



# Hiab XS 855

## Capacity 578,600 ft-lbs (80 tm)



Product brochure



Powerful and flexible





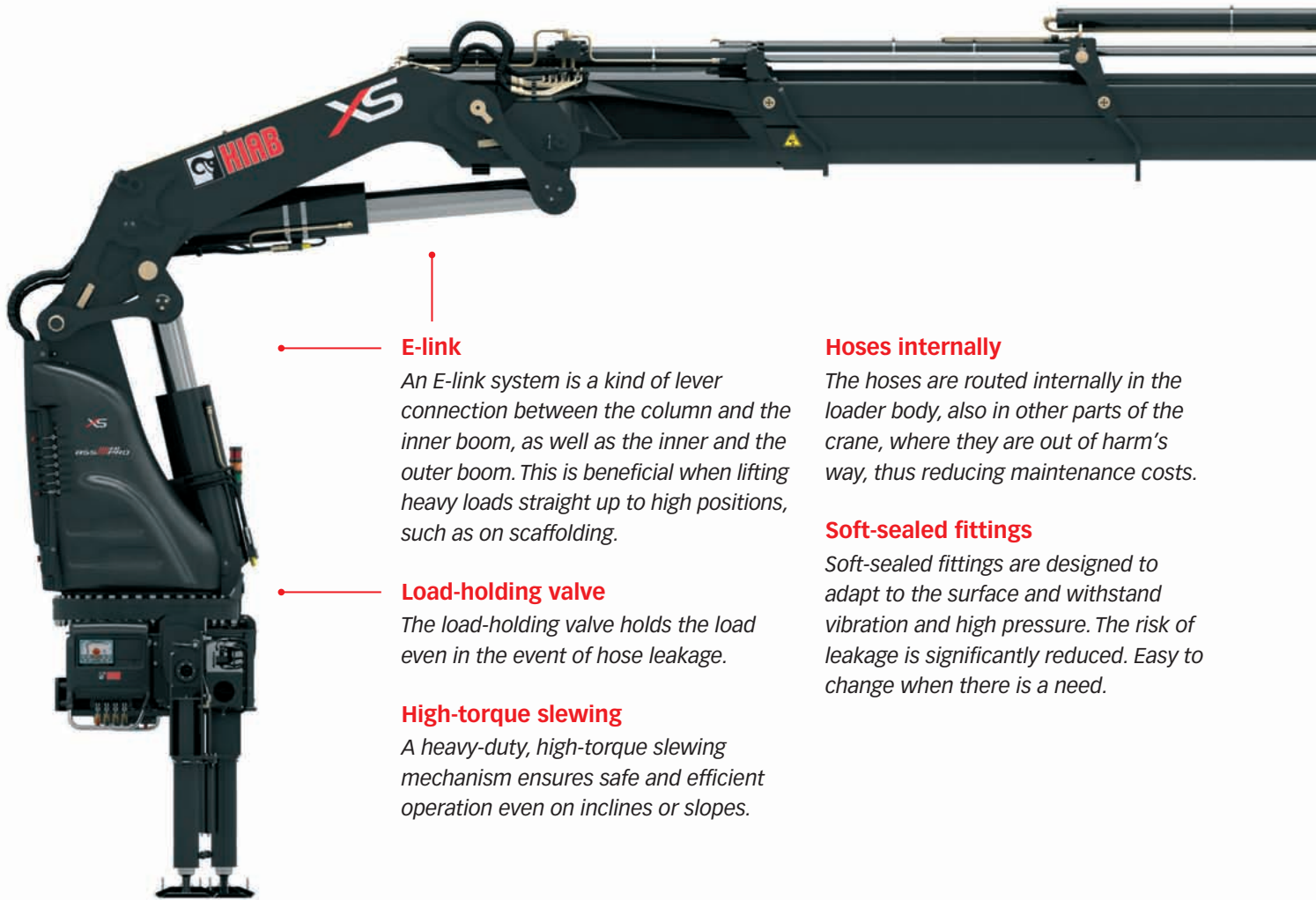
# Hiab XS 855 Capacity 578,600 ft-lbs (80 tm)

## The Hiab XS 855 – powerful and flexible

The Hiab XS 855 is fitted with E-link and X-functions to provide both additional flexibility and power. To increase flexibility even more, fit your Hiab XS 855 with one of our jibs with the Dual Capacity function (JDC). A JDC (jib with dual capacity) boosts the crane's capacity when the outermost extension is completely retracted. For a Hiab XS 855 with eight extensions and a 145X JDC capacity increases up to 20% when the eighth extension is not in use, handling up to 2,470 lbs as far out as close to 89 feet. To ensure maximum performance and safety, the Hiab XS 855 comes with a neat package of intelligent technology featuring the HiPro control system along with state-of-the-art Valve 91 and the SPACE 5000 intelligence system. Hiab XS 855 brings a new dimension to your line of work.

