

HIAB **XS** 144 Range 11-14 tm

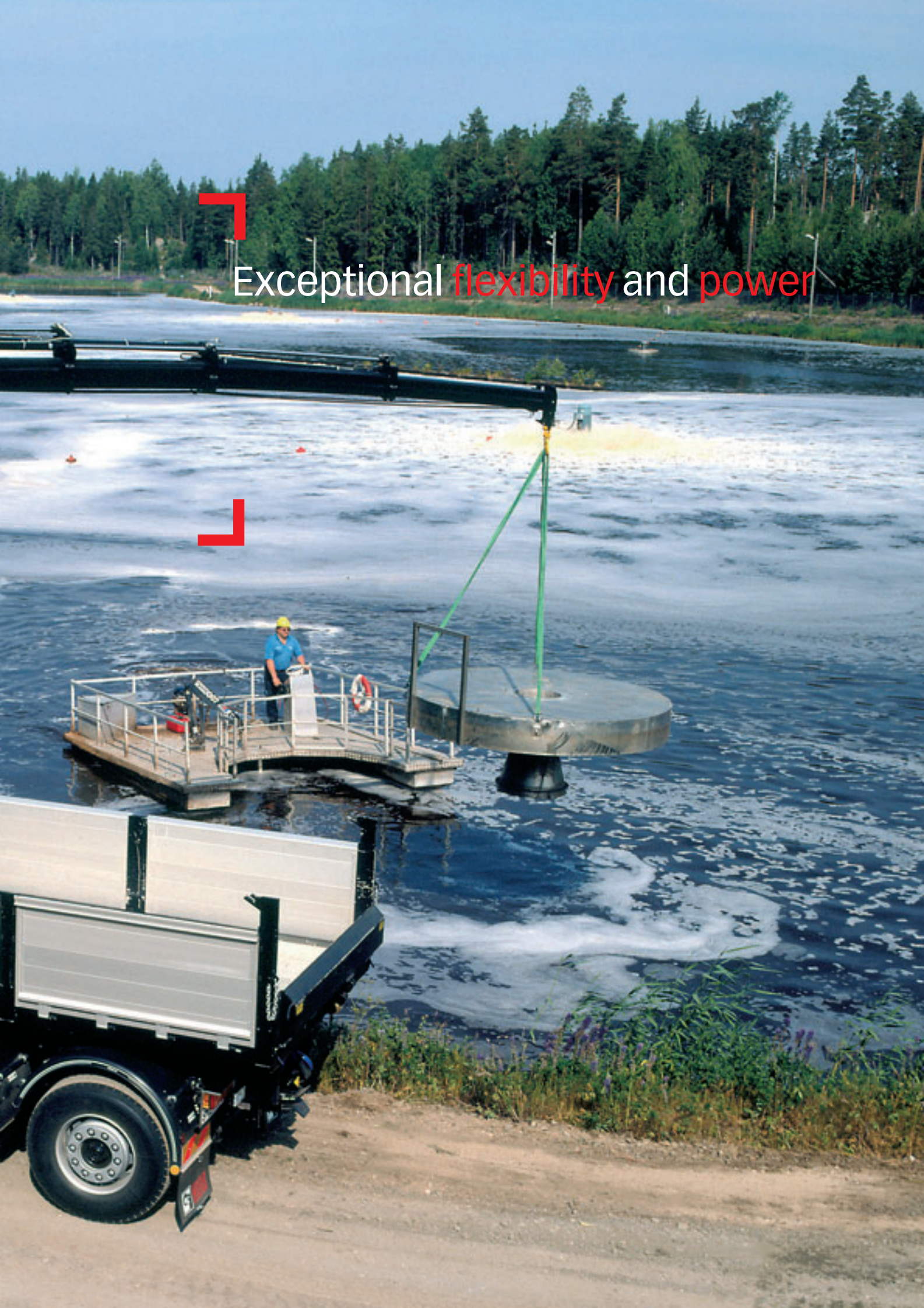


Product brochure



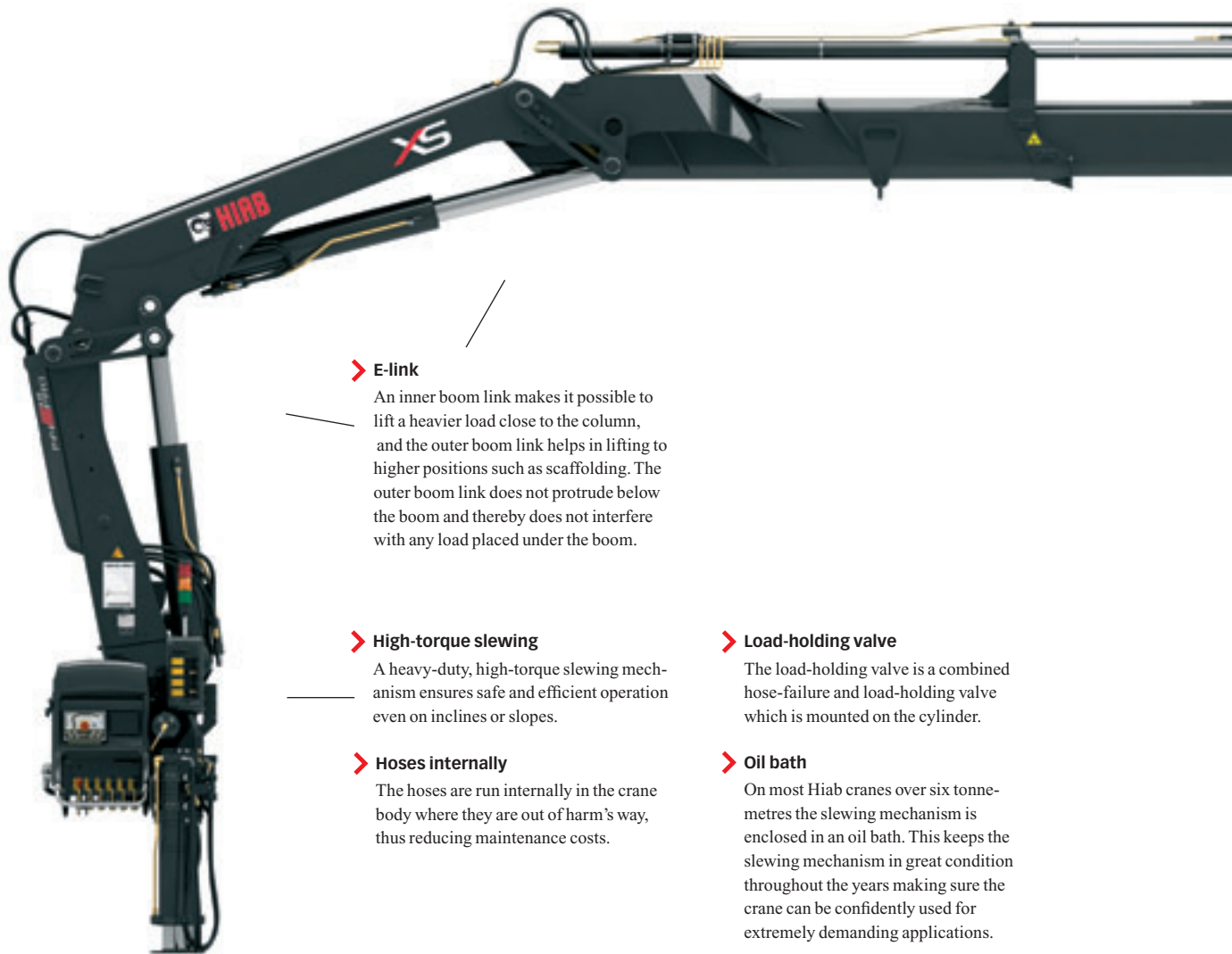


Exceptional flexibility and power



The HIAB XS 144 provides precision

One quick look at the HIAB XS 144 and you know it's the crane that can take your business to a new level. The HIAB XS 144 serves you with exceptional flexibility and power, as well as the ability to operate with inch-perfect precision at long outreaches. Computer-aided design used in development of the crane geometry, give a light weight construction, despite the reach and the brute power it possesses. The crane can be delivered with the CL, Duo, HiDuo, Pro or HiPro control system.



> E-link

An inner boom link makes it possible to lift a heavier load close to the column, and the outer boom link helps in lifting to higher positions such as scaffolding. The outer boom link does not protrude below the boom and thereby does not interfere with any load placed under the boom.

> 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 run internally in the crane body where they are out of harm's way, thus reducing maintenance costs.

> Load-holding valve

The load-holding valve is a combined hose-failure and load-holding valve which is mounted on the cylinder.

> Oil bath

On most Hiab cranes over six tonnes the slewing mechanism is enclosed in an oil bath. This keeps the slewing mechanism in great condition throughout the years making sure the crane can be confidently used for extremely demanding applications.

➤ **Flexible cylinder positioning**

Some extension cylinders can be positioned on top of the boom, or side-mounted. This influences the crane's dimensions and enables easier access to confined spaces.

