

Hiab XS 622

Capacity 58 tm



Product brochure



Hiab XS 622 HiPro

Your customers need your help and their needs dictate what your crane should be able to do. Helping them move heavy, bulky loads is fairly easy. However, doing it quickly with great precision year after year is a different matter. It is like those lifts some customer wants you to do from a great distance. There's more to lifts than just overall outreach, even though the Hiab XS 622's 35 metres of overall vertical reach is pretty impressive – especially when 12 metres are on the jib. But you still need more; you need to be in total control. Be prepared to be blown away by the Hiab XS 622 HiPro – it is probably the best crane we ever made.



Best crane ever made?

If you need a crane in the 58 tm range we urge you to have a look at the Hiab XS 622. It reaches farther than most and delivers to places where many others cannot. It offers fingertip precision even at full outreach and minimal deflection thanks to a sturdy boom system. It's fast, durable and smooth. Like all HiPro cranes.

Hiab XS 622 highlights

Tough demands are placed on cranes this size. You need excellent performance so here's what to expect from the Hiab XS 622:

- Smoother operation thanks to an excellent boom system and the HiPro control system for minimum deflection and unmatched precision.
- Minimal leakage and wear thanks to great hydraulics perfectly designed and flawlessly fitted.
- Long reach – a 58 tm crane with a 32 metre horizontal outreach can stand tall.

We could go on and on about all the things we've done to minimise leakage, wear and boom deflection, or improve precision and speed. Some of it so revolutionary it resulted in a patent.



Smoother operation

Imagine a customer asking you to place something fragile and expensive in a confined space with awkward access. The last thing you need as you inch your way into position with your crane is a big surprise like an unexpected jerk or a sudden change in pace. The Hiab HiPro is at its best in situations like this.



Minimal leakage

When pressure is on nothing is better at finding a way out than oil. So it's important to plug and seal using high quality components. This crane uses EO2 couplings with soft seal fittings at all connections. As the coupling is tightened the seal adapts to the surrounding surfaces and forms a solid barrier preventing leakage. The seals are quick and easy to replace.



Great speed

Speed saves time, and time is money – for you and your customers. The ability to work fast is essential, and the Hiab XS 622 is really fast. And the Hiab XS 622 is fast. Take the longest version (without jib as an example). In less than 55 seconds you'll have all nine extensions fully extended.

Hiab XS 622 EP

For heavy lifts

The Hiab XS 622 is designed based on your needs and is easily optimised for heavy, vertical lifts such as boats, mobile offices, containers or heavy installation work. If these are typical daily lifts you should probably go for a P-boom – what we call an EP configuration. An EP-configured Hiab XS 622 can be fitted with up to six extensions providing a 17 metre outreach where it is able to lift more than 2.7 tonnes.

Lighter crane, larger payload

Handling heavy loads is rarely just about lifting, it's also about transportation. You need a crane with a strong, durable boom system; it needs to be light and take up little space to maximise payload. Robust, light and small may sound like contradictions, and in a sense they are. But it is amazing what great engineering can do. Hiab XS 622 EP is all of these things – a low weight, powerful crane that demands little space and has great reach.



Jim Aaltonen, Aaltonen Åkeri AB, Huddinge, Sweden



Boats, mobile offices or container handling

There is more to handling heavy loads than just lifting; transportation is often part of the job, too. A light crane like the Hiab XS 622 EP-6 HiPro is essential for helping your customers do both.



Hiab XS 622 E and Hiab Jib 150 X

For long outreach

Installation work and roofing are typical jobs where you need long outreach. This makes the Hiab XS 622 the preferred alternative in its capacity range. The Hiab XS 622 can be fitted with up to nine extensions plus one manual, providing an outreach of just under 25 metres where it is able to lift more than 1.0 tonnes. But if you need really long outreach go for eight extensions on the crane and six on the jib, giving you an overall outwards outreach of 32 metres. You'll have no trouble accessing places you used to consider inaccessible for a crane this size.

