

# Hiab XS 166 K Capacity 17 tm





# Built for high productivity

## **The Hiab XS 166 K for fast movements**

The Hiab 166 K is designed specifically with the builders merchant in mind. This compact, powerful, go-anywhere truck mounted crane offers you unbeatable cost effectiveness and flexibility in materials handling.

A 3.5 metre inner boom combined with an outer boom link, gives you outstanding close-in performance, perfect for working in confined or awkward spaces. At the heart of the crane is the fully proportional Hiab Valve 91, which combines fast load cycling times with the highest precision. A variable displacement pump reduces heat generation, saves fuel and further enhances performance.

Also included is Hiab's SPACE 3000 intelligence system. Operating safety is further enhanced by outrigger legs and beams. Controlled from the ground or from the high seat they give rock-solid stability.

## **K-boom**

The non-foldable K-boom system has geometries that are ideally suited for meeting the demands of the building-materials industries. It has an extra-long inner boom and a shorter outer boom. The long inner boom provides faster moves from close in to far out. On the K-boom system, the two outer boom extensions come out at the same time, driven by only one cylinder and a chain connection. This doubles extension speed, thus giving a very fast overall load cycle speed.

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## Front runners in boom design

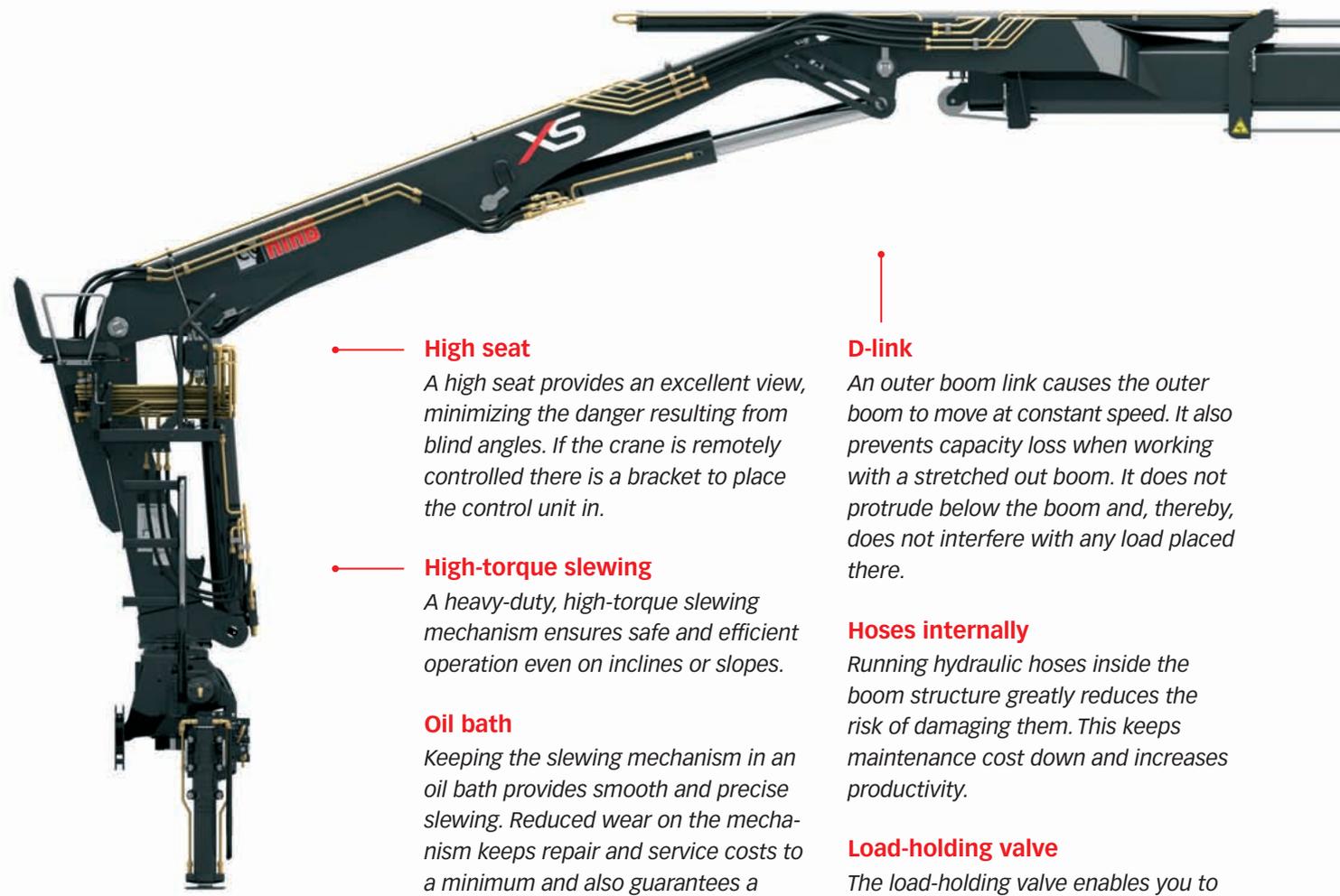
A Hiab crane is built to withstand extreme loading under all kinds of circumstances, in all field conditions. Keeping the boom reliable, tough and sturdy under extreme loading has made Hiab a world leader in crane boom engineering. Taking a closer look at the crane, one can point out a number of features that our customers benefit from.

