Gesab
guarantee for the future

ADVANTIS POD

TECHNICAL REPORT

pod

November 2021
19/11/21

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1. GENERAL DESCRIPTION

ADVANTIS POD

The new addition to the ADVANTIS family is a modular control console, aimed at projects with a high equipment density in critical and 24/7 environments. The console permits the comfortable, smooth control of computer equipment, cabling and common connections in control room environments, and the integration of complex ergonomic visual display systems.

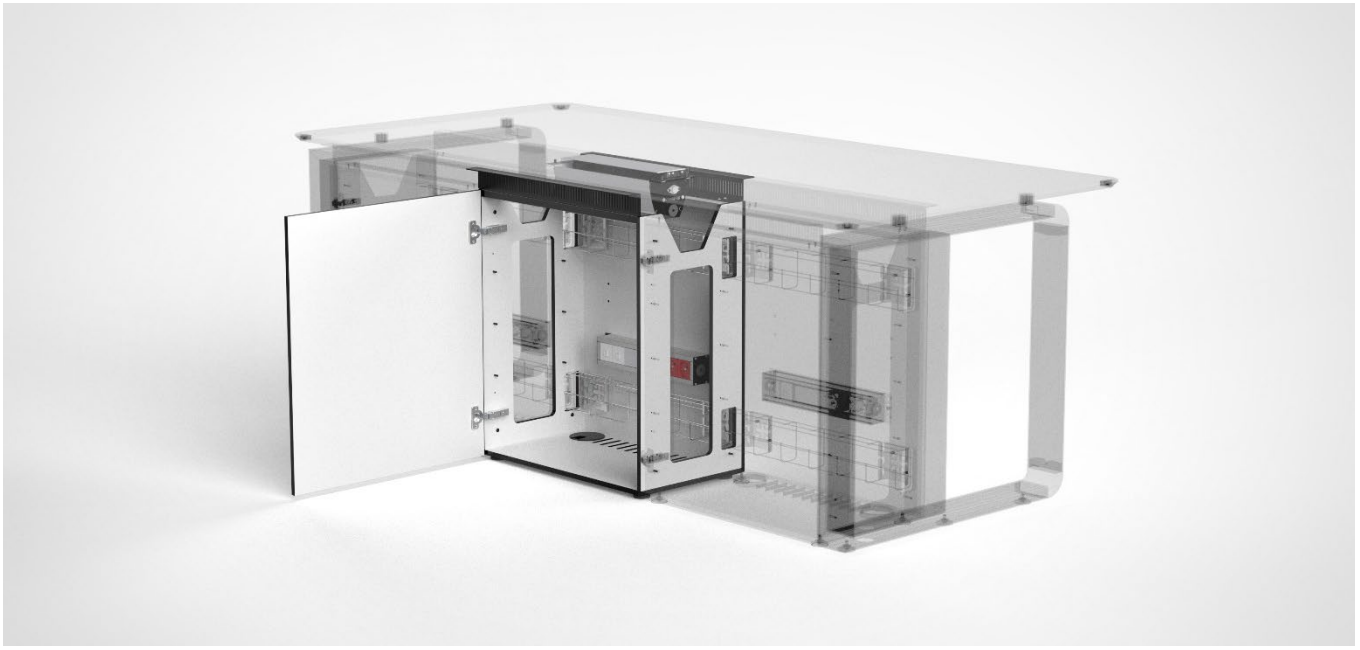
Design, quality and durability, ADVANTIS now comes with enhanced storage capacity and integrated compartments beneath the worktop. As with the other products in the ADVANTIS family, only the highest-quality processes and materials are used, guaranteeing maximum durability and safety for the most demanding professional environments.

ADVANTIS DESIGN QUALITY

The successful design of the Advantis family now with closed compartments built into the structure. Same balance of design with streamlined optics and structurally robust, now applied to console versions with enhanced storage capacity and per-operator equipment density. Side pieces designed with the signature ADVANTIS aluminium profile frame and the worktop detached from the structure to make it lighter optically and increase the lower compartment ventilation area.

STORAGE CAPACITY AND EXCELLENT FUNCTIONALITY

ADVANTIS POD compartments permit the integration of more equipment and cabling in small spaces with no loss of functionality. Space for workstations, PCs, rack equipment, DeskWalls - all the add-ons needed to make cabling and connection management as simple as possible, along with an extensive range of accessories to fully pivot the functionality of each compartment to individual project and user requirements.



Maximum functionality to ensure best-in-class operability for the control position. ADVANTIS POD is designed to integrate the maximum amount of equipment without compromising ease of equipment and cabling installation and maintenance. Each module has 2 independent cabling areas for energy and data, along with an easy-to-access connections area. Maximum capacity and adaptability for all types of projects with high technical demands.

MODULAR PLATFORM

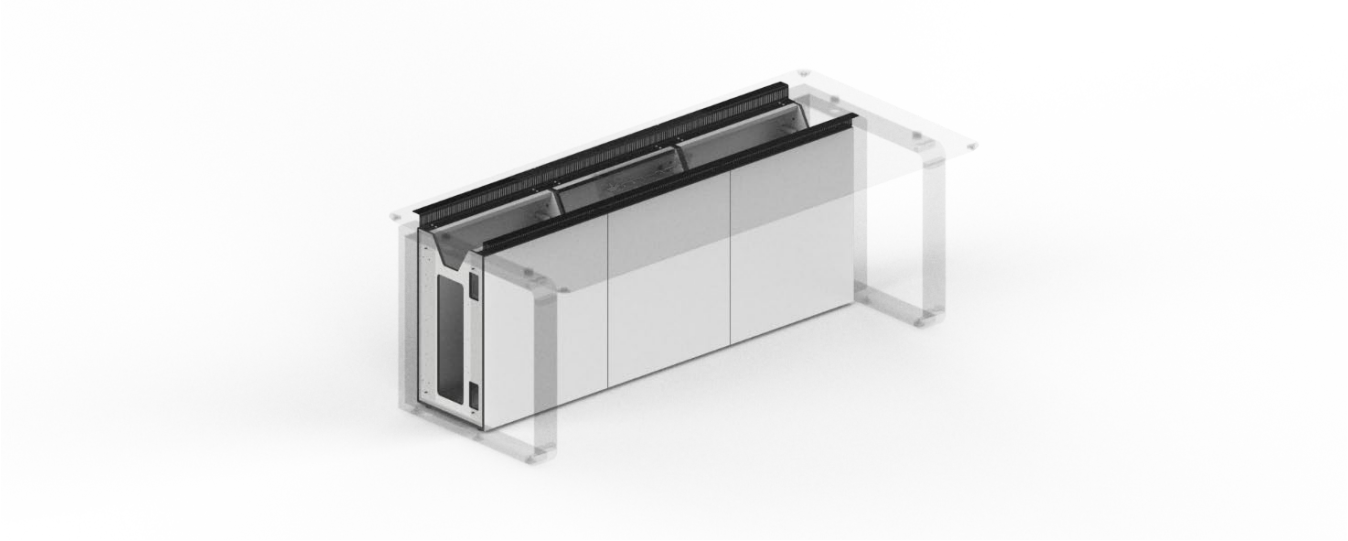
The ADVANTIS POD structure is based on 600 mm-wide, fully configurable compartments enabling the standardised design of numerous setups, from individual consoles of different lengths to concave and convex curved, double-sided linear and height-adjustable Sit&Stand arrangements. They all have the same technical features and functionalities geared at the most demanding work environments. A fully modular platform to track specific project needs.

