***

*The stabiliser legs can be hydraulically tilted and fully controlled throughout the tilting range. This makes setting up your crane easier and quicker.*

## **Base mounted oil tank *NEW***

*An oil tank mounted on the crane base means simpler installation, easy access and easier maintenance.*

## **Bolted integrated subframe *NEW***

*The base of the crane and the subframe act as a single part in an integrated subframe. This keeps crane delivery and installation times to a minimum and ensures a perfect fit. Patent pending.*

## **Auxiliary legs *NEW***

*The auxiliary legs are perfectly adapted to suit your crane, and fully integrated into the hydraulic and electronic systems.*

## **Variable Stability Limit + (VSL+) *NEW***

*VSL+ is a safety system that automatically regulates crane capacity in relation to actual stability by sensing the position of each stabiliser leg and whether there is a load on the truck.*

## **Chain driven stabiliser span *NEW***

*The 9-metre chain-driven stabiliser span has only one extension cylinder, yet two telescopic extension beams. This almost doubles extension speed, saving valuable time when setting up and stowing your crane.*





**Full Sequence Cylinders (FSC)**

A stable boom system is essential, especially when controlling loads in high positions. FSC prevents deflection or any unexpected movements in the boom system.

**Load Stability System (LSS) NEW**

LSS automatically compensates for unintentionally excessive lever moment in vertical operations. This makes crane operation faster and smoother and helps protect the cargo, the vehicle and the work environment in the vicinity of the crane against potential damage.

**Easy and quick installation of jib to crane NEW**

A quick and easy jib attachment system maximises flexibility.

**Jib Dual Capacity (JDC)**

The JDC function optimizes jib performance by providing a capacity boost when the outermost extension of the second boom is retracted.

**Boom Deployment Assistant (BDA)**

By continuously monitoring the angle and position of the boom during folding/unfolding, BDA automatically prevents the operator from making any movement that might damage the crane.

**Easy folding jib and hoist NEW**

Fold your crane, jib and hoist without having to remove pulleys and hoist rope. An integrated pulley system saves valuable time when setting up the crane and stowing it away.

**Long jib support NEW**

The long jib support acts like a manual extension, providing another 1.5 metres of outreach while keeping the same compact crane design.

# PERFORMANCE

Whether you are looking for high-speed, pinpoint precision, smooth operation, long outreach, the ability to access confined spaces or extra capacity when required, rest assured that a HIAB crane will never disappoint you.

## Load Stability System (LSS) **NEW**

Whenever you need to transfer and set down loads quickly, safely and smoothly, LSS greatly improves productivity. The function automatically compensates for unintentional moment in vertical operations and automatically counteracts them. It dampens lifting movements even if a control lever is released hastily. As a result, LSS not only makes crane operations faster and smoother, it also helps to protect cargo, the vehicle and the work environment in the vicinity of the crane against potential damage.

## HiPro control system

HiPro is simply the most advanced control system on the truck-crane market today, delivering unrivalled speed, precision and safety. This is achieved by combining the CombiDrive<sup>2</sup> remote control, SPACE 5000 intelligence and a variable pump. Capacity is increased significantly by Automatic Speed Control (ASC). Pump Flow Distribution (PFD) maximises productivity by ensuring super-smooth operation at all times.

## Automatic Speed Control (ASC)

ASC gives a stepless increase in lifting capacity of up to 10%, all in one smooth, continuous motion. This unique feature, engages automatically, which means that the operator does not feel or notice a thing. The function activates as you reach the regular capacity limit, meaning that you can still lift the load where other cranes would have come to a complete stop. To compensate for the capacity boost, the speed of the inner and outer boom is slightly reduced. Capacity ceiling, safety and efficiency are significantly increased by this feature.

