

Converteam are a renowned and established player in the Marine and Offshore Industry. The C-Series signals the latest chapter in Converteam's innovative history in workstation designs for bridges and other locations. The breadth of Converteam's experience and our close contact with customers has been condensed into the design of the C-Series, which is suitable for dynamic positioning, automation and integrated bridge applications.



Converteam's extensive range of C-Series workstations includes:

**Dynamic Positioning**

Provides a clear graphical operator interface and a top grade joystick

**Manual Thruster Control**

Modularised manual levers with high quality graphic feedback display

**Automated Vessel Control**

Intuitive HMI touch screen enables improved operator efficiency

**Position Measurement Equipment**

Integration of acoustics, taut wire, DGPS and laser operator interfaces

**Integrated Bridge**

Integration of other bridge equipment with our own

**Key Features**

- Touch screen Human Machine Interface (HMI) across the C-Series range
- Ergonomic pointing device
- Redundancy of operator input
- Ergonomically and aesthetically designed for operator comfort and efficiency
- Graphical operator panel for dynamic positioning
- Modular design
- Upgrade options from existing systems available
- Flexibility to fit third party equipment

**Continuing to Innovate**

Working with an award winning design house, Converteam has developed an ergonomically enhanced range of workstations that provide greater benefits to the user. Operators of the new workstations are provided with choices for the mode of operator entry.

A touch screen HMI, a pointing device and an operator panel are all available options to ensure that operators can work as efficiently as possible.



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Touch Screen Human Machine Interface

### Workstation Primary Display

Converteam have augmented the marine-grade, high resolution LCD monitors with a touch screen using proven industrial technology. The touch screen provides the operator with a fast and intuitive method of control. The workstations are fitted with a Type Approved 21.3" monitor but are designed to accommodate other sizes, including widescreen technology.

### Dynamic Positioning Workstation

Converteam have developed a DP workstation to meet customer aspirations through close co-operation with operators and owners. A sunlight readable 8.4 inch graphical operator panel has been introduced to allow flexible configuration and enhanced functionality through soft keys to meet operational demands. Important consideration was given to the choice of a high quality feel 3-axis joystick,

which every operator will appreciate. The operator can choose between the primary display touch screen, graphical operator panel or pointing device for data entry and control.

Converteam's close working relationships both internally and externally have enabled the creation of an optimum dynamic positioning workstation.

### Automation Workstation

Touch screens offer major advantages to the operator controlling the vessel automation. The workstation includes a backlit industrial "short-travel" keyboard providing a good feel to the operator. The ergonomic pointing device completes the range of options of data entry methods that are available to the operator.

The automation workstations also have the capability for dual screen operation.

### Manual Thruster Control Workstation

The innovative manual thruster control workstation adopts a modular approach to accommodate the number and variety of manual levers found on vessels.

It features an innovative, full colour graphical display for feedback information, which also provides the operator with comprehensive diagnostic information.

The manual thruster control workstation fully complies with DNV regulations for independent controls and features a highly redundant architecture.

### Position Measurement Workstation

The workstation integrates the operator interface from a wide variety of position measurement equipment (PME) including acoustic, laser, radar, taut wire, DGPS, etc.

It features the same monitor, industrial keyboard and ergonomic pointing device used across the C-Series range.



Manual Thruster Control Levers

### Integrated Bridge

The C-Series workstations have been designed to facilitate integrated bridge workstations suites with large and flat worktops and 'dashboards'. The workstations will accept telegraphs, telephones and navigation equipment. The workstation is internally spacious and easily accommodates other supporting equipment and cabling.

