TECHNICAL & ESD FURNITURE ANTISTATIC EQUIPMENT DRY STORAGE CABINETS

2.1

VIKING



Viking technical&ESD furniture Antistatic equipment







ABOUT US

- By 2022, DIPAUL group accumulates 30 years of significant experience in electronics and semiconductor industries market, offering turnkey solutions, technologies and equipment for militaryindustrial and aerospace sectors, contract manufacturers, research and educational organizations, service and repair providers, telecommunication operators and others.
- Almost 20 years ago, knowing customers' needs and requirements, DIPAUL company started manufacturing modular workstations for electronics devices assembly under VIKING technical and ESD furniture brand. We were the first in Russia to develop new technologies and use modern materials to manufacture antistatic furniture, which by now resulted in becoming a leading Russian producer of ESD workbenches, storage units and additional equipment for electronic industry manufacturers.
- Since 2016, DIPAUL also started manufacturing heavy-duty technical furniture for mechanical engineering. Since 2017 our range includes dry storage cabinets for moisture-sensitive components and materials safekeeping.
- Dipaul group has implemented dozens of equipping projects for such Russian companies as Transneft, Gazprom, Rosenergoatom, Russian Space Systems and international companies like Samsung Electronics, LG Electronics, Volkswagen Group, Nissan Manufacturing, Elcoteq, TPV Technology, and Foxconn.
- VIKING ESD and technical furniture manufacturing site is located near Saint Petersburg and occupies the territory of over 6.000 square meters. We constantly monitor manufacturing process and quality of our products on all stages, which is acknowledged by ISO 9001:2015 quality management systems certificate. Being a member of IEC committee for ESD, we adjust engineering and manufacturing processes according to latest requirements of IEC 61340 standard.

VIKING TECHNICAL AND ESD FURNITURE

Today VIKING technical and ESD furniture brand offers a wide range of different modular workstations, ESD storage and transportation furnishing solutions, and a range of antistatic equipment.

VIKING technical furniture is distinguished by:

- Wide range of functional, convertible and interchangeable modules for each particular employee;
- Adjustment, layout and customization according to clients' specific needs;
- Possibility of modernization and refitting after the purchase;
- Strict compliance with the international antistatic standard IEC 61340.

VKG TOOLS ESD EQUIPMENT

Besides a broad line of furniture, we offer a range of antistatic products and consumables to fully equip ESD-protected areas. Among them, one can find garments, storage and transportation means, monitoring and audit devices. These products are sold under VKG TOOLS brand.

In 2013 DIPAUL group opened its branch office and a central distribution warehouse in Prague (Czech Republic) to provide closer support to its partners and distributors in the European region. Dipaul s.r.o. works on developing business relations with EU and ME distributors, supplies VIKING products from Czech warehouse to customers and ensures informational and technical support.

This catalog is informational. Minor amendments/changes in products exterior, composition and technical characteristics are permitted. Graphic images of the units are schematic and should not be perceived as engineering drawings.



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VIKING TECHNICAL FURNITURE CONFIGURATOR

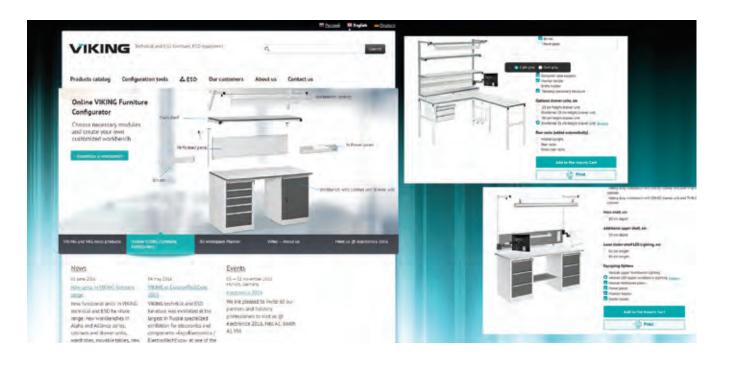


Most VIKING technical and ESD workbenches consist of functional and interchangeable modules to provide maximum flexibility in creating customized workstations, which satisfy any specific working process requirements. It may become an uneasy process to make a choice of elements guided solely by modules' description and codes and thus assemble certain set. With our online service — VIKING technical and ESD furniture Configurator (https://viking-esd.com/constructor), any user is interactively guided along the process of workbench assembling. Thus, it is much easier to make the right choice.

- VIKING technical and ESD furniture Configurator helps to choose necessary basic modules and additional units of a required workstation online. It simplifies the process of assembling a workbench set, saves time and helps to avoid possible mistakes in modules compatibility. While assembling a workbench in online configuration tool one also chooses version (technical or ESD) and color (light gray RAL 7035 or dark gray RAL 7012) where applicable.
- After choosing required options and elements one can place an order for chosen set to any VIKING official distributor online, print the individual set or use the picture and the list of modules for future orders.
- VIKING technical furniture Configurator is also useful for workstations future amendments. Any time after the purchase customer can add or change certain modules of a workstation so that it meets new requirements of the manufacturing process.

Online Furniture Configurator

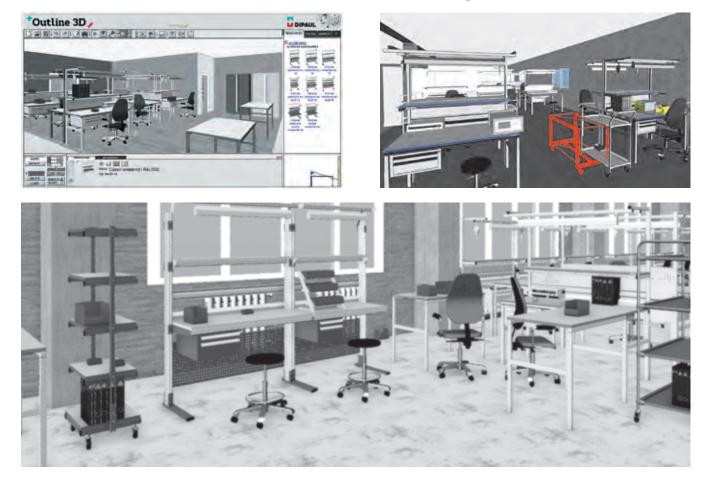




https://viking-esd.com/constructor/

3D ONLINE WORKSPACE PLANNER

The 3D online workspace planner software is used for manufacturing space retrofitting planning, design and visualization; it provides the possibility of trying on several options of the entire production area equipment with VIKING furniture and additional elements.



- While being on the stage of planning new manufacturing facilities, workspace refurbishing or re-equipping it is very useful to have the ability to compare different types of furniture and equipment layouts. Using the exact halls dimensions, 3D Planner software user can build up a 3D plan of the hall, estimate the quantity of necessary technical furniture and it's disposition, arrange workplaces, passageways and utility premises. Our online 3D workspace Planner allows to specify windows, doors, columns' sizes and positions, and to choose colors and shapes of additional elements.
- Online software is free for any visitor of https://viking-esd.com, one just needs to install a plug-in to their device.
- Using 3D workspace planner software its user gets a visual plan of re-equipped halls in isometric, top and 3D front view and detailed list of chosen furniture and equipment. All images can be saved in standard .jpg format to be sent, viewed or printed or in specific .o3d format to continue the work later.

https://viking-esd.com/3d/

OUR CUSTOMERS







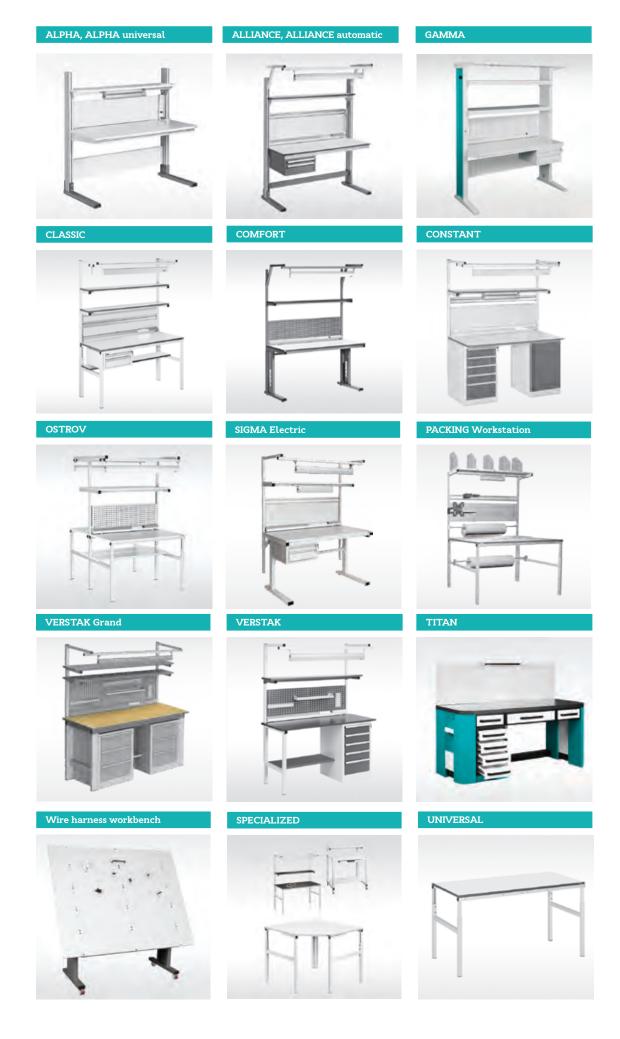






More pictures at https://viking-esd.com/branches

TECHNICAL&ESD FURNITURE



https://viking-esd.com

VIKING WORKPLACES SERIES

Most of VIKING products are available in technical and ESD (antistatic) versions, the latter are marked with ESD label.

Steel frames are powder-coated in dark grey (RAL 7012) or light grey (RAL 7035) color, tabletops are resistant to abrasion. Some VIKING workbenches also have black (RAL 9005), white (RAL 9010) and turquoise (RAL 5021) parts. VIKING workbenches are modular, allowing customers to order only necessary parts and get workplaces for any specific use.

Viking workbenches can be equipped with standard and LED upper workbench lighting units.

Sets of furniture can be supplemented by additional equipment at any time after the purchase. Assembly and installation is quick and simple, clear assembly instructions are provided with each module, they are also available for download from **https://viking-esd.com**. VIKING ESD-protected products are compliant with IEC 61340 standard, have corresponding certificates and test reports.

VIKING workbenches product range includes a wide line of functional, convertible and interchangeable modules for each particular enterprise. To facilitate configuration and simplify different elements choosing, our customers are welcome to use CONFIGURATOR (https://viking-esd.com/constructor), our online service that helps to interactively select all necessary workbench parts. After choosing required options and elements, one can print the individual set and use the picture and the list of modules for future orders.

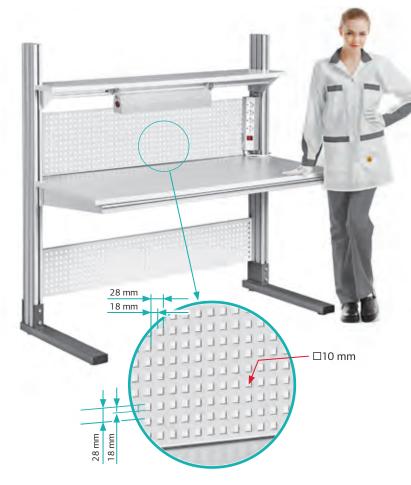


We divide our workbenches and supplementary elements in several series, each has its own peculiarities:

- ALPHA series workbenches allow effective use of space, offer practical structures and a compact size;
- ALPHA Universal and ALPHA T are simplified ALPHA workbenches without possibility of upper extensions;
- ALLIANCE workbenches are distinguished by elegant design, advanced ergonomics and convenient system of height adjustment. They can be placed in an inseparable line where each two tabletops are held by lateral frames and share those in the middle. Also available in double-sided version;
- ALLIANCE Automatic with motorized worktop adjustment system, performed by electric drive and simple control unit;
- GAMMA SERIES is based on the concept of clear surfaces, where all technical communications are hidden and the fasteners organically fit the design;
- CLASSIC workplaces are simple, functional and inexpensive. They can be placed in a line with no gaps for conveyor work;
- COMFORT workbenches are based on L-shape steel supports and offer advanced ergonomics for comfortable work;
- CONSTANT workbenches with fixed worktop height are equipped with functional supports and can withstand an increased load;
- OSTROV double-sided workbenches are designed for the most effective use of workspace;
- SIGMA Electric workbenches are electrically height adjustable workspaces, supporting any ergonomic requirements of each user.
- PACKING Workstation adjustable ergonomic workstation that helps to easily access all packaging materials - cartons, tape, paper, bubble wrap or others.
- VERSTAK Grand heavy-duty workbenches designed to work in a standing position and feature reinforced structure that can withstand a distributed load of up to 2000 kg.
- VERSTAK workbenches are available only in non-antistatic version, but their rigidity and different tabletop and support types will be useful for manufacturing process;
- TITAN heavy duty workbenches with up to 2000 kg load capacity and enhanced tabletops;
- Wire harness workbench with 0° to 80° angle adjustable worktop, which allows fastening various types of wires and bundles;
- SPECIALIZED workbenches were made to satisfy specific working process requirements;
- UNIVERSAL workbenches, the simplest and cheapest ones, they do not allow any above tabletop extensions.

In addition, we can always manufacture customized products and are confident of our ability to satisfy and meet our customer's individual requirements.

ALPHA SERIES WORKBENCHES



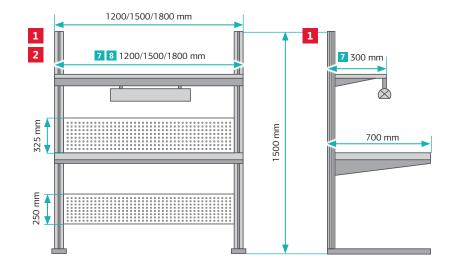
ALPHA series workbenches with lateral aluminum frames are stylish and ergonomic workbenches that can perfectly equip unspecified technical premises and educational facilities. Alpha series workbenches are distinguished by practical modular construction and compact size; they allow effective use of hall space. We offer four models of ALPHA series workbenches: single workbench, double workbench, simplified universal workbench, T-shape simplified workbench. Tabletop thickness 25 mm.

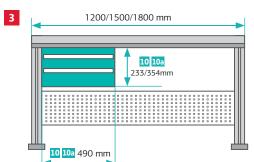


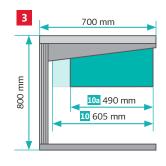
All ALPHA series workbenches are bicolored by default. When ordering, please mention whether ESD or technical version required.

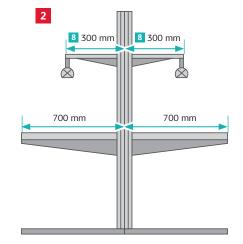
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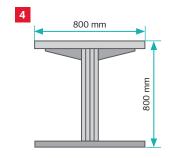
For this catalog legend, please see p. 81

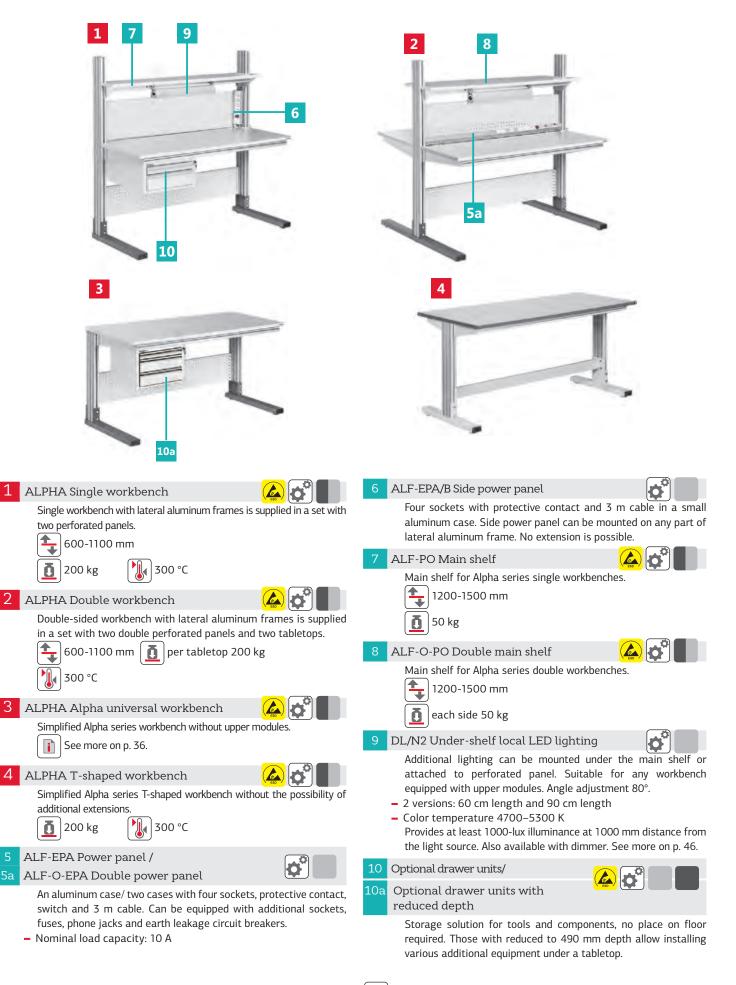












11

ALLIANCE SERIES WORKBENCHES



ALLIANCE workbenches are distinguished by elegant design, advanced ergonomics and convenient system of height adjustment.

We also offer motorized worktop adjustment materialised in Alliance Automatic series workbenches AL-A. See more on p. 15.

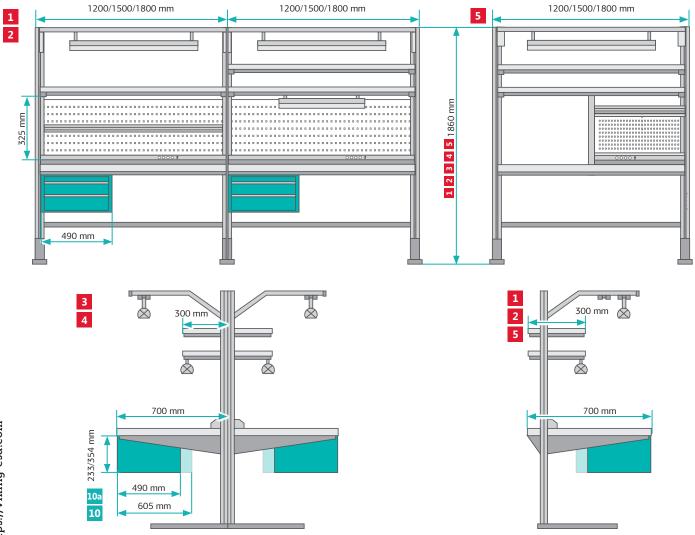
Several Alliance workbenches can be placed in an inseparable line where two tabletops are held by side lateral frames and share those in the middle.