### X-function

*Angling the outer boom upwards relative to the inner boom gives greater accessibility in confined spaces.*



### E-link

*An E-link system is a kind of lever connection between the column and the inner boom, as well as the inner and the outer boom. This is beneficial when lifting heavy loads straight up to high positions, such as on scaffolding.*

### Load-holding valve

*The load-holding valve holds the load even in the event of hose leakage.*

### High-torque slewing

*A heavy-duty, high-torque slewing mechanism ensures safe and efficient operation even on inclines or slopes.*

### Hoses internally

*The hoses are routed internally in the loader body, also in other parts of the crane, where they are out of harm's way, thus reducing maintenance costs.*

### Soft-sealed fittings

*Soft-sealed fittings are designed to adapt to the surface and withstand vibration and high pressure. The risk of leakage is significantly reduced. Easy to change when there is a need.*

### **Faster extensions**

*New extension cylinders, and a regenerative load holding valve, give faster extension speed.*

### **Hexagonal boom profile**

*The hexagonal profile used on Hiab booms is a ground-breaking design introduced by Hiab many years ago. It is now standard throughout the market for loader cranes. Even the smallest Hiab crane benefits from this design.*



### **Side supports for stability**

*Side supports fitted on each boom extension stabilize the boom laterally and minimize the play. Most Hiab crane models can be delivered with extension side supports.*

### **Large slide pads**

*The hexagonal profile enables the use of larger slide pads. This makes the extensions move more smoothly and reduces mechanical wear on the boom.*

### **Attachable tools**

*A wide range of attachable tools are available for your Hiab crane. These make sure you can carry out a lot of different tasks.*



### HiPro control system

HiPro is simply the most advanced control system on the truck-crane market today, delivering unrivalled speed and precision. This is achieved by combining the CombiDrive<sup>2</sup> remote control, SPACE 5000 intelligence and Valve 91. Capacity is increased significantly by Automatic Speed Control (ASC). Pump Flow Distribution (PFD) maximizes productivity by ensuring super-smooth operation at all times.

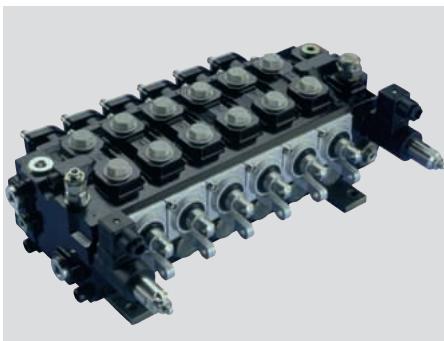
### Valve 91M

The Hiab Valve 91M 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 abilities. 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 91M 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 91M 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.

### 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.

The weight of the CombiDrive<sup>2</sup> is approximately 5 lbs.



### Valve 91M

*The Hiab Valve 91M represents the pinnacle of valve technology, handling very large oil throughputs. It is a closed-centre, pressure-compensated, load-sensing control valve, providing the operator with finger-tip feel when handling the crane.*



### CombiDrive<sup>2</sup>

*With the Hiab CombiDrive<sup>2</sup> you can position yourself at the best possible location when operating the crane. It features 24 proportional and 12 on/off functions for controlling the crane, optional equipment and accessories, all with the same precision.*







### SPACE 5000 intelligence system

The SPACE 5000 intelligence system is designed to assist the operator in two kinds of ways, with precision movements 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.

### Automatic Speed Control (ASC)

ASC gives a stepless increase in lifting capacity of up to 10%, all in one smooth, continuous motion. This feature, unique to Hiab, 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 operators, 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 26 GPM, 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.

### A jib takes you there

*Mounting a jib on your crane provides easy access to remote areas. You can deliver your load all the way to the final destination, quickly and comfortably. Increased efficiency and versatility will make your business more profitable.*







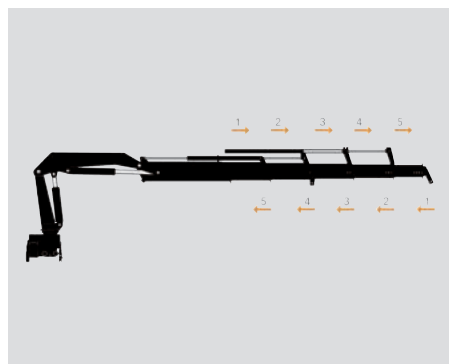
### E-link

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.

### 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.



### Controlled extension and retraction sequence

A controlled sequence means that the extensions always move in the same order. Extracting and retracting the extensions in a controlled sequence means that the total weight is lower, this is of most importance on a long boom system.

### Boom Deployment Assistant (BDA)

*This is an optional function making folding and unfolding of the crane easier to perform.*



### 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.*







# Load handling technology for maximum performance

## **Operating your crane by remote control**

One of the benefits of Hiab's remote control units is that the crane operator can be positioned at the best possible location when operating the crane. This leads to more efficient, comfortable work. A further spin-off effect is that you can be your own loading assistant positioning yourself next to the load, or wherever the loading assistant should be standing. Tasks will be completed faster and at lower cost.

## **Design innovation – driven by you**

Hiab is part of Cargotec, renowned throughout the world for innovation and engineering excellence. The quality and reliability of our cranes is without equal in the truck loader market. But there is another crucial factor in our global success. We have a philosophy of listening, and responding, to the needs of those who matter most – the people who own and operate our cranes. The design and development of every crane we manufacture is customer-driven. This will become really clear when using your Hiab loader crane.

In this case, the energy balance is excellent – our customers can benefit from lowered diesel consumption as well as reduced contamination and increased profitability. This has been solved by a new regenerative load handling valve, a new design of full sequence cylinders and by using a variable pump as standard.



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