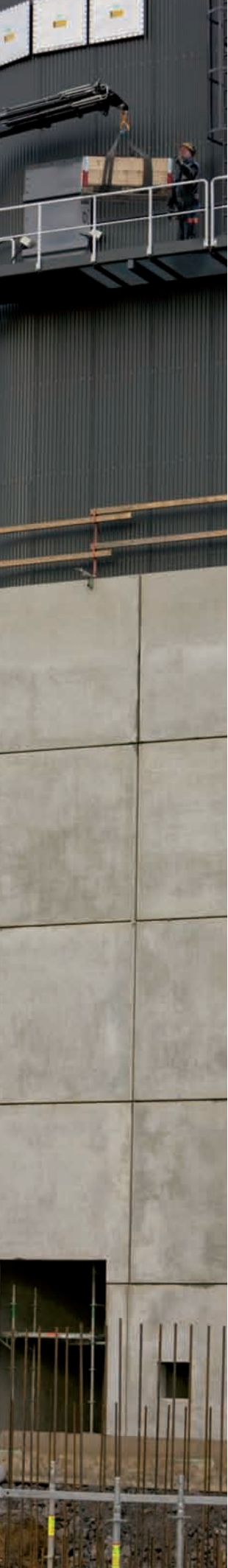
Long reach yet great precision

Great precision can sometimes be hard to achieve at long outreach, but for the Hiab XS 622 it's not even an issue. Not only does it provide a really sturdy boom system but super smooth operations too. We can thank the ingenuity of our engineers for that. Lateral deflection is negligible and the crane extends and retracts smoothly.

Hiab Jib 150X

We probably don't have to tell you that jibs are used to deliver loads onto balconies, roof tops and even inside buildings. But we do have to mention that the Hiab Jib 150X has great reach. With its six extensions it delivers a heavy 680 kg load 12 metres inside the seventh storey (23 metres above ground).