Standard Alliance workbenches are powder-coated in dark grey color (RAL 7012) for lower steel modules and light grey color (RAL 7035) for tabletops and shelves. Possible tabletop height adjustment: 600–1300 mm. Possible lighting height adjustment: 1200–2000 mm. Maximum height of lifgting ramp - 2090 mm.

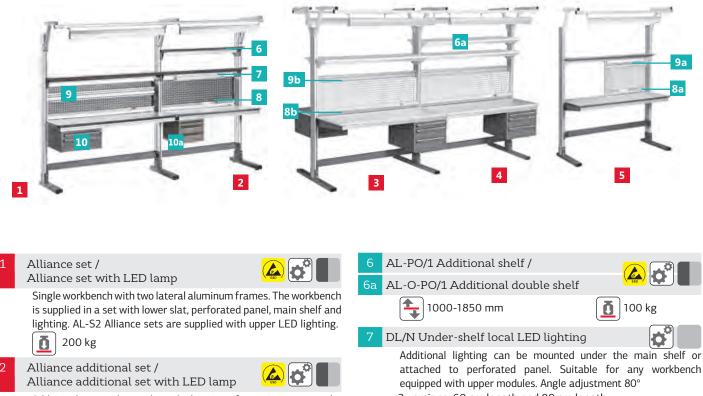
Tabletop thickness 25 mm.

All ALLIANCE series workbenches are bicolored by default. When ordering, please mention whether ESD or technical version required.

For this catalog legend, please see p. 81



TECHNICAL&ESD FURNITURE ALLIANCE SERIES WORKBENCHES



Additional set with one lateral aluminum frame is meant to be attached to main Alliance workbench from either side, which provides inseparable working surface line. The set includes: workbench with one lateral frame, lower slat, perforated panel, main shelf and lighting. AL/D-S2 Alliance additional sets are supplied with upper LED lighting.



Alliance double set / Alliance double set with LED lamp

Double side workbench with two lateral aluminum frames. The workbench is supplied in a set with double lower slat, double-sided perforated panel, double main shelf and two lighting units. AL-O-S 2Alliance double sets are supplied with two upper LED lighting units

each tabletop Ō 200 kg

Alliance additional double set /

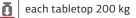
Alliance additional double set with LED lamp Double side workbench with one lateral aluminum frame to be attached to main Alliance double workbench. The workbench is supplied in a set with double lower slat, double-sided perforated panel, double main shelf and two lighting units. AL-O-S2 Alliance additional double sets are supplied with two upper LED lighting units.

each tabletop 200 kg Ō

Alliance set/

Alliance set with LED lamp

Single workbench with two lateral aluminum frames. The workbench is supplied in a set with middle upright, half-size perforated panel, lower slat, main shelf and lighting. AL-SRST-S2 Alliance sets are supplied with upper LED lighting.



ALL LED lighting also See more i available with dimmer. on p. 46

- 2 versions: 60 cm length and 90 cm length. - Color temperature 4700–5300 K Provides at least 1000-lux illuminance at 1000 mm distance from the light source.

AL-EP Power panel

- 1/2 AL-EP Power panel 8a
- 8b AL-O-EP Double power panel

An aluminum case/ two cases with four sockets, protective contact, switch and 3 m cable. Can be equipped with additional sockets, fuses, phone jacks and earth leakage circuit breakers.

- Nominal load capacity: 10 A
- AL-RK Bin rail

9a ½ AL-RK Bin rail AL-O-RK Double bin rail 9h

Aluminum rail for bin storage placed along workbench length.

δ

10 kg

AL-RK 1147/1447/1747×100 mm 547/697/847×100 mm 1/2 AL-RK AL-O-RK 2×(1147/1447/1747)×100 mm

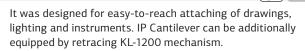
Optional drawer units/

Optional drawer units with reduced depth

> Storage solution for tools and components, no place on floor required. Those with reduced to 490 mm depth allows installing various additional equipment under a tabletop.

See more on p. 48

11 AL-IP Cantilever

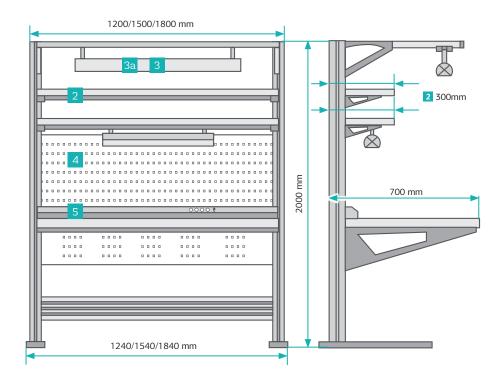


Technical&ESD furniture

ALLIANCE AUTOMATIC WORKBENCHES





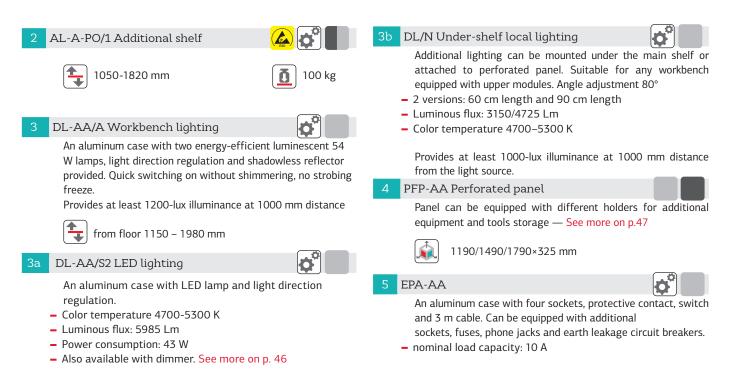


Alliance automatic workbenches are distinguished by elegant design, advanced ergonomics and motorized worktop adjustment system, performed by electric drive and simple control unit. ALLIANCE Automatic allows setting tabletop height easily and quickly by simply pressing a button, which is indispensable in certain working processes. Tabletop thickness 25 mm.





Alliance automatic workbenches are supplied in a set with adjustment mechanism, lower slat, main shelf, perforated panel, lighting, power panel.

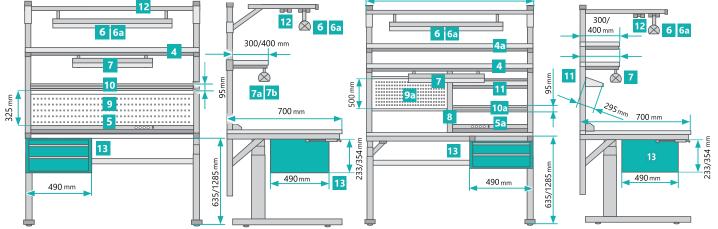


All ALLIANCE AUTOMATIC series workbenches and shelves are bicolored by default. When ordering, please mention whether ESD or technical version required

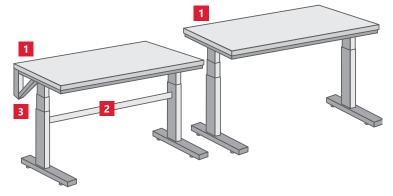
! Optional drawer units, PPS computer case support and keyboard support can't be installed to Alliance Automatic series workbenches.

SIGMA Electric Workbench









TECHNICAL&ESD FURNITURE SIGMA Electric Workbench

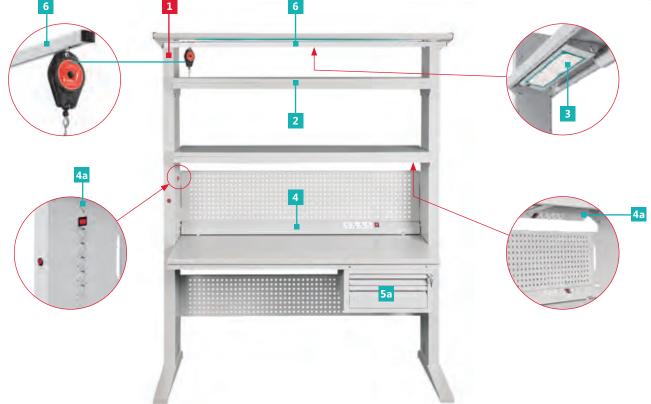
1 SIGMA Electric Workbench	9 PFP Perforated panel
Sigma Electric workbenches are electrically height adjustable	9a ½ PFP Perforated panel
workspaces, supporting any ergonomic requirements of each user 635-1285 mm 200 kg 300°	Panel can be equipped with different holders for additional equipment and tools storage.
Max. speed 38mm/s unloaded.	10 kg PFP — 1190/1490/1790×325 mm
Stroke length – 650 mm. Duty cycle: 10% ~ 2 minutes of continuous use at full load,	🗼 ½ PFP — 610/760/910×500 mm
followed by 18 minutes of pause.	10 RK Bin rail
Ambient temperature: 10 to +40C°.	10a ½ RK Bin rail
2 Reinforcing crossbar Reinforcing crossbar for additional rigidity of workbench.	Aluminum Bin rail. 1 0 kg RK — 1110/1410/1710 ×100 mm
3 Rear rack holders	1 ∕2 RK — 530/680/830 ×100 mm
Additional holders for rear racks allowing assembly of upper extensions.	11 PN Half-size sloped shelf
	11a PNP Full-size sloped shelf Full-size/Half-sized shelf with 10-55° angle adjustment provides
4 PO Main shelf	comfort monitoring of working equipment.
Rear racks included. 1000–1800 mm 50 kg	50 kg 534/684/834×295 mm
4a PO/1 Additional shelf	12 IP Cantilever
Requires PO Main shelf to be installed. Rear racks excluded.	Upper slat for fastening drawings, additional lighting and
1100–1800 mm 🚺 50 kg 🚺 depth 300 / 400 mm	instruments. IP Cantilever can be additionally equipped by retracing KL-1200 mechanism.
5 EP Power panel	
5a ½ EP Power panel	13 Optional drawer units with reduced depth
An aluminum case/ half-size case with four sockets and on/off switch as standard. Can be equipped with additional sockets, circuit breaker, automatic fuse, USB charger and RJ 45 data sockets.	Storage solution for tools and components with depth of 490 mm. Two or three drawers versions available.
_	14 Desk Panel DPG1M
6 DL/S2 Classic LED lighting	The Desk Panel DPG1M is a compact desk panel in the DPG series. It features Bluetooth® connection, two favorite positions
6a DL/ S2 Comfort LED lighting An aluminum case with LED lamp and light direction regulation.	and a reminder via an LED to remind the users to use their desk.
Color temperature 4700–5300 K Provides at least 1200-lux illuminance at 1000 mm distance	The DPG1M is activated by tilting the desk panel in the same direction as the desk is intended to drive.
from the light source.	15 Desk Control [™] App
from tabletop level 500–1350 mm. Also available with dimmer. See more on p. 46	The Desk Control [™] App is developed for users of sit-stand desks. The app allows the users to connect to their desks via Bluetooth [®] wireless technology and will now remind the user to
7 DL/N2 Under-shelf local lighting	use their sit-stand desks.
Additional lighting can be mounted under the main shelf or attached to perforated panel. Suitable for any workbench	16 The Desk Sensor™ 1 (DS1)
equipped with upper modules. Angle adjustment 80. 2 versions: 60 cm length and 90 cm length. Color temperature 4700–5300 K. Provides at least 1000-lux illuminance at 1000 mm distance	The Desk Sensor™ 1 is a new Anti-Collision™ solution which can limit material damage to a desk or an object if a collision occurs during driving of the desk.
from the light source.	SIGMA
8 Middle upright for all items	ELECTRIC
Required to hold any ½ item. Three sizes to match standard workbench width.	

GAMMA series workbenches



For this catalog legend, please see p. 81

Technical&ESD furniture GAMMA series workbenches



GAMMA SERIES workbenches are based on the concept of clear surfaces, where all technical communications are hidden and the fasteners are organically fit the design.

GAMMA Workbench

The workbench is supplied in a set: workbench with L shape side supports, main shelf, upper LED lighting, upper and lower perforated panels and side built-in power panel. Available in two versions, depending on the location of built-in

power panel: with the right (PR in coding, for example GM-18/ PR) or the left (L in coding, for example GM-12/L) power unit in the side panel. The built-in power panel is equipped with 6 sockets (5 with grounding and one without grounding) and a switch button.

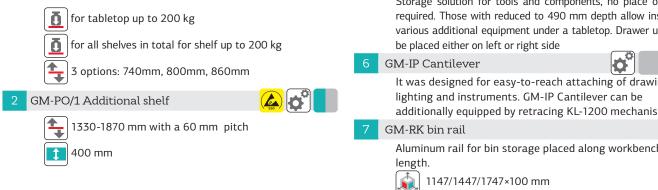
Upper LED lighting is built into the top horizontal hanger above the tabletop.

- Color temperature 3950-4000 K

- Luminous flux: 4490 Lm
- Power consumption: 38 W

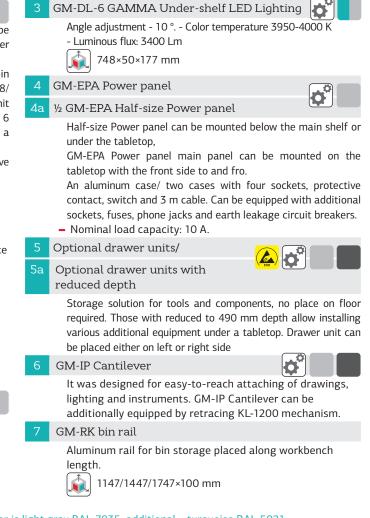
Provides at least 1260-lux illuminance at 1000 mm distance from the light source.

All technical communications are easily accessible by opening the board in side supports. Tabletop thickness 25 mm.

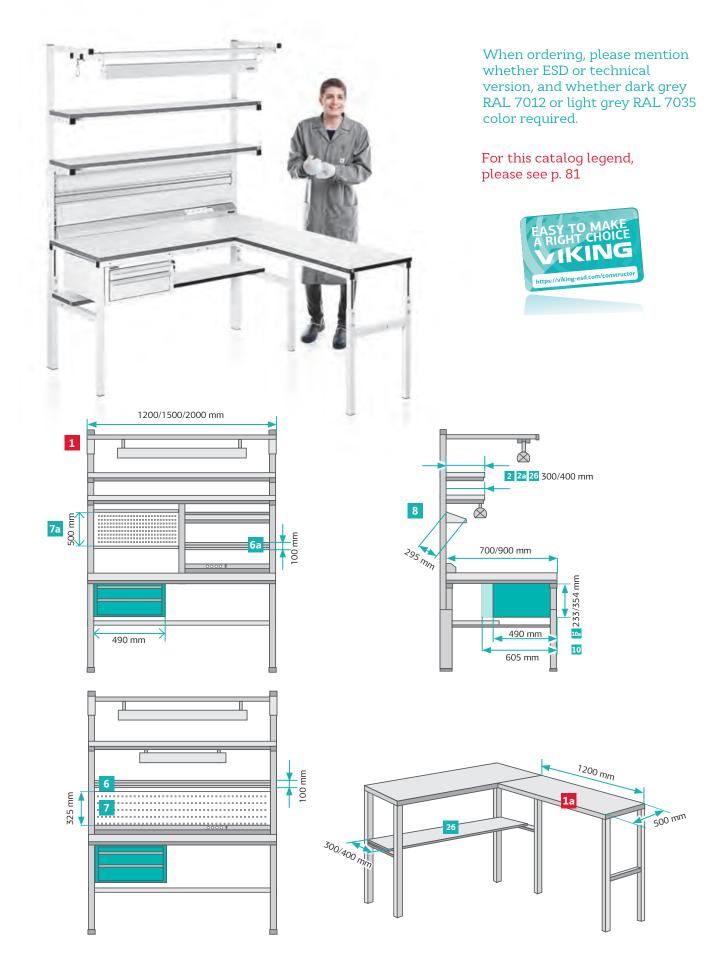


GAMMA workbenches are bicolored by default; the main color is light gray RAL 7035, additional – turquoise RAL 5021. Technical version workbenches are supplied with gray (RAL 7035) edges, in antistatic version - with turquoise (RAL 5021) edges.

All horizontal surfaces of the workbench are mounted to L shape supports, which mask built-in technical communications, electrical and lighting connections and all necessary fixture, keeping the workspace clear.