BESPOKE DESIGNS AND CUSTOMISATION

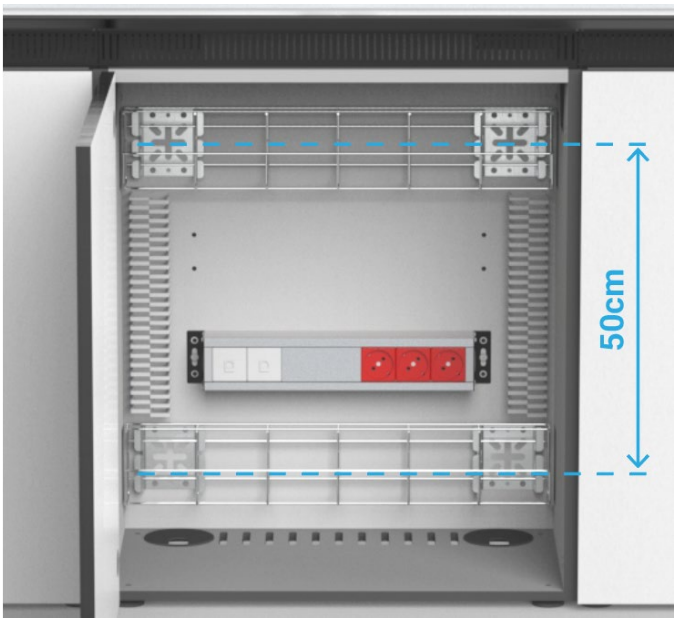
GESAB has a large team specialising in projects and solutions for control rooms and all types of critical environments. We provide our customers with all our knowhow and expertise to deliver the best result, focusing on operability and the customer journey. From the design, architecture, computer graphics and engineering team to production and assembly, GESAB works with highly qualified professionals to address the most complex and demanding projects, always offering high value-added solutions in design and quality.

2. MAIN COMPONENTS

COMPARTMENTS

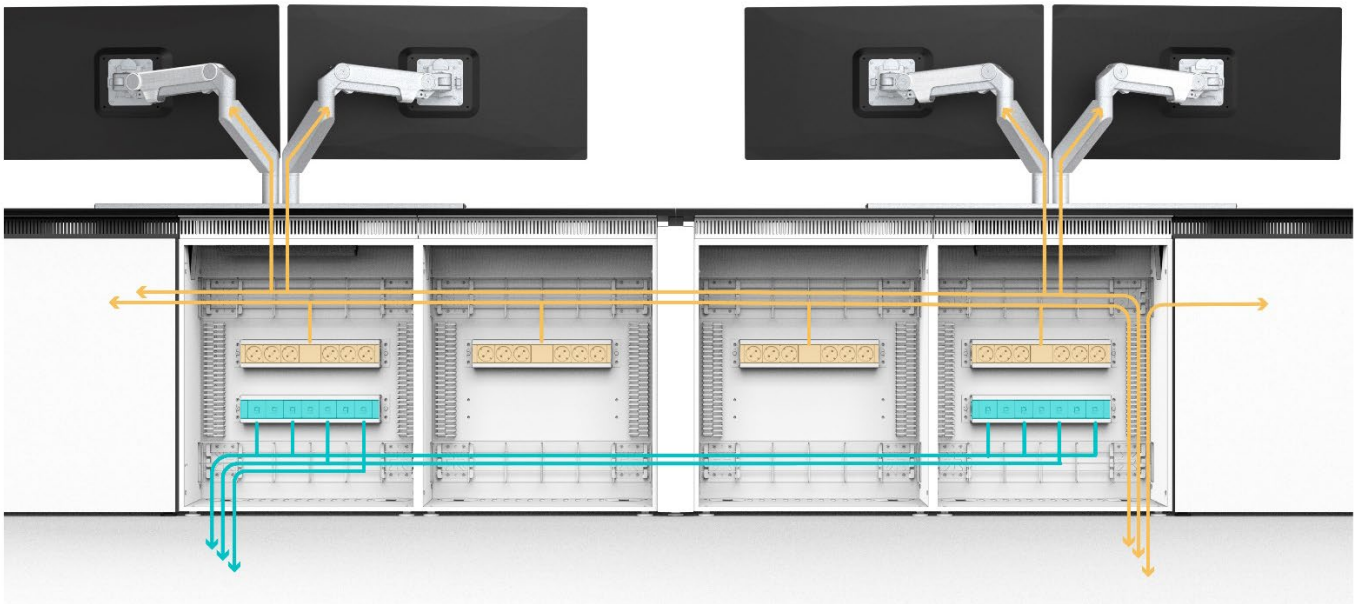


Self-supporting compartments made from 12.4 mm CDF (Compact Density Fibreboard) with pivoting doors enabling rear or front access. The compartments are modular and self-supporting in order to permit multiple length designs (up to four in a row with no intermediate side parts) and distributions, along with access to the internal technical area through the rear or front of the console, depending on room space limitations. The doors include a beam unit with a handle-free, pressure-operated silent opening and closing system.



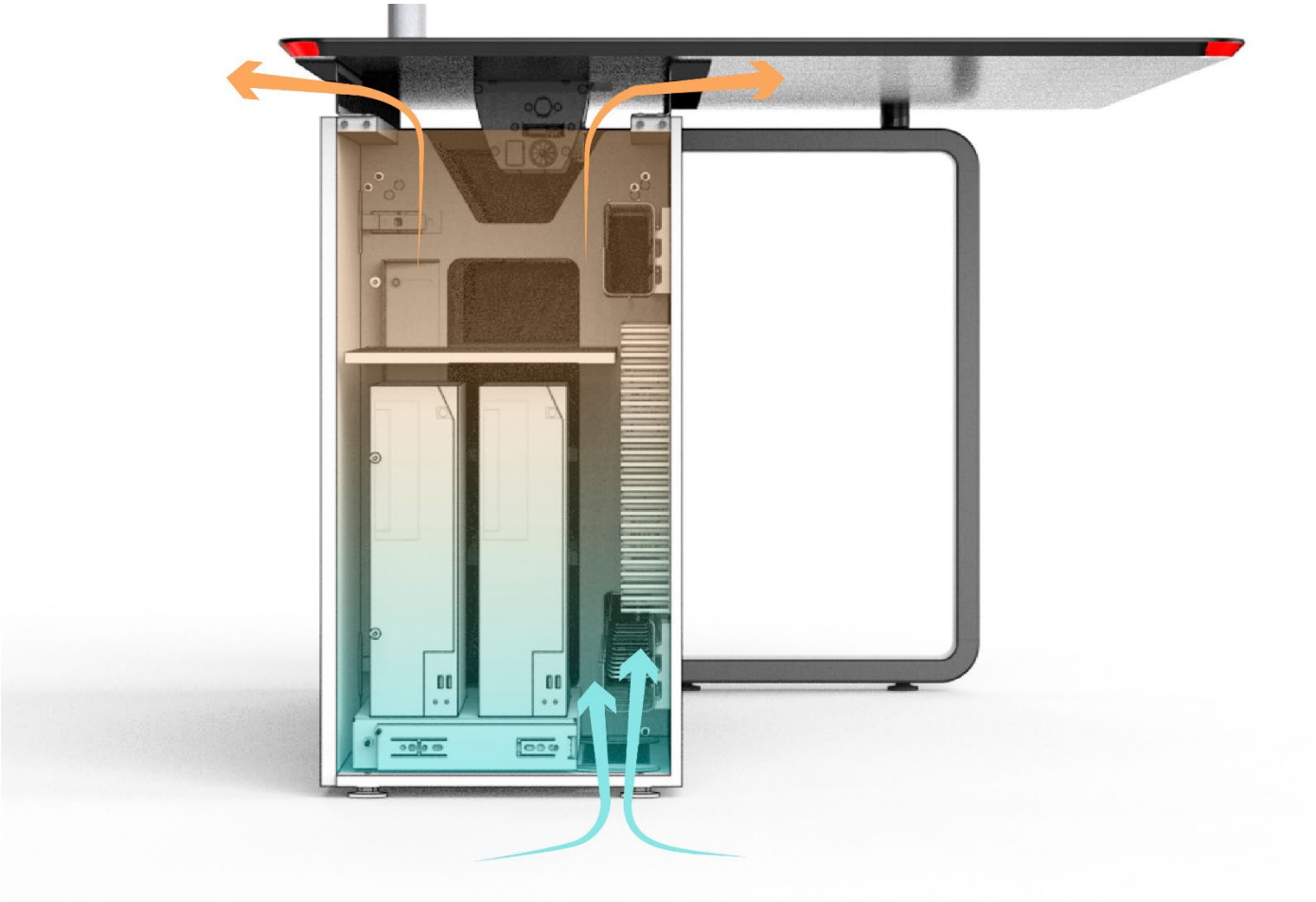
The compartments are built into a dual cable tray system to isolate data energy, with spacing of up to 50 cm. The Regitech® drawer trays are made from a steel grid with surface protection and a safety edge to support and conduct electric cables and have been especially designed for tight spaces and industrial facilities. There is an open structure to feed wires in from the side, stepping up ease of computer equipment installation and maintenance.

