

ALARIS[®] CONSOLE

ABOUT ALARIS[®] CONSOLE

Alaris is designed specifically for mission critical operations such as in Air Traffic Control (ATC) operations. The steel structure of the Alaris console provides the durability required for a 24/7, high stress operation. Its innovative design, unbelievable flexibility and unique range of Air Traffic Controller and other mission critical specific features surpass the Air Traffic Control community's highest expectations.

Designed in partnership with Evans' in-house engineering team and industry experts, the Alaris console carefully considers the sightlines, reach distance, and equipment placement to improve controller comfort and flexibility, ensuring the integrity of the controller tasks. The turret and desktop design are configured to accommodate technological and operational changes and can be removed and interchanged between modules as the need arises.

ALARIS[®] CONSOLE FEATURES

Unique Design. The Alaris console is designed to respond to the specific needs of the ATC industry. Durability in a mission critical 24/7 environment and minimization of workplace stress were key factors in the creation of this console solution.

Independent Movement. The Alaris console system was created using the Diversity console's stable yet highly flexible base structure and integrating the modularity of the Identity console's user-interface level. This gives complete independence of movement between the consoles base structure and the interfacing layers, providing the ultimate solution to configuration, adaptability and equipment access needs.

Optimal Sightlines. Alaris is constructed with a low profile, allowing for optimization of sightlines to both ground and ramp operations as well as view to the air space around the tower cab. Specific to the Air Traffic Control Industry.

Durability. The Alaris console is designed with a modular, formed steel and extruded aluminum structure, powder coated formed sheet metal components and a durable plastic laminate worksurface to provide the strength and durability required in a 24/7 environment, yielding low lifetime cost of ownership

Easy Adjustment. The base structure is a formed heavy gauge sheet metal and extruded aluminum frame system of modular construction to allow ease of carrying into an existing tower cab and simplification of installation in a tower cab. Each base module is equipped with a four point leveling system consisting of four adjustable leveler legs at the corners of the module. The unique structural system allows for the infinite adjustment of a module width.

Comfort. Functional 14 in (350mm) deep worksurface with an ergonomic molded soft urethane Edging provides the latest in user comfort.

Cable Management. Undercounter pans to conceal wiring and an undercounter worksurface skirt for mounting jack boxes combine to provide a pleasing work environment.

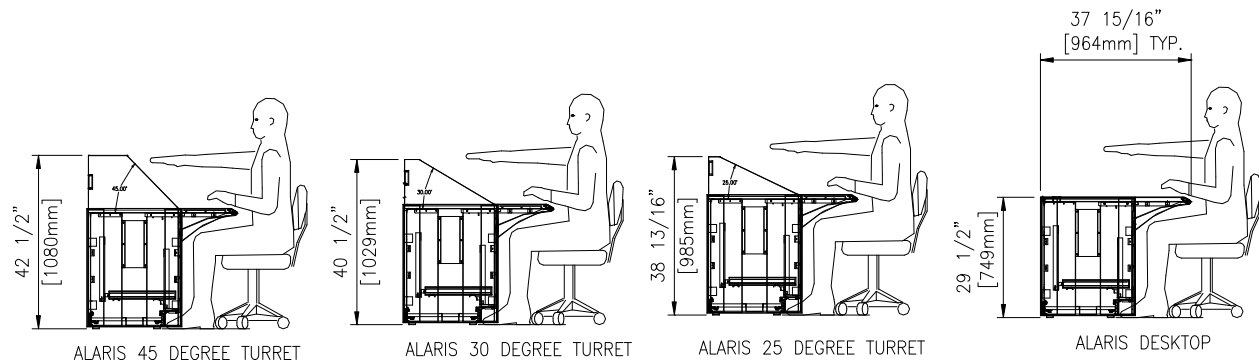
Turret System. An innovative rail-mounted turret can be repositioned anywhere along span of console to accommodate operational change and maximize operator comfort. A fabricated hinge extrusion is found at the top of the equipment turret opening. This two-part hinge allows for the hinging of the equipment front into the turret, the removal of the equipment front from the turret without any tools. This design allows for the equipment front or fronts to slide along the length of a series of turrets and be supported by the base turret assembly and base structure and yet be totally independent of these two elements.

Equipment Accessibility. Flexible interior design accommodates various equipment and system requirements; equipment is accessible from front or rear.

Rackmount. Internally mounted powerbars and standard rackmount panels seamlessly integrate technology into the console.

Alaris Console Typical Dimensions

- Width 21 in (533mm), 24 in (600mm) and 30 in (750mm) (not including end panels)
- Height 29.5 in (737mm) worksurface height
- Depth 37.5 in (937mm)
- Corners Custom corners to fit tower footprint
- Worksurface Depth 14 in (355 mm), 15 in (388 mm) with plexiglass inlay



ALARIS® CONSOLE MATERIAL SPECIFICATIONS

1.0 Console Structure

Frame

A steel and aluminum extrusion structural system is precisely fabricated to ensure the strength, squareness and rigidity of the console. The structural sub-system is comprised of

sheet metal gables fastened together with Aluminum stringers. Further, perforated equipment mounting shelves are incorporated for proper equipment ventilation.