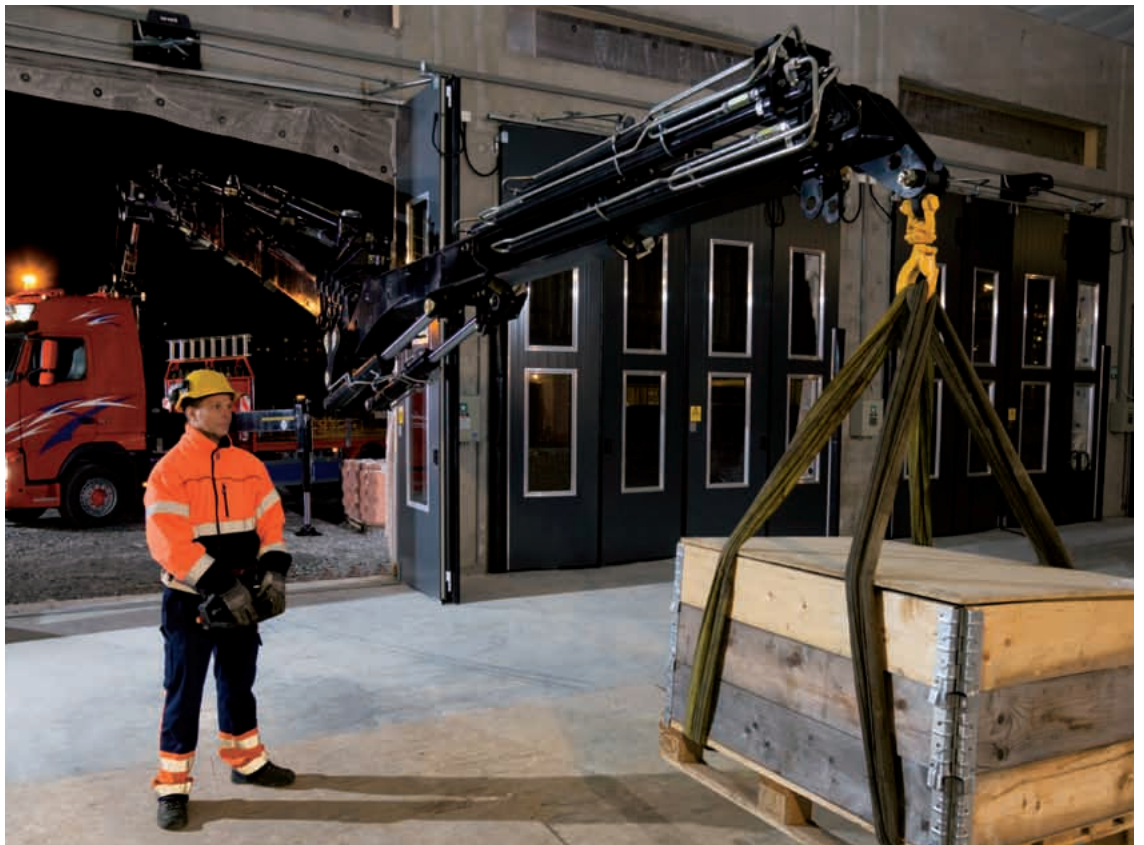
A jib takes you there

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.

The Hiab XS 622 can be fitted with Hiab Jib 150X – perfect if you need access to “inaccessible” places. The overall horizontal reach can be over 32 metres. In addition to pure reach, Hiab Jib 150X can be angled as much as 25° upwards. What’s more it can be configured with JDC – Jib Dual Capacity – which gives the crane a capacity boost of around 30 per cent.

Jib Dual Capacity (JDC)

The JDC function available on some Hiab crane ranges provides a capacity boost when the outermost extension is retracted. This enables the handling of even heavier loads, while providing all the 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.



Hiab XS 622 Capacity 58 tm

First-rate standard features

Enjoy a crane that unfolds and folds easily, slews endlessly and extracts and retracts quickly and smoothly. And being a Hiab HiPro crane it delivers unmatched precision, speed, capacity and smoothness.

E-link

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

Continuous slewing

Infinite rotation means you can work freely around the perimeter of the truck – and always slew in whatever direction you find best.

Soft-sealed fittings

Soft-sealed fittings are designed to adapt to the surface and withstand vibration and high pressure. Leakage is reduced to a minimum. Easy to change when necessary.

HiPro

Several electronic productivity functions provide extra capacity and improve operating efficiency. Each function is designed to self activate smoothly and help to increase productivity.





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 stabilise the boom laterally and minimise 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.

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 the utmost importance on a long boom system.

X-function

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

Full sequence cylinders

Smoothness and precision are vital when working at long outreach. The full sequence cylinders are designed to prevent the crane from making any unexpected movements during extension or retraction. Everything is done in one smooth motion.

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 CombiDrive² remote control, SPACE 5000 intelligence and Valve 91. Capacity is increased significantly by Automatic Speed Control (ASC). Pump Flow Distribution (PFD) maximises productivity by ensuring super-smooth operation at all times.

32 per cent less fuel, ten tonnes less emission

Wear and fuel consumption are two things you love to reduce, and we are committed to doing our bit to help. The crane is prepared for a variable pump as standard. It may sound insignificant but the calculations speak for themselves. For instance, we have shown that replacing a fixed pump with a variable pump on a Hiab XS 288 using about 7,000 litres of diesel per year results in a 32 per cent fuel saving, or 2,200 litres per year. For a Hiab XS with a capacity of around 70–80 tm using 10,000 litres per year it means a reduction of 4,000 litres. This corresponds to a ten tonnes reduction in greenhouse gas emissions – the annual equivalent of four cars. Imagine the impact on your fuel budget.

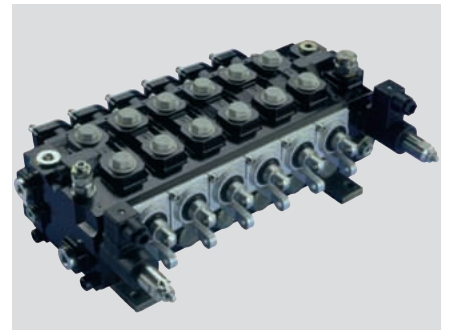
20 degrees cooler oil

A variable pump keeps the oil a lot cooler than a fixed pump. The actual temperature of the hydraulic system is kept at least 20 degrees Celsius cooler. The result? Less wear and a hydraulic system in good shape.