### D-link

The D-link system is an outer boom link, which provides a lever connection between the inner and outer boom. The main function of the D-link is to enable the outer boom to move at a constant speed, resulting in smooth and precise performance. The system absorbs peaks and shocks during excavation work, making the crane easy to work with. In addition the D-link does not protrude below the boom, ensuring it does not interfere with load positioned under the boom.

### K-boom

The long inner boom gives faster loading and unloading of goods. It also enables higher lifting close to the column.



### High seat

A high seat provides an excellent view, minimizing the danger resulting from blind angles. If the crane is remotely controlled there is a bracket to place the control unit in.

### High-torque slewing

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

### Oil bath

Keeping the slewing mechanism in an oil bath provides smooth and precise slewing. Reduced wear on the mechanism keeps repair and service costs to a minimum and also guarantees a longer crane life.

### D-link

An outer boom link causes the outer boom to move at constant speed. It also prevents capacity loss when working with a stretched out boom. It does not protrude below the boom and, thereby, does not interfere with any load placed there.

### Hoses internally

Running hydraulic hoses inside the boom structure greatly reduces the risk of damaging them. This keeps maintenance cost down and increases productivity.

### Load-holding valve

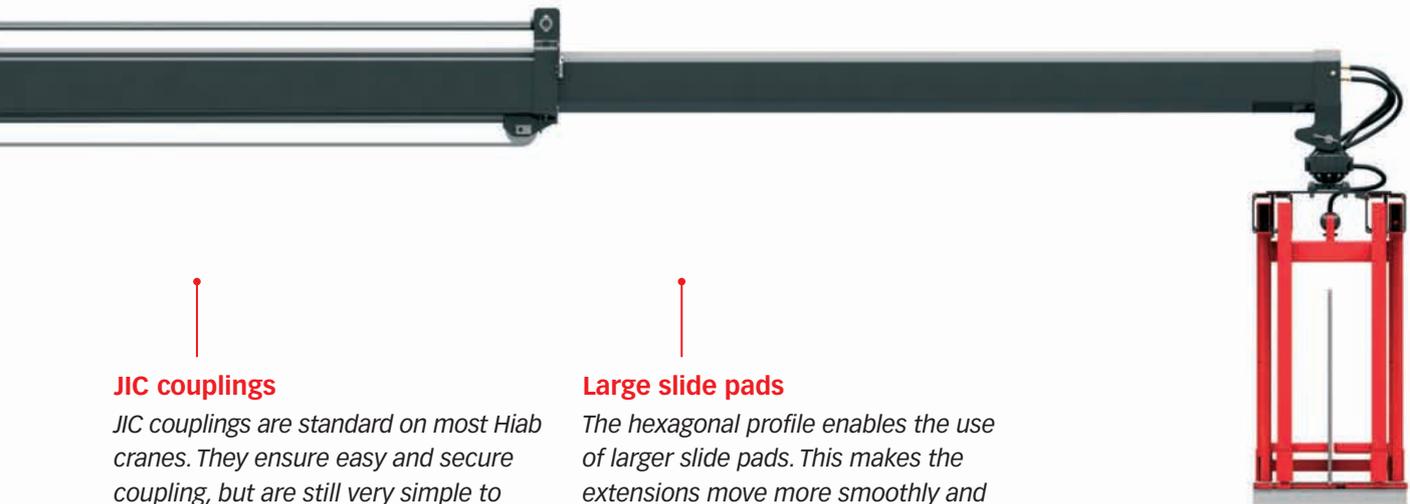
The load-holding valve enables you to lower loads without having to use engine power. This saves fuel, thereby lowering cost and noise levels. The built in hose-failure functionality also provides safety in the unlikely case that a hydraulic hose should burst.

### 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

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 ensure easy and secure coupling, but 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.

