

TECHNION



xCrane

**Crane Control System
from Technion**

Getting the job done

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xCrane

Total flexibility for crane control

xCrane is a turnkey electrical control system for mobile cranes. It offers fast response times and smooth individual controls for each operator. The system is truly compatible with both current and voltage controlled valves and a rich I/O set enables it to be interfaced with a variety of sensors, joysticks and third party modules. In addition to the **xCrane** hardware, Technion will provide you with a crane control application, CODESYS libraries and product options that will help you get a flying start to your project.

Turnkey solution

Technion offers a complete solution to meet all needs. The **xCrane** system will benefit OEM crane manufacturers, system integrators and resellers alike. It consists of a controller, the **xCrane** application, a display unit and joysticks. As a customized service option, Technion designs and delivers suitable wire harnesses based on customer needs. To define the hydraulic solutions, joysticks and other options to be used, Technion has developed a service tool for performing the configuration and setting the parameters needed. The system is fully compatible with both 12V and 24V machines.

Open interfaces

By using open interfaces and the CODESYS tool chain, Technion offers OEM crane manufacturers and system integrators total freedom to continue the development of the **xCrane** system by adding different crane types or features, such as parallel cranes or tip control. Technion supports its customers by providing ready-made libraries and tools that can be used to create a unique user interface and differentiate the product. Various wireless remote controllers can easily be integrated into the **xCrane** control system. All you need to do is configure your CAN messages from the remote receiver accordingly.



Increase your productivity with the intelligent and flexible **xCrane** system!

Control Functions

- Extremely fast and accurate controls
- Optimal for controlling both current and voltage controlled valves
- Fully scalable and open architecture for controlling additional inputs, outputs and extension modules
- Support for adding 3rd party wireless control via CANopen
- Controls 16 movements, for example:
 - Slew
 - Lift boom
 - Outer boom
 - Rotator
 - Extension
 - Grapple
 - Stabilizer L
 - Stabilizer R

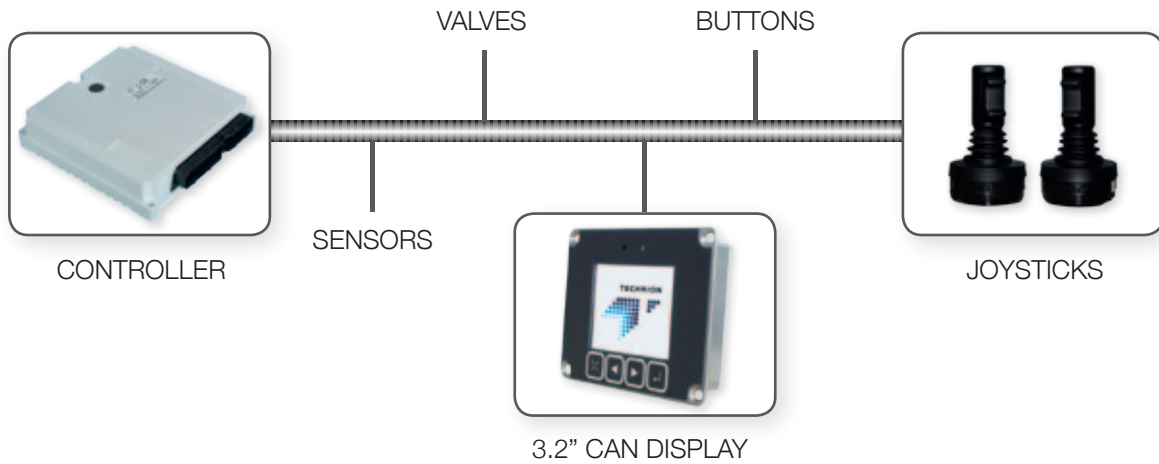


Display Functions

- Speed adjustment and ramps for each movement individually
- Adjustable progression for each movement individually
- Technion QUICK TRIM
- Settings for 4 drivers & factory setup
- Joystick calibration
- Adjustable deadband
- Joystick filter
- Working hours
- Detailed diagnostics
- Service display functions with user levels available with USB security key
- Boom home indication
- End attenuation
- Load indication
- Oil temperature
- Oil pressure
- Stabilizer home indication

xCrane is the most user-friendly and flexible crane control system on the market offering an unparalleled user experience.

Order Options



xCrane

CONTROLLER

- 01 = TEC152-001 (*)
- 02 = TEC172-001
- 03 = TEC172-002
- 04 = TEC172-003
- 05 = TEC172-004

DISPLAY

- 00 = No Display
- 01 = TDC130-004 (*)

JOYSTICKS

- 00 = No Joysticks
- 01 = OTTO (**)
- 02 = SUREGRIP

Product order code example:

xCrane-01-01-01 order code consists of TEC152-001, TDC130-004 and OTTO joysticks

Additional Options

xCraneSW	-Cyyyy – nnnn	Factory programmed software for customer yyyy, version nnnn
xCraneWH	-Cyyyy – nnnn	Tailored cable harness for customer yyyy, configuration nnnn
xCraneSD01	-Cyyyy – nn	Service display for customer yyyy, software version nn

*) Please confirm the most suitable product option from TEC/TDC product brochures or contact your local Technion Sales & Support representative to find suitable product.

**) Please contact your local Technion Sales & Support representative for the details of supported joystick models.

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