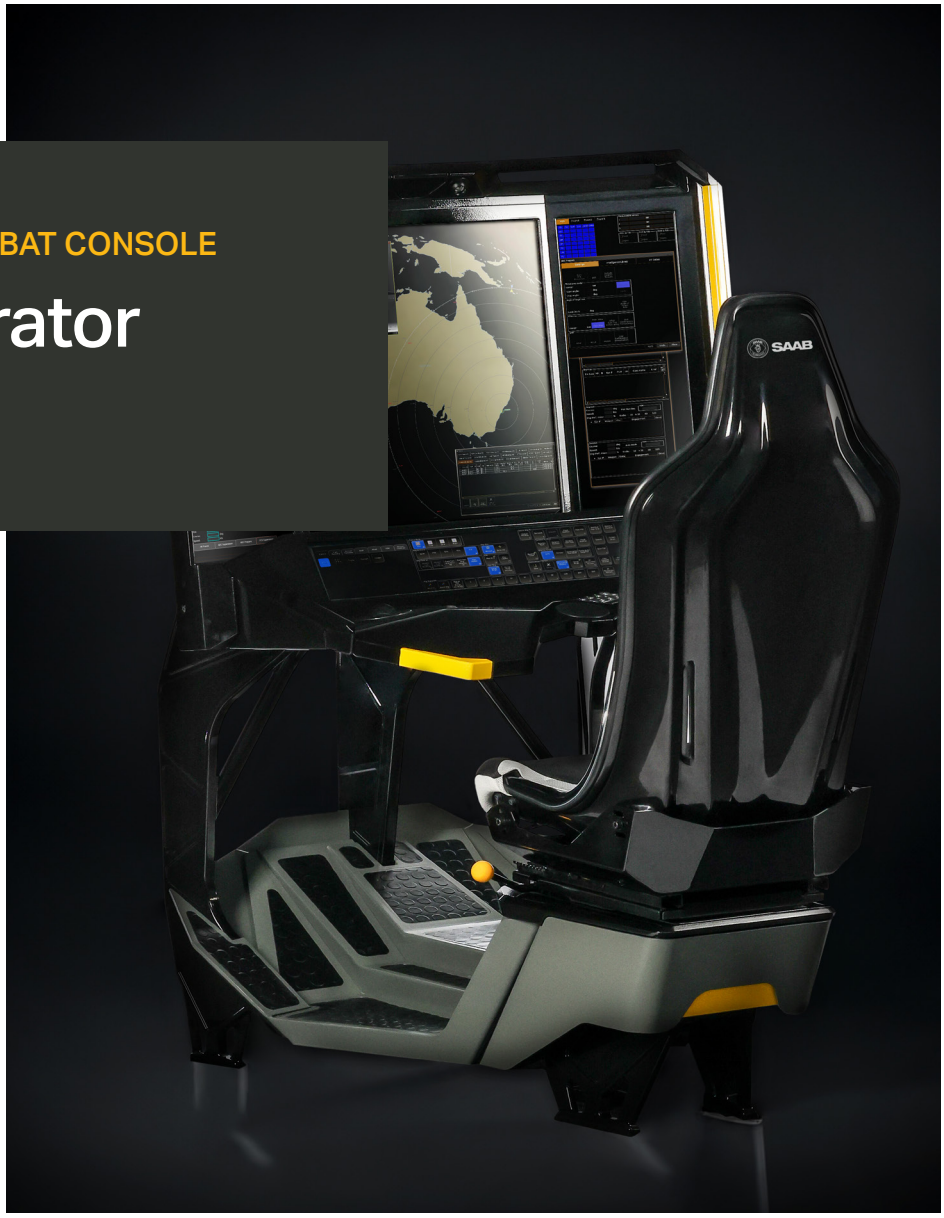
A REVOLUTIONARY COMBAT CONSOLE

Future Operator Workspace



The Saab Future Operator Workspace provides an operator immersive, intuitive platform, enabling superior management of critical systems in all operational situations.

Combining innovation, human centred design and ergonomics, with an advanced human machine interface, the Future Operator Workspace increases operator effectiveness and survivability.

Leveraging the expertise of Saab's global hardware and software experts, leading industrial design academia and global naval operators, the platform enhances the operator experience, efficiency and safety, even under the most extreme conditions.

When used in conjunction with Saab's Command and Control software, these characteristics combine to reduce operator mental load and fatigue, enabling increased reaction times and saving valuable seconds in critical situations.

With large, multiple displays, the Future Operator Workspace provides a clear and distinct presentation of the tactical and operational environment. This, together with a logical human-computer interaction concept, makes it suitable for all types of defence and/or commercial applications.

Construction and Design

The Future Operator Workspace includes:

- An efficiency embedded design for optimisation of space, weight and power
- Topology optimisation to reduce overall weight with extra material only added in critical areas for strength
- Aluminum construction, with optional material selection to suit customer requirements
- Compact console and operator platform with reduced overall footprint and increased total system survivability in the event of a major shock scenario
- Operator fully embedded for a more focused work environment to provide executive management of multiple mission critical systems
- Combined human and machine safety with all-inclusive shock proof platform, ensuring operators are protected and fully equipped to ensure mission completeness
- Ergonomic user interface that combines traditional split keyboards with state-of-the-art ultra wide touch screen, multifunction haptic track balls and track pad
- Human factors and ergonomic design considerations incorporated for fifth percentile female through to 95th percentile male operator
- Small form, yet powerful computing platform that reduces size and weight without operational compromise
- Multiple user interface options that can be fully customised for a tailored and optimised operational experience

Technical Data

The Future Operator Workspace comprises the following:

- Main Tactical Display with a resolution of 2560 x 2880
- Left and right side monitors with a resolution of 1920 x 720
- Touch Input Display with a resolution of 1920 x 360
- Ortholinear split keyboard with backlighting
- Two trackballs featuring:
  - Magnetic technology for consistent ball rolling force
  - Button touch zone features
  - Trackball 'tab to click' capability
  - Full touch gestures including scroll and pinch to zoom
- Touchpad features:
  - Solid state sensing technology - capacitive touch sensing tracking engine
  - Haptic and audible feedback
  - Multi-finger gesture support
- Stereo audio
- Virtualised interface to TactiCall integrated communication system
- Ethernet port 1 x 2.5G
- CPU with the following specifications:
  - Processor: Intel Core i9-12900E Processor, 30M Cache, up to 5.00GHz
  - Ram: 2 × 32GB DDR5 4800 RAM, total 64GB
  - Video card: NVIDIA T1000 8GB GPU
  - 9 USB ports
    - » 1 x USB 3.2 Gen 2x2 (20 Gbps) port in type-C connector with screw lock
    - » 4 x USB 3.2 Gen2x1 (10 Gbps) ports in type-A connectors
    - » 2x USB 3.2 Gen 1x1 (5 Gbps) ports in type-A connectors
    - » 2x USB 2.0 ports
  - Ethernet ports: 6 x 2.5G

Space, Weight and Power

The Future Operator Workspace efficiency embedded design optimises its use of space, weight and power. It is a compact and powerful platform, ensuring a reduced footprint without operational compromise.

- Total system weight: dependent on customer requirement and material selection (for example; Composite or Aluminum)
- Power supply requirement: 115/230V at 50/60 Hz
- Power Usage and Heat: 350w (typical) to 700w (max)

Environmental Qualifications

The Future Operator Workspace has been designed for use in naval sheltered applications and considerations have been made for EMI/EMC, shock events, vibration, ingress protection, noise, inclination, temperature, humidity and further external environmental factors.