Sheet Metal

- Cold Rolled Steel 12 and 14 gauge

Aluminum Extrusions

6063-T54 Aluminum

- Yield: 30 ksi
- Modulus of Elasticity 10.6 x 10⁶ psi

6060-T5 Aluminium

- Yield: 16 ksi
- Modulus of Elasticity 10.6 x 10⁶ psi

2.0 Internal Components

Processor Support Shelves

- Fixed Shelves 16 gauge C.R.S, Powder coated black finish
- Door Mounted Shelves¹ 16 gauge C.R.S, Powder coated black finish
- Slide-out shelves 16 gauge C.R.S, Powder coated black finish

Rack Mount Rails

- Front and rear access rackmounts are 19" EIA rack mount rail sets
- Quick release

3.0 Worksurface

The rigid Alaris worksurface is designed to provide a smooth, level work area, while complying with accepted human factor criteria. All ergonomic standards have been taken into consideration, including view/reach distances, keyboard height, and knee well space. The adjustable worksurface option provides further flexibility allowing for customized height positioning (continuously variable within a 5 in range).

- Materials 1 in (25.5mm) Particle Board
- Finish high-pressure plastic laminate surface veneer
- Static Load 50 lb./ linear ft. (MAXIMUM 250 lb. (90 Kg) per surface on Adjustable Worksurfaces)

4.0 Gables

- Desktop Gables, both left and right, 1" thick core with high pressure laminate finish and PVC edging
- Equipment Turret Gables, both left and right, 3/4" thick MDF core painted.

5.0 Rounded Polyurethane Worksurface Nosing

Evans has developed an extremely durable, highly flexible nosing that allows inside and outside curves.

¹ Swing –out shelves

- Comfortable and ergonomically sound
- Allows curved sections with a 14" radius
- Edge slope and radius spreads the weight over a larger surface. Enhancing end user comfort.
- Cast polyurethane foam secured over an aluminum extrusion carrier.

6.0 Electrical Devices

Undercounter Power Receptacles

- Single outlet utility box
- 120 V AC
- 15 Amp

Rackmount Power Bars

- straight blade plug
- on/off switch
- 6 outlets
- 120 V AC
- 15 Amp
- reset-able overload circuit breaker

Power Strips

- Plug-in outlet center
- Reset-able overload circuit breaker
- 15 Amp
- 120 V AC
- 8 outlet

Undercounter Floor Lighting

- 12 V 12 W flush mounted light
- cast louver and frosted lens
- separate dimmer switch

Cable Management Systems

- Continuous wire cable management cable tray
- Dividers to separate power from data are available
- Cable grommet through the base to allow passage for footswitch cable

Grounding Systems

- Multi – point or single - point ground bar – solid ¼" (6.35 mm) thick copper bar mounted to structure with 2 rows of 10-32 tapped holes
- Grounding lugs on each frame with continuous copper cable.

Internal Service Light

- Fixed halogen light – 20 W, 12 V service light. On/off switch

Turret Mounted Ventilation Fan (Optional)

- 12 V DC
- 1.3 W consumption
- 33 CFM, 27 dBA
- Connected to internal power supply

6.0 Custom Optional Features

The following are just some of the many options available to increase the functionality of your console solution. For more information and to determine your actual console requirements, please contact the Evans Solutions Team.

- Desktop CRT well configurations for unique sightline requirements
- Turret angle choices of 25 degrees and 30 degrees from the horizontal.
- Corner modules layout dependant to accommodate various control tower configurations.
- Console end panel to match architectural requirements.
- Equipment front solutions that include rack mount filler plates, plastic laminate on composite wood core equipment fronts, 1/8" aluminum equipment fronts and flight strip tray inserts.
- Base structure internal components for processor equipment support include 2 and 4 point rack mount rail systems, fixed, slideout and vertically adjustable perforated sheet metal shelves and custom monitor support apparatus.
- Electrical features to chose from include turret ventilation fans, power strips and bars, convenience outlets, internal service lights, floor lighting, ground bars, continuous welded wire cable tray management systems
- 1/8 in acrylic work surface overlays.
- Cable grommets
- Headset jack mounting and work surface underpan system.
- Integrated undercounter keyboard drawers
- Integrated undercounter pencil drawers
- Tasklight
- Acoustically lined doors
- Sheet Metal Doors
- Customer specified powerbars available
- Metal doors
- Fire rated materials
- Electro-static discharge (ESD) resistant materials
- Articulating Monitor arms
- Panel locks
- Center cab console designs available