CONTROL ERGONOMICS
INTERNATIONAL

METRICS™

Console System

Material Specifications

Product Summary

Metrics is a highly engineered console platform or system designed to support mission-critical work in command & control applications and other environments. The system is engineered with solutions to integrate pc-based technologies and flat screen arrays with excellent human interface based on operator comfort and ergonomic accommodation. Metrics can be designed to meet the design of room architecture in both open and closed settings.

Specifications Highlights

This document provides general material specifications for the core components used to create a complete console unit or multiple, shared workstations:

- Structural platform or base
- Worksurfaces or desktop components
- Internal technology support components or accessories
- Configuration style or models
- Finishing elements

Structural platform

Linear Configurations

Each dedicated console unit includes an inverted 'U'-shaped spine which is 3-piece steel assembly consisting of two vertical members and a corresponding cross-member; all are constructed of heavy-duty 12-ga CRS. The spine design is suitable for single or double-sided (back-to-back) configurations.

The spine structure is supported by a minimum of two steel uprights, or legs, to create a single-sided workstation, and four legs for a back-to-back console based on the presence of a single spine. Each upright is constructed of 14-ga CRS and includes a leveling glide. The spine may be configured as a desktop only configuration (no additional viewing or separation walls) or with a single display wall in order to mount flat panel arms or other similar devices that can be adjusted by the user.

An optional display wall configuration can be specified that creates a vertical mounting plane to accept flat panel arm assemblies. This display wall is approximately 8-inches in height constructed of an extruded aluminum interface secured to a 12- and 14-gauge steel framework. The steel framework attaches directly to the spine system.

Linear Console units, finished dimensions (inches)

- Widths: 36/48/60/72
- Height, no display wall: 31-3/8
- Height with display wall: 38-3/4
- Depths, singled-sided units: 38-5/8 (24" surface); 44-5/8 (30" surface)
- Depths, back-to-back units: 72 (2-24" surfaces); 84 (2-30" surfaces)

Angled or Transitional Configurations

These configurations represent console configurations that attach between two linear units to create a desired viewing orientation or to address walled architecture. Each console unit includes an inverted 'U'-shaped spine which is 3-piece steel assembly consisting of two vertical members and a corresponding cross-member; all are constructed of heavy-duty 12-ga CRS. Full corner units include up to three (3) spine units. Depending on the size of the angled units, there are typically two vertical posts that physically define the desired angle when connected with the spine system(s).

Angled units require two other free-standing consoles for support and to permit continuous desktop flow. The spine may be configured as a desktop only configuration (no additional viewing or separation walls) or with a single display wall in order to mount flat panel arms or other similar devices that can be adjusted by the user.

An optional display wall configuration can be specified that creates a vertical mounting plane to accept flat panel arm assemblies. This display wall is approximately 8-inches in height constructed of an extruded aluminum interface secured to a 12- and 14-gauge steel framework. The steel framework attaches directly to the spine system.

Transition Console units, finished dimensions (inches)

- Angle Standards: 15/30/45/90 (degrees)
- Full Corner: 90 (degrees)
- Height, no display wall: 31-3/8
- Height with display wall: 38-3/4
- Surface Depths: 24/30 connecting sides (adjoining linears)

Worksurface or Desktop

A worksurface is defined as the laminated surface that serves as the primary desktop area for equipment or work-in-process space for an operator. These surfaces shall be available in true 24" and 30" depths (useable) with an overall top thickness of approximately 1.2". The leading edge of the surface can be specified with a camphor edge (bullnose) or bonded urethane nosing (black). The remaining edging shall be flat PVC edging or banding with no exposed substrate or self-edging laminate. An equivalent overlay, typically in black, is applied to the underside of a surface. Mounting points for surface attachment to the supporting uprights include threaded inserts for alignment and future system adjustments or re-configuration.

Worksurface models, finished dimensions (inches)

- Widths: 36/48/60/72
- Depths: 24/30

Desktop cable management to support user equipment can be routed through removable steel infill covers with integrated wire brush inserts for a seamless entry into the interior of the console. An infill cover is constructed of light-weight 18-ga CRS to allow easily removal by hand. Each infill section mounts flush to the primary surface. Infill covers can be specified solid or vented.

Internal Technology Support

Technology support is defined as components that provide cable management for voice/data and power and solutions to manage and store computer hardware.

Cable Management
Each operator position includes an integrated wire raceway or basket constructed of 1/8" wire form that matches the internal width of the console unit. Each raceway is affixed to the rear portion of the console, beneath the surface infill covers, to correspond to the presence of monitor and pc hardware placement. Internal clearance of wire trough is: 9-3/8 x 3-3/4. Internal wire raceway is coated in black.

Configuration Styles

The most popular configuration styles are linear units as single-sided units that can be organized as free-standing consoles are easily ganged to create a continuous run of consoles without break or interruptions in surfaces. To create viewing orientations to address video walls or other room architecture considerations, a variety of transitions console units can be specified to create angled configurations based on 15-, 30-,45- and 90-degree standards.

Finishing Elements

These elements are defined as vertical panels or decorative end panels that finish the exposed sides or areas of a console (enclose). The panels that finish the front or backside of a console (sides facing an operator) are modular steel panels with quick-release latches to permit user access to equipment. Removable steel panels are constructed of 18-ga CRS. The sides of the console require decorative end panels to match the overall depth of the unit for a complete console appearance. End panels are finished with a decorative laminate.