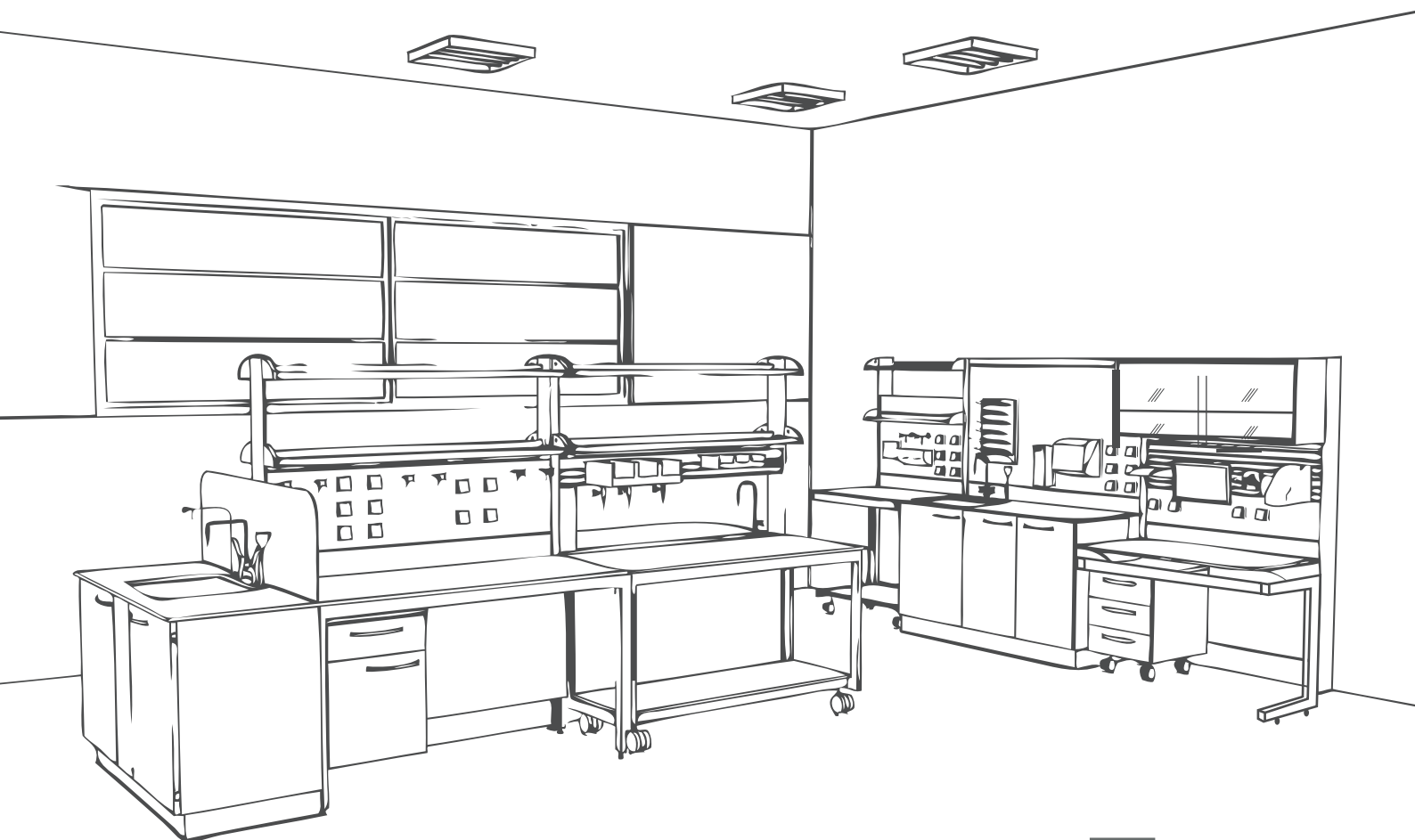


# Mosaic

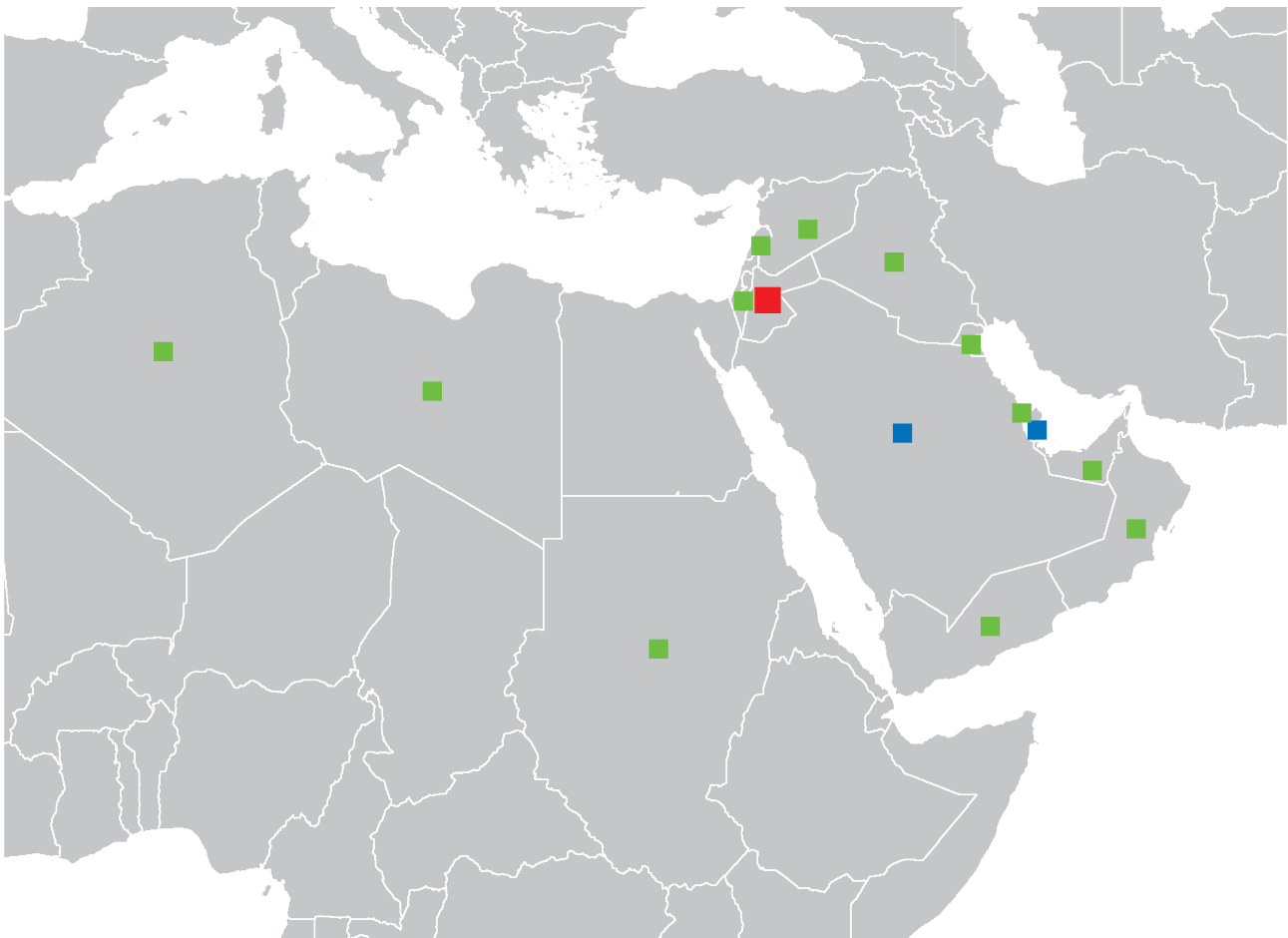
laboratory furniture system


Catalogue 2013



Protech

# Your Neighborhood Expert



 Headquarters and Manufacturing Facilities

 Offices

 Jordan

 KSA

 Qatar

 Reference Projects


 Jordan

 UAE

 Oman


 KSA

 Kuwait

 Yemen

 Qatar

 Lebanon

 Bahrain

 Sudan

 Palestine

 Libya

 Iraq

 Syria

 Algeria

Welcome To **Protech**

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## About Us

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For the past two decades, **Protech** has provided the local and regional markets with the highest quality of laboratory furniture systems and specialized solutions. By focusing on every project, we are able to create long term value for our customers.

Located in Jordan, the heart of the Middle East, we work closely with engineers, designers, clients, and contractors to provide laboratory furniture solutions on time and within budget.

At **Protech**, being responsive means listening to what our customers say their needs are, and deliver a complete solution that is specific to their needs today, and in the future. As a result of the way we approach our business we are rewarded with customer loyalty and trust.

We believe that our laboratory furniture should be designed to solve the problems faced by customers every day. This is why we seek our customer feedback throughout the entire design process.

Durable material choices, precise engineering, and lean manufacturing practices allow us to offer products that are intended to have a long life.





## Quality

We benchmark our quality against the highest international standards to ensure that our clients receive world class quality products.