### Optional brick and block clamp

Hiab's brick and block clamp comes in different sizes and is ideal for handling stacks of bricks and other building materials – bundled or unbundled, palletized or unpalletized.

### Pro control system

Pro is the most advanced manually operated control system in the XS family. Equipped with the Valve 91, the Pro system offers high load cycling speed with maximum precision. The SPACE 3000 intelligence system with Automatic Duty Control (ADC) increases your crane's capacity. In the Pro version of Hiab XS 122–166, a Manual Speed Control (MSC) function is also included.

### SPACE 3000 intelligence system

The SPACE 3000 is the basic electronic system for intelligently monitoring and controlling the electronic functions. These functions are focused on assisting the operator in two aspects, safety and productivity. Safety is managed by an Over Load Protection (OLP) function and productivity is increased by the Automatic Duty Control (ADC) and Manual Speed Control (MSC) functions. Further more, the system handles functions primarily used by service personnel such as fault-code indication and load-cycle data. Equipped with these functions the SPACE 3000 is a part of the Pro control system.



### 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.*



### Optional CombiDrive²

*With the Hiab CombiDrive² 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.*



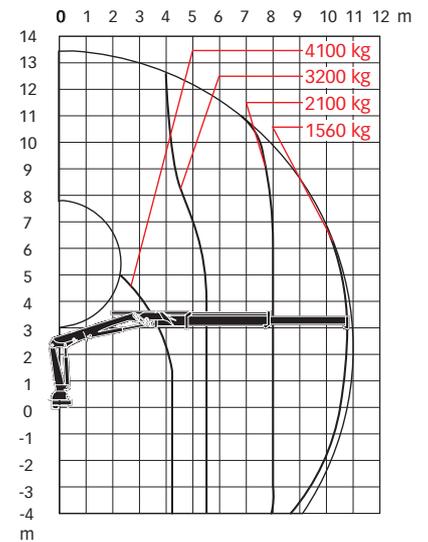
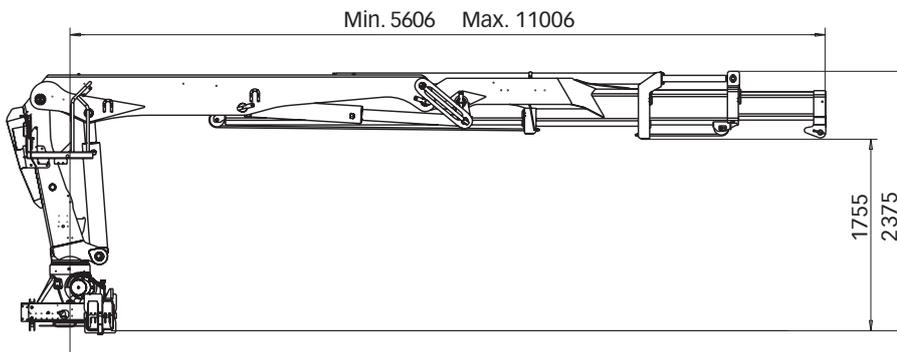
### High seat

*A high seat provides an excellent view, which minimizes the danger resulting from blind angles. Once in the high seat the operator is also at a very safe position. Levers mounted directly onto the control valve gives a superb feel for the load.*

## Technical data

|  | K-2 CL      | K-2 Pro     | K-2 HiPro   |
|--|-------------|-------------|-------------|
| Max. lifting capacity (kNm)                        | 140         | 166         | 166         |
| Outreach - hydraulic extensions (m)                | 11.0        | 11.0        | 11.0        |
| Outreach - manual extensions (m)                   | -           | -           | -           |
| Outreach / Lifting capacity, standard (m / kg)     | 4.2 / 3450  | 4.2 / 4100  | 4.2 / 4100  |
|  | 5.5 / 2700  | 5.5 / 3200  | 5.5 / 3200  |
|  | 8.1 / 1780  | 8.1 / 2100  | 8.1 / 2100  |
|  | 10.8 / 1320 | 10.8 / 1560 | 10.8 / 1560 |
| Slewing angle                                      | 406°        | 406°        | 406°        |
| Height with horizontal boom (mm)                   | 2390        | 2390        | 2390        |
| Installation space needed (mm)                     | 935         | 935         | 935         |
| Weight - "standard" crane without stabilizers (kg) | 2300        | 2300        | 2300        |
| Weight - stabilizer equipment (kg)                 | 255 - 385   | 255 - 385   | 255 - 385   |

## Hiab XS 166 K-2 HiPro



**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 in fatigue class S2. Cargotec's certified Quality Assurance System complies with 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.

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