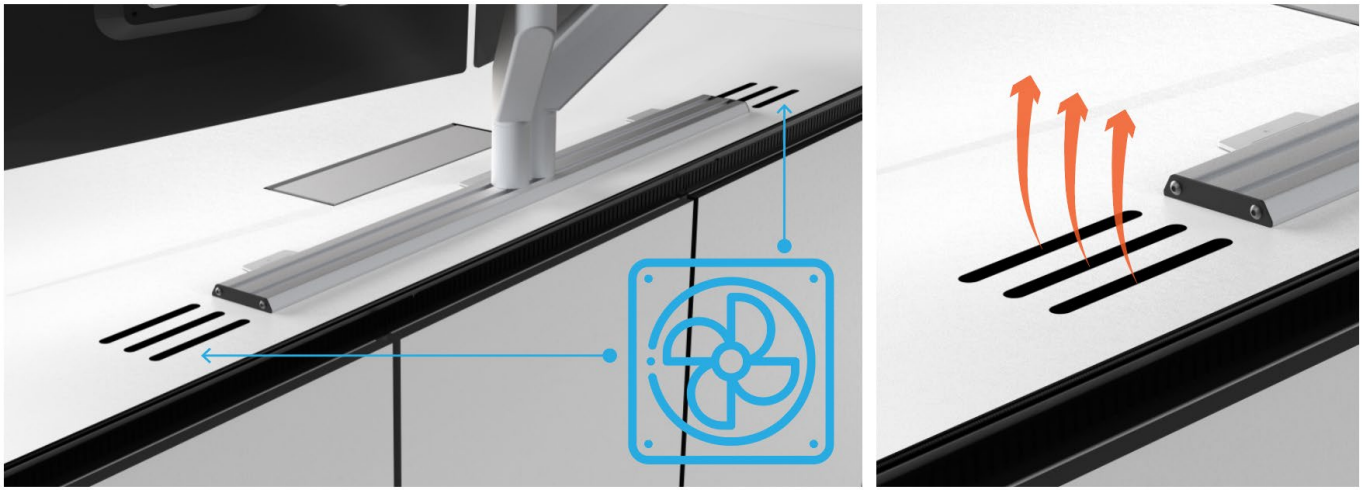
Each duct (2 per compartment) measures 60 mm x 100 mm (Depth x Height) and makes it possible to pass the cabling between the different compartments of the ADVANTIS POD consoles and to correctly organise the cabling and connections across all console lengths.



The compartment design considered installation and maintenance requirements to offer a premium user experience for technical personnel. There is a dual cabling tray running the length of the console, connection areas for power strips and patch panels, vertical ducts (optional) and numerous accessories available to cover all necessary technical requirements.

All the compartments have multiple passive ventilation areas to ensure suitable air flow between the outside and inside of the compartment. The bottom part of each ADVANTIS POD module has a slot area to enable the entry of colder air from outside (room ambiance or forced cooling from a raised floor). The top part of the compartments also has an area set aside for passive ventilation, leveraging the space between the compartments and where the fanned brackets are located. These brackets have been designed with a dual purpose: they meet a structural function by supporting the worktop but at the same time have been optimised for maximum opening to facilitate the evacuation of hotter air towards the outside of the compartments.

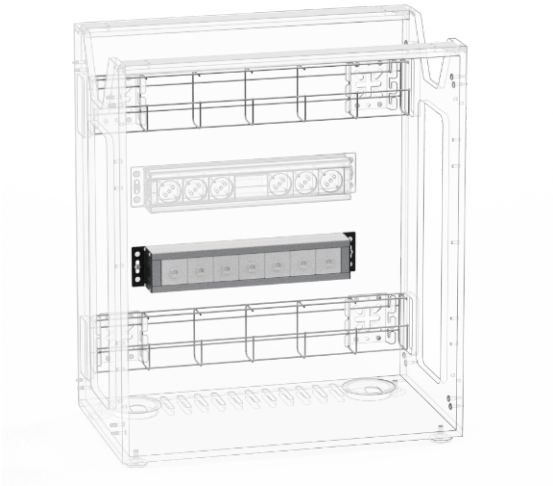
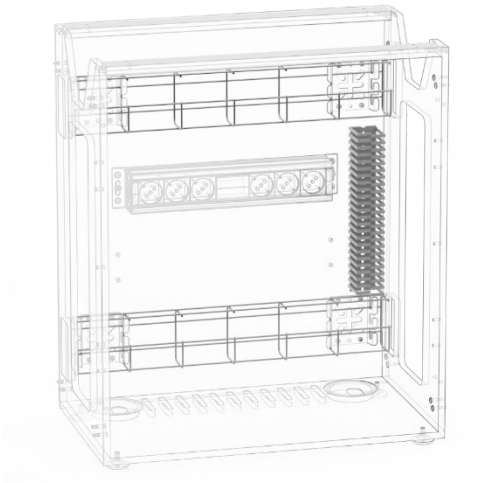
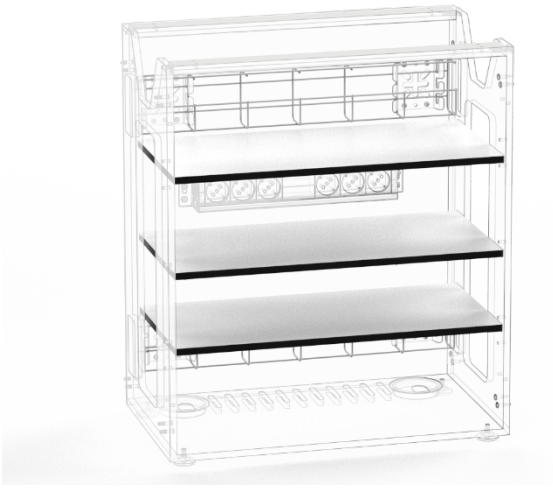


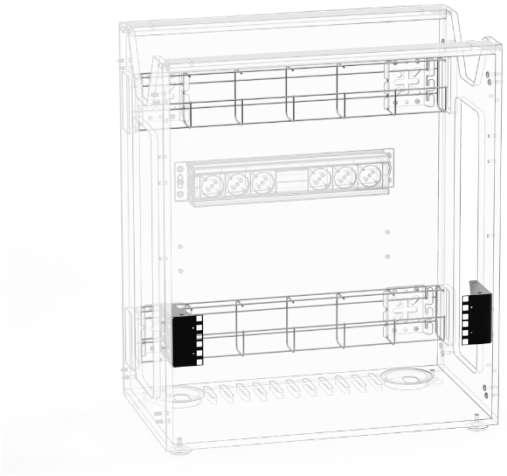
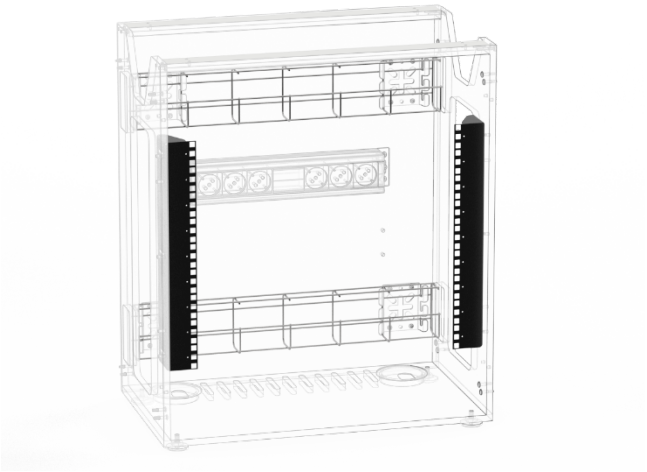


The high concentration of consoles and equipment fitted with fans in critical environments such as control rooms makes it vitally important to keep noise to a minimum with ultra-silent ventilation systems. The high-capacity fans used in ADVANTIS POD include 3 key technologies to provide inaudible noise levels: cushioned bearings, silent wings and fluid-dynamic bearings. The fans are incorporated into the console structure by means of cushioned bearings that eliminate potential vibrations caused by fan movement.

