

Hiab CombiDrive²



A way of controlling



**CERÁMICA
LA ANDALUZA**

Ctra. Madrid-Cádiz

It's hands-on HiPro

Information gives precise power

The Hiab CombiDrive² is user-friendliness at its best. This is why it's the remote control system for our top of the line HiPro-series and other selected crane models in the Hiab range. It provides information, precision, feel and function – to a higher degree than 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 particular lever. Now that's user friendliness.

Handling anything, anywhere

When it comes to functions there is often a whole range waiting to be controlled remotely – especially when you're pushing load handling productivity, safety and operator comfort to the limit. In these cases 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 and with the eight lever unit the number of proportional functions amounts to 32. These functions are bundled intuitively in a set of customizable menus – accessible at the click of a button. Robust design makes the Hiab CombiDrive² easy to operate even when wearing working gloves – and to cope with rough and tough handling in the field

Hiab CombiDrive² – Six or eight levers

CombiDrive² has six or eight proportional levers

There are two versions of CombiDrive²; with six or eight levers. The six lever version is frequently used and much appreciated thanks to its user-friendly design. This version is generally sufficient for most configurations using six hydraulic functions or less. CombiDrive² with eight levers has the same ergonomic design. It controls 32 proportional functions and, like the six lever remote control unit, 12 on/off functions. Additionally, the two

extra levers make it possible to use the seventh and eighth functions simultaneously with the first sixth functions – without having to shift main crane menu, which must be done if you have six levers. Eight levers is therefore beneficial for cranes configured for more than six hydraulic functions, for instance when fitted with jib and hoist. Which remote control unit you should, or even can have, depends almost entirely on how the crane is configured.



Menus displayed on LCD-screen

Which main menu is active is shown on the centre LCD-screen. Text is easy to read and all symbols in the menus are very logical and easy to understand.

Easy to operate

Both the six and eight lever version of CombiDrive² is easy to operate even when wearing working gloves.

Long service lifetime

CombiDrive² is designed for professional use. The protection handle is often sufficient for preventing damages but in the event of an unfortunate accident service is easily carried out. Levers, bottom part, protection handle and display handle can all be replaced.

Easy to change battery

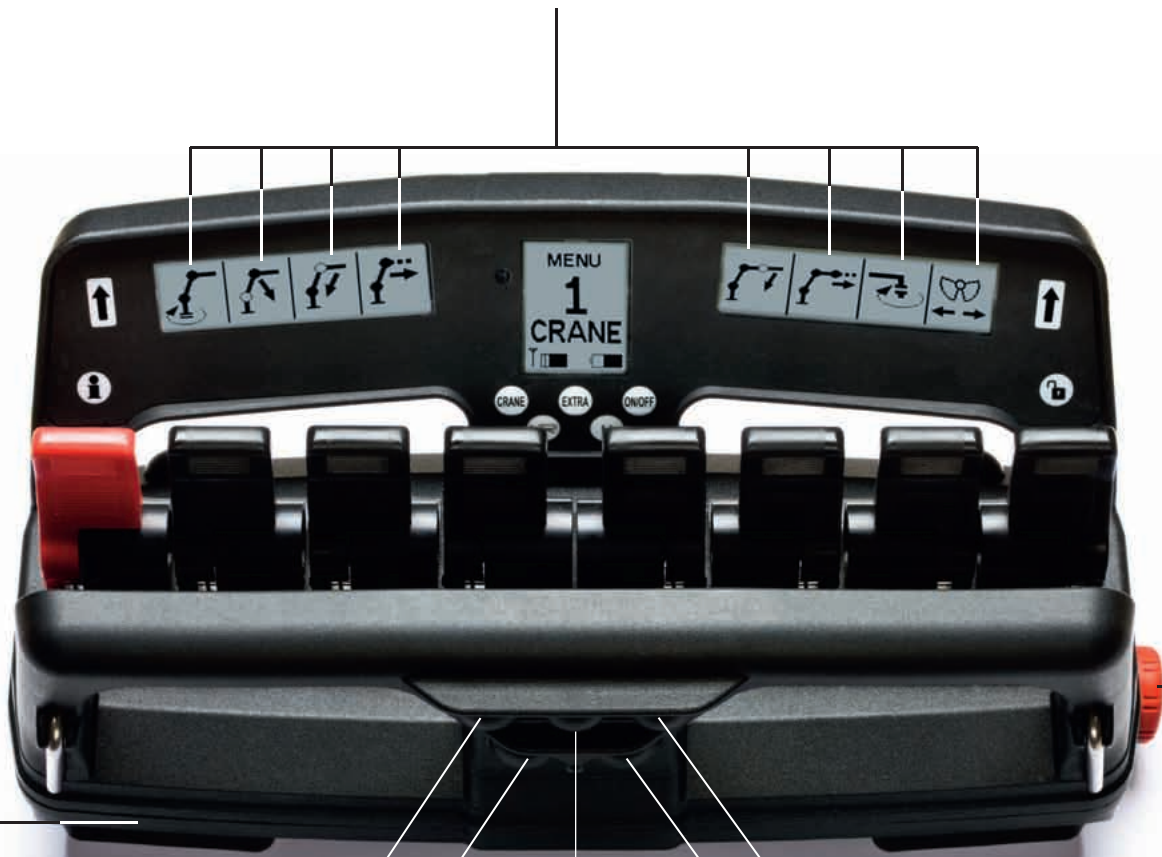
The battery is easily accessible at the base of the unit.

