

# Hiab XS 1055 Capacity 90 tm



Product brochure



Offering sophisticated manoeuvrability



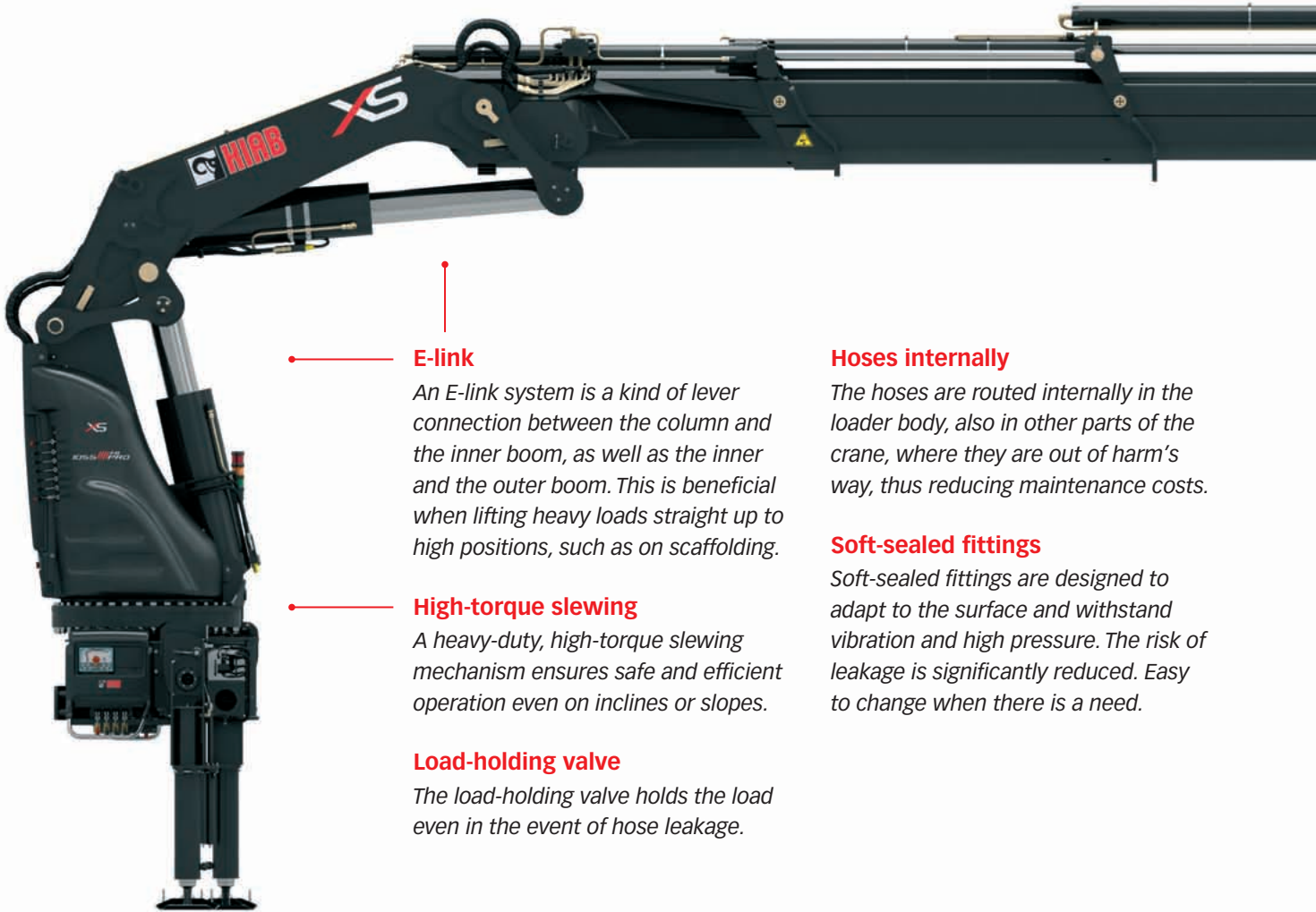
# Hiab XS 1055 Capacity 90 tm

## The Hiab XS 1055 is a graceful giant

The Hiab XS 1055 is wrapped up state-of-the-art in load handling technology. The diesel consumption and contamination have been reduced and the profitability increased. 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. Outreach and flexibility are the distinguishing features of this giant crane. It is available with up to 10 hydraulic extensions with a total hydraulic outreach of close to 24 metres,

where it can lift 2.5 tonnes. Our hydraulically operated Jib 175X-5 JDC – meaning a jib with dual capacity which boosts capacity when the outermost extension is retracted – handles up to 1240 kg at an outreach of 29 metres.

The Hiab XS 1055 is fitted with the HiPro control system, featuring the sophisticated Valve 91 and the SPACE 5000 intelligence system. We use state-of-the-art technology to keep up crane productivity – always with safety and comfort at the top of our minds.



### 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.*

### High-torque slewing

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

### Load-holding valve

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

### 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.*

### **X-function**

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



### **Faster extensions**

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



### **Hexagonal boom profile**

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



### **Side supports for stability**

*Adjustable side supports fitted on each boom extension stabilize the boom laterally and minimize the play. This increases precision and is especially beneficial on boom systems with long outreach.*



### **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, precision and safety. 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 91

The Hiab Valve 91 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 91 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 91 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 2.3 kg.



### Valve 91

*The Hiab Valve 91 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 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.

### 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 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 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.

### 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**

An E-link boom has all the advantages of both a C- and a D-link. The links forces out the boom cylinders to obtain a long lever arm, which will ensure a maximum distance between the booms and cylinders in all boom positions.

**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.

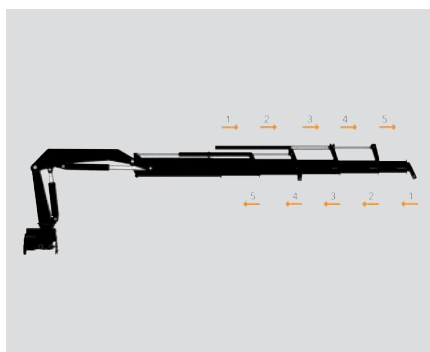
**Boom Deployment Assistant (BDA)**

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



**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.*



# A neat package of world class 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 and also increases safety. 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 are 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 are 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 cylinder and by using a variable pump as standard.



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IT'S ALL ABOUT QUALITY™

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