➤ **Hexagonal boom profile**

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

➤ **Side supports for stability**

The side supports greatly improve the performance when for example excavating or performing other high-stress tasks.



➤ **JIC couplings**

JIC couplings are standard on most Hiab cranes. They assure easy and secure coupling, and are still very simple to disconnect for service.

➤ **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.

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> HiDuo control system

The HiDuo control system is based upon the Valve 80. HiDuo comes with the XSDrive remote control and the SPACE 4000 intelligence system. Apart from the benefits of remote crane operation, SPACE 4000 also provides Automatic Duty Control (ADC), and the Hiab unique Automatic Speed Control (ASC). The ASC function provides a continuous, ultra-smooth increase of capacity.

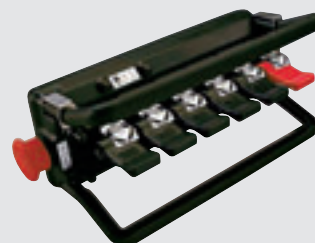
> HiPro control system

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 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.

> 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.



> CombiDrive 5000

With the HIAB CombiDrive 5000 you can position yourself at the best possible location when operating the crane. It features 24 proportional functions for controlling the crane, optional equipment and accessories, all with the same precision.



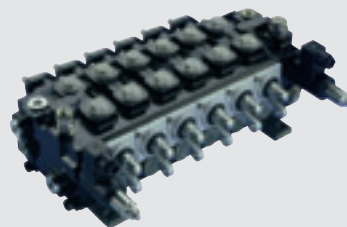
> Valve 80

The HIAB Valve 80 is a top-of-the-line open-centre valve based on well-proven technique which gives superb reliability. The valve handles large oil flows and provides great precision and ease of operation.



> XSDrive

The HIAB XSDrive has been ergonomically developed to relieve you of stress and strain in the hands, arms and back. The load indicators provide information for quick and correct actions when work is going on. There are also a lot of accessories that can be added in order to find the perfect controlling solution just for you.



> Valve 91

The HIAB Valve 91 represents the pinnacle of valve technology and handles very large oil throughputs. It is a closed-centre, pressure-compensated and load-sensing control valve. This provides the operator with a fingertip feel when controlling the crane.



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➤ Intelligence systems

All electronic functions are managed by a SPACE system, which is a computer devised to intelligently assist you in operating your crane. The SPACE electronics are housed in a 100% weather-proof casing and is extremely reliable and easy to use. On the front of the casing a number of indicators clearly show vital information to the operator. As an example, the pressure in the cylinders is displayed continuously. Observing these indicators proves very useful when positioning the booms for lifting loads at maximum capacity.

The SPACE intelligence system is available in different packages, each one with an increasing number of advanced and productive functions.

All SPACE-packages benefit from the highly advanced Over Load Protection (OLP) system. Productivity functions in the system are Automatic Duty Control (ADC), Automatic Speed Control (ASC) and Pump Flow Distribution (PFD). These functions can be used separately or in combination. A valuable feature for service personnel is that fault code indication and load cycle data is also stored in the system. This can be used for analysis and feedback to the customer as to how he or she uses the crane.

➤ SPACE 4000 intelligence system

The SPACE 4000 system features Automatic Duty Control (ADC) and the Automatic Speed Control (ASC) function. The ASC function boosts capacity in a smooth, stepless motion and thus gives an edge in load handling and capacity that proves very valuable.

The SPACE 4000 is a part of the HiDuo control system.

➤ SPACE 5000 intelligence system

The SPACE 5000 system features Automatic Duty Control (ADC) and the Automatic Speed Control (ASC) function. The later function boosts capacity in a smooth, stepless motion and in addition to this Pump Flow Distribution (PFD) ensures super-smooth operation at all time.

The SPACE 5000 is a part of the HiPro control system.



> Versatility to meet your demands

In accordance with requirements, your crane can be delivered with an outer boom link (D-link), giving constant outer boom speed. This provides you with smoother and more precise load handling. Ordering a crane with both an inner and outer boom link, equips you with an E-link system, delivering extra capacity when handling loads close to the column, as well as when lifting to high positions. Furthermore, by ordering a short outer boom (S-boom) when customizing your crane, you gain even higher load capacity close to the column and, without detaching the bucket, can park it even on a short tipper body.



^ 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.

^ Side supports for stability

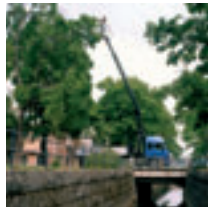
Side supports fitted on each boom extension stabilize the boom laterally and minimize the play. Most Hiab crane models can be delivered with extension side supports.