Live-lever function symbols

The active display shows standardised symbols tracking the function of each lever. Each time the lever function is changed, the function symbols change accordingly – improving productivity and safety.

Stop button

An easily accessible stop button is situated on the side of the control unit.



Signaling

At the press of a button the horn sounds, alerting everyone in the surrounding area.

Crane menu button

Pressing the crane menu button lets you control the crane's regular functions. Each time the button is pressed you toggle through sub-menus – the function symbols changing accordingly – improving productivity as well as safety.

Extra menu button

Pressing the extra menu button gives you control of the crane's extra functions. This provides you with remote control of the crane's stabilizer legs and, for example, auxiliary stabilizer legs. Each time the button is pressed you toggle through sub-menus – the function symbols changing accordingly – improving both productivity and safety.

Micro button

The micro button lets you increase precision by reducing the speed to 50%, or even as low as 20%. This is especially helpful for slewing with high precision.

On/Off menu button

By pressing the on/off menu button you can control lights, truck engine, pump etc. Each time the button is pressed you toggle through sub-menus – and the function symbols change accordingly – improving both productivity and safety.

The menu system

There are three main menus which the operator can toggle between using three push-buttons. In each of the main menus the operator can go through submenus by pressing the same button repeatedly, e.g. 1-2-3 and then back to 1 again.

The use of main menus makes it easier for the operator to switch from operating the crane to, for example, operating the stabilizers, and then back to the crane.

Main menu – Crane

Every lever has a corresponding function, which it controls. This is shown in the left or right display. When the menu changes, the symbols also change, so that they always match the function that is active in the current menu.

Main menu – Extra

The Extra-main menu contains hydraulically proportional functions that do not belong to the crane itself, for example front and rear stabilizers, boat supports, etc. The submenus are configured when the crane is being fitted to the vehicle.

Main menu – On/Off

In the On/Off menu you can control up to 12 on/off functions. These are functions such as starting and stopping the truck engine or switching working lights on and off.



