



FASSI

LEADER IN INNOVATION

Drive by FASSI



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With the new **“DRIVE BY FASSI”** technology, the operator can “drive” Volvo Trucks via their Fassi V7 radio control unit without actually being in the cabin.

Together with the Exster interface developed by Volvo Trucks, the “Drive by Fassi” technology is part of an integrated, reliable and safe system developed in collaboration with Volvo Trucks Italia, which has already collaborated with Fassi in the creation of the FX-Link, a system that provides two-way communication between crane and truck.

“Drive by Fassi” is the evolution of that communication system, and now not only enables management of a number of vehicle functions from the crane radio control unit and allows the condition of the crane to be checked directly from the truck dashboard, but also allows the operator to move the truck remotely, without having to be at the wheel.

FEATURES

This is reliable technology as it has been designed by Fassi and Volvo Trucks to be integrated with the truck and crane radio control units during production and is therefore already “on-board” and tested on delivery from the dealers.

This means:

- configuration is guaranteed and certified by the manufacturers;
- it has innate ready-to-use efficiency;
- it is safe to use in accordance with Fassi and Volvo Trucks’ production standards.

REQUIREMENTS

Five essential requirements are necessary for the application of Drive by Fassi technology:

- the FX-Link system
- one of two electronic control systems - FX900 / FX500 - installed on the crane
- the V7 Fassi radio control unit,
- a Volvo Trucks vehicle from the FH, FM or FMX series fitted with the Exster (External Steering Remote Control) interface.



THE FX-LINK SYSTEM



FX-Link is the result of a process of digital and mechatronic innovation carried out by Fassi. It provides the innovative possibility to connect crane and vehicle and control various functions of the truck via the crane's radio control unit and vice versa.



FASSI ELECTRONIC CONTROL FX500/FX900/

An exclusive electronic control system for monitoring the loading conditions of the crane, the hydraulic and manual extensions and the winch. It manages lifting moments, allowing the activation of various working zones in accordance with the stability conditions of the vehicle/crane combination. It also transmits and records operational data.

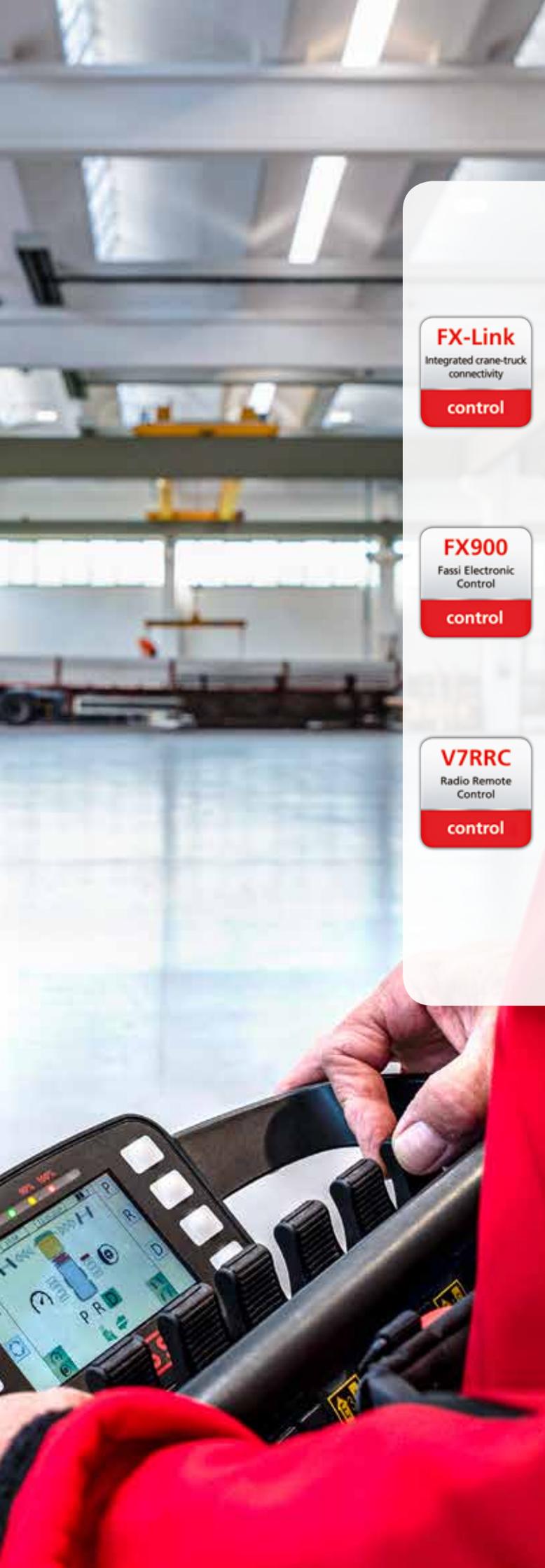


FASSI V7 RADIO CONTROL UNIT

This is a digital instrument capable of significantly improving the work of the operator thanks to an advanced control and command interface that makes using Fassi cranes even more precise and efficient. The integrated function on the colour display relating to permitted and restricted manoeuvres supplies details regarding the desired action and helps to avoid uncertainty. Data is provided via clear status signals which accompany the icons, identifying the functions of the control panel. With the integration of the Drive by Fassi system, it is possible to use the radio control unit to "drive" and manoeuvre the truck, thanks to a simple and intuitive interface.

VOLVO TRUCKS EXSTER SYSTEM

The Exster interface developed by Volvo Trucks allows the remote control of the vehicle's steering, accelerator, gearbox and brakes without the use of external mechanical or electric devices. While the management of the driveline (engine and gearbox) is a form of technology that has been developed for some time, it is now possible to remotely control the steering without the use of external devices. This is thanks to VDS, Volvo Dynamic Steering, which uses an electric motor integrated into the steering box which can reduce the effort required for steering by 85%. Each signal sent by the radio control unit is received by the Exster interface, which translates it into commands for the vehicle's engine, steering and brakes.



Drive by FASSI



Use the lever to drive your vehicle. Forward (D), Reverse (R).

Move the lever forwards to accelerate, backwards for braking.

It allows you to steer your vehicle to the left or right.

Move the lever backwards to steer to the left, forwards to steer to the right.

1

Remote driving in complete safety

The system developed by Fassi and Volvo Trucks has been created with a series of default settings that minimise all risks and guarantee safe use. With Drive by Fassi, the vehicle can reach a top speed of 5 km/h and, in the event of danger, the vehicle has emergency stop buttons located on all sides in case of necessity. It is not available for use with either the crane or the stabilisers open. This mode of use for the vehicle is recommended for areas with limited access.

2

A focus on reliability and safety

The Drive by Fassi technology has been tested to work in all operating conditions for moving the truck. It has been designed to help operators to position the truck on a work site before setting the crane stability and handling loads.

3

Types of use

Drive by Fassi combined with Exster by Volvo Trucks is ideal above all for qualified operators and for handling large loads, or for all those situations in which it is necessary to move the vehicle frequently. One example is handling large pieces of machinery indoors, where manoeuvring the truck in tight and limited spaces is much easier to control from a point of view close to obstacles or spaces for manoeuvre rather than from the cabin. Thus, the driver avoids having to have people outside the vehicle providing information regarding the position of obstacles to them. This technology therefore helps operators work with increased safety, allowing for an improvement in precision and rapidity.

Lifting Tomorrow



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