



Innovative Systems for Individual Solutions



A note from our Directors

We help our customers protect what matters most by providing the best in proven technology with high availability for demanding environments. We hire the best people and always provide a solution to a need rather than push a product.



Our Values

Teamwork

We work together to provide our customers with solutions.

Integrity

We do what we say, when we say. We act with honesty and are trustworthy.

Excellence

We take pride in what we do. We strive to continuously improve ourselves and the business.

Courage

We are not afraid of taking on challenges with diligence, endurance and nerve.



CHESS DYNAMICS 

A COHORT PLC COMPANY

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Chess Dynamics is a surveillance and fire control specialist providing bespoke solutions for Land and Maritime domains.

Defence Leaders around the world work with Chess for market-leading, reliable defence systems.

Chess designs and manufactures an extensive range of Electro-Optical (EO) tracking and surveillance intelligent sub-systems for military land and maritime applications.

These solutions incorporate thermal imagers, TV cameras, laser range finders and radars. Chess enables the user to control the platform by joystick, auto-track, slew-to-cue, radar-cue and remote sensor-cue for passive target detection, recognition

and identification. The more complex EO systems are integrated and used as part of complete fire control systems and may also be integrated into vehicle surveillance systems.

The comprehensive portfolio of proven surveillance and fire control technology solutions also includes counter-sUAV (drone) protection systems, the Vision4ce branded real time video and image processing solutions for electro-optic systems.

A complete service can also be provided. Including survey, installation, training and maintenance across

its entire product range, including bespoke engineering solutions.

Chess Dynamics has been supplying equipment, sub-systems and solutions to defence leaders and prime contractors since 2005.

Cohort acquired a majority share in Chess in 2018 and the company is led by David Tuddenham.

Designed by experts, built by specialists, maintained by professionals. We are Chess.



Maritime Systems





Sea Eagle Family of Maritime Systems

The Sea Eagle Family comprises of fire control and surveillance systems specifically designed to provide vessel operators with comprehensive situational awareness, target detection, tracking and fire control.

The systems employ a suite of electro optical sensors to deliver a comprehensive visual picture 24 hours a day that provides both a broad view of the vessel operating area and precise classification of targets. In addition to electro optical sensors, Sea Eagle FCRO (Fire Control Radar Optical) deploys a state of the art FMCW Doppler tracking radar that extends the system performance in operating range and provides an all-weather target engagement capability.

Sea Eagle systems are operational with multiple world-wide customers; over 80 examples of the systems are operational with Navies around the globe.

Surveillance

Sea Eagle systems employ advanced image processing techniques to provide a high level of automated operation during surveillance and target tracking. Producing both a panoramic image of the operating area with high magnification, and still or moving images of detected targets, the systems can be set to alarm on pre-defined target types and associated behaviour via AI target classification.

Weapon Control

Sea Eagle systems offer a weapon control sub-system that incorporates high accuracy gun prediction, together with flexible weapon interfaces that will facilitate operation with any in-service naval gun mounting from 20mm to 127mm.

Chess are experienced in designing systems to operate in a stand-alone configuration with a dedicated operator's console or as an integral element of a variety of vessel command and control systems.



Land Systems





Hawkeye Family of Land Systems

The Hawkeye Family comprises of advanced modular and scalable multi sensor systems for precise reconnaissance, surveillance and targeting across the land domain. The systems employ a modular suite of electro optical sensors to meet the operator's mission requirements, swapping of sensors can easily be done in the field enabling platform role changes. They are also capable of providing real time video and target coordinates to other effectors or command centres in the operating network. In addition to electro optical sensors, Hawkeye AD (Air Defence) deploys a state of the art FMCW Doppler tracking radar that extends the system performance in operating range and provides an all-weather target engagement capability in a GBAD role.

Counter-Unmanned Air Systems

C-UAS is designed to disrupt and neutralise Unmanned Air Vehicles engaged in hostile airborne surveillance and potentially malicious activity.

Static Mounted Systems

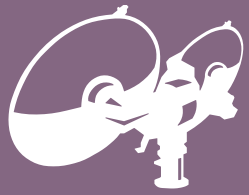
Mounted on a mast or fixed platform, these offer 24/7 remote operation.