CLASSIC series workbenches



TECHNICAL&ESD FURNITURE CLASSIC SERIES WORKBENCHES 7a 2 3a 1b4b DL/N2 Under-shelf local lighting Classic Workbench (a Additional lighting can be mounted under the main shelf or These workbenches can be placed in a line to make a common working attached to perforated panel. area with no gaps. Universal design allows fitting out the workplace Suitable for any workbench equipped with upper modules. Angle with additional equipment and drawer units. adjustment ±60° Tabletop thickness 25 mm. - 2 versions: 60 cm length and 90 cm length 650–900 mm **0** 300 kg 300°C T - Color temperature 4700–5300 K Provides at least 1000-lux illuminance at 1000 mm US-1 Corner workbench distance from the light source. Also available with dimmer. Additional side outlier for Classic workbenches. See more on p. 46 ī K-SR and D-75 Classic workbench Ø wheels set Middle upright for all items Required to hold any 1/2 item. Three sizes to match standard Can be mounted to any Classic workbench, allows making it movable workbench width. K-SR holder and D-75 wheels shall be ordered separately. RK Bin rail PO Main shelf Ö Rear racks included. ½ RK Bin rail 50 kg 1000–1800 mm δ 300/400 mm Aluminum rail for bin storage placed along workbench length. RK — 1110/1410/1710×100 mm 10 kg PO/1 Additional shelf K 1/2 RK — 530/680/830×100 mm Requires PO Main shelf to be installed. Rear racks excluded. 1000–1800 mm | 🚺 | 50 kg PFP Perforated panel 300/400 mm 1/2 PFP Perforated panel 1 Panel can be equipped with different holders for additional PO/2 Underneath shelf See more on p.47 equipment and tools storage -Not compatible with TP-01/P and TP-10/P Optional drawer units. PFP- 1190/1490/1790×325 mm 10 kg 300/400 mm **5**0 kg 1⁄2PFP - 610/760/910×500 mm **EP** Power panel Ô 8 PN Half-sized Sloped shelf 1/2 EP Power panel 8a PNP Full-sized Sloped shelf An aluminum case/ half-size case with four sockets, protective contact, switch and 3 m cable. Can be equipped with additional Sloped shelf with 10-55° angle adjustment provides comfort sockets, fuses, phone jacks and earth leakage circuit breakers. monitoring of working equipment. - Nominal load capacity: 10 A PN 534/684/834×295 mm **N** 50 kg DL/A Workbench lighting PNP 1111/1411/1711×295 mm An aluminum case with two energy-efficient luminescent 54 W lamps, light direction regulation and shadowless reflector provided. 9 IP Cantilever Quick switching on without shimmering, no strobing freeze. Provides at least 1200-lux illuminance at 1000 mm distance Upper slat for fastening drawings, additional lighting and from the light source. instruments. IP Cantilever can be additionally equipped by 500-1350 mm from tabletop retracing KL-1200 mechanism See more on p.44 Optional drawer units/ 4a DL/S2 Workbench LED lighting An aluminum case with LED lamp and light direction regulation. 10a Optional drawer units with Color temperature 4700-5300 K reduced depth Provides at least 1200-lux illuminance at 1000 mm distance Storage solution for tools and components, no place on floor from the light source. required. Those with reduced to 490 mm depth allow installing 500-1350 mm from tabletop. various additional equipment under a tabletop.

2a

2h

3a

4

Also available with dimmer. | | See more on p. 46

Drawer unit can be placed either on left or right side.



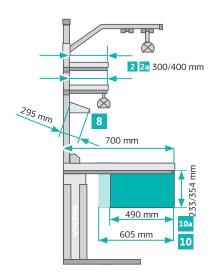
COMFORT SERIES WORKBENCHES

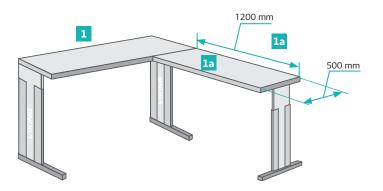


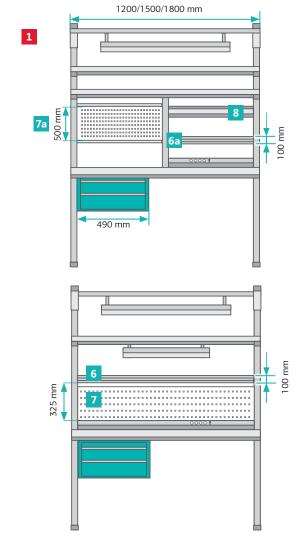
When ordering, please mention whether ESD or technical version, and whether dark grey RAL 7012 or light grey RAL 7035 color required.

For this catalog legend, please see p. 81

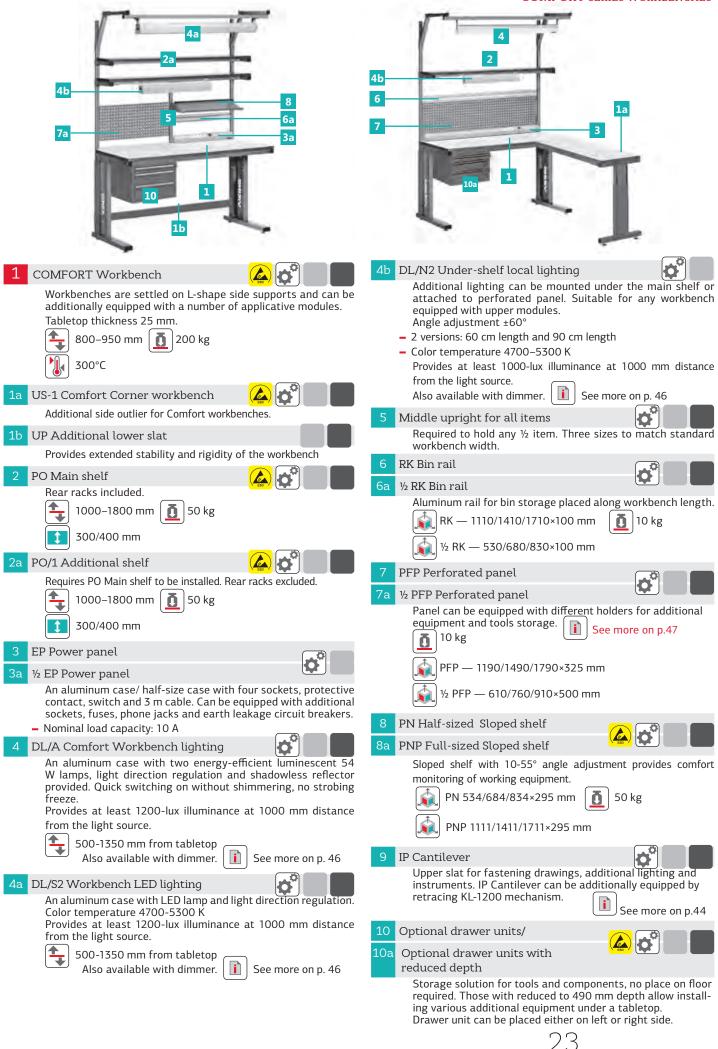








TECHNICAL&ESD FURNITURE COMFORT SERIES WORKBENCHES



Technical&ESD furniture

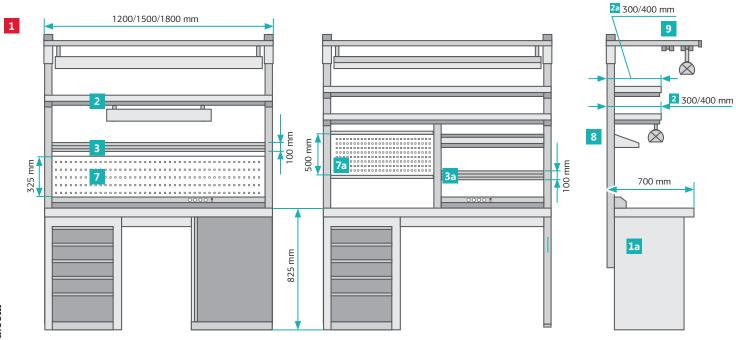
CONSTANT SERIES WORKBENCHES



When ordering, please mention whether ESD or technical version required.

For this catalog legend, please see p.81

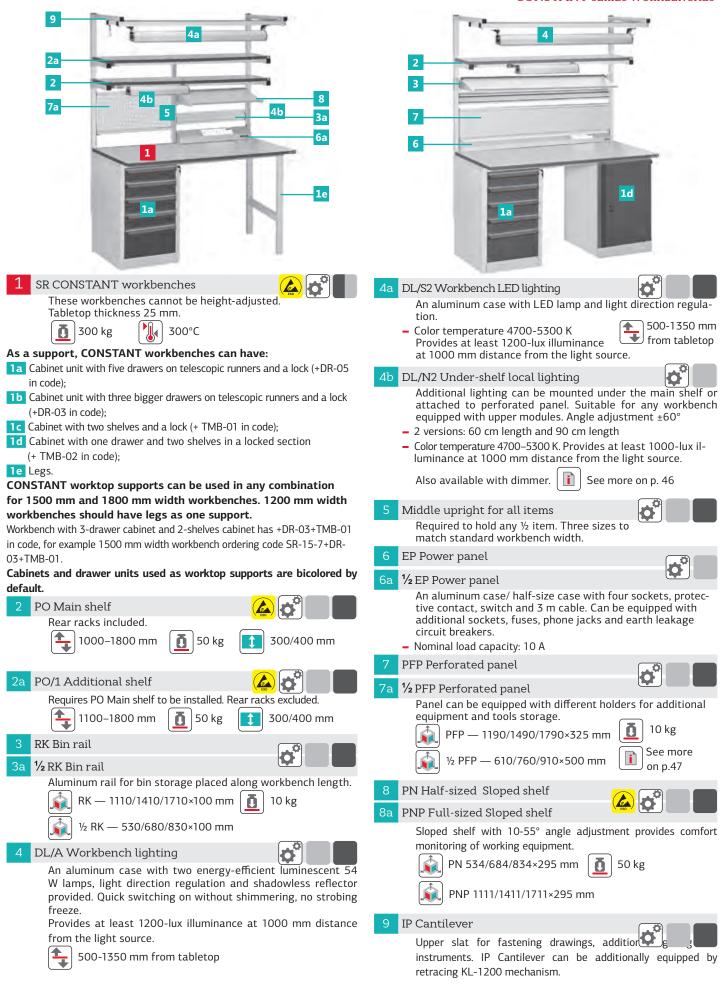




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CONSTANT SERIES WORKBENCHES



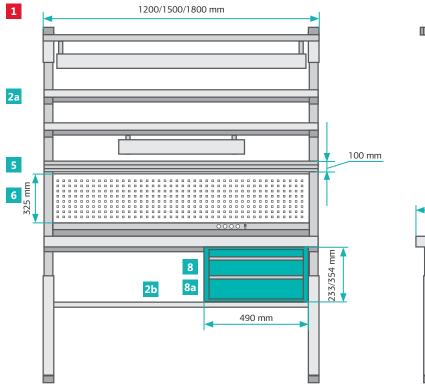
OSTROV SERIES WORKBENCHES

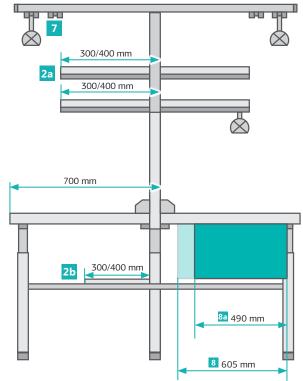


When ordering, please mention whether ESD or technical version, and whether dark grey RAL 7012 or light grey RAL 7035 color required.

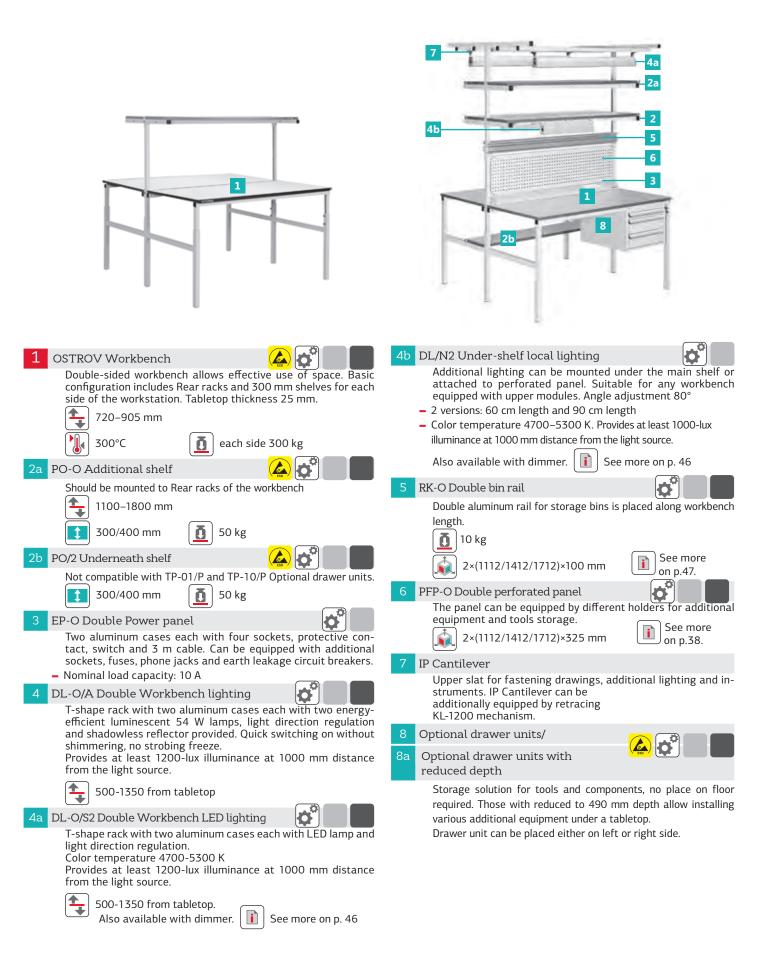
For this catalog legend, please see p. 81



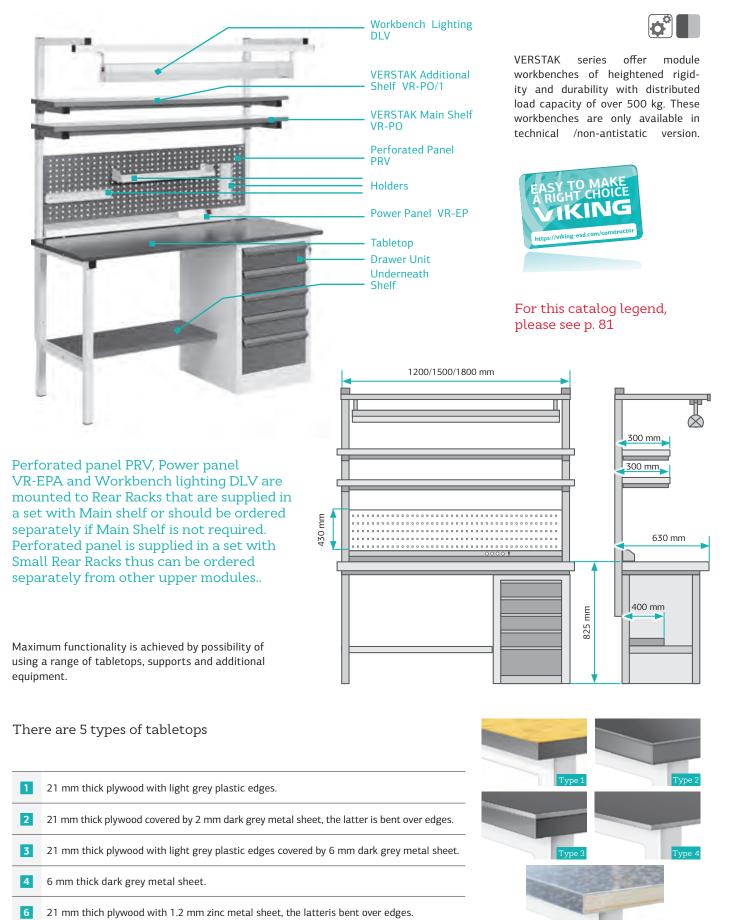




https://viking-esd.com



VERSTAK SERIES TECHNICAL WORKBENCHES



There are five standard types of worktop supports:

- **1a** Cabinet unit with five drawers on telescopic runners and a lock (+DR-05);
- **1b** Cabinet unit with three bigger drawers on telescopic runners and a lock (+DR-03);
- **1c** Cabinet with two shelves and a lock (+TMB-01);
- 1d Cabinet with one drawer and two shelves in a locked section (+TMB-02);

1e Legs.

These supports can be used in any combination, except for 1200 mm width VERSTAK workbenches that should have legs as one of the tabletop supports.





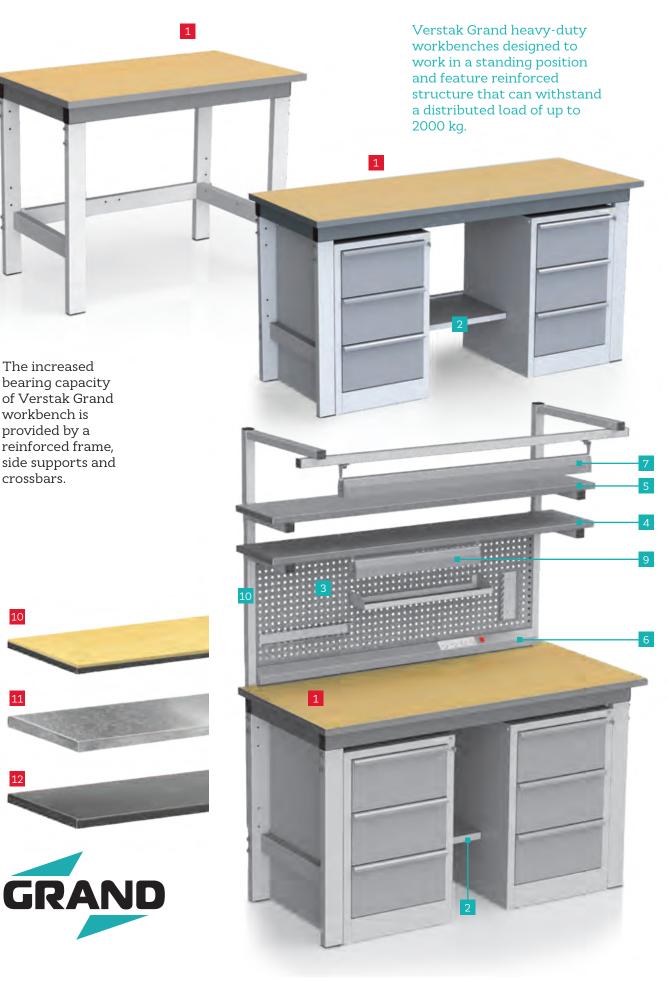


	VERSTAK with a drawer	VR-12+DR-03/No.	VR-12+DR-05/No.	1200×630 mm
	unit (DR-03 or DR-05)	VR-15+DR-03/No.	VR-15+DR-05/No.	1500×630 mm
	_	VR-18+DR-03/No.	VR-18+DR-05/No.	1800×630 mm
	VERSTAK with a cabinet (TMB-01 or TMB-02)	VR-12+TMB-01/No.	VR-12+TMB-02/No.	1200×630 mm
		VR-15+TMB-01/No.	VR-15+TMB-02/No.	1500×630 mm
		VR-18+TMB-01/No.	VR-18+TMB-02/No.	1800×630 mm
	VERSTAK with different combinations of cabinets (TMB-01, TMB-02) and drawer units (DR-03,	VR-15+DR-05+DR-05/No. VR-15+DR-03+DR-05/No. VR-15+TMB-01+TMB-02/No. VR-15+DR-05+TMB-01/No. VR-15+DR-03+TMB-02/No.	VR-15+DR-03+DR-03/No. VR-15+TMB-01+TMB-01/No. VR-15+TMB-02+TMB-02/No. VR-15+DR-05+TMB-02/No. VR-15+DR-03+TMB-01/No.	1500×630 mm
	DR-05)	VR-18+DR-05+DR-05/No. VR-18+DR-03+DR-05/No. VR-18+TMB-01+TMB-02/No. VR-18+DR-05+TMB-01/No. VR-18+DR-03+TMB-02/No.	VR-18+DR-03+DR-03/No. VR-18+TMB-01+TMB-01/No. VR-18+TMB-02+TMB-02/No. VR-18+DR-05+TMB-02/No. VR-18+DR-03+TMB-01/No.	1800×630 mm

Note: No. in the workbench code corresponds to tabletop type (1, 2, 3, 4 or 5). For example, VR-12+TMB-01/3.