All ADVANTIS POD compartments enable the setup of accessories in line with the project's technical requirements.

Standard accessories available are described below:

Extra connection ducts with up to 6 configurable spaces for energy, voice and data.	Panduct™ type FL flexible wiring duct, 50.0 mm wide x 50.0 mm high, 19.7’ (6.00 m) long, flexible polypropylene, adhesive.
	
CDF fixed rack drawer: Fixed rack drawer made from the same material as the 12.4 mm CDF compartment. 3 internal positions available.	Removable lower rack drawer: Fully removable using pull-out guide rails. Drawer rack in 12.4 mm CDF
	

19" adapter 2U: 19" adaptor with a height capacity of 2U. 2 positions available inside the compartment. Sheet metal part.	19" adapter 9U: 19" adaptor with a height capacity of 9U. Sheet metal part.
	

Material technical features:

CDF 12.4 mm Compact Density Fibreboard (>1000 kg/m^3) and outer faces made of melamine in accordance with EN 14322. Resistant to abrasion, scratching, impact, cracking and other technical capacities in accordance with EN 14323. Reaction to fire B-s2.d0 in accordance with EN 13501-1. PEFC and FSC certificate. TSCA Title VI Compliant for low formaldehyde emission. Renewable energy >90 %. Wood fibres 65-75 %. MUF-Resin 20-30 %.

Blum® high quality beams with a 100° opening angle. Front 3D adjustment. Tool-free assembly and disassembly of unit door.

Levellers formed by a zinc-coated M8 hexagonal screw over-injected with >PA6<. Leveller regulated in the plastic part and from the top face by means of a screw.

SIDES

ADVANTIS side designs with a 100 % aluminium frame and sheet steel central structure. Frame built with aluminium profiles and rounded edge parts in cast aluminium. The sides include high-resistance nylon spacers to separate the top of the main structure and levellers in the frame for height adjustments. The column provides a protected space to install the lifting columns of the Sit&Stand system as well as the necessary cabling. A corporate logo can be added to the outside of the column on request. Maximum measurements 200 mm x 200 mm.

Material technical features:

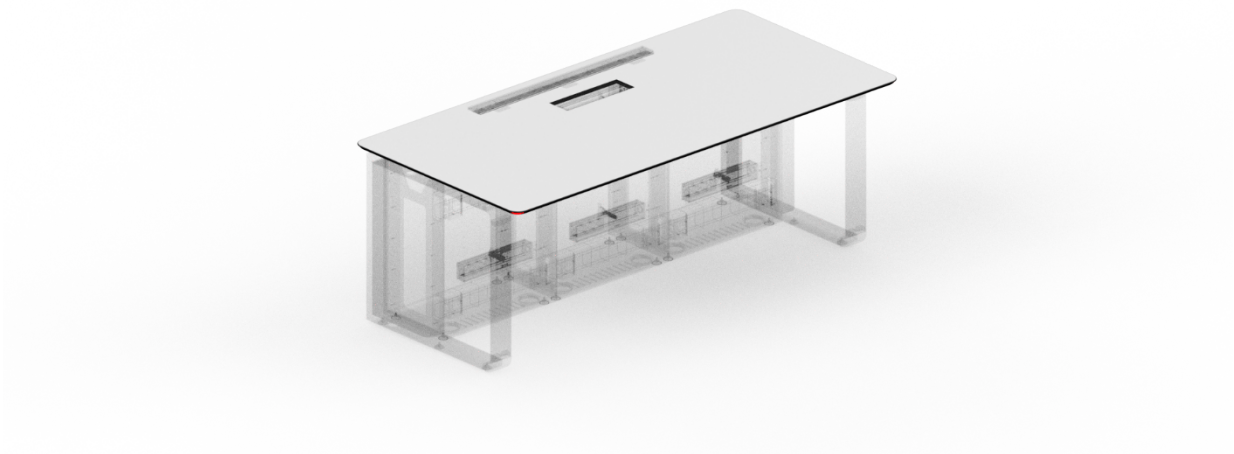
Extruded aluminium profile with a general thickness of 2.5 mm. 6060S alloy quality certificate in accordance with the UNE-EN 573-3 (chemical composition) and UNE-EN 755-2 (mechanical characteristics) standards. With T-5 heat treatment. Percentage of pre-consumption recycled aluminium of 70-80 %.

Column made from a 2 mm-thick single welded sheet-metal part, cold-laminated in accordance with the UNE-EN 10130:1999 standard and UNE-EN 10024:2006 quality-certified.

High-quality micro-textured epoxy powder paint in accordance with the UNE 48-098-90, UNE 48-031-80, UNE 48-026-80, UNE 48-024-80, UNE 48-032-80, UNE 48-183-84, UNE 48-024-80, UNE 48-032-80, UNE 48-183-84 and UNE 48-169-92 standards and subjected to stringent testing durability of the aesthetic finish in accordance with the ISO 7253 and DIN 50021 standards, performed in ENAC-accredited laboratories.

Levellers formed by a zinc-coated M8 hexagonal screw over-injected with >PA6<. Leveller regulated in the plastic part and from the top face by means of a screw.

WORKTOPS



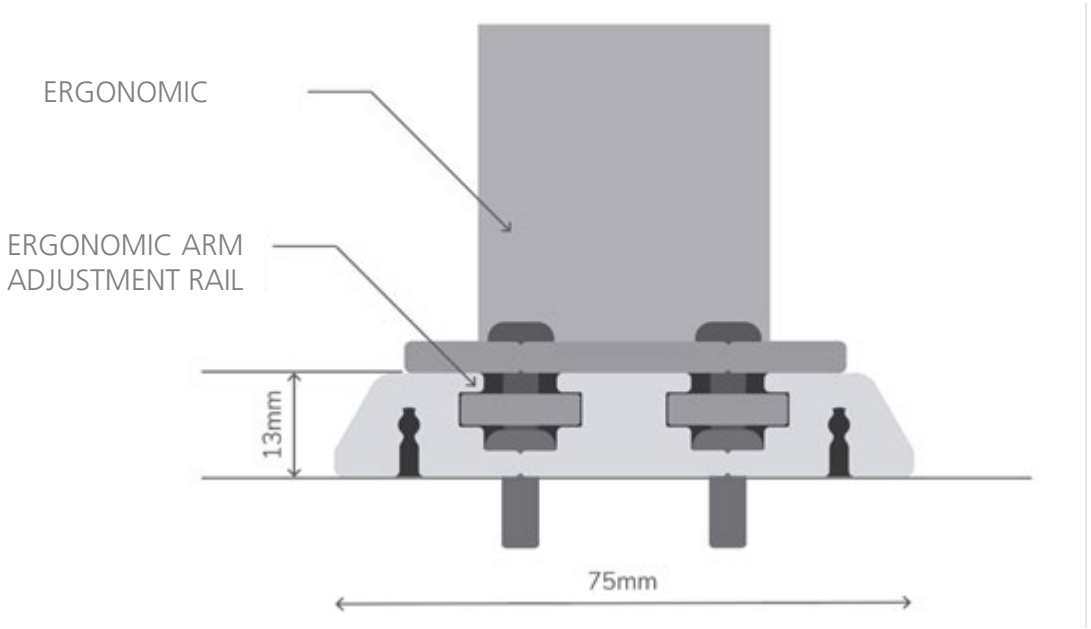
Worktops will be made from 16.5 mm-thick CDF (Compact Density Fibreboard) with a black core formed by compact fibres bound with waterproof resins and a high-resistance multilayer outer sheet. The surface will guarantee great stability, shock resistance (due to the two-layer sheet), resistance to scratching and water and be flame-retardant. All worktops have rounded edges and a radius of not less than 50 mm at the ends (outer corners), as specified in the recommendations for reducing the risk of Semicircular Lipoatrophy. The GESAB LED safety system is integrated in all worktops.