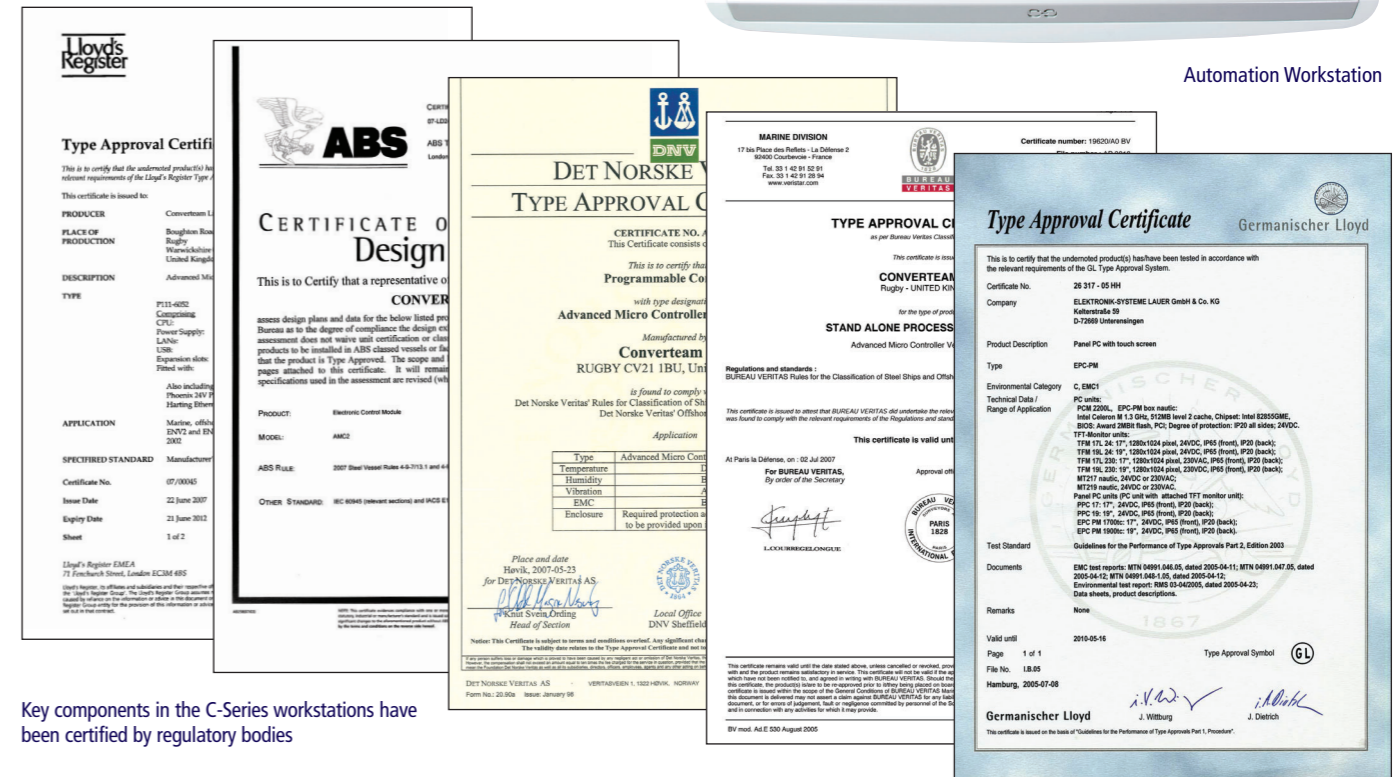
In conjunction with the other C-Series workstations, Converteam can supply a truly integrated bridge.

### Modular Design

The workstations are designed from a modular approach with three distinct parts; the display, the operator panel and the gear tray. These parts allow Converteam to offer the C-Series Workstation range as standard and the shipyard can also fit the three parts into their own preferred workstation design. Existing vessel/owners also have an upgrade path from existing DPS900 workstations onward.



Automation Workstation



Key components in the C-Series workstations have been certified by regulatory bodies

### Standards and Certifications

The C-Series workstation meet all major Class Society and regulatory requirements such as; Det Norske Veritas, Lloyd's Register, Bureau Veritas, American Bureau of Shipping, Norsok, US Coast Guard and International Maritime Organisation recommendations.

The C-Series complies with Type Approval environmental requirements, and workstations can be custom built to meet extra high level shock, vibration and temperature limits for special applications.

### Specification Table

<b>Width</b>	700mm	<b>Height</b>	1200mm
<b>Depth</b>	873mm	<b>Weight</b>	135kg
<b>IP Ratings</b>	IP22	<b>Power Supply</b>	Autoranging 110V AC – 230V AC
<b>Environmental</b>	Complies with class society requirements for type approval in bridge and engine room requirements		
<b>HMI Monitors</b>	21.3" 1600 x 1200 resolution Industrial Resistive Touchscreen		



DP Operator Panel