PRV Perforated Panel for VERSTAK workbench	PRV-12	for 1200 mm width workbenches
(small shelf and 2 holders included).	PRV-15	for 1500 mm width workbenches
· · · · · · · · · · · · · · · · · · ·	PRV-18	for 1800 mm width workbenches
DLV Workbench Lighting.	DLV-12	for 1200 mm width workbenches
Requires Main shelf or Rear Racks to be installed.	DLV-15	for 1500 mm width workbenches
•	DLV-18	for 1800 mm width workbenches
	DLS-12	for 1200 mm width workbenches
DLS2 VERSTAK LED Upper Workbench Lighting.	DLS-15	for 1500 mm width workbenches
	DLS-18	for 1800 mm width workbenches
VR-PO VERSTAK Main Shelf.	VR-PO-12	1200×300 mm
	VR-PO-15	1500×300 mm
	VR-PO-18	1800×300 mm
	VR-PO/1-12	1200×300 mm
VR-PO/1 VERSTAK Additional Shelf. Requires Main shelf.	VR-PO/1-15	1500×300 mm
	VR-PO/1-18	1800×300 mm
/R ED VEDSTAK Dowor Danal Booviros Main shalf or Boor Dacks	VR-EP-12	for 1200 mm width workbenches
VR-EP VERSTAK Power Panel. Requires Main shelf or Rear Racks — or PRV.	VR-EP-15	for 1500 mm width workbenches
	VR-EP-18	for 1800 mm width workbenches
DL/N2 Under-shelf local lighting. Requires Main shelf or PRV2	DL/N-6	600 mm
Also available with dimmer. See more on p. 46.	DL/N-9	900 mm
Rear Racks.	KZS	1500 mm
Small Rear Racks.	UKZS	900 mm

VERSTAK GRAND HEAVY-DUTY WORKBENCHES



Verstak Grand series workbenches tabletop height is **930 mm**, working surface can't be height adjusted. The reinforced VIKING Grand workbenches are available in four standard sizes: **1200, 1500, 1800 and 2000 mm**.

Vertak Grand workbenches can be equipped with 3 types of tabletops:

- 10 type 10 30mm plywood with RAL7012 edge
- **11 type 11** 30mm plywood covered with 2mm thick metal sheet bent on 4 sides, metal sheet painted in RAL7012
- **12 type 12** 30mm plywood covered with 1.2mm thick galvanized sheet metal bent from 4 sides.

The workbench can be additionally equipped with a perforated panel (PRV) with shortened rear uprights (UZS), which makes it possible to install additionally only a power panel (VR-EPA).

Perforated panel (PRV) can be also combined with other upper modules: upper lighting of the working surface (DLV), upper shelf (VR-PO), which is supplied in a set with rear uprights, under shelf lighting (DL / N), electrical power panel (VR-EPA). The perforated panel is supplied complete with two universal tool holders and one hinged shelf.

In the case of only upper Workbench lighting (DLV) ordering, one shall also order a set of rear uprights (KZS).

The lower shelf can be installed between 2 additional cabinets or between 1 cabinet and lower slat.

NºNº EQUIPMENT

1	VERSTAK GRAND HEAVY-DUTY WORKBENCHES				
	Workbench width	1200 mm	1500 mm	1800 mm 2000 mm	
	Tabletop type10(#)11	VR/G-12/10	VR/G-15/10	VR/G-18/10 VR/G-20/10	
		VR/G-12/11	VR/G-15/11	VR/G-18/11 VR/G-20/11	
	12	VR/G-12/12	VR/G-15/12	VR/G-18/12 VR/G-20/12	
	Tabletop dimensions, mm	1200×700	1500×700 мм	1800×700 2000×700	
	Lower shelf for VERSTAK GRAND workbench	PO-VR/G-12/1 Lower shelf for a workbench with 1 cabinet	PO-VR/G-15/1 Lower shelf for a workbench with 1 cabinet 760×400mm	PO-VR/G-18/1 Lower shelf for a workbench with 1 cabinet 1060*400mm	
2		460×400mm PO-VR/G-12/3 Lower shelf for	PO-VR/G-15/2 Lower shelf for a workbench with 2 cabinets 260×400mm	PO-VR/G-18/2 Lower shelf for a workbench with 2 cabinets 560*400mm	
		a workbench without cabinets 960×400mm	PO-VR/G-15/3 Lower shelf for a workbench without cabinets 1260×400mm	PO-VR/G-18/3 Lower shelf for a workbench without cabinets 1560*400mm	
3	PRV Perforated Panel for VERSTAK GRAND workbench (small shelf and 2 holders included)	PRV-12 1200×430 mm	PRV-15 1500×430 mm	PRV-18 1800×430 mm	
4	VERSTAK Main Shelf (rear racks included)	VR-PO-12 1200×300 mm	VR-PO -15 1500×300 mm	VR-PO-18 1800×300 mm	
5	VR-PO/1 VERSTAK GRAND Additional Shelf (requires Main shelf)	VR-PO-12/1-3 1200×300 mm	VR-PO-15/1-3 1500×300 mm	VR-PO-18/1-3 1800×300 mm	
6	VR-EP VERSTAK GRAND Power Panel (requires Main shelf or Rear Racks or PRV)	VR-EP-12	VR-EP-15	VR-EP-18	
7	DLV Workbench Lighting (requires Main shelf or Rear Racks to be installed.) Also available with dimmer. See more on p. 46.	DLV-12	DLV-15	DLV-18	
7	DL-S2 Workbench LED Lighting (requires Main shelf or Rear Racks to be installed.)	DLV-12/S2	DLV-15/S2	DLV-18/S2	
9	DL/N2 Under-shelf local lighting (requires Main shelf or PRV)	DL/N2-6 600 mm DL/N2-9 900 mm			
10	KZS Rear Racks	1500 mm			
	UKZS Small Rear Racks	900 mm			

TITAN SERIES HEAVY DUTY TECHNICAL WORKBENCHES



Titan series technical furniture is designed for mechanical works, which require reinforced load capacities, especially in machine-building and metalworking industries, in workshops and car services.

Main features of Titan series furniture:

- 2000 kg load capacity for workbenches, reinforced runners for drawers and durable wheels for movable workstations and trolleys;
- Two types of shock resistant and high-abrasion tabletops; various sets of modules allow selecting an optimal workplace;
- Demountable construction, which consists of four parts, provides convenience of transportation.

Two types of tabletops available for the workbench:



30 mm thick plywood coated with 10 mm shockproof plastic

30 mm thick plywood coated with 6 mm sheet metal



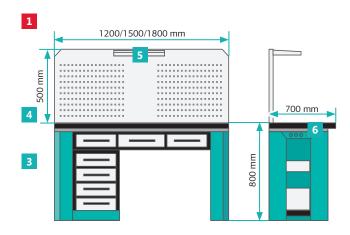
For this catalog legend, please see p. 81

- 2 small drawers 300×80×478 mm for 1200 wide mm workbenches
- 3 small drawers 300×80×478 mm for 1500 wide mm workbenches
- 2 small drawers 300×80×478 mm and 1 big drawer 600×80×478 mm for 1800 wide mm workbenches

All heavy-duty workbenches are equipped with small side shelves under the tabletop.



Default colors combination is RAL 5021 (turquoise), RAL 9005 (black) and RAL 9010 (white). Matte paint texture



1 VT/R, VT/B TITAN Heavy-duty Workbench

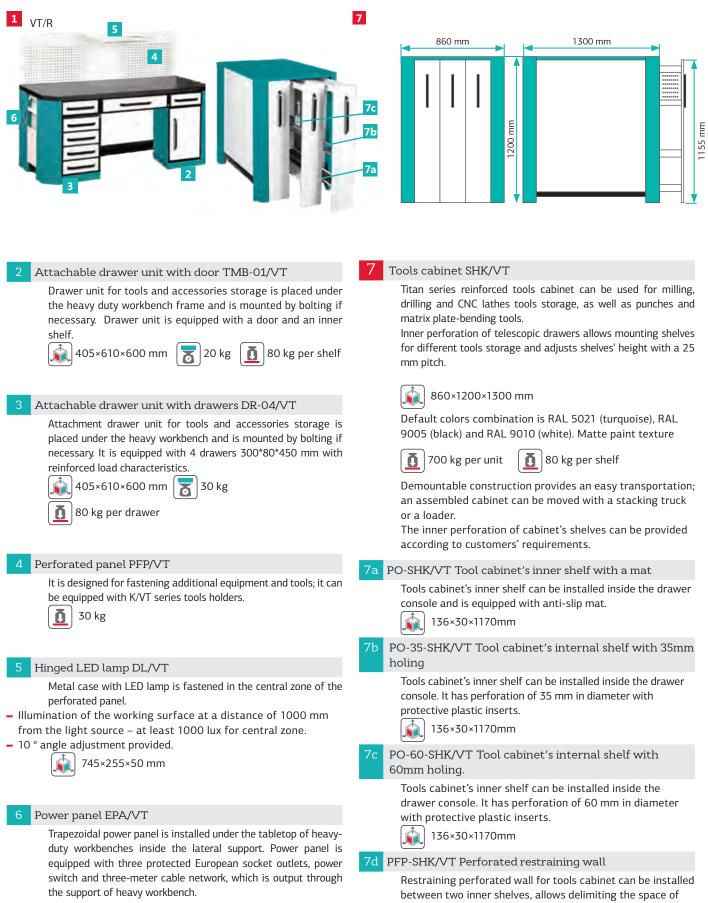
TITAN heavy-duty workbench is a high tech construct that doesn't need any utility supports under the tabletop. All the stiffeners organically fit the design of the workbench.

Load capacity and rigidity are achieved through optimally calculated 1.5 mm thick structural iron profiles.

TITAN heavy-duty workbenches in basic version (VT/B) are supplied with technological plugs in a frame under the tabletop, heavy duty workbenches in expanded version (VT/R) are supplied with reinforced telescopic drawers:

32

Technical&ESD furniture TITAN series heavy duty technical workbenches



- Nominal load: 10 A
- Cross-section of grounding cable: 1.5 mm

33

two adjacent consoles of the cabinet.

1190×572 mm

Technical&ESD furniture TITAN series heavy duty technical workbenches





TT/BT Transportation cart

ignod fo

Titan series reinforced transportation cart is designed for heavy tools and accessories storage and movement between manufacturing sectors. The cart is equipped with rotary wheels, 2 of them with brakes, it is also equipped with the convenient handle.

Default colors combination is RAL 5021 (turquoise), RAL 9005 (black) and RAL 9010 (white). Matte paint texture.

Demountable construction facilitates transportation and gives the opportunity to remove main shelves and use internal space for transportation of gauge loads.

Individual different dimensions, perforation and shelves available on request.

Transportation cart consists of several modules:

8a TT-01/VT Transportation cart base

The bottom of the transportation cart base structure is covered with 3mm anti-slip rubber; the vertical wall is equipped with two additional lateral shelves with up to 30 kg load capacity each and a convenient handle.c

Sectional construction of the trolley makes it possible to use the entire internal space for dimensional goods transportation.



8b TT-OS / VT Restraining Section

Should be installed on the opposite side of the trolley's vertical wall with holder, allows limiting the inner zone of the trolley and installing internal shelves between two inner perforated panels.

700×810×113 mm

8c TT-P / VT Internal shelf with perforation

Internal shelf should be installed between two inner perforated panels of transportation cart base vertical wall and Restraining Section.

The shelf is equipped with tool storage system designed for reliable fixation of milling, drilling and CNC lathes tools which is represented by two types of perforation (30 mm and 56 mm in diameter) with protective plastic inserts.

100 kg 🙀 190×990×20 mm

8d TT-B / VT Internal shelf with anti-slip rubber and upturns

Internal shelf should be installed between two inner perforated panels of transportation cart base vertical wall and Restraining Section. The shelf is equipped with anti-slip rubber and upturns.



8e TT-K / VT Internal shelf with anti-slip rubber

Internal shelf should be installed between two inner perforated panels of transportation cart base vertical wall and Restraining Section. The shelf is equipped with anti-slip rubber.

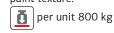
190×990×20 mm



9 Shelving STS/VT

Reinforced shelving with four height adjustable shelves. No additional floor leveling required.

Available in RAL 9005 (black) и RAL 9010 (white) colors. Matte paint texture.



per shelf 350 kg



TECHNICAL&ESD FURNITURE

TITAN SERIES HEAVY DUTY TECHNICAL WORKBENCHES



Perforated cover screen for movable 10a workstation PFP/VTM

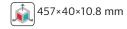
> Perforated cover screen is designed for tools and additional accessories storage above the tabletop working area. The cover screen should be attached to the backside of the mobile workstation by screw connection and allows locking of working zone of the movable station with a key if necessary.

🟠 | 600×505×100 mm | 20 kg Ō

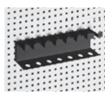
Hinged LED lamp

DL/VT

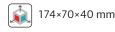
Metal case with LED lamp is fastened in the central zone of the perforated screen.



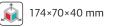
Additional accessories for perforated panels of heavy WORKBENCH AND MOVABLE WORKSTATION



K-01/VT Hook for tweezers and equipment with small handles.



K-02/VT Hook for screwdrivers.





for pliers. 174×85×47 mm

K-03/VT Holder



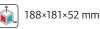
K-04/VT Hook for any tools.



K-05/VT Holder for screwdrivers and 9-13 mm diameter drills.

175×100×32 mm

K-06/VT Hooks for spanners.



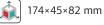
K-07/VT Double hook for heavy instruments.

37×41×92 mm

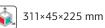




K-08/VT Tray for small components and bottles.

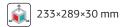


K-09/VT Tray for A4-size papers.



K-10/VT

A4-size papers holder.



K-11 Small anseptic and other bottles holder.







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SPECIALIZED WORKBENCHES

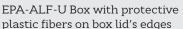


1 ALF-U Alpha Simplified



Simplified Alpha series workbench without upper modules. Alpha universal workbenches allow several extensions: optional drawer unit, box with protective plastic fibers and power panel

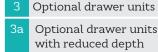




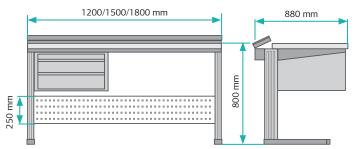


Metal box with power panel is mounted to the back side of ALPHA universal workbench. The box's lid is covered with plastic fibers to protect power panel from dust and cuttings. Can be also used as a worktop extension which makes the workbench depth 180 mm more. Power panel consists of 8 sockets in an aluminum case with protective contact and 3 m cable. Nominal load capacity: 10 A.

Available in technical and ESD versions.



Storage solution for tools and components, no place on floor required. Those with reduced to 490 mm depth allow installing various additional equipment under a tabletop.



Specialized workbenches for optical fiber handling



Two different types available for purchase: Workbench set and single workbench.

SET SOV-12/15/18 ESD Specialized workbench set for optical fiber handli



The set includes workbench itself, 300 mm main shelf and lighting. Workbench's worktop and main shelf are covered with black ESD plastic (RAL 9005) to provide convenience for optical fibers works. Available only in ESD version.



300 kg 🚺 300°C

SOV-12/15/18 Classic ESD Specialize workbench for optical fiber handling

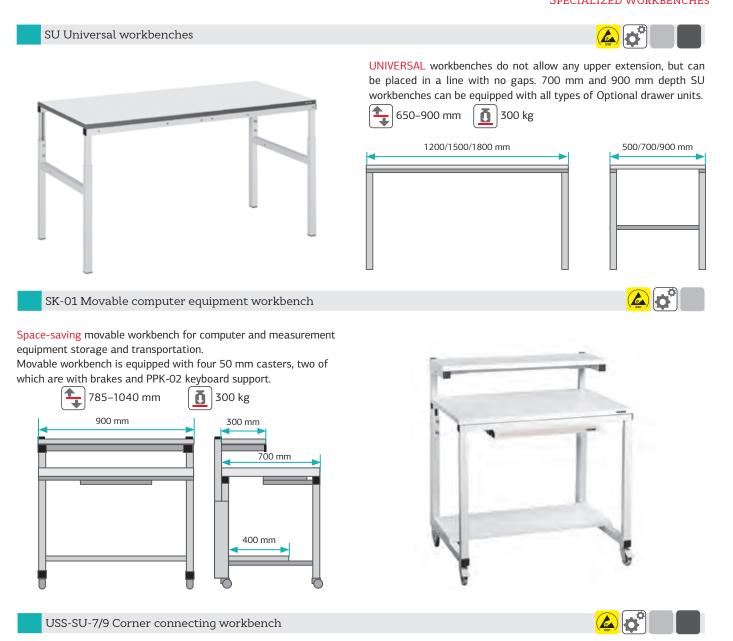
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Workbench's worktop is covered with black ESD plastic (RAL 9005) to provide convenience for optical fibers works. Available only in ESD version.

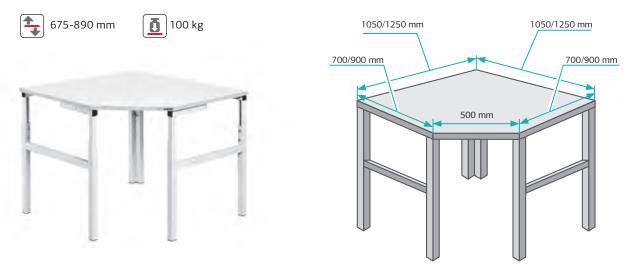






Corner connecting workbench is used to build up inseparable working area being a connector for two standard Classic, Comfort or Constant workbenches put at right angle. Increased depth of tabletop and load capacity of 200 kg allows storing and using heavy or bulky equipment.