Material technical features:

CDF Compact Density Fibreboard (>1000 kg/m^3) and outer faces made of melamine in accordance with EN 14322. Resistant to abrasion, scratching, impact, cracking and other technical capacities, in accordance with EN 14323. Reaction to fire B-s2.d0 in accordance with EN 13501-1. PEFC and FSC certificate. TSCA Title VI Compliant for low formaldehyde emission. Renewable energy >90 %. Wood fibres 65-75 %. MUF-Resin 20-30 %.

WIRAIL

All the consoles will have a WiRail ExtraFlat ergonomic arm management system that permits the positioning of the ergonomic arms in any lengthwise arrangement of the console with no need for surface machining. In turn, the system permits the repositioning of the arms once installed and the inclusion of new elements without having to change the worktop. The system design will be very low profile, without exceeding 13 mm (ExtraFlat) with respect to the worktop, to reduce visual interference and objects on the surface to a minimum. The system will be made of 3 mm-thick aluminium profiles with an anodised external finish.



Correct cable management must be ensured by means of cable glands that communicate directly with the interior of the compartments. The cable gland design will have collapsible flaps to ensure no open spaces are left if a specific cable gland is not used. Each console module will have at least 3 cable glands, distributed along the entire length of the worktop to avoid the presence of long cable sections on them.

Material technical features:

Extruded aluminium profile 6060S alloy quality certificate in accordance with the UNE-EN 573-3 (chemical composition) and UNE-EN 755-2 (mechanical characteristics) standards. With T-5 heat treatment. Percentage of pre-consumption recycled aluminium of 70-80 %.

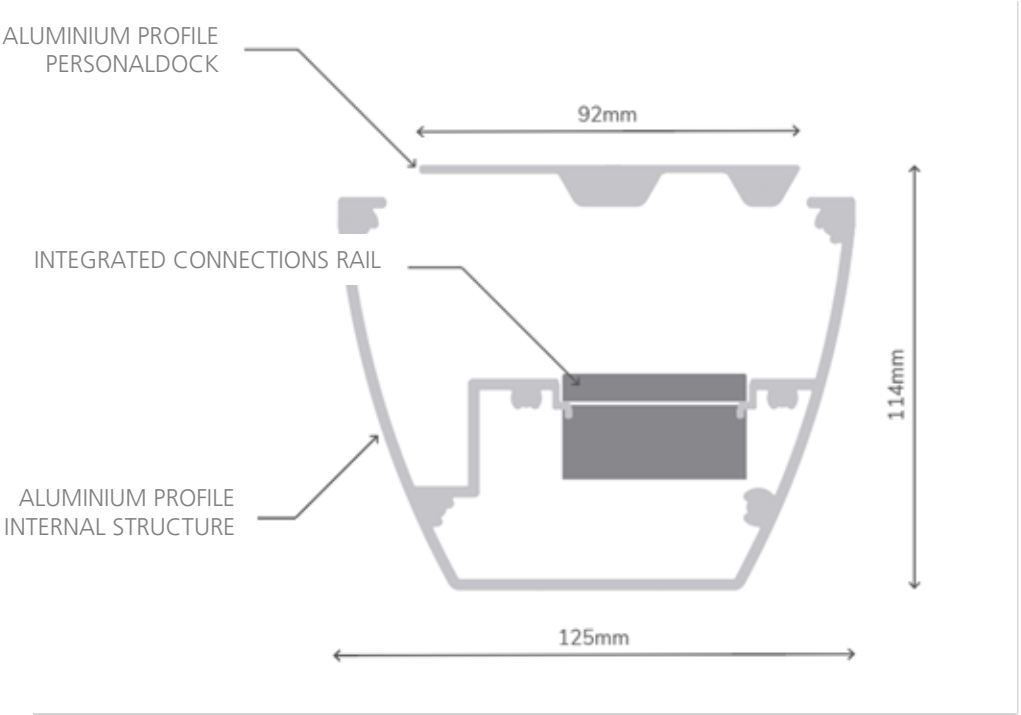
Silver anodised finish in accordance with the ISO 7599:2010 standard of between 5-15 µm in accordance with ISO 2360:2003 and 0 sealing height in accordance with ISO 2143:2010. Black matte anodising in accordance with the ISO 7599:2010 standard of less than 15 µm in accordance with ISO 2360:2003 and 0 sealing height in accordance with ISO 2143:2010.

Cable glands made using an >ABS< injected part are available in 3 colours: white, grey and black.

PERSONALDOCK

The console features a PersonalDock for connections by operator area or individual console. The console has a personal connection area for the operator, built into and completely flush with the worktop, with several connector options depending on the needs of each workstation and a capacity for up to four 45 x 45 mm connectors plus a built-in cable gland. The connections area is hidden below the worktop to ensure it is free of obstacles. It is accessed by means of a retractable swing lid with a fall damper and a gentle, silent opening and closing system. The PersonalDock internal structure comprises a 2.5 mm-thick single aluminium extrusion section with an external anodised finish. The external lid is made of aluminium profiles with a minimum thickness of 2.5 mm and a high-resistance micro-textured powder paint external finish. The internal profile will have the clipping system for the 45 x 45 mm standard market connectors compatible with Simon, Legrand or similar brands and must permit positioning every 90º to adapt to each user's requirements.

Material technical features:



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UNE 48-183-84, UNE 48-024-80, UNE 48-032-80, UNE 48-183-84 and UNE 48-169-92 standards and subjected to stringent testing durability of the aesthetic finish in accordance with the ISO 7253 and DIN 50021 standards, performed in ENAC-accredited laboratories.

ANGLE GENERATOR

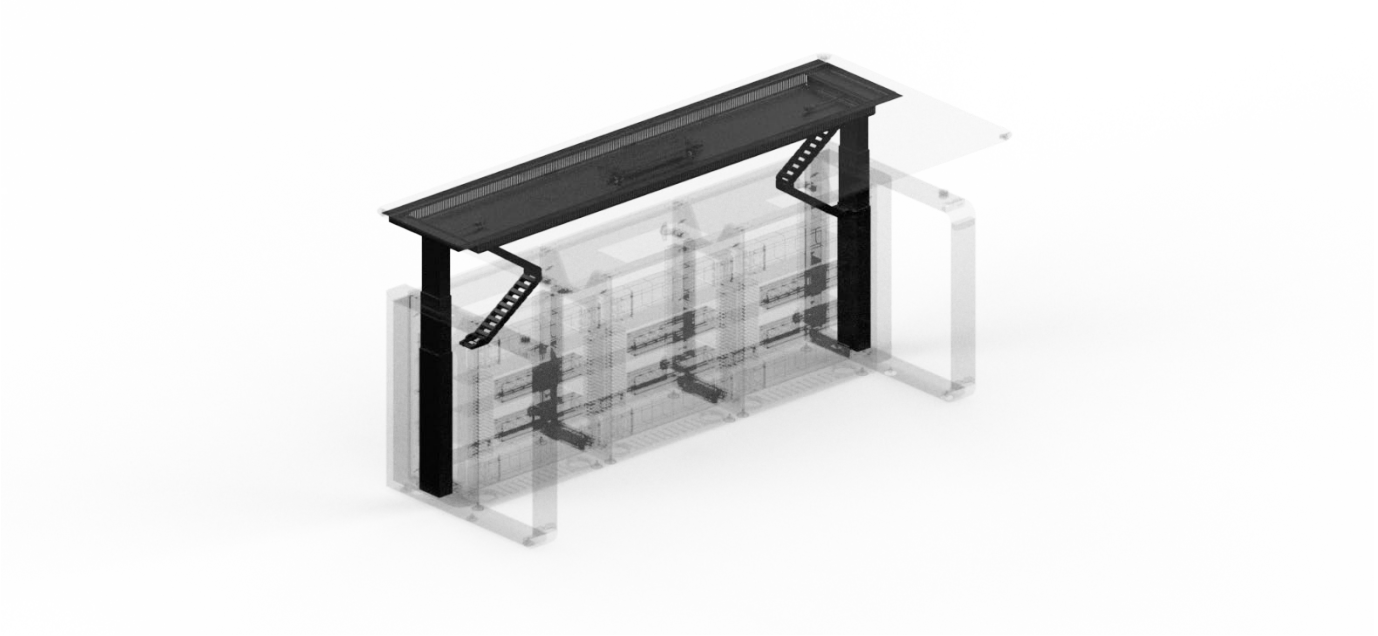
An angle generator system for the design of concave and convex curved arrangements. The system makes it possible to generate angles of between 0º and 15º between straight structure sections (operator area).