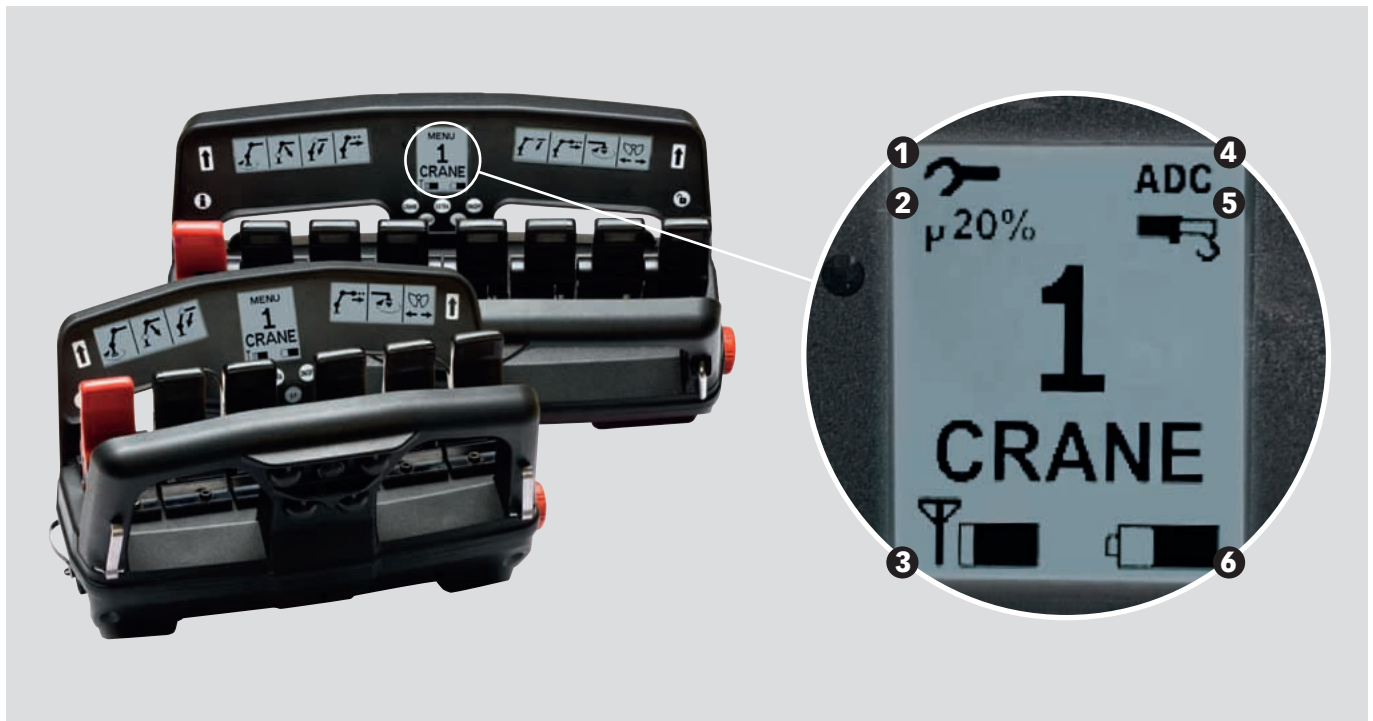
Crane menu 1



Extra menu 1



On/Off menu 1



1. Fault-code indication

Fault-code indication leads to quicker response if a fault occurs. This enables the user, or service personnel, to fault trace and pin-point any problems quickly.

2. Micro

Indicates that micro-operation has been selected. Micro-operation changes the response of levers as follows: At full lever deflection, $\mu 50\%$ is 50% of normal speed and $\mu 20\%$ is 20% of normal speed.

3. Signal strength

The bars show radio signal strength. Five bars indicates optimum reception conditions. If the symbol flashes, the radio is connected but adequate starting conditions are not met.

4. ADC

The indicator shows when the Automatic Duty Control (ADC) function is boosting the crane's capacity. The function is fully automatic and active in the background at all times, freeing the operator to fully concentrate on the job at hand.

5. Manual extension

If manual extension is used, the Intelligence System acknowledges by showing this symbol.

6. Battery

The battery indicator shows when the battery needs to be changed. This lets you replace it with a fully-charged one in time.

CombiDrive² standard components

The CombiDrive² is delivered with neck and waist belt as standard. The two ergonomic belts relieve shoulders and back from strain. The straps are made from high quality material. This, in combination with the design of the remote control unit, keeps strap wear to a minimum.

HiPro control system

The CombiDrive² is a part of the 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), Automatic Duty Control (ADC) and Pump Flow Distribution (PFD) which maximizes productivity by ensuring super-smooth operation at all times.



User-friendly

The Hiab CombiDrive² handles 24 or 32 proportional and 12 on/off functions (depending on the the number of levers). All functions are bundled intuitively in a set of customizable menus. The CombiDrive² communicates with the crane using Bluetooth(™) radio.







Care for every detail

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.

Cargotec improves the efficiency of cargo flows on land and at sea - wherever cargo is on the move. Cargotec's daughter brands, Hiab, Kalmar and MacGregor are recognised leaders in cargo and load handling solutions around the world. Cargotec's global network is positioned close to customers and offers extensive services that ensure the continuous, reliable and sustainable performance of equipment. www.cargotec.com