After twenty years in the industry, we uniquely understand our clients' needs and utilize the world's finest raw materials, accessories and fittings to produce exceptional laboratory furniture solutions. Since meeting all requirements as an industrial company, **Protech** has been awarded the International Quality Certificate ISO 9001:2008.



## Research & Development

We continuously innovate our systems and processes by coupling our engineers' specialized expertise and years of experience with new scientific findings and functional trends in the laboratory technology industry. We pay attention to every single detail, providing tailor-made solutions that meet our clients' requirements and budgets.

Our R&D function is considered our core operation function which empowers our pursuit for continual innovation and cutting edge standards. As part of its dedication to R&D, **Protech** has established an in-house laboratory facility to conduct tests to new products and materials.

# Safety

We test all of our products to ensure that they meet international standards for safety and quality.

Our commitment to safety is reflected in our choice of high-grade materials and carefully planned procedures, ensuring that our product users are working within the safest possible environment at all times.



## Design & Engineering

Abiding by international guidelines and regulations, **Protech**'s specialized engineers and design team work seamlessly to deliver integrated consulting services including project planning, layout design, 3D drawings, specifications, and estimated budget.

Through our multitude of configuration options, we offer our clients the option to customize their laboratory furniture solutions according to their precise needs, with limitless configurations. Our design team provides predictive state of the art CAD drawings and product details, so that our clients can visualize the design before it is installed.

Our team provides clients with optimal and cost efficient laboratory furniture solutions while preserving functionality, durability and quality.





## Manufacturing

Using high quality and innovative raw materials, our technicians use the most advanced machinery including CNC operated machines to manufacture best quality products for our clients. We utilize cutting edge automated methods in manufacturing laboratory furniture systems.

We strictly adhere to ISO 9001 quality management standards in the manufacturing processes starting from planning and scheduling throughout manufacturing and till delivery of final product.

## Project Management & Installation

Throughout all projects phases, our projects team works closely with our clients and contractors to ensure overall project feasibility and success. Whether your project is located in Jordan, the MENA region, or any other part of the world, our in-house projects team ensures optimal coordination and installation of your project.

This dedicated team saves our clients' projects installation time and ensures a smoother project site coordination.

In accordance with **Protech** policies, we observe the highest safety measures during installation without interrupting other works taking place at the project site.







## After Sales Service

Our dedication to our clients doesn't end at delivery. As our key aim is to build long-term relationships with our clients, we focus our entire experience on serving a trusted business partnership from initial consultation to post-installation.

Due to high quality of products and proper installation, our furniture systems barely need maintenance. However, our local service team is always ready to ensure proper performance of our installations as well as conducting preventive maintenance programs.



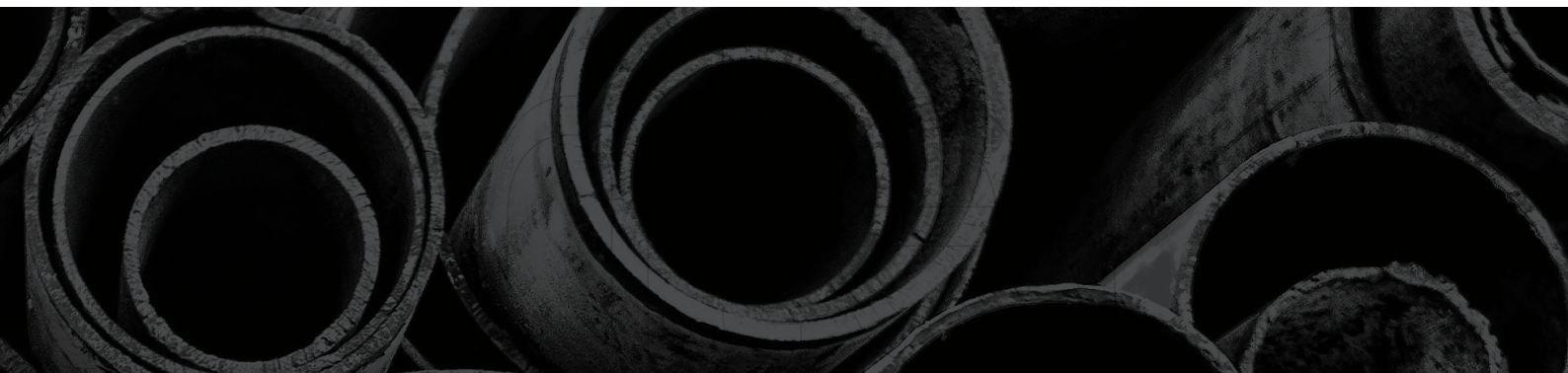


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Service System .....	13
Benches .....	35
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Fixtures and Complimentary Items .....	65
General .....	79
Other Products .....	88