Material technical features:

Generator unit of angles formed by two 2 mm-thick sheet metal parts, cold-laminated in accordance with the UNE-EN 10130:1999 standard and UNE-EN 10024:2006 quality-certified.

High-quality micro-textured epoxy powder paint in accordance with the UNE 48-098-90, UNE 48-031-80, UNE 48-026-80, UNE 48-024-80, UNE 48-032-80, UNE 48-183-84, UNE 48-024-80, UNE 48-032-80, UNE 48-183-84 and UNE 48-169-92 standards and subjected to stringent testing durability of the aesthetic finish in accordance with the ISO 7253 and DIN 50021 standards, performed in ENAC-accredited laboratories.

SIT&STAND



The Sit&Stand unit for individual ADVANTIS POD consoles is formed of lifting columns, a control panel, energy chains and a reinforcement tray.

The sides of the Sit&Stand models have a lifting column on the inside, tasked with adjusting the console working height. The lifting column has the following technical features to ensure correct unit operation:

- Maximum load capacity: 700 N per column.
- Maximum speed: 38 mm/s without a load.
- Standard stroke length: 660 mm
- Exterior column dimensions: 60 x 100 mm
- Bending moment: My = max. 150 Nm Dynamic

- PIEZO™: integrated sensor to minimise risk of damage by preventing collisions.
- PVC-FreeTM for a more environmentally friendly product.
- Approved in accordance with EN 60335-1.
- Work cycle: 10 % ~ 2 minutes of continuous use under full load, followed by a pause of 18 minutes

The model includes the LINAK® intelligent control box, a market benchmark in quality and technology. The

intelligent control box is fully plug&play, with smooth engagement and low noise levels during operation.

Environmentally, it has an extremely low energy consumption in standby mode, just 0.1 W, and is a PVC-Free™ cutting-edge device.

The height-adjustable models have energy chains made of high durability polymer for optimum cabling management. With quick opening systems on their outer radii for easy, fast cabling along their entire length. High durability chain systems. Optional modular internal divisions for optimised cabling management.

With the objective of unifying the design of the different console versions, the external design of the side must be the same for the Sit & Stand versions so the motor must be perfectly integrated in the side without affecting its external design.

The principal function of the reinforcement tray is to structurally support the worktop and enable the cabling to be distributed to the technical areas and energy chains.

Material technical features:

The reinforcement tray is made of a 2 mm-thick single welded sheet-metal part, cold-laminated in accordance with the UNE-EN 10130:1999 standard and UNE-EN 10024:2006 quality-certified.

High-quality micro-textured epoxy powder paint in accordance with the UNE 48-098-90, UNE 48-031-80, UNE 48-026-80, UNE 48-024-80, UNE 48-032-80, UNE 48-183-84, UNE 48-024-80, UNE 48-032-80, UNE 48-183-84 and UNE 48-169-92 standards and subjected to stringent testing durability of the aesthetic finish in accordance with the ISO 7253 and DIN 50021 standards, performed in ENAC-accredited laboratories.

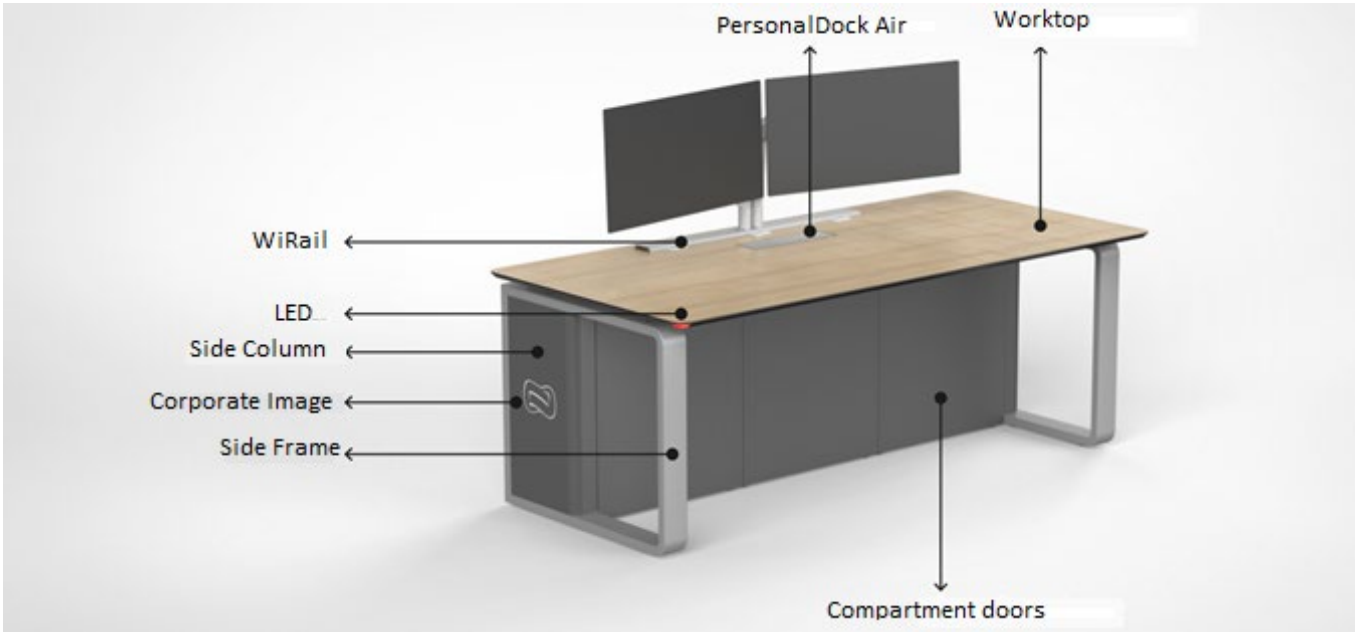
3. FINISHES AND CUSTOMISATION

The ADVANTIS POD product line makes it possible to adapt part colours and finishes on request to match the other colours and finishes in the environment and the customer's corporate image.

It is possible to swap out the paint colour of the metal parts and the different side parts for both the central column and the frame.

It is also possible to optionally add a corporate brand or logo to the central column. This will be printed, with maximum dimensions of 20 x 20 cm.

Both the top and doors of the compartments can take other colours and finishes (minimum amounts depending on the finish).



Please ask about prices and lead times as they can vary substantially in line with finish amounts and types.

4. ERGONOMICS AND USABILITY

The product must be certified in accordance with all the sections of the UNE-EN 527-1: 2011 and UNE-EN 527-2: 2017 ergonomics standards, as specified on page 22, and comply with the special regulations related to control rooms set out in the ISO 11064-3 standard.

The console must permit comfortable and easy access to all maintenance and installation areas by means of inspection hatches or pivoting surfaces that leave the interior of the technical areas exposed. Maintenance and installation of display screens will be carried out from the top part to guarantee a good ergonomic posture for the operator in a standing position.

The system will include an adjustable linear WiRail ExtraFlat solution for the integration of ergonomic arms and monitors, including cable glands for cable management from the worktop to the technical area of the compartments.

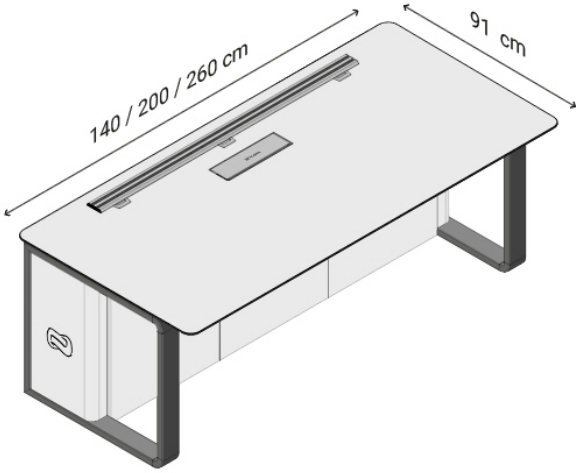
The console design will include a PersonalDock connection area for the operator built into the worktop, located within an easy access range and without it interfering with the main control tasks.