Corner connecting workbench is produced in 2 sizes to match 700 mm depth workbenches and 900 mm depth workbenches. Perforated panel, main and additional shelves, lighting units and power panels can be mounted to corner connecting workbench on request.



WIRE HARNESS WORKBENCH

Wire harness workbench with 0° to 80° angle adjustable worktop made of 1.5 mm thick powder-painted steel allows using magnetic plates with holders, retainers, corner posts and wire breakout systems which help to hold wires and form bundles on wire harness workbench. Magnetic plates are equipped with two potent (with 20 kg/s pull off force) magnets each thus allowing the usage of up to 5 kg bundles without their spontaneous movements.

Worktop angle adjustment and fixation is performed by side clamping handles.

Workbench supports unit dimensions: 1425×690 mm.





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Steel worktop available in three versions (width×height)

SR-ZHG-15 (1500×1400 mm),
SR-ZHG-18 (1800×1400 mm),

- SR-ZHG-20 (2000×1400 mm).

Workbench height

- in horizontal position of the worktop 800 mm
- in vertical position of the worktop 1760 mm
- Available only in technical version. Supplied in a set with casters.







WIRE HARNESS WORKBENCH ACCESSORIES



Different types of holders, retainers, corner posts and wire breakout systems, which help to hold wires and form bundles on wire harness workbench. They should be mounted on one of three types of magnetic plates.

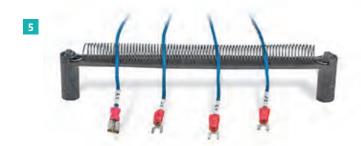
CODE	_	_	
	DIMENSIONS (W×H×D)	MAX. BUNDLE DIAMETER	COMMENTS
1 Harness	elastic retainer		
RER.75-S6-X	30×56.1× ×28.4 mm	19 mm	Cable bundles are formed as cable bundles are in- serted. Completed bundles can be easily removed
Harness	replacement elast	tic band for RE	ER.75-S6-X.
RER.75E-X			The elastic band is replaceable
2 Harness	elastic retainer		
RER2.0-S6-X	33.3×100.2× ×71.4 mm	50.8 mm	Cable bundles are formed as cable bundles are in- serted. Completed bundles can be easily removed
Harness	replacement elast	tic band for RE	R2.0-S6-XX
RER2.0E-X			The elastic band is replaceable
3 Low prof	ile elastic retaine	r	
ER.5-E4-X	49.8×25.4× ×14.2 mm	12.7 mm	Cable bundles are formed as cable bundles are inserted. Completed
ER1.25-E4-X	73.7×50.8× ×24.1 mm	31.8 mm	bundles can be easily removed
4 Corner p	ost		
High p	rofile corner pos	t	
CPH.75-S8-X	22.9×47.8× ×40.8 mm	19 mm	Designed to pre-form tight bundles at harness corners and breakouts.
Low pi	rofile corner post	:	Top arm rotates upward for easy
CPL.75-S8-X	22.4×27.4× ×38.6	19 mm	removal of completed harness

TYPE OF THE MAGNETIC PLATE		
	USED FOR HOLDERS	DIMENSIONS OF THE PLATE, MM
1 MP-ZHG-1	RER75-S6-X ER.5-E4-X CPH.75-S8-X CPL.75-S8-X	30×80
2 MP-ZHG-2	RER2.0-S6-X ER1.25-E4-X	35×110
3 MP-ZHG-3	SHH3-S8-X	20×190
4 MP-ZHG-4	Separate angle hook	
5 MP-ZHG-5	PBSC12-X	
6 MP-ZHG-6	PBSC3-X	

5 Spring wire breakout system

Harness board spring and spring linkage holds wire ends secure while harness is being fabricated. Wires simply pull out from spring when harness is removed.

CODE		
CODE	DESCRIPTION	SPAN BETWEEN FASTENINGS LENGTH)
PBSC12-X	Spring wire breakout system,	76.2 mm
PBSC6-X	should be mounted to linkage	152.4 mm





3



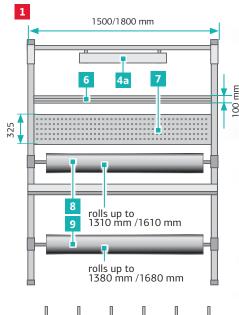
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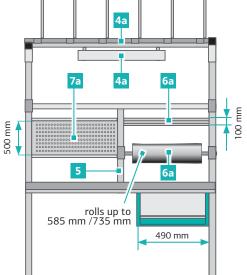


PACKING WORKSTATION

Viking packing workstation is an adjustable ergonomic workstation that helps to easily access all packaging materials - cartons, tape, paper, bubble wrap or others. 1

Lately it is important to meet quickly growing demand of packing and logistics needs, which means that the workstation needs to be as ergonomic and efficient as possible.





T 300/400 mm 900 mm

All the materials used along the process of packing the goods need to be easily accessible – right at the packer's fingertips.

Viking packing workstation provides ergonomic access to paper, tape, and cartons so time is spent working, not bending, stretching or reaching for materials.

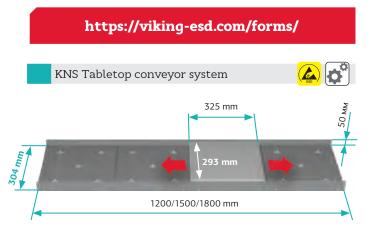
354 mm

10

605 mm

	 41 DL/S2 Workbench LED lighting The case for lighting unit is made of aluminum, light direction regulation provided. Available in 2 versions: standard LED lighting, lighting with dimmer. a. Light source: LED lamps b. Light flux: 5985 Lm b. Power consumption: 43 W Also available with dimmer. b. 500 mm -1350 mm. b. DL/N2 Under-shelf local lighting Additional local LED lighting can be mounted to any workbench series Main Shelf and Perforated panel. Provides uniform illumination level. Available in 2 versions: 60 and 90 cm. Also available with dimmer. c) Middle upright for all kind of workbenches Middle upright for all kind of workbenches Middle upright is required for all ½ items, it consists of upright and transversal slat which differs according to workbenchs width. 6 RK Bin rai 6a ½ RK Half-size bin rail
	Aluminum rail for bin storage placed along workbench length. 10 kg PK — 1410 / 1710×100 mm 1 /2 PK — 680 / 830×100 mm
 Classuc Workbench Basic part of Packing workstation. These workbenches can be placed in a line to make a common working area with no gaps. Universal design allows fitting out the workplace with necessary equipment and drawer units. 650–900 mm 300 kg 300 kg 300 cc PO Main shelf Rear racks included. Height adjustment: 1000 – 1800 mm 2 versions: 30 cm depth and 40 cm depth 50 kg 	 7 PFP Perforated panel 7a ½ PFP Half-size perforated panel Panel can be equipped by different holders for additional equipment and tools storage. 10 kg PFP— 1490 / 1790×325 mm, ½ PFP — 760 / 910×500 mm 8 RD Upper rolls holder 8a 1/2 RD Half-size rolls holder 8a 1/2 RD Half-size rolls holder 9 RD/2 Lower rolls holder 9 RD/2 Lower rolls holder 9 A holder that helps to locate rolls of paper, film or bubble wrap above the tabletop. 9 RD/2 Lower rolls holder
 3 EP Power panel 3a ½ EP power panel Basic configuration consists of 4 sockets placed in aluminium case with protective contact and 3 m cable. Panel can be equipped with additional sockets, earth leakage circuit breaker, automatic fuse and a phone jack. 	 below the tabletop. 25 kg TPP suspended cabinet for printer with sliding shelf Storage solution for printer or other equipment. With lower sliding shelf. 490×354×605 mm, 500×400×245 mm.
 DL/A Workbench lighting DL/A Workbench lighting is placed in an aluminum case with 2 energy-efficient luminescent 54 W lamps, light direction regulation and shadowless reflector provided. Quick switching on without shimmering, no strobing freeze. Length: 1200 m Illuminance at 1000 mm distance: 1200 lux central 500 mm -1350 mm. 	 D-PO shelves dividers Available in 2 versions: 300 and 400 mm deep. ½ PRM protective underlayeR for cutting Half-size protective underlayer that helps to easily cut packaging materials not damaging the tabletop. To cover the overall worktop width one should order 2 pcs of protective underlayer. 750/900×(305309) MM

CUSTOMIZED LAYOUTS



VIKING tabletop conveyor system allows to organize the simple conveyor transfer of equipment and materials between two or more workstations standing in a line, the system optimizes the electronics manufacturing workflow by speeding up the transfer of materials between several opertors.



We are pleased to offer customized layouts based on our clients' individual requirements and projects. One can change size, shapes, add necessary elements to any particular module. Minimum order quantity for customized layouts — 5 pieces.



EM-SR-14 Workbench for electrical installation operations





We are pleased to offer customized layouts based on our clients' individual requirements and projects. One can change size, shapes, add necessary elements to any particular module

Minimum order quantity for customized layouts — 5 pieces.

ALF-N ALPHA series workbench with 3 aluminum supports and customized shape worktop

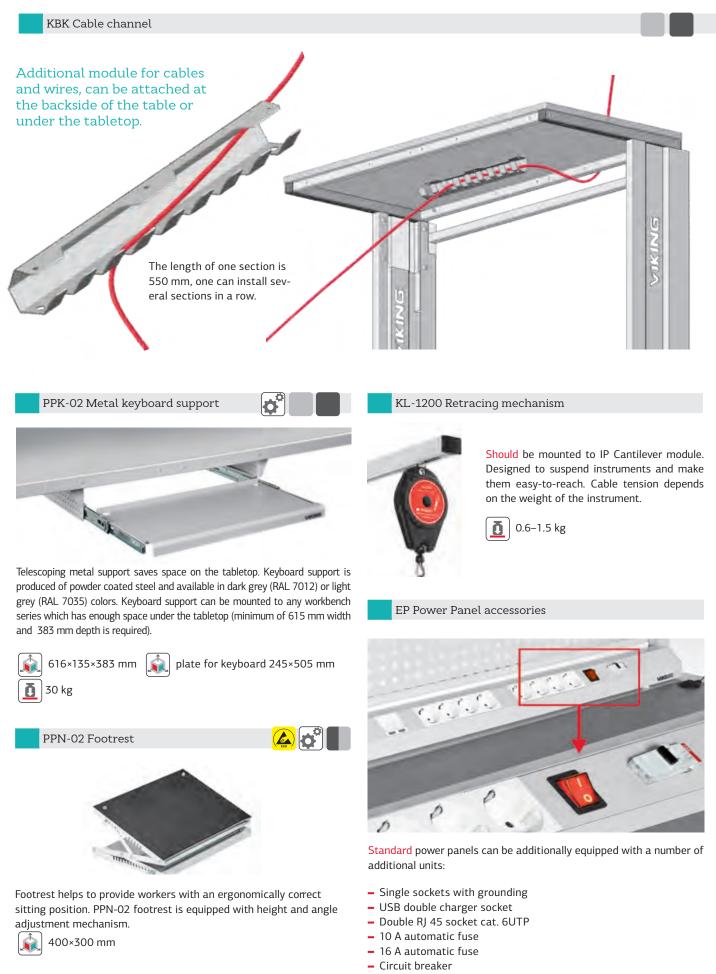


TTL-P Laboratory equipment transportation cart

TTU-N Heavy-duty transportation cart



WORKPLACES ADDITIONAL EQUIPMENT



Technical&ESD furniture Workplaces additional equipment



TECHNICAL&ESD FURNITURE

WORKPLACES ADDITIONAL EQUIPMENT





Aluminum rail can be installed wherever on the wall to hold attached storage bins. Maximum length 3 m.

- Width 95 mm.

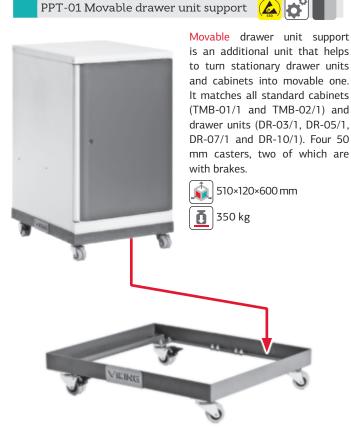
DL/N2 Under-shelf local lighting

Additional lighting can be mounted under the main shelf or attached to perforated panel. Suitable for any workbench equipped with upper modules. Angle adjustment $\pm 60^{\circ}$ or 80° depending on the type of workbench.

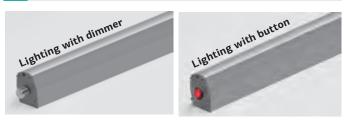


- 2 versions: 60 cm length and 90 cm length
- Luminous flux: 3150/4725 Lm
- Color temperature 4700-5300 K

Provides at least 1000-lux illuminance at 1000 mm distance from the light source..



LED Lighting with dimmer



New models of upper workbench lighting and under-shelf lighting.

New lighting matches all VIKING workbenches series:

Classic, Comfort, Constant, Alliance, Alpha, Ostrov, Verstak, Sigma.					
Material body:	Aluminum, steel				
Dimensions:	1200 mm, 900 (Alliance) mm – upper lighting				
	900 mm, 600 mm – under shelf version				
Power connector:	connection-C13/C14				
Color temperature:	4700-5300 K				
Illumination:	DL/S2 – at a distance of 1000 mm				
	from the light source of at least 1200 Lux				
	DL/N2 - at a distance of 1000 mm				
	from the light source of at least 1000 Lux				
Luminous flux:	DL/S2 – 5000 lm				
	DL/N2-6/9- 4000 lm				

PO/K Reinforcing Bracket

A set of reinforcing brackets for main shelves of CLASSIC, COMFORT, CONSTANT and OSTROV series.

Helps to increase Main shelves load capacity up to 100 kg.



TECHNICAL&ESD FURNITURE

WORKPLACES ADDITIONAL EQUIPMENT



SNP Table-top lifting system



Foldable desktop system that allows setting one's computer, monitor or equipment at necessary height. Helps to organize the process of working in a standing position or periodically changing the position of an employee during the day.

Load capacity up to 3 kg. Self-locking mechanism in upper and lower position.

Available in two colors: light gray and dark gray and two versions: technical and ESD

786 × 392 × 60...286 mm



PFP Perforated Panel accessories

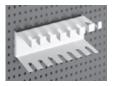




K-06 Hooks for spanners.



K-01 Hook for tweezers and equipment with small handles.



K-02 Hook for screwdrivers.



K-03 Holder for pliers.



K-04 Hook for any tools.



K-05 Holder for screwdrivers and 9–13 mm diameter drills.



K-07 Double hook for heavy instruments.



K-08 Tray for small components and bottles.



K-09 Tray for A4-size papers.



K-10 A4-size papers holder.



K-11 Small anseptic and other bottles holder.

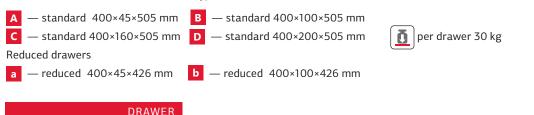
DRAWER UNITS

SUSPENDED AND MOVABLE DRAWER UNITS



Steel frame drawer units are designed for tools and components storage. Movable and stationary drawer units can be also used as ad ditional workplaces. Steel frame drawer units are equipped with central lock and either 550 mm telescoping drawers or shelves. Movable units have four rubber casters, two of which are with brakes. We also offer suspended drawer units with reduced to 490 mm depth, which allow installing various additional equipment under a tabletop.

Drawers' inner dimensions for different types are:

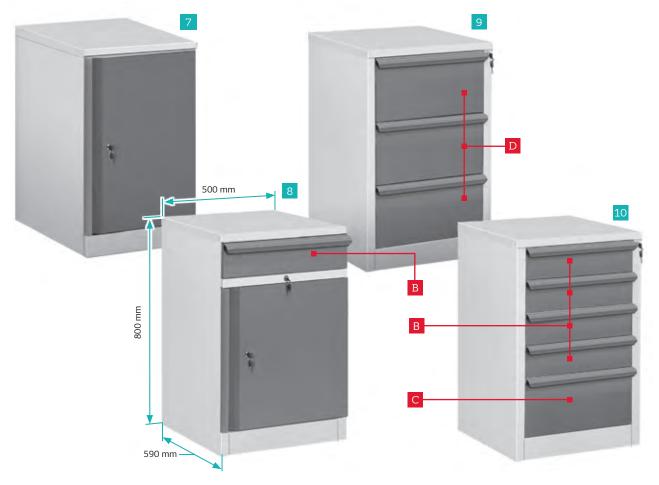


UNITS N		SUSPENDED				MOVABLE	
		TP-01/P	TP-02/P	TP-10/P	TP-20/P	TP-01/S	TP-02/S
Picture number		1	2	3	4	5	6
Dimensions (W×H×D), mm		490×354×605	490×233×605	490×354×490	490×233×490	490×580×610	490×650×635
Quantity of drawers		3	2	3	2	3	4
	Α	1	1	-	-	-	1
	В	2	1	-	-	2	2
Drawers per unit	С	-	-	-	-	1	1
	а	-	-	1	1	-	-
_	b	-	-	2	1	_	-
Weight (kg)		20	15	17	12	25	32

When ordering, please mention whether ESD or technical version, and whether dark grey RAL 7012 or light grey RAL 7035 color required.

STATIONARY CABINETS AND DRAWER UNITS





Steel frame stationary cabinets and drawer units are designed for tools and components storage and can be also used as additional workplaces. All stationary cabinets and drawer units can be installed as worktop supports for CONSTANT series workbenches and VERSTAK series technical workbenches. All standard stationary cabinets and drawer units are bicolored by default.

Stationary cabinets and drawer units have /1 in code if standing separately (for example, DR-07/1) and are indicated without additional number in code if used as VERSTAK or CONSTANT series support (for example VR-12+DR-03).