## Pump Flow Distribution (PFD)

Hiab cranes can handle the highest oil throughput in the market. But skilled crane drivers, able to operate several functions at the same time, want even more from their crane. And Hiab delivers, with PFD. In situations where the operator is working at the limits and using multiple functions simultaneously, even the largest pump may not be able to supply enough oil. This can result in the crane acting unpredictably, but not if your crane is equipped with PFD. This innovative system distributes the available oil in proportion to the operator's lever movements. All functions will continue to work just as expected with no disturbances or surprises, although you require more oil flow than available. Once full oil flow is restored, it is full speed ahead once again. PFD has proven extremely useful in practice. Even at an oil flow of 100 l/min, the system activates three times per load cycle during normal use. If you demand maximum convenience and productivity from your crane, you should not settle for less than a crane equipped with PFD.

## Long jib support **NEW**

*By increasing jib support from 0.5 metres to 2.0 metres it acts like a manual extension, providing another 1.5 metres of outreach while keeping the same compact crane design.*





## Valve 200

The Hiab Valve 200 represents the pinnacle of hydraulic valve technology. It is load-sensing and pressure-compensated which improves both speed and precision. It features a wide range of top class features, one being that the same control lever movement always produces the same crane response, irrespective of whether you are using one function or more, with a light or heavy load. Valve 200 also ensures Pump Flow Distribution (PFD) which keeps the crane operating independently of the oil flow available. This keeps lifting, hoisting and other crane functions running simultaneously at the same relative speed.

Valve 200 enables your crane to be controlled with finger-tip precision regardless of how far out the crane boom tip is. This, of course is invaluable in confined spaces.

## SPACE 5000 intelligence system

The SPACE 5000 intelligence system is designed to assist the operator in two kinds of ways, with safety and productivity. On this model the safety functions include Over Load Protection (OLP) and optional High boom warning. While the Automatic Speed Control (ASC) and Pump Flow Distribution (PFD) keep up productivity. Service personnel can extract information such as fault codes and load cycle data from the system. The SPACE 5000 system is a part of the HiPro control system.



## Easy folding jib and hoist **NEW**

Thanks to an integrated pulley system you can fold your crane, jib and hoist without having to remove the pulleys and hoist rope. This saves hassle and valuable time when setting up the crane and stowing it away.

## Jibs

A jib, mounted on your crane, gives your business extra reach and flexibility. This can come in handy for example when spot-placing goods or material. To be able to carry out the perfect job you want to deliver your payload all the way to its final destination. This could be through a fifth floor window, a narrow passage or to a rooftop. By equipping your crane with a jib all this is possible – with maintained speed, safety and precision. Hiab offers a wide selection of jibs, enabling us to supply the most suitable jib to match your crane and truck combination. Jibs are also available with a hoist where there's no need to remove the rope and pulleys prior to folding the crane into parked position.

## Jib Dual Capacity (JDC)

The JDC function, which is available for some of Hiab's cranes ranges, provides a capacity boost when the outermost extension is retracted. This makes it possible to handle even heavier loads, yet offers all other benefits of a crane/jib-configuration when needed. The Jib Dual Capacity function is always running in the background – without the operator having to take any action.

## CombiDrive<sup>2</sup>

*With the Hiab CombiDrive<sup>2</sup> you can benefit from information, precision, feel and function – to a higher degree than with anything else on the market. Three active displays give access to vital information from your crane. A live symbol indication function ensures that the correct lever symbol is shown at all times – no matter what function is currently running on each lever. The lever response is outstanding, enabling load handling with finger-tip feel and precision.*



## E-link

The E-link system comprises both an inner boom link and an outer boom link. The E-link system significantly increases the crane's lifting capacity in high boom positions, especially when working close to the column. It is ideally suited on scaffolding by delivering heavy loads with a straight boom system, all the way up to the crane's maximum reach. The outer boom link does not protrude below the boom and thereby does not interfere with load placed under the boom.

## Easy tilting of stabiliser legs **NEW**

When you're trying to keep up with a really challenging schedule, any time saved on delivery turnarounds is a big help. The stabiliser legs can be hydraulically tilted and fully controlled throughout the tilting range, making crane set-up easier and quicker.





# MOUNTING / INSTALLATION

Nobody likes waiting. Not you and certainly not your customers. Luckily, we have smart features that make the installation and mounting of your HIAB crane quicker and easier, so you can devote time to the job instead.