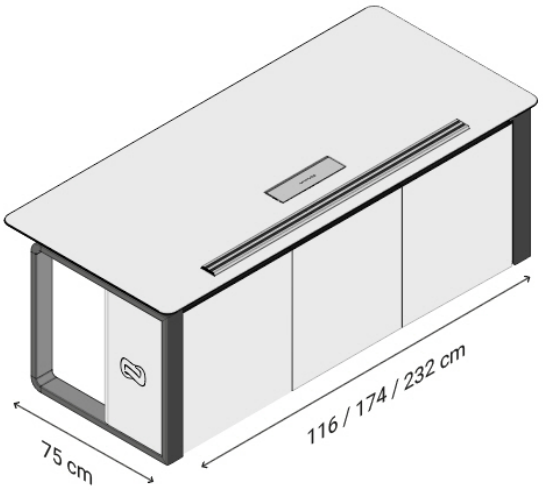
The console will also have a LED safety lighting system built into the corners of the worktop to help prevent accidents under conditions of poor visibility. In parallel, the system will serve as an information source on the status of the console or control room by means of colour settings.

Optionally, the console design must permit the integration of a Sit&Stand system with a lifting column through a control panel built into the worktop.

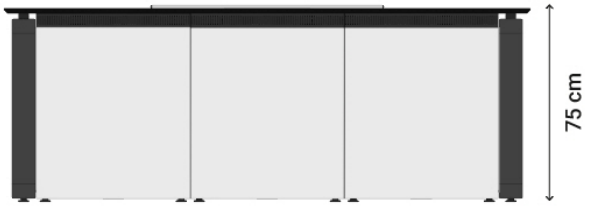
5. DIMENSIONS AND TECHNICAL DIAGRAMS

ADVANTIS POD INDIVIDUAL FIXED HEIGHT

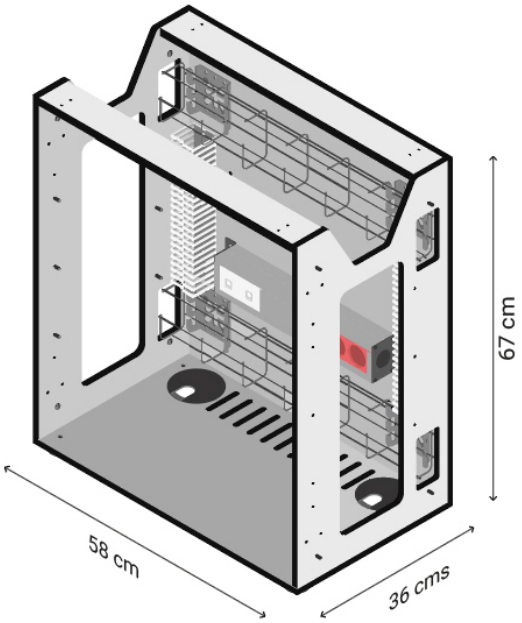




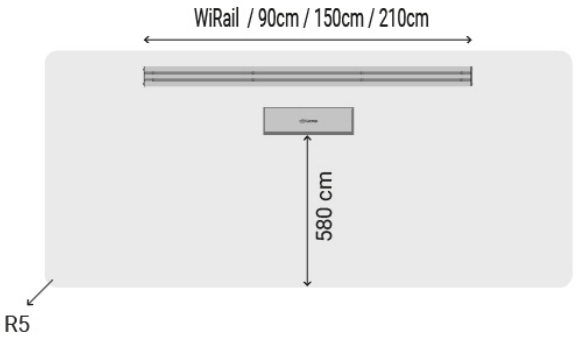
Front View



Technical Compartment 600

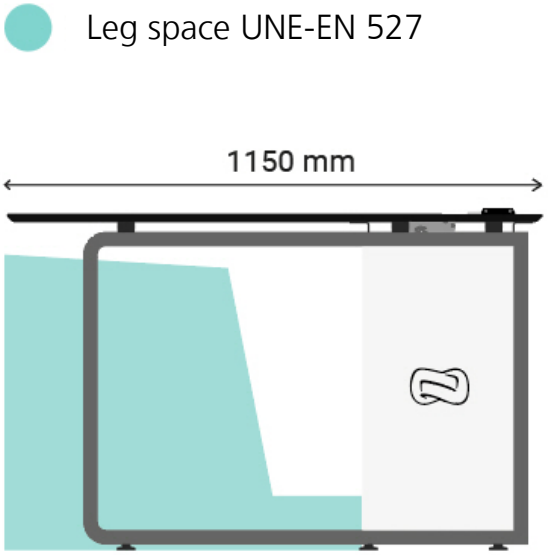


Plan View

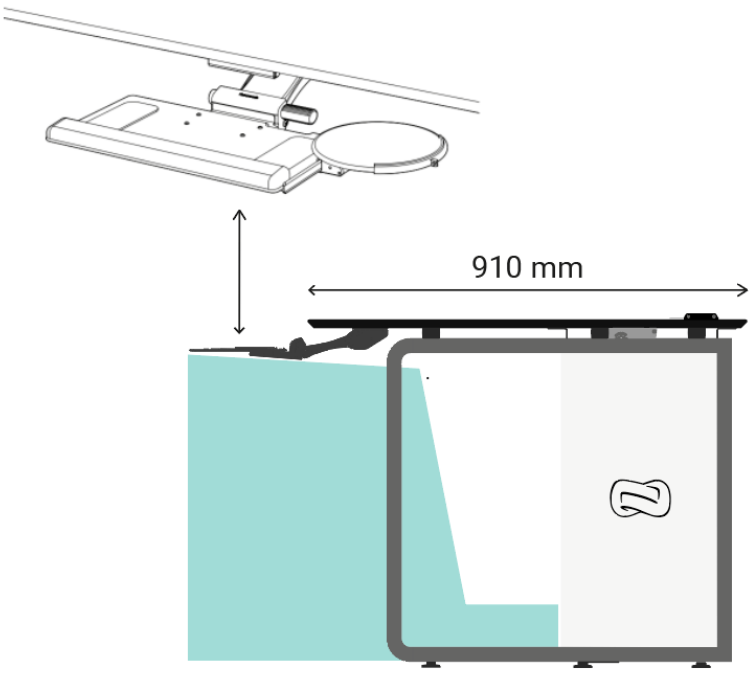


EXTENDED LEG DEPTH

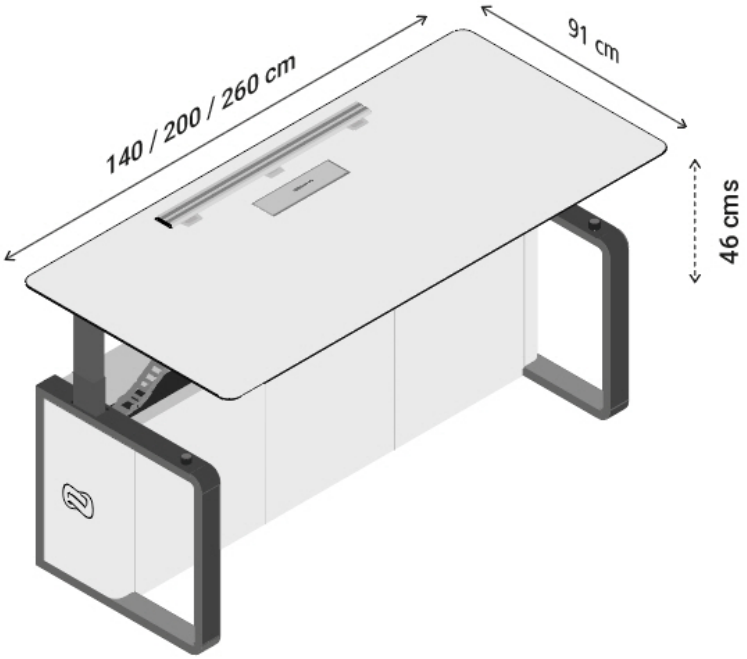
Option 1: Extended depth of worktop



Option 2: Improved ergonomics with built-in tray for keypad and mouse



ADVANTIS POD INDIVIDUAL SIT&STAND



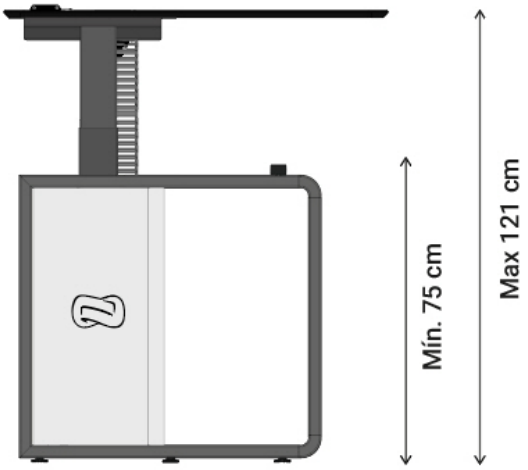
Working height adjustment

Technical features of column:

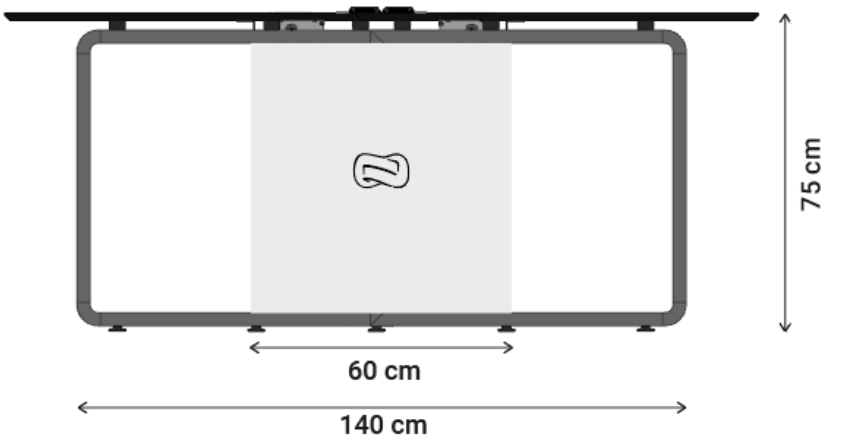
Speed 38 mm/sec

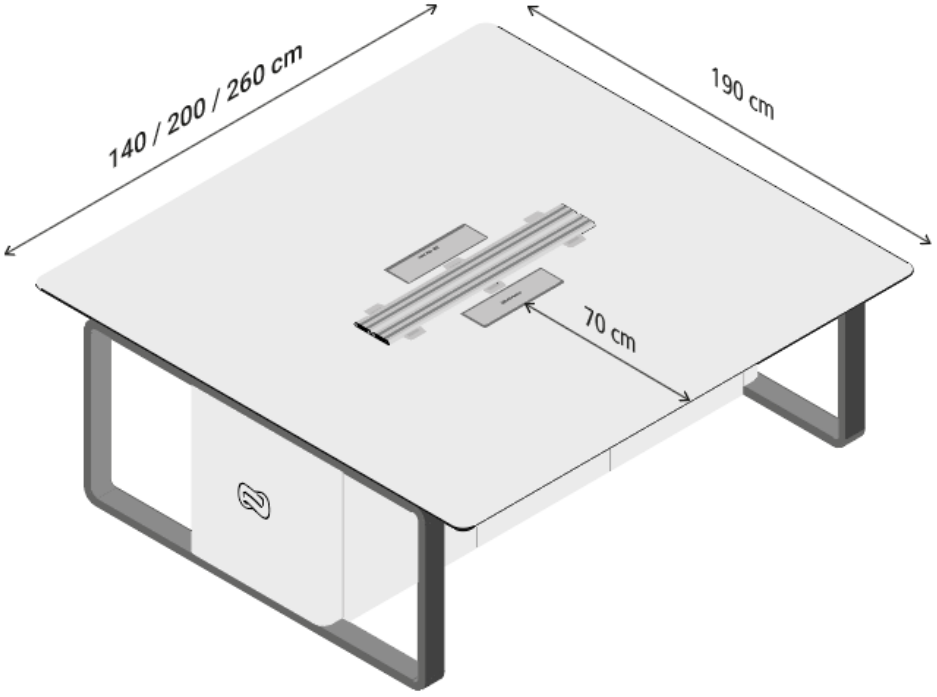
Max power: 700 N

Stroke length: 460 mm



ADVANTIS POD INDIVIDUAL DOUBLE-SIDED (PLEASE ASK ABOUT THIS OPTION)





6. PACKAGING AND TRACEABILITY

All the consoles and related products will be clearly and legibly identified by a label showing the manufacturer, model, year of manufacture, reference and product code to ensure correct traceability.

The integrity of the product packaging will be guaranteed in terms of the structural part and the properties of the materials (due to rusting or any other type of degradation caused by the environmental conditions during shipping).

Each part or sub-unit must be protected and packaged individually for storage inside the box conditioned for its packaging and transportation to the destination.

The packaging will comply with the SOLAS-IMO international convention related to safety lashing points.

All packaging must comply with the phytosanitary regulations for treating wood, pursuant to the FAO ISPM N-15 Regulation.

The exterior of the packaging must be properly identified with the name of the company and the number of the different boxes making up the total shipment, along with the destination address. The boxes will be marked with the pertinent initials and signs.