Drawers' inner dimensions for different types are:



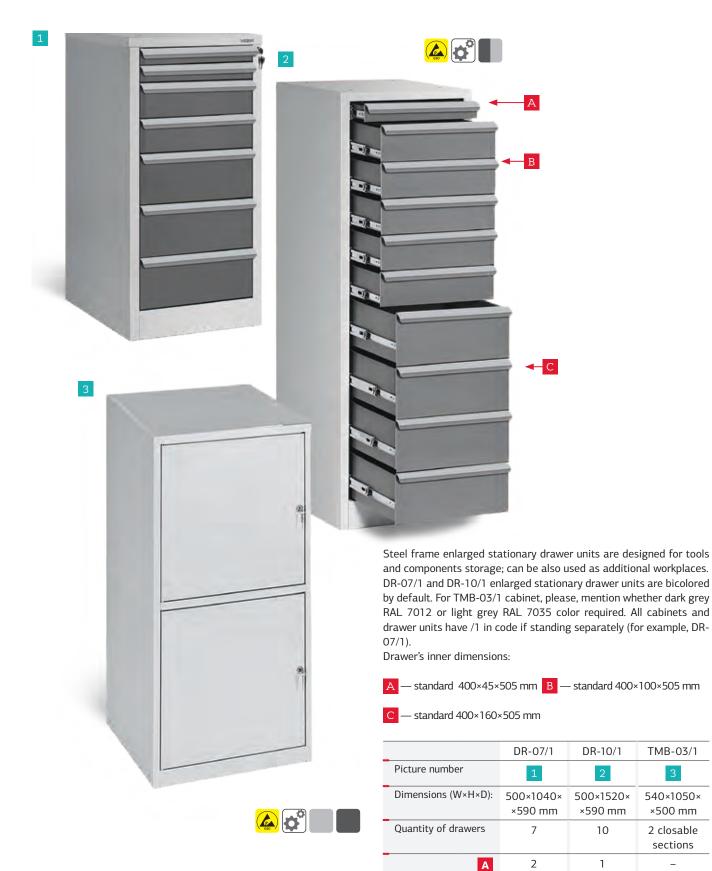


	STATIONARY								
	TMB-01/1	TMB-02/1	DR-03/1	DR-05/1					
Picture number	7	8	9	10					
Dimensions (W×H×D):	500×800×590 mm	500×800×590 mm	500×800×590 mm	500×800×590 mm					
Quantity of drawers /shelves	2 shelves	1 drawer, 1 shelf	3 drawers	5 drawers					
Drawers per unit	-	1	-	4					
С	-	-	-	1					
D	-	-	3	-					
Weight (kg)	25	30	35	40					

When ordering, please mention whether ESD or technical version required.

TECHNICAL&ESD FURNITURE DRAWER UNITS

ENLARGED CABINETS AND DRAWER UNITS



Drawers types

per unit

Weight (kg)

2

3

55

В

С

5

4

75

TMB-03/1

540×1050× ×500 mm

2 closable sections

_

_

20

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DRAWERS DIVIDERS

Drawer dividers sets

Dividers help to organize drawer internal space according to specific needs.

One can modify the space to many cells according to the number and dimensions of items needed to store: instruments, PCBs, mounting elements or other items.





Dividers for type A standard drawers (400×45×505 mm).
DM-10/A

Dividers for type A reduced drawers (400×45×426 mm). Each set consists of 4 longitudinal and 6 transversal dividers. Up to 35 different sized cells can be organized.





Dividers for type B standard drawers (400×100×505 mm).

DM-11/B

Dividers for type B reduced drawers (400×100×426 mm).

Each set consists of 3 longitudinal and 4 big and 4 small profiled transversal dividers. Up to 10 different sized cells can be organized.

3 D-16/B



Dividers for type B standard drawers ($400 \times 100 \times 505$ mm). The set consists of 4 longitudinal and 6 medium and 6 small profiled transversal dividers. Up to 15 different sized cells can be organized.

4 KD/AB mat

ESD mat that should be ordered separately if drawers dividers set is being ordered for technical version cabinets. KD/AB mat is necessary to provide drawers dividers set stability and reliability.

5 Additional equipment for drawers – plastic ESD trays

ESD inserts for components and personal belongings convenience storage are made to match standard type A and type B drawers. ESD inserts are produced of 2.2 mm thick black dissipative polystyrene. Max temperature 60° C.

Available in two versions:

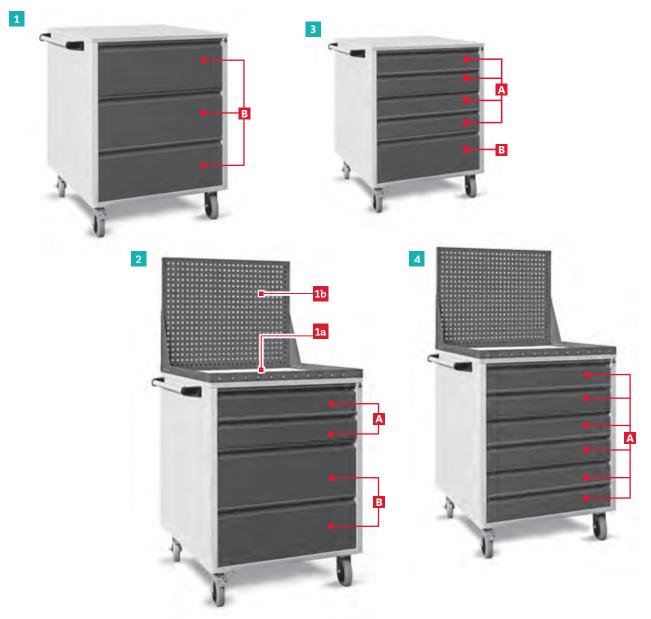
- V-01 ESD, Antistatic inserts for type A standard drawers (400×45×505 mm). Insert contains 9 cells of different shape and dimensions: one 375×112 mm cell, four 182×112 mm cells, and four 86×112 mm cells.
- V-02 ESD, Antistatic inserts for type B standard drawers (400×100×505 mm). Insert contains 8 similar dimensions cells 112×182 mm each.



TECHNICAL&ESD FURNITURE

DRAWER UNITS

HEAVY-DUTY MOVABLE WORKSTATION TM-03/04/05/06

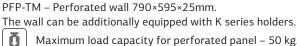


Heavy-duty movable workstation for accessories, metalworking tools and machinebuilding equipment storage, transportation and operational use.

Heavy-duty movable workstation is supplied in a set with reinforced wheels and lateral handle for movement.

Can be additionally equipped with:

1a L-TM – Upper bin with upturns and anti-slip mat 800×40×600mm L-TM – Upper bin with upturns and anti-slip mat 800×40×600mm L-TM – Upper bin with upturns and anti-slip mat 800×40×600mm **1b** PFP-TM – Perforated wall 790×595×25mm.



Maximum load capacity for perforated panel - 50 kg.

Heavy-duty workstations of TM range are equipped with two types of drawers:

A 700×547×100 mm B 700×547×225 mm

	TM-03	TM-04	TM-05	TM-06
number of drawers	1	2	3	4
type of drawers	3 of <mark>B</mark> type	2 of A type 2 of B type	4 of A type 1 of B type	6 of <mark>A</mark> type
	800×800×600 mi		50 kg, (D) per drawer 45 kg	

MOVABLE TABLES AND CARTS MTT-01 MULTIFUNCTIONAL TRANSPORT TROLLEY



1 MTT-01 Multifunctional transport trolley base The set consists of a trolley base and 1 handle.

Wheels set and additional options shall be ordered separately.

Load capacity of the trolley is limited by load capacity of wheels set.

Wheel sets for MTT-01 trolley

- K-125 PBN 2 swivel casters without brakes + 2 non-swivel casters (load capacity up to 300 kg)
- K-125 PTP 2 swivel casters with brakes
- + 2 swivel casters without brakes (load capacity up to 300 kg) - K-200 PTN 2 swivel casters with brakes
- + 2 non-swivel casters (load capacity up to 660 kg)
- K-200 PBN 2 swivel casters without brakes
- + 2 non-swivel casters(load capacity up to t 660 kg) - K-200 PTN 2 swivel casters with brakes
- + 2 swivel casters without brakes (load capacity up to 660 kg)
- 2 MTT-R Handle
- 3 MTT-U handle strengthening set (for one handle)
- 3a Set of connecting pads for bin cabinets.
- 4 MTT-P Protective bars for trolley sides (set of 2)

MTT pre-assembled kits

Multifunctional transport trolley with two tiers of modular bin segments SP-01 / C1 and SP-01 / S-2

Multifunctional transport trolley MTT is supplied either as a modular set where one can choose necessary option according to specific needs or as pre-assembled kits.

- 🚺 Height: 1430 mm 📘 🚺 Load capacity: 660 kg.

Equipment:

- base MTT-R handles
- (2 pcs.) - MTT-U handle
- strengthening set (2 pcs.)
- MTT-P Protective bars for trolley sides
- K-200 PTP wheels set
- bottom connecting pad
- medium connecting pad
- SP-01 / C1 Bin cabinet with 16 narrow bins (2 pcs.)
- SP-01 / C2 Bin cabinet
- with 8 wider bins (2 pcs.) cover.

6 MTT / K-21 pre-assembled kit

Multifunctional transport trolley with side perforated panels.

Height: 1100 mm 1

Equipment:

- base
- MTT-R handle (2 pcs.) - K-125 PTP
 - set of wheels
- MTT-PB large perforated
- (2 pcs.) panel
- MTT-PM small perforated panel (4 pcs.)



Movable tables are used for tools and components storage and transportation. All movable tables are equipped with four 75 mm casters, two of which are with brakes.

650-890 mm (PS-07, PS-10, PS-15)

705-950 mm (PS-07 Comfort)

CODE				
	PS-07	PS-10	PS-15	PS-07 COMFORT
Picture number	2	3	4	5
Load capacity per surface		150 kg		100 kg
Dimensions, W×D	710×515 mm	700×1000 mm	700×1500 mm	710×515 mm
Inner dimensions and usable area of upper shelf	515×710 mm	700×1000 mm	700×1500 mm	515v710 mm
Inner dimensions and usable area of lower shelf	410×710 mm	610×1000 mm	610×1500 mm	410×710 mm



7 GM-PS Gamma movable table

Movable table is used for tools and components storage and transportation. Equipped with four 75 mm casters, two of which are with brakes and three shelves.

10×700 mm 🚺 over

overall up to 200 kg

lower shelf up to 100 kg

For ESD version with turquise (RAL 5021) edges, for technical version - with light gray edges.

Shelves are not height adjustable. Can be additionally equipped with EPA-PS-GM power panel on the back side.

upper shelf 570x700 mm

middle shelf 420x700 mm lower shelf 415x695 mm

9 10 TT-02, TT-03, TT-04 transportation carts



Transportation carts are used for tools and components storage and transportation. Metal carts are equipped with four 75 mm (for TT-02, TT-03 carts) or 125 mm (for TT-04 cart) casters, two of which are with brakes, and height adjustable shelves.

CODE			
	TT-02	TT-03	TT-04
Picture number	8	9	10
Dimensions (W×H×D):	470×990×840 mm	470×990×840 mm	615×1560×1270 mm
Quantity of shelves	2	3	4
Inner dimensions of a shelf	465×665 mm	465×665 mm	615×1270 mm
Usable area per shelf	405×605 mm	405×605 mm	555v1210 mm
Shelves height adjustment	140-800 mm	140-800 mm	165-1465 mm
Load capacity (kg)	100 kg	100 kg	100 kg

When ordering, please mention whether ESD or technical version, and whether dark grey RAL 7012 or light grey RAL 7035 color required.

MOVABLE TROLLEYS



1 AL-ST Equipment trolley

Equipment trolley is designed for additional equipment storage and transportation. It has five height adjustable shelves and a half-size power panel with four sockets and a switch. The panel is located on the side frame thus does not occupy any space on shelves. Equipment trolley side frames are manufactured of aluminum profile, which allows attaching small elements, and gives the whole unit elegant look. Trolley has four casters, two of which are with brakes as supports.

	463×693×1940 mm		0 150 kg		
		nm			
2	ST-05 Movable trolley	3	ST-05 Comfort Movable trolley		

Movable trolleys are used for tools and components storage and transportation.

Each trolley is equipped with five height-adjustable shelves and a power panel with five grounded and one ungrounded socket, and four casters, two of which are with brakes. Lateral position of power panel.

CODE				
	ST-05	ST-05 COMFORT		
Dimensions, W×H×D	600×510×1640 mm	700×470×1635 mm		
lower shelf 460x600 mm four upper shelves 400×600	150 kg			
4 ST-06 Movable trolley				
Movable trolley is used for tools and components storage and transportation.				
Trolley is equipped with five height-adjus	table shelves and four casters, two of which are wit	h brakes. No power panel included.		
600×1605×500 mm	1 50 kg D per shelf 50 kg			
shelf 500x600 mm	for each shelf 420x520 mm			





5 GM-ST Gamma movable trolley



Movable trolley is used for tools and components storage and transportation. Equipped with 5 shelves and a built-in power panel with 5 sockets and a switch.

Four 75 mm casters, two of which are with brakes.



6 SKM Dual movable trolley

Dual Movable trolley for accessories is made of a rack coated with conductive powder paint, thus available only in ESD version. Lower shelf made of ESD laminated chipboard 25 mm thick. Trolley is equipped with four 75 mm casters (2 of them with brakes) and six rails for boxes. Attachable bins should be ordered separately.

Each of 2 sides of bin rails can be additionally equipped with:

- 6 pcs of COCIS-A
- 6 pcs of COCIS-B
- 4 pcs of COCIS-C
- 3 pcs of COCIS-E

680×1600x460 mm 000 kg

7 ST-VR-01 Movable equipment trolley



Convenient equipment trolley with side handle allows tools and equipment storage on upper perforated panel and two lower shelves. All standard hooks (K-01–K10) can be mounted to upper perforated panel.

Movable trolley equipped with four casters, all with brakes.

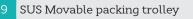
8 ST-R Movable repairing trolley

The trolley is equipped with two-sided 525×600 mm perforated panel above the trolley's tabletop and a drawer unit with five telescoping drawers lower.

- 🙀 of the trolley 600×1730×630 mm
 - of the drawer 500×800м590 mm



for perforated panel 10 kg



Auxiliary trolley, designed for convenient polyethylene, damping film, paper and other packaging materials rolls clamping; maximum roll's width — 1.5 m.

Movable packing trolley equipped with four 50 mm casters, all with brakes.





CABINETS AND WARDROBES



All cabinets have central lock.

Filing and combined cabinets have three or four height adjustable shelves with 50 mm pitches.

For wardrobe and combined cabinets garment bar included.

For SHDZH Sliding shutters cabinets inner dividers included.

For SHKH cabinets 16 (SHKH-2) to 30 (SHKH-1) 360 mm telescoping drawers with inner dimensions of 310×100×360 mm included.

D per surface — 30 kg

PICTURE NUMBER	CODE	DIMENSIONS (W×H×D), MM	WEIGHT, KG	
	SHD-1, SHD-2, S	SHD-3 Filing cabinets		
	SHD-1	1000×1950×550	80	
1 a	SHD-2	820×1850×450	62	
1b	SHD-3	820×1000×450	40	
	SHO-1, SHO-2 V	Vardrobe cabinets		
2	SHO-1	1000×1950×550	68	
	SHO-2	820×1850×450	52	
	SHK-1,	SHK-2 Combined cabinets		
	SHK-1	1000×1950×550	78	
3	SHK-2	820×1850×450	58	
SHKH-1, SHKH-2 Drawers cabinets				
_	SHKH-1	820×1850×450	127	
4	SHKH-2	820×1060×450	69	

https://viking-esd.com





SHH-O modular tools cabinet



Heavy-duty modular cabinet for accessories, metalworking tools and machine-building equipment. The cabinet is equipped with two doors (one metal blank and one with a window of polycarbonate), a lock and

an internal perforated wall, allowing to place K series hooks inside the cabinet i p. 47

Cabinet allows installing additional equipment:

1 HN-SHH-O runners that allow the cabinet movement with a forklift.

2 P-SHH-O Full-size blind shelf that can be installed inside the cabinet.

3 TT-P/VT Half-size shelf with tool storage system for reliable fixation of milling, drilling and CNC lathes tools. Two types of perforation (30 mm and 56 mm in diameter) with protective plastic inserts. **4 TT-B/VT** Half-size shelf with anti-slip rubber and upturns

5 TT-K/VT Half-size shelf with anti-slip rubber.

6 **PFP-SHH-O** additional perforated panel that can be installed to the back wall of the cabinet.

1080×1400×600 mm 🚺 per cabinet 1200 kg 🧕 per shelf 100 kg 🧕 per perforated panel 30 kg

CABINETS AND WARDROBES

6 SHDI-1 Tool cabinet

The cabinet is equipped with 5 pull-out drawers with internal dimensions $435/2 \times 125 \times 525$ mm.

The metal two-door cabinet SDI has a CAM LOCK type lock with pull rods, security is 2000 combinations.

530×1400×605

Π

The load on each drawer is up to 30 kg





7 SHO-3 Two-section garment wardrobe

Two-section garments wardrobe is equipped with four shelves (two for each section), 2 rods with hooks for garments and additional perforation that provides ventilation of the inner zone.

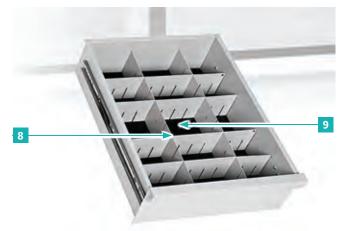




Dividers for type SHKH drawers (360×100×310 mm). The set consists of two longitudinal and four transversal dividers. Up to 15 different sized cells can be organized.

9 KD/SH mat

ESD mat that should be ordered separately if drawers dividers set is being ordered for technical version cabinets. KD/SH mat is necessary to provide drawers dividers set stability and reliability.