Air Defence Systems

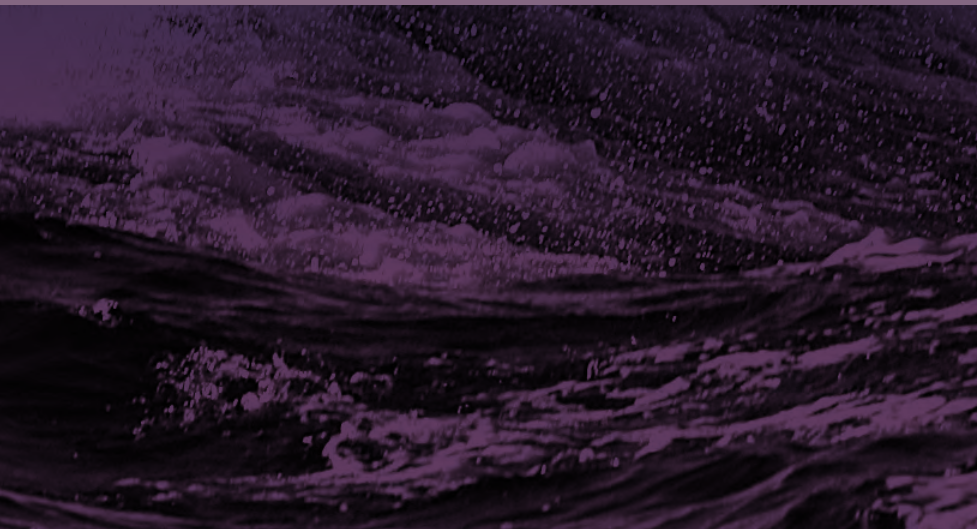
Dedicated independent surveillance and fire control assets that can be integrated into wider surveillance and fire control architectures.

Vehicle Mounted Systems

In this configuration, Hawkeye's cameras and director are vehicle mounted on a hydraulic/pneumatic mast along with any radar requirements.



Special Projects





Special Projects

Chess Dynamics has nearly three decades of experience in designing, developing and manufacturing specialist electro-mechanical products and solutions to meet individual needs. We deliver bespoke designed, modified, tailored and fully customised products that can be embedded into our customer integrated solutions to meet any challenge.

Our dedicated engineering team allow us to operate in an agile fashion, leveraging research and development to innovate quickly. Rapid prototyping enables our customers to get their products into the market quickly.

We work in partnership with our customers to find the best solution to solve their specific problem or challenge. Our team of engineering experts listen to the customer, understand the issue, design, and then develop solutions that accurately meet the customer's demanding requirements.

In providing bespoke surveillance, tracking, and fire control design, we can ensure that we meet the exact needs of our customers. Customers value our technical confidence, responsiveness, and ability to quickly understand a challenge and engineer a solution from existing building blocks. We can tailor existing technologies or fully create unique solutions to meet individual needs.

Chess Dynamics was founded to meet a need, and for years, we have proven that engineering is the art of making science possible. Our engineering team consists of tenacious, problem-solving experts who put quality and engineering excellence at the heart of everything. Our customers value the reliability and competitive pricing of our engineering solutions.

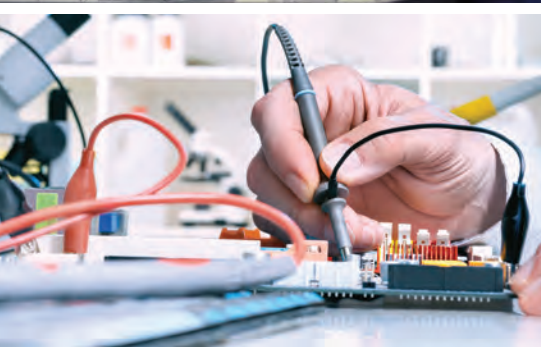
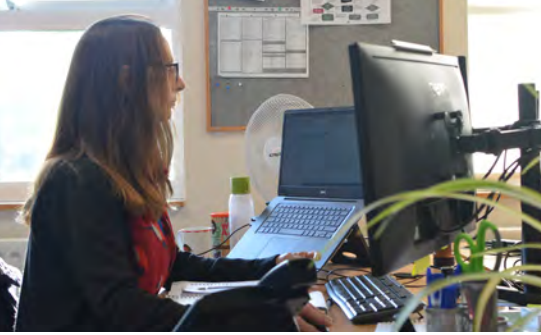
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A technician wearing a white lab coat and glasses is focused on working on a piece of industrial machinery. The machine has a glowing green light on its side. The background is a blurred industrial setting with blue and yellow elements. The image is overlaid with a blue circular graphic on the left side.

Maintenance **Services**

www.chess-dynamics.com



Maintenance Services

At Chess Dynamics, we recognise that delivery is just the conclusion of the first phase of any project.

Throughout the design and development phase; we continually think Maintainability and Serviceability: What critical and non-critical spares are appropriate? How can they be changed? Can it be done in situ with standard tools? How long will it take?

The environment is demanding. You need your tech to be working at 100% capability. You also need to minimise any downtime.

That's where we come in.

As an OEM, we can deliver high-quality training, refurbishment, and maintenance services as required for long-term peace of mind.

Support is not just about the products, it is the formation and maintenance of friendly, long-term working relationships. With every customer, we focus our commitment on excellence and the delivery of high quality, through-life support experiences.

A Service Agreement with Chess ensures that your system/s continue to function in the way you expect and need them to do.

Get in touch with the team today to discuss our post design services and support.



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