For sea shipments, the product must be protected by heat-sealed VCI bags.

7. CERTIFICATES AND WARRANTIES

As a technical furniture manufacturer and with the objective of offering the best quality and guarantees to all our customers, GESAB has management, organisation and production systems in place in accordance with the international quality, environment and health and safety regulations set out in the ISO 9001, ISO 14001 and OHSAS 18001 standards.

The product warranty period will be extended for a term of at least TEN YEARS against manufacturing defects, except for accessories, components and mechanical, electrical and electronic elements incorporated into the system, for which the warranty periods will be at least two years. The warranty terms and conditions will be based on those of the manufacturers.

GREENGUARD certification

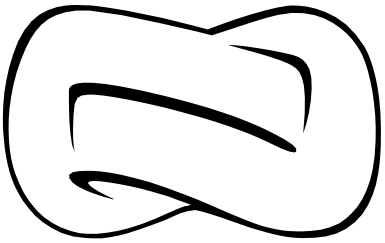
The ADVANTAIS POD family is certified to the GREENGUARD FOR LOW CHEMICAL EMISSIONS UL 2818-2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings.

This certificate guarantees that the products used in making the console meet strict emission limits on particles and chemicals harmful to the human body, helping to reduce indoor air pollution and the risk of exposure to chemical substances while also contributing to the creation of healthier indoor environments.

ERGONOMICS certification

ADVANTIS POD is UNE-EN 527-1:2011 and UNE-EN 527-2:2017 certified for compliance with ergonomics standards and all the sections on safety, resistance and durability requirements as specified on page 22.

The product warranty period will be extended for a term of at least TEN YEARS against manufacturing defects, except for accessories, components and mechanical, electrical and electronic elements incorporated into the system, for which the warranty periods will be at least two years. The warranty terms and conditions will be based on those of the manufacturers.



Technical GESAB

Barcelona
+34 938 427 050
Avda. del Mogent 68
08450 Llinars del Valles

Madrid
+34 915 345 064
C/ Marzo 61-67
28022 Madrid

Mexico City
+52 55 1997 0746
Sófocles 127 PB
Mexico City 11540

Atlanta
+1 404 990 3748
3020 Business Park Drive
Norcross, GA 30071 USA

Bogotá
+57 3154382329
Calle 93#19-55
Bogotá, Colombia

Dubai
+971 555 528 390
Al Quoz 1
Dubai, UAE

International
+34 915 345 064
C/ Marzo 61-67
28022 Madrid

gesab.com
info@gesab.com