## **Base mounted oil tank *NEW***

A base-mounted oil tank not only means simpler installation, easy access and easier maintenance, but also reduced costs. Best of all, truck components need no re-arranging during installation.

## **Bolted integrated subframe *NEW***

An integrated subframe keeps crane delivery and installation times to a minimum and ensures a perfect fit. With this solution, the base of the crane and the subframe act as a single part. This makes mounting the crane easier, as there is no need to use big lateral attachment plates normally required between the subframe and the chassis.

## **Optimal pre-conditions for mounting *NEW***

Your HIAB crane is optimised for easy mounting on the truck chassis. The crane is built to have as low an overall weight as possible, including any necessary chassis re-enforcements.

## **Installation technical support *NEW***

To make installing your crane simpler and quicker, we provide complete documentation including technical data, installation instructions and software for calculating axle loading and stability.

## **Built to exceed industry standards *NEW***

Every HIAB crane is independently tested, verified and certified confirming design conformity with the loader cranes Machinery Directive MD 2006/42/EC and thus compliance with EN 12999:2009. In addition, calculation methods and mechanical strength are independently verified to comply fully with EN 13001.

To further assure quality, performance and longevity, we have developed our own standards, verified through extensive laboratory testing, that far exceed the requirements of European machinery directives and standards.

## ***Easy and quick installation of jib to crane***

*Your crane's boom and jib design is fully optimised and includes a jib system that is quick and easy to detach to maximise efficiency and flexibility.*







# SAFETY AND EASE OF USE

There can be no compromise on safety; not yours, that of the people around you, goods being loaded or unloaded or the environment. HIAB cranes not only provide the highest safety, but also outstanding utility.

## Auxiliary legs **NEW**

Your high capacity crane requires an extra set of stabiliser legs and our auxiliary legs provide the solution. They are totally integrated into the control system and therefore perfectly adapted to suit your crane, precisely as needed in your installation.

## Variable Stability Limit + (VSL+) **NEW**

VSL+ protects crane operators and people nearby as well as the crane and vehicle. The system automatically regulates crane capacity in relation to actual stability while working – instantly. Sensors installed in the stabiliser legs detect maximum working capacity by sensing the position of each leg and whether there is a load on the truck.

## Boom Deployment Assistant (BDA)

The Boom Deployment Assistant oversees the safe folding and unfolding operation of your crane. Equipped with sensors that continuously monitor the angle and position of the boom, the system automatically prevents the operator from making any movement that might damage the crane.



## Full Sequence Cylinders (FSC)

Boom system stability is essential, especially when controlling loads in high positions. Lateral deflection and unexpected movements are avoided thanks to FSC. The system governs the oil distribution from one cylinder to the next.







# DURABILITY

Your crane must be dependable and hard-wearing. You must be able to rely on it in every situation. HIAB cranes will make sure you deliver the goods to customers efficiently and productively today, tomorrow and well into the future.

## 9-metre chain driven stabiliser span **NEW**

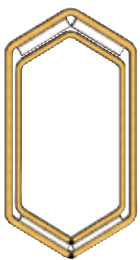
It might appear simple, but setting up a crane before a lift takes time and affects crane performance. The 9-metre chain-driven stabiliser span minimises set-up time and ensures best possible crane performance.

The system has only one extension cylinder, yet 2 telescopic extension beams. Using a single cylinder almost doubles extension speed compared to a conventional configuration, saving valuable time when setting up and fully stowing your crane. In addition to speed, the system always ensures optimal overlap between the different parts of the telescopic system to provide the best possible stabiliser strength and rigidity in every possible position.

As the system is completely analogue and equipped with our latest VSL+ stability system, it automatically regulates crane capacity relative to actual stability while working – instantly.

## Ultra high tensile strength steel

Your HIAB crane is manufactured using premium quality, ultra-high tensile steel. This not only gives it the structural strength and capacity needed to deliver those heavy loads, it also offers considerable weight-saving advantages. The lighter the crane, the heavier the load your truck can carry.