Less wear, lower emissions – better economy

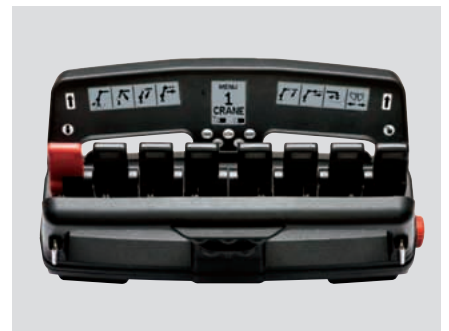
Combining a variable pump with a state-of-the-art load sensing valve and remote control is possibly the best way to become more profitable. It also helps to cut greenhouse gas emissions.





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.



CombiDrive²

When it comes to functions there is a whole range waiting to be controlled remotely – especially when you're pushing load handling productivity, safety and operator comfort to the limits. Rest assured that the Hiab CombiDrive² can control everything – no fewer than 24 proportional and 12 on/off functions are at your finger tips with the six-lever unit, while with the eight-lever unit the number of proportional functions increases to 32. Functions are bundled intuitively in a set of customizable menus accessible at the click of a button. Robust design enables the Hiab CombiDrive² to cope with rough and tough handling in the field, and makes it easy to operate even for drivers wearing working gloves.



Productivity functions

Productivity means different things in different situations. Sometimes it's all about capacity, other times more about fast operations like running several hydraulic functions simultaneously and a crane that responds accurately to every lever movement you make. You often need to cope with both. To solve this problem we came up with a set of functions, each of which adds to productivity in its own right, although there are also synergies. All of the functions are self-activating and fully automatic which simply means that they are there whenever you need them.

26 per cent more capacity on your EP-6

Altogether our productivity functions will provide your Hiab XS 622 EP-6 with up to 26 per cent more capacity at horizontal reach. We are proud to boast that you will have a hard time finding any other crane – optimised for heavy loads – offering the same productivity boost anywhere on the market. And the great thing about it is that the functions run in the background and activate automatically so you can focus on getting the job done.

37 per cent more capacity on your E-9

The longer the outreach the more noticeable is the effect of our productivity functions. For instance, the increase can be as much as 37 per cent at full horizontal reach for a Hiab XS 622 E-9. With heavy loads at long outreach many drivers get a bit anxious about deflection or losing precision. The Hiab XS 622 approaches perfection in that respect. And again we can thank our engineers for doing such a fantastic job when designing this crane.

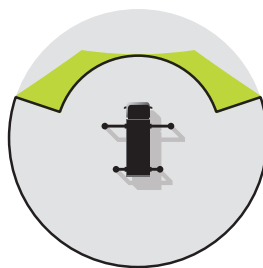
Variable Stability Limit (VSL)

VSL is a safety feature – developed to protect crane operators and people in the vicinity as well as the crane and vehicle – to ensure adequate stability while handling loads. VSL automatically regulates crane capacity in relation to actual stability while working – instantly. The position of each stabiliser leg is monitored and, if necessary, capacity is reduced for certain slewing angles. VSL is mandatory within the EU and optional outside.

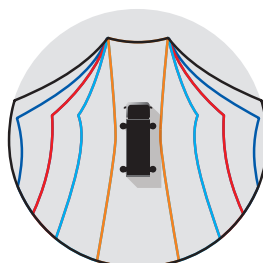


Knowing what's best

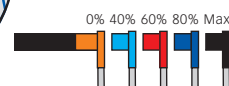
Crane manufacturers must guarantee stability so they hold down capacity, often more than they need to. The result is a crane that stops because it “thinks” its stability is inadequate. Be smart. Go for cranes that “know” what the stability situation is – cranes with VSL and analogue sensors.



Left: VSL can push the stability limit. The grey area marks the crane's work area. Within the black line this particular truck and crane combination has maximum capacity with full stability. Thanks to VSL the crane can use higher capacities in previously restricted sectors – here marked in green.



Left: Analogue sensors provide a stepless change in capacity in direct response to current stability.





Let's help your customers – together

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. Hiab is the global market-leading brand in on-road load handling solutions. Customer-driven Hiab on-road load handling products and solutions are utilised in moving goods and materials on the road, for example in construction sites, forests, industry, waste handling, recycling and by the defence forces. Talk to your local sales person to learn more about what we can do for you. We're here to help.



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