Shelvings

	<image/>
3, 4 STU Shelving	5 STS Reinforced chelving
Shelving is used for documents and components storage. Shelvings (except for the STU-01) have height-adjustable supports and five height adjustable shelves with 50 mm pitches.	Height-adjustable supports. Four height adjustable shelves with 50 mm pitches. No additional floor leveling required. per shelf - 350 kg per unit - 800 kg
For STU-01 there are six height adjustable shelves with 50 mm	D per shelf - 350 kg
pitches.	Nº CODE
$\boxed{\underline{0}}$ per shelf — 30 kg $\boxed{\underline{0}}$ per unit — 180 kg for STU-01	Dimensions, mm
D per unit — 110 kg for STU-05	5 51512 1200×1800×600 5 5TS-15 1500×1800×600

CODE STU-01 3 820×1850×450 STU-05 1000×1950×490 4

When ordering, please mention whether ESD or technical version, and whether dark grey RAL 7012 or light grey RAL 7035 color required.

per shelf - 350 kg			
Nº	CODE		
		Dimensions, mm	
5	STS-12	1200×1800×600	
-	STS-15	1500×1800×600	

PL-1, PL-2, PL-STS-12, PL-STS-15 Additional shelves

¢°	
	 -

Additional shelves for cabinets and shelving

SHELF	TO BE USED FOR
PL-1	SHD-1, STU-05
PL-2	SHD-2, SHD-3, STU-01
PO-STS-12	STS-12
PO-STS-15	STS-15

1

1670 mm

2

4

MODULAR COUNTERS

MODULAR TURNTABLE COUNTER





Turntable modular storage counter is a practical and high-capacity solution for components and tools keeping, that provides convenience of its usage in different production processes.

Turntable modular counter is equipped with bin cabinets containing two types of plastic bins: narrow and wide.

- narrow bins with up to of 2.4 liter volume

	394×92×81 mm	Ō	7.5 kg
wide	bins with up to 4.3	liters	volume
	70/~19/~91 mm		10 kg

Turntable modular storage counter can be ordered as a complete

Modular storage counter in ESD version contains black antistatic

Full modular counter set consists of eight bin cabinets, each with 16 narrow bins and eight bin cabinets, each with 8 wide bins and technical connecting/turntable set. Full modular counter set is easily assembled of 16 bin cabinets placed in four levels, whereas each

800×1670×800 mm 🚺 500 kg 🛃 200 kg
2 SP-01/S-1
Bin cabinet with 16 narrow bins.
🙀 395×400×400 mm 😿 9.5 кг
3 SP-01/S-2
Bin cabinet with 8 wide bins.
🔬 395×400×400 mm 👩 9.5 кг
4 SP-01/K
Technical modules set that consists of
1— turntable base,2— 3 connecting pads,
3 — top lid.

SP-01/S-1, SP-01/S-2 and SP-01/K modules are necessary to built up a customized modular set.

Standard SP-01 set includes technical pads, base and top lid.

When ordering, please mention whether ESD or technical version required.

MODULAR STATIONARY COUNTER

1

600 mm

2

3

395 mm



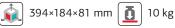
Stationary modular storage counter is a practical and compact solution for components and tools keeping, that can be placed anywhere in production hall.

Stationary modular counter is equipped with bin cabinets containing 2 types of plastic bins: narrow and wide.

- **narrow** bins with up to of 2.4 liter volume



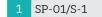
- wide bins with up to 4.3 liters volume



395×400×400 mm

Modular storage counter in ESD version contains antistatic plastic bins.

Stationary modular storage counter is ordered in parts, bin cabinets and technical connecting pads separately. Maximum of 4 bin cabinets can be placed in a column.



Bin cabinet with 16 narrow bins.



2 SP-01/S-2

Bin cabinet with 8 wide bins.





3 SP-01/PM

Connecting pad for bin cabinets.

Ordered if several bin cabinets need to be placed on one another to provide safer junction.

4 SP-01/C-1/D Dividers for narrow cases of the modular counter

They allow dividing the space inside a case. Max. 6 dividers can be places in one case.

5 SP-01/C-2/D Dividers for wide cases of modular counter

The allow dividing the space inside a case. Max. 6 dividers can be placed in one case.

SP-01/PPT Movable modular counter support

Movable modular counter support is designed to provide the mobility to modular counters. It has 4 casters with 50 mm diameter, 2 of which are with brakes. The stand can sustain 4 drawer units, which are established at each other.







DRY STORAGE CABINETS



DC ESD series dry storage cabinet is a line of special equipment designed to provide ultra-low ranges of relative humidity, which is necessary for handling moisture-sensitive components and materials including precision metal parts, printed circuit boards, plates, nano fibers, cassettes, laboratory samples, electronic modules.

All DC ESD series cabinets produced only in antistatic (ESD) version, in strict compliance with ESD safety regulations of IEC 61340-5-1. For dry storage cabinets we use only specific ESD glass with conductive surface (conductivity 10³ – 10⁵ Ohm) and ESD wheels. All the shelves and horizontal surfaces of the cabinet are grounded and ESD coating of all metal elements is applied.

All cabinets are supplied in a set with one middle standard or shortened shelf for each section. All cabinets except for 1-section version are supplied in a set with ESD wheels. Each section has a separate key.

DC ESD series dry storage cabinets feature low noise level and equipped with temperature and humidity levels indication and door alarm system.

CODE	DC-1 ESD	DC-2 ESD	DC-3 ESD	DC-4 ESD	DC-6 ESD
Picture number	1	2	3	4	5
Number of doors	1	2	3	4	6
Dimensions, W×H×D, mm	600×737×640	600×1342×640	600×1947×640	1205×1342×640	1205×1947×640
Capacity, liters	238	454	670	900	1340
Weight, kg	58	100	131	160	227
Number of standard shelves in default version of the cabinet A	0	1 <mark>A</mark>	2 <mark>A</mark>	2 <mark>A</mark>	4 <mark>A</mark>
Number of shortened shelves in default version of the cabinet a	1 <mark>a</mark>	1 <mark>a</mark>	1 <mark>a</mark>	2 <mark>a</mark>	2 <mark>a</mark>
Max. recommended quantity of shelves per cabinet (A , a)	2 <mark>a</mark>	1 A 3 a	3 A 3 a	4 A 4 a	6 <mark>A</mark> 6 a

All DC series cabinets are equipped with RS-232 that allows data collection. One should simply connect DC dry cabinet to a computer using standard cable.

DC series cabinets feature humidity & temperature display with parameter value input on easy-to-operate three buttons digital control LCD-panel.

Humidity and temperature monitoring is performed by the built-in precision sensor with digital interface, processor and LCD display. Monitoring is performed by a sensor, based on CMOS technology, each sensor is being factory calibrated prior to installation.

DC ESD series dry cabinets are available in:

White RAL 9010 (code DC-W ESD, for example DC-3W ESD for 3-doors white cabinet)

Light grey RAL 7035 (code DC-G ESD, for example DC-6G ESD for 6-doors grey cabinet)

Black RAL 9005 (code DC-B ESD, for example DC-1B ESD for 1-door black cabinet)

TECHNICAL&ESD FURNITURE DRY STORAGE CABINETS



TECHNICAL SPECIFICATIONS	VALUE	
Humidity range	1-50%	
Precision	±1%	
Absorption of moisture	automatically regenerated absorbent (Zeolite)	
Max. dimensions of units to store	Width up to 500 mm, Heights up to 510 mm, Depth up to 570 mm*	
Door alarm	integrated	
Supply voltage	220 ± 22 V	
Max. power consumption		
Storago phago	20 watt/hour for DC-1, DC-3, DC-3	
Storage phase	30 watt/hour for DC-4, DC-6	
	210 watt/hour for DC-1, DC-3, DC-3	
Regeneration phase	240 watt/hour for DC-4, DC-6	
IP protection class	IP 55	

* separate numbers for each dimension

Desiccation and recovery time

Recovery Time – is one of the most critical performance parameters of any dry storage cabinet, it refers to the time required for the cabinet to reduce the RH level back to its set point after the door been opened and closed.

CODE	DC-1	DC-2	DC-3	DC-4	DC-6
Desiccation time, mins					
from 50% to 1% RH	45	96	100	75	80
from 50% to 5% RH	12	55	60	37	40
Recovery time for humidity level after the door be	een opened and clos	ed, mins			
up to 10% RH after opening the door for 10 sec*	3	3	4	1	1
up to 5% RH after opening the door for 10 sec*	7	7	8	3	3
up to 3% RH after opening the door for 10 sec*	13	14	15	6	7
up to 1% RH after opening the door for 10 sec*	16	23	25	12	13
up to o 1% RH after opening the door for 20 sec*	19	32	35	16	18
Number of cabinet door openings per hour					
at a set relative humidity level of 3%*	4	4	3	8	7

* Test measurements were carried out without containers inside an empty cabinet, at a relative humidity of 50% RH and a temperature of 25 °C

DRY STORAGE CABINETS

Additional equipment

- 1 Swivel supports (to replace casters)
- 2 C-DC Light tower
- 3 SHW-DC/ SHG-DC/ SHB-DC Additional shelves
- 4 SHB-SH-DC/ SHG-SH-DC/ SHW-SH-DC
- Additional shortened shelves
- 5 DC-A2-B/DC-A2-W/DC-A2-G Automatic nitrogen unit
- 6 DC-AW, DC-AB, DC-AG Manual nitrogen unit
- 7 SCO-W-DC/SCO-G-DC/SCO-B-DC Reels adjustable rack
- 8 LIW-DC/LIB-DC/LIG-DC Shelves limiters
- 9 VHM software
- 10 LED-DC Inner LED indicative lighting (5 types)
- 11 USC-DC/USS-DC Sliding shelves
- 12 USB-DC, optional USB port
- 13 SE-DC shelves separators

8 LIW-DC/LIB-DC/LIG-DC Shelves limiters

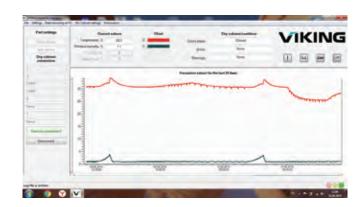


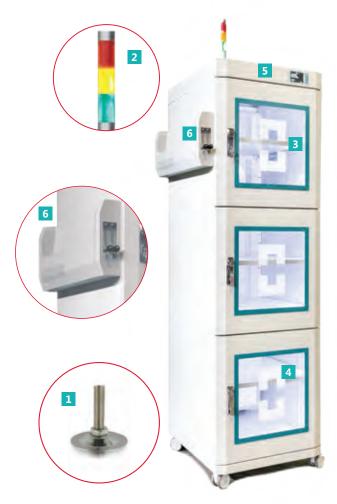
Mounted on a standard dry storage cabinet shelf. Limits the inner space of the shelf for components storage. Can be installed in both positions – along and across the shelf.

Available in:				
White	RAL 9010	(code LIW-DC)		
Light grey	RAL 7035	(code LIG-DC) or		
Black	RAL 9005	(code LIB-DC)		

9 VHM software

VIKING humidity manager is a user-friendly software that helps the operator to be aware of the storage conditions; records dry cabinet data and allows checking the graphs over a period of time.





SCO-W-DC/SCO-G-DC/SCO-B-DC SMD Reels adjustable rack



SMD Reels adjustable Rack is mounted on a standard dry storage cabinet shelf. Allows organizing three rows for 82-215 mm diameter SMD reels. Minimum width of each cell is 27 mm. Available in:

WhiteRAL 9010(code SCO-W-DC)Light greyRAL 7035(code SCO-G-D) orBlackRAL 9005(code SCO-B-DC)

10 LED-DC Inner LED indicative lighting

indicative lighting helps to quickly check the cabinet's current status:

- Green indicates the cabinet proper functioning and targeted relative humidity/O2 level,
- **Yellow** cabinet is in recovery mode (for example, after opening the door),
- **Purple** the cabinet is working in nitrogen supply mode before reaching O2 level,
- Flashing red when the door is being opened for more than 30 sec,
- **Red** reports critical errors in cabinet operation,
- Cold white
 - **te** when opening the door or when changing the cabinet settings.



11 USC-DC/USS-DC Sliding shelves





SEW-DC/SEB-DC/SEG-DC shelves separator

Sliding shelf is a kit containing two sections with sliding mechanism, upper section is equipped with upturns for components and assemblies' storage, lower section is a narrow case for documents storage.

SE Shelf separator fits any standard/shortened shelf of dry storage cabinet, allows to divide the space inside the cabinet. Separator size 100 × 550 mm

DC ESD dry cabinets meet or exceed international standards: IPC / JEDEC J-STD 033C «Handling, Packing, Shipping and Use of Moisture/Reflow Sensitive Surface Mount Devices»; IPC / JEDEC J-STD-020C «Moisture/Reflow Sensitivity Classification for Nonhermetic Solid State Surface Mount Devices»; EIA / IPC / JEDEC J-STD-075 «Classification of Non-IC Electronic Components for Assembly Processes».



SIMPLIFIED VERSIONS OF DC DRY STORAGE CABINETS LINE



VIKING

DC Light DCL-3 ESD, DCL-6 ESD are 3-sections and 6-sections simplified and more affordable versions of DC dry cabinets product line. The Light line also includes DCLN-3G ESD unit with automatic nitrogen supply equipment.

They provide ultra-low ranges of relative humidity and quick recovery.

DCL-3G ESD and DCL-6G ESD series 6-sections dry storage cabinet allows handling moisture-sensitive components and materials in 3 / 6 sections. Shelves of a 6-sections cabinet can be installed in a checkerboard order, each two horizontally located sections have joint non-separated space.

The DC Light series cabinets have the same excellent technical specifications as the main line of DC dry storage cabinets: maintaining the precise humidity level and quick dehumidification, but feature a simpler lightweight frame and fewer additional features and options.



CODE	DCL-3 ESD	DCL-6 ESD
Recovery from 50% to 1% RH	100 min	80 min
Recovery from 50% to 5% RH	60 min	40 min
Average time to recover humidity to 10% RH after 10 sec door opening *	4 min	1 min
Average time to recover humidity to 5% RH after 10 sec door opening *	8 min	3 min
Average time to recover humidity to 3% RH after 10 sec door opening *	15 min	7 min
Average time to recover humidity to 1% RH after 10 sec door opening*	25 min	13 min
Average time to recover humidity to 1% RH after 20 sec door opening *	35 min	18 min

* - the experiment was carried out without containers inside the dry cabinet, at 50% RH relative humidity and a temperature of 25 °C

DCL ESD models supplied with a grounding cord that should be connected to the ground at the breaker box after installation of the cabinet. The front panel of the Viking DC Light dry storage cabinet has a button to attach grounding strap.

DC light dry storage cabinets are only available in light gray (RAL7035).

DC light series dry storage cabinets are equipped with audible signaling of the cabinet doors opening, it works when one of the DC cabinet doors are being opened for more than 30 seconds.

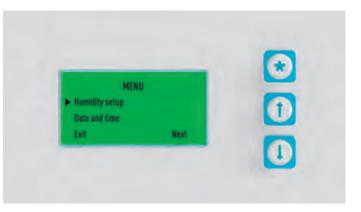
Additional equipment

- C-DC Light tower
- SHG-DC Additional shelves
- SHG-SH-DC Additional shortened shelves
- SCO-G-DC Reels adjustable rack
- LIG-DC Shelves limiter
- VHM software
 - SEG-DC shelves separator

Technical specifications

Control panel with a monochrome graphic display and three control keys is located on the top front side of the cabinet.

DC light cabinets are equipped with an RS-232 port, providing the possibility to connect the cabinet with a PC and use VIKING Humidity manager software.

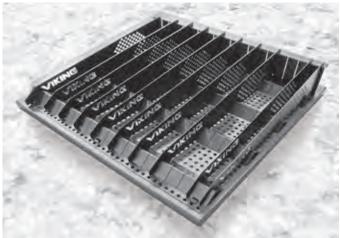


code →	DCL-3 ESD	DCL-3 ESD	DCLN-3 ESD	
Number of sections	3	6	3	
Number of shelves in a set	2 standard 1 shortened	4 standard 2 shortened	3 standard	
Load capacity per shelf, kg		45		
Capacity, liters	670	1340	670	
Weight, kg	103	182	103	
Depth, mm	640			
Width, mm	600	1205	600	
Height (with wheels, without wheels)	2023/1947			
Humidity range	1-50%			
Precision	±1%			

LIG-DC Shelves limiter



SCO-G-DC Reels adjustable rack



ESD CHAIRS



VKG C-200 ESD

VKG C-300 ESD



AESD laboratory chair, covered with static dissipative fabric, can be equipped with five conductive glides or five ESD casters. Can be also equipped with KT type ESD armrests, footrest and enlarged gaslift on request.

- Back angle adjustment
- Seat height adjustment: 43-63 cm
- Available colors: grey and blue



ESD laboratory chair, covered with static dissipative fabric, can be equipped with five conductive glides or five ESD casters. Can be also equipped with KT type ESD armrests, footrest and enlarged gaslift on request.

- Back and seat angles adjustments
- Seat height adjustment: 43-63 cm
- Available colors: grey and blue

VKG C-320 ESD



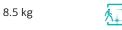
ESD laboratory chair with conductive incombustible polyurethane upholstery can be equipped with five conductive glides or five ESD casters. Can be also equipped with KT type ESD armrests, footrest and enlarged gaslift on request.

Back angle adjustments

VKG C-330 ESD

6

Seat height adjustment: 43–63 cm





ESD laboratory chair with conductive incombustible polyurethane upholstery can be equipped with five conductive glides or five ESD casters. Can be also equipped with footrest and enlarged gaslift on request. – Back angle adjustments

- Seat height adjustment: 43–63 cm



ESD laboratory chair with conductive incombustible polyurethane upholstery can be equipped with five conductive glides or five ESD casters. Can be also equipped with KT-2 type ESD armrests, footrest and enlarged gaslift on request.