## Hexagonal boom profile

The hexagonal profile ensures the boom is always in perfect balance, thanks to its shape and its large support surface. The profile also minimises boom deflection. This reduces maintenance costs and increases efficiency.

## Larger shafts and wider bushings

Reducing the need for servicing wherever possible helps lower the cost of ownership and keeps downtime to a minimum. The use of wider bushings and shafts that are 30 per cent larger than average, eliminates the need for maintenance and extends intervals between replacements. Assuming a crane is properly serviced, maintained and operated, the bushings and shafts may last up to 60,000 cycles before the need for replacement.



## Continuous slewing

With HIAB's proven continuous slewing system you can move loads safely in all directions without having to worry about slewing stops. The system includes two motors as standard and delivers superb slewing power and precision. Continuous slewing means one less thing to worry about when operating your crane and transferring loads safely and smoothly to where they are needed. Infinite rotation means you can always work freely around the perimeter of the truck and slew in whatever direction you prefer.

# HIAB BIG CRANES

## HIAB X-HIPRO 858

The X-HIPRO 858 is the second largest crane in our selection. A configuration with eight extensions gives an outreach of 19.7 metres and a lifting capacity of 701 kNm. Fitted with a JIB150X-6 with extra-long support, the outreach is expanded to just under 35 metres.

- Long outreach
- Powerful Jib for flexibility and extra reach
- Fitted with performance-enhancing features
- Intelligent technology featuring the HiPro control system
- Easy mounting and installation

## HIAB X-HIPRO 1058

The X-HIPRO 1058 is the most powerful crane we offer. A configuration with eight extensions gives an outreach of 19.7 metres and a lifting capacity of 803 kNm. Fitted with a JIB150X-6 with extra-long support, the outreach is expanded to just under 35 metres.

- Long outreach
- More capacity at long outreaches
- Powerful Jib for flexibility and extra reach
- Fitted with performance-enhancing features
- Intelligent technology featuring the HiPro control system
- Easy mounting and installation

Technical data	HIAB X-HIPRO 858 EP-6	HIAB X-HIPRO 858 E-10	HIAB X-HIPRO 858 E-8 + JIB 150X-6	HIAB X-HIPRO 1058 EP-6	HIAB X-HIPRO 1058 E-10	HIAB X-HIPRO 1058 E-8 + JIB 150X-6
Max. lifting capacity (kNm)	725	692	701	825	794	803
Outreach, hydraulic extensions (m)	16.4	24.0	19.7	16.4	24.0	19.7
Outreach, with jib (m)	-	-	31.8	-	-	31.8
Outreach, with jib, with manual extension (m)	-	-	33.3	-	-	33.3
Outreach, with jib, extra-long support out (m)	-	-	33.3	-	-	33.3
Outreach, with jib, extra-long support out, with manual extension (m)	-	-	34.8	-	-	34.8
HiPro	Yes	Yes	Yes	Yes	Yes	Yes
Integrated Subframe	Optional	Optional	Optional	Optional	Optional	Optional
VSL+	Optional	Optional	Optional	Optional	Optional	Optional
Long Jib support	-	-	Optional	-	-	Optional

*This table shows a few examples of models, and represents some of all options available. With the opportunity to configure your crane, we can provide you with a crane perfectly tailored to your needs.*

*Please contact your local dealer for more information on the variety of options we can offer.*





## **Sales and Service network**

Hiab's global network offers extensive services that ensure the continuous, reliable and sustainable performance of our equipment. We have the most comprehensive distribution network in the industry, supporting all Hiab's customers – through sales companies in 23 countries and 65 independent distribution partners, giving us more than 1500 sales and service outlets. This service network guarantees that we are always close to you, ready to give advice on applications and provide service and spare parts.

# BUILT TO PERFORM

Hiab is the world's leading provider of on-road load handling equipment. Customer satisfaction is the first priority for us. Hiab's product range includes HIAB loader cranes, JONSERED recycling and forestry cranes, LOGLIFT forestry cranes, MOFFETT truck mounted forklifts and MULTILIFT demountables, as well as DEL, WALTCO and ZEPRO tail lifts.

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PF-1058-858-EN-EU\_150218



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