# Introduction

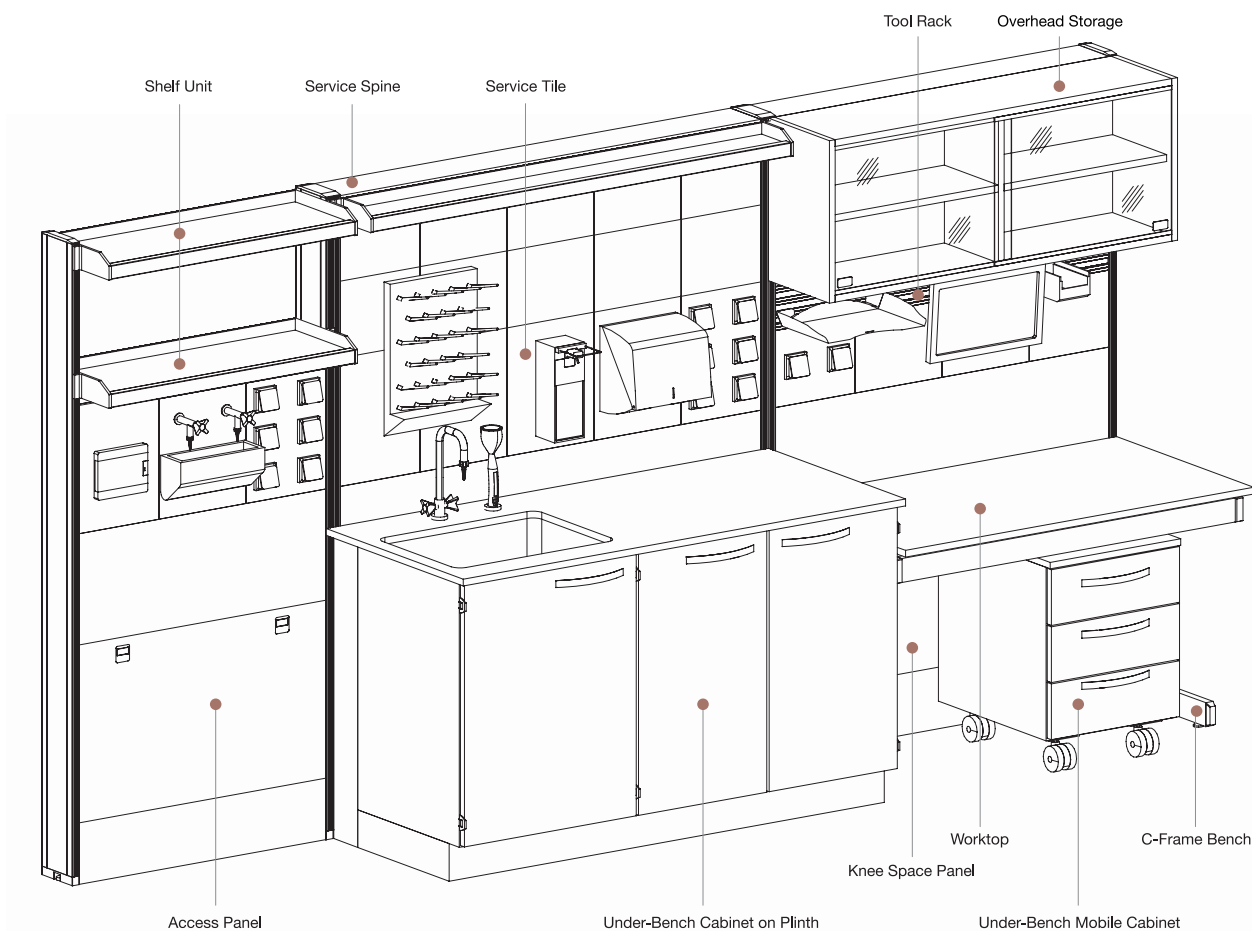
The laboratory requirements are indeed a truly dynamic solution that can promptly adapt to any necessity and can easily incorporate with new technologies. **Protech's** latest innovation, **Mosaic** Laboratory Furniture System has been developed as a modular, long lasting and space saving laboratory furniture system to adapt with the modern laboratories and the latest trends.

**Mosaic** system is engineered for maximum flexibility and performance, and it is the result of thoughtful analysis of operations and design excellence, combined together to create comfortable work environments to the laboratories users.

Customers can build their own unique customized laboratory designs with **Mosaic's** wide range of service modules, bench systems, storage and other complementary items. Variety of applications and configurations are available to the user to upgrade the system according to the changing work needs to ensure maximum functionality of the laboratory all the time.