Back angle adjustments

- Seat height adjustment: 43-63 cm

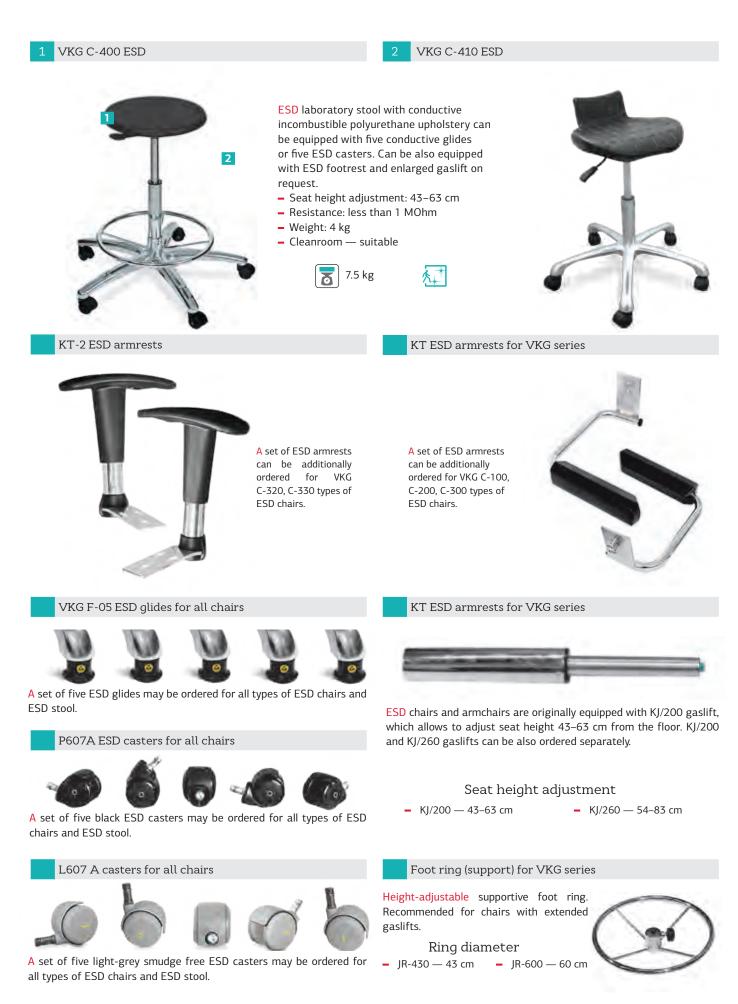


ESD laboratory chair with conductive incombustible polyurethane upholstery can be equipped with five conductive glides or five ESD casters. Can be also equipped with KT-2 type ESD armrests, footrest and enlarged gaslift on request.

- Back and seat angles adjustments
- Seat height adjustment: 43-63 cm



Technical&ESD furniture ESD chairs



STREAM 280-SY



- 5 Cm cold-foam seat and 3.5 Cm cold-foam backrest
- Seat height adjustment : 43 cm -54 cm
- Available in 2 colors (black and grey)
- Extra strong aluminum 5-star base provides 120 kg load capacity
- Available in both esd and technical versions

STREAM 280-SY ESD Armchair is designed especially for workplaces where antistatic environment is required. It also provides individually adjustable ergonomic sitting.

5 years warranty guaranteed.

Can be equipped with ESD glides, ESD casters, armrests, higher gaslift with foot ring.

For safety reasons a model equipped with higher gaslift and foot ring available only with glides.

GS CERTIFICATE

fulfills standards:

- DIN EN 1335-1:2002-08 + B1:2002-11
- DIN EN 1335-2:2010-01
- DIN EN 1335-3:2009-08
- DIN EN 13761:2002-12

ERGONOMIC CERTIFICATE fulfills the standard: - DIN EN ISO 9241-5:1999-088

TOX FREE CERTIFICATE polutant free:

- Cadmium Formaldehyd
- PAK Azodyes

Accessories for STREAM 280-SY

BR-207-1-CHR

Height-adjustable black nylon armrests, polypropylene arm pads. - BR-AL-CHR-ESD conductive type - BR-207-1-CHR —

insulating type

- - Aluminum armrests with fixed shape and height.

BR-AL-CHR-ESD



- Set of higher gaslift with foot ring
- Can be equipped with esd glides only
- Seat heigth 65–93 cm



R-SK Changing room bench

R-SK Changing room benches are simple and costeffective solution for changing rooms and dressing rooms, supplied in technical and ESD versions. Changing room benches feature reinforced robust

construction and can be height adjusted.

455 (1) of th

455 - 735 mm from floor level

of the seat 1500x400 mm

👩 up to 400 kg

VKG TOOLS ANTISTATIC EQUIPMENT

VKG A-2000 TURNSTILE ACCESS CONTROL SYSTEM TO ESD PROTECTED AREA





Technical specifictions

MODEL	VKG A-2000
Max quantity of identity cards in the system, pcs	5000
Time for wrist straps and shoes testing, sec	2
Direction of entry	both directions
Wrist strap control on/off mode*	included
Identity cards type	EmMarine
Data exchange interface	RS-485
Wrist strap connector types	15 mm button3273-I-J jack
Operating conditions	
Temperature, °C	15 to 35 °C
Relative humidity at 30 °C	less than 75%
Max. power consumption	220 ± 20
Dimensions, mm	280 × 990 × 1110
Dimensions with testing plate, mm	280 × 990 × 1545
W 3273-I-J jack eight, kg	50 кг

VKG A-2000 EPA access control system produced on a basis of a three-bar automatic turnstile.

VKG A-2000 access control system consists of an automatic turnstile, a built-in testing device, an access cards reader, an ESD shoes testing plate and a software that provides an operational check of ESD shoes and wrist straps for ESD standards compliance. VKG A-2000 system ensures that only employees with appropriate & functional personnel grounding are allowed to enter the EPA.

Once the employee's card has been identified and the wrist strap and shoes test has been successfully completed, the employee is given access to the EPA. If the test fails, access to the ESD area is not provided.



VKG TOOLS Access Manager Software

*switched by a toggle switch in the electronics compartment

or using VKG TOOLS Access Manager software.

The VKG TOOLS Access Manager software allows to flexibly configure employee access levels and generate reports.

The software includes two levels:

- VKG TOOLS Access Manager

Administrator allows you to add / remove employees, assign and program access levels, generates reports

- VKG TOOLS Access Manager

Operator monitors in real time the information about employees entries through the A-2000 system, generates reports

VKG A-2000 turnstile access control system to ESD Protected Area supplied in a set:

- A-2000 EPA Access Control turnstile with ESD shoes testing plate
- Operation manual
- USB-stick with VKG TOOLS Access Manager software.

Additionally supplied:

- control panel for turnstile remote unlocking
- EmMarine format access cards

GROUNDING EQUIPMENT



VKG A-9400 Connecting plug for grounding cables



White connecting plug for grounding cables with 1 MOhm resistor.

VKG A-3146 Grounding unit



Two 10 mm buttons ground wrist straps and devices via junction block.

Wrist strap coil cords



 $1~M\Omega$ resistor (Wrist strap connection side). Types of connections to fit most grounding systems worldwide. Female stud connections. Black color. Suitable to connect to a ground via VKG G-1

CODE		
	DESIGNATION	CORD LENGTH
30-560-0604	6' COIL CORD 4 mm / banana + crocodile clip	1.80 m
30-560-1004	12' COIL CORD 4 mm / banana + crocodile clip	3.00 m
30-560-0641	6' COIL CORD 4 mm / 10mm	1.80 m
30-560-0614	6' COIL CORD 4 mm / GSGS	1.80 m
30-560-0645	6' COIL CORD 4 mm / 4.5 mm	1.80 m
30-560-1014	10' COIL CORD 4 mm / GSGS	3.00 m

GROUNDING EQUIPMENT

VKG KH 4060, VKG KH 6090, VKG KH 12060 ESD mats



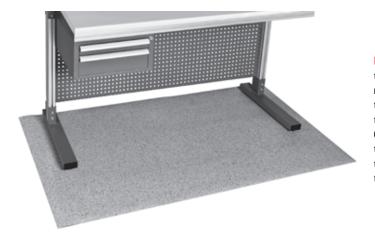
Fire-resistant and solder-resistant ESD mats.

Supplied in a set

- with grounding cord.
- Antiglare matte surface
- Colors: blue, grey

$CODE \rightarrow$			
	VKG KH 4060	VKG KH 6090	VKG KH 12060
Dimensions	400×600 mm	600×900 mm	1200×600 mm
Charge decay time	Less than 0.04 sec		
Typical resistance to ground	10 ⁵ 10 ⁹ Ohm		

Antistatic Floor Mat TOROSTAT



Double-layer anti-static floor mat 2.5 mm thick, abrasion resistant, sound-absorbing, non-flammable, thermally stable, dissipative top layer and conductive bottom layer: dripping time charge from 1000 V to 50 V in less than 0.5 seconds, the resistance of the ground — less than 100 M Ω , the combined resistance — less than 35 M Ω . Various dimensions: 150 mm×200 to 1000×10000 mm.

ESD Wrist straps



VKG A-2202	conductive fabric wrist strap
	with 4 mm button and a 4 mm
	to 10 mm buttons cord
VKG A-2202-0	conductive fabric wrist strap
	with 4 mm button
VKG A-2210	conductive metal wrist strap
	with 4 mm button and a 4 mm
	to 10 mm buttons cord
VKG A-2210-0	conductive metal wrist strap
	with 4 mm button

PUREX FUME EXTRACTION SYSTEMS



The soldering process itself can produce some harmful fumes. These fumes can cause occupational asthma, long-term carcinogenic diseases and other serious complaints. The result of these illnesses can be expensive compensation claims from employees, long-term sickness and poor employee relations, plus heavy penalties from enforcement agencies.

Purex fume extraction systems are designed in conjunction with some of the world's largest Contract Electronics Manufactures and Equipment Providers to help:

- Prevent damage to production machinery.
- Reduce downtime for cleaning and maintenance.
- Protect personnel from harmful fumes.
- Reduce product rejects due to poor production performance.
- Maintain a constant extraction rate to ensure stable temperature profiles.
- Deliver long filter life.
- Interface with the production equipment.

Fume Cube line units are used for:

- Soldering assembly
- Gluing and chemical treatments
- Laboratory/cleanroom tasks
- Rework and repair
- The FumeCubeLITE is a low cost, portable system for one or two users, Fume Cube and Fume Cube 2 are more sophisticated and functional arm extraction and purification systems, which are used to protect personnel from hazardous particles and fumes.

System Features:

- Precision made from stainless steel
- Low capital and running costs
- Quick change pre-filters deliver longer filter life
- Submicronic (HEPA) filtration removes 99.997% of particles down to 0.3 microns
- Activated carbon filtration removes harmful gas
- Simple to install and quiet in operation
- Easy to relocate
- Optional interfacing option

TECHNICAL FEATURES

Voltage (V)	230 (120)
Frequency (Hz)	50/60
Wattage (kW)	0.14 (0.107)
ON/OFF switch	On rear
Power cable	2 m
Noise intensity, dBA	60
Dimensions (mm):	308×294×366









	FUMECUBELITE	FUMECUBE	FUMECUBE 2
Picture number	1	2	3
Code	072100	072066	072065
Number of arms	1 or 2	1	2
Filters pre-installed	Pre filter pad	Pre filter pad + main HEPA/Chemical filter	
Warning system	—	VariColour filter blocked warning system	
Airflow	Fixed airflow — 190m³/hr in free air	Automatic flow control and speed control (adjustable airflow)	
Arm kit	One or 2 pieces of 100294, 100295 or 100295 ESD kits should be ordered separately		

100294 Kit



Optional accessories

TYPE OF ACCESSORIES	
	ORDERING CODE
Remote ON/OFF switch	ТВА
FLEXIBLE ARM KIT with Screw Bracket without Conical cowl and Pen-nib nozzle	100294
FLEXIBLE ARM KIT with Clamp Bracket	100295
FLEXIBLE ARM KIT- ESD Version with Clamp Bracket	100295 ESD
Cleanroom filters	110538
Chemical filters	110537
Double chemical filters	110536





Wide range of fume extractors for laser engraving, tip extractions, reflow or wave soldering up to 36 arms, 50 iron tips and over 3000 m³/hr is available. Ask us for more details.

100295 Kit



ESD STORAGE AND PACKAGING

Standardized ESD trays for boards and components storage



Nº	CODE	DIMENSIONS	DIMENSIONS OF EACH CELL	THICKNESS	NUMBER OF CELLS
1	24-204-0650	330×250×50 mm	66×56	3,0 mm	12
2	24-204-1486	350×225×20 mm	44,57×46,86	3,0 mm	24
3	24-204-2273	350×225×20 mm	48×208	3,0 mm	6
4	24-204-2531	350×225×20 mm	97,2×45,9	3,0 mm	12
5	24-204-2532	350×225×5 mm	Cover*	1,2 mm	24
6	24-204-2533	210×210×24 mm	192×192	1,2 mm	1
7	24-204-2819	210×210×24 mm	36×36	0,8 mm	25
8	24-204-2820	210×210×24 mm	36×15	0,8 mm	50
9	24-204-2821	295×120×60 mm	100×275	1,5 mm	1

ESD trays are used for storage, transport and packaging of boards, components and finished units of electronic assembly. Made of conductive carbon-loaded PS —dissipative material resistance $\leq 10^4 \Omega$. Color — black.

* Cover for trays 24-204-2273, 24-204-2274, 24-204-2531, 24-204-2532

DESKTOP STORAGE SYSTEMS

NPP Desktop swivel plate





NPP-45 — a 450 mm rotary platformbase. Height — 18 mm



NPP-55 — a 550 mm rotary platform-base. Height — 18 mm

The modular system allows to combine several types of tabletop turntables for electronics assembly works. NPP modular desktop swivel system combines several types of tabletop turntables to simplify various works in electronics assembly.



NPP/P-45 — a 450 mm diameter two-level turntable platform with an upper plate, it can be additionally equipped with 4 Cocis A type bins and 4 Cocis B type bins. Height — 100 mm



NPP/P-55 — a 550 mm diameter two-level turntable platform with an upper plate, it can be additionally equipped with 6 Cocis A type bins and 6 Cocis B type bins . Height - 100 mm

MOQ 100 pieces

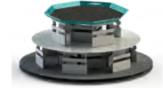


The system produced in 2 sizes:

- with a 450 mm rotating base
- with a 550 mm rotating base



NPP/L-45 — a 450 mm diameter two-level turntable platform with an upper tray, it can be additionally equipped with 4 Cocis A type bins and 4 Cocis B type bins . Height - 109 mm



NPP/L-55 — a 550 mm diameter rotary three-level turntable platform with an upper tray, it can be additionally equipped with 10 Cocis A type bins and 10 Cocis B type bins. Height 196 mm

! Plastic ESD bins for the system shall be ordered separately

ANTISTATIC STORAGE

COCIS antistatic bins



Conductive ESD bins are used for small components and tools storage. Made of antistatic polypropylene. Can be easily attached to bin rails or fitted for free standing on a grounded surface. Bins of equal width can be stacked on one another.

CODE		
	OUTER DIMENSIONS	INNER DIMENSIONS
COCIS-A	107 × 98 × 47 mm	92 × 83 × 42 mm
COCIS-B	170 × 105×75 mm	130 × 93 × 68 mm
COCIS-C	250 ×150 × 130 mm	185 × 135 × 122 mm
COCIS-E	350 × 230 × 150 mm	265 × 206 × 140 mm

2	

Conductive Polypropylene Containers

- Thickness 2.5 mm
- Delivered unassembled
- Apertures for easy carrying on each side

CODE - BOX		
	CODE - LID	OUTER DIMENSIONS (MM)
23-175-7108	23-175-7110	400 × 300 × 180
23-175-7109	23-175-7110	400 × 300 × 228
23-175-7104	23-175-7106	600 × 400 × 180
23-175-7105	23-175-7106	600 × 400 × 228

Modular ESD trays



Standard range of trays with a set of modular dividers. This new item will reply to various need for convenient storing and transporting small PCB's on sensitive components.

Stackable tray for components storage with transparent lid and removable dividers that should be ordered separately. Lid and dividers are clipped on the tray.

The system with dividers provides the possibility to organize 2 to 204 cells for components storage. Minimum size of the cell is 15×15 mm

TYPE OF UNIT				
	ESD TRAY FOR PCB'S	TRANSPARENT LID FOR THE TRAY	SHORT DIVIDERS (11 NOTCHES)	LONG DIVIDERS (15 NOTCHES)
Code	24-401-9428	24-213-9429	23-177-9431	23-177-9430
Material	Dissipative PS	Clear APET	Conductive PS	Conductive PS
Thickness, mm	1.5	0.8	1.8	1.8
Dimensions, mm	355×255×36	355×255×5	247×2×30	347×2×30

Useful height of the tray with lid — 28 mm

79

ESD magazines



Vertical pitch 10 mm

- Width adjustable by 5 mm pitch
- Strong construction from thermoformed plastic with metal reinforcement
- Light in weight and extremely rigid
- Assembled using rivets and ultrasonic welding
- Each groove is numbered
- Each magazine is delivered with a partition

2 versions available:

- PS for a 60°C heat resistance
- ABS/PC for 110°C heat resistance

PS magazines

Extra partitions and lids available on request.

CODE			
	DIMENSIONS	РСВ	CODES FOR ADJUSTABLE PLATES
22-150-0943	320×350×560	247	97-001-0003
22-150-1154	370×370×560	297	97-001-0003
22-150-1187	400×425×560	327	97-001-0001
22-150-0817	420×460×560	357	97-001-0001
22-150-0891	450×425×560	377	97-001-0007
22-150-1083	470×480×560	397	97-001-0007

ABS/PC magazines

Extra partitions and lids available on request.

CODE			
	DIMENSIONS	РСВ	CODES FOR ADJUSTABLE PLATES
22-151-0943	320×350×560	247	97-011-0005
22-151-1154	370×370×560	297	97-011-0005
22-151-1187	400×425×560	327	97-011-0001
22-151-0817	420×460×560	357	97-011-0001
22-151-0891	450×425×560	377	97-011-0003
22-151-1083	470×480×560	397	97-011-0003



Quickfill Magazine

Quickfill magazines meet standard dimensions most frequently used on automated lines. Strong injection molded construction with metal reinforcement (top and bottom). Standardized plate that fits most popular brands on the market.

- Not subject to accidental change in width; no wear of moving parts
- Partition made of assembled plastic parts
- This system provides a better dimensional stability when strong temperature variations
- Meant for 50 PCB's

Material: Conductive PS (60°C heat resistance) or ABS/PC (110°C heat resistance) for plastic parts, galvanized Iron for metal parts.

DIMENSIONS	MATERIAL VERSION	MIN./MAX. PCB SIZE
460×400×563	PS	50/300
355×320×563		50/250
460×400×563		100/310
535×460×570		50/390
535×530×570		120/460
460×400×563	ABS/PC	50/300
355×320×563		50/250
535×460×570		50/390
	460×400×563 355×320×563 460×400×563 535×460×570 535×530×570 460×400×563 355×320×563	460×400×563 355×320×563 460×400×563 535×460×570 535×530×570 460×400×563 355×320×563 ABS/PC

CATALOG LEGEND



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TECHNICAL & ESD FURNITURE ANTISTATIC EQUIPMENT DRY STORAGE CABINETS





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