^ High boom warning

When the pressure is on and you need to get to the next job fast, mistakes can happen. For example, if a driver forgets to park the crane, the consequences could be serious. In these situations, you'll appreciate a safety function like high boom warning. The SPACE system continuously monitors the boom position. If the crane is left in its upright position, an indicator lamp in the cabin will alert the driver before driving away.



Power and intelligence



Operating your crane by remote control

One benefit 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.

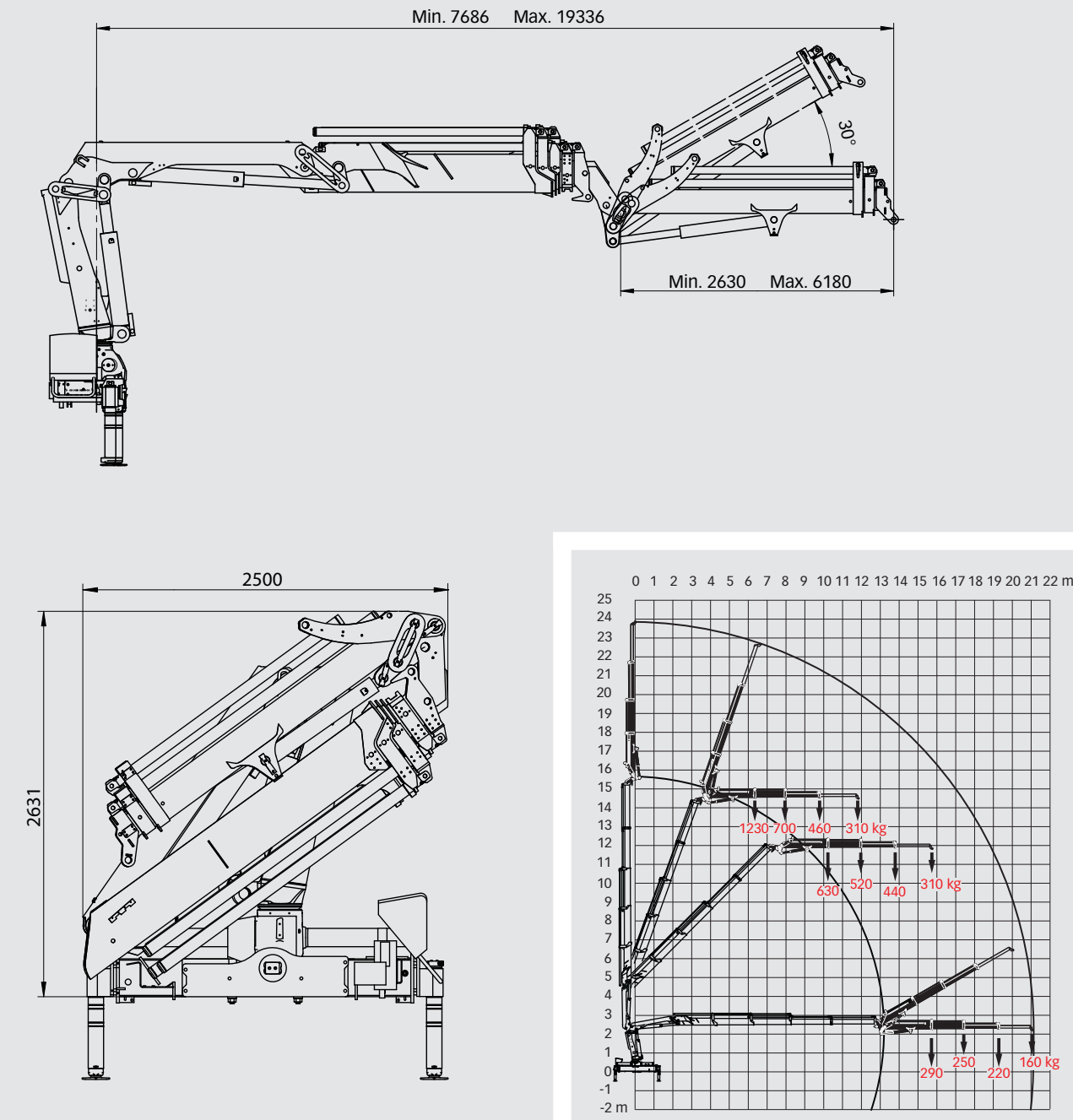
Design innovation – driven by you

Hiab is 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 is customer-driven. This will become really clear when using your Hiab loader crane.

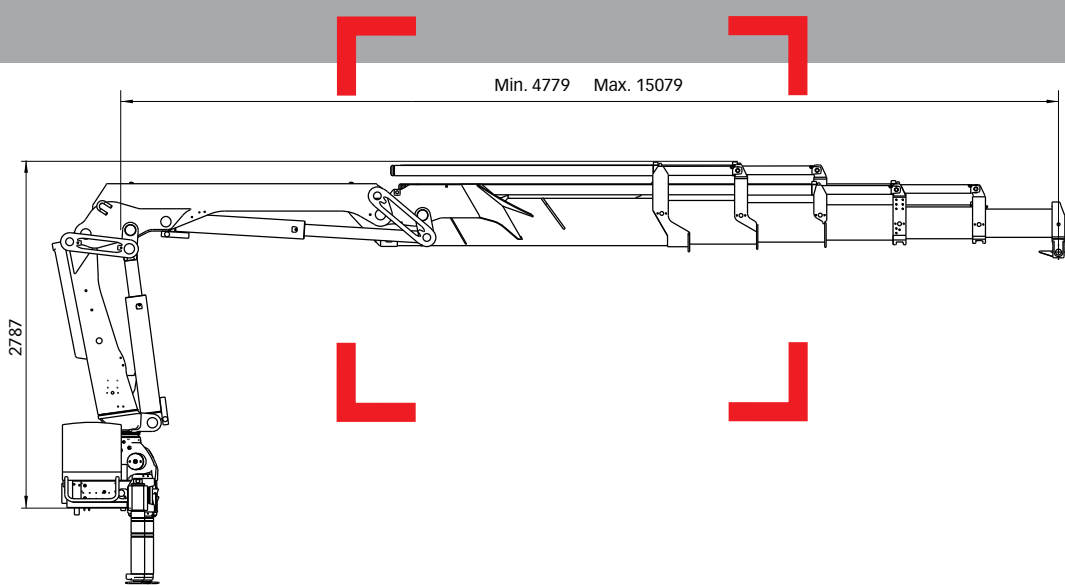


HIAB XS 144 Basic data

> HIAB XS 144 E-4 HiPro jib 45X-2



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Basic data

Disclaimer

Hiab cranes have been built to meet the highest standards of safety and service life and have been thoroughly tested. Strength calculations for this model have been carried out in accordance with EN13001. Hiab's certified Quality Assurance System complies with the ISO 9001. Some of the items in our literature may be extra equipment. Certain applications may require an official permit. We reserve the right to change technical specifications without prior notice. Hiab cranes produced for EU-countries are CE-marked and comply with the European Standard EN 12999.

BD-144-EN-EU_071116

www.hiab.com



HIAB
XS
144
Basic data

Technical data	B-3 CL	B-3 Duo	E-5 HiDuo	ES-3 HiPro	E-4 HiPro	E-5 HiPro
Max. lifting capacity (kNm)	115	131	128	139	138	132
Outreach - hydraulic extensions (m)	10.6	10.6	15.1	10.2	12.8	15.1
Outreach - manual extensions (m)	12.8	12.8	17.4	17.1	17.4	17.4
Outreach - jib (m)	-	-	-	-	19.3	-
Outreach / lifting capacity (m / kg)	3.0 / 3900	3.1 / 4300	2.6 / 5000	2.2/ 6000	2.5 / 5300	2.6 / 5000
	4.5 / 2600	4.5 / 2900	4.8 / 2700	4.3 / 3300	4.7 / 3000	4.8 / 2800
	6.3 / 1840	6.3 / 2000	6.6 / 1860	6.1 / 2300	6.5 / 2000	6.6 / 1920
	8.3 / 1360	8.2 / 1540	8.5 / 1340	8.0 / 1700	8.4 / 1500	8.5 / 1400
	10.3 / 1080	10.3 / 1200	10.6 / 1020	10.1 / 1340	10.5 / 1160	10.6 / 1060
	-	-	12.8 / 820	-	12.7 / 940	12.8 / 860
	-	-	15.0 / 680	-	-	15.0 / 720
Outreach / lifting capacity, with jib (m / kg)	-	-	-	-	15.7 / 290	-
	-	-	-	-	17.4 / 250	-
	-	-	-	-	19.3 / 220	-
Slewing angle	415°	415°	415°	415°	415°	415°
Height in folded position (mm)	2233	2233	2301	2256	2256	2301
Width in folded position (mm)	2500	2500	2500	2500	2500	2500
Installation space needed (mm)	860	860	854	854	770	855
Weight - "standard" crane without stabilizers (kg)	1660	1660	2130	1960	2106	2190
Weight - stabilizer equipment (kg)	195 - 371	195 - 371	195 - 371	195 - 371	195 - 371	195 - 371
Weight - jib (kg)	-	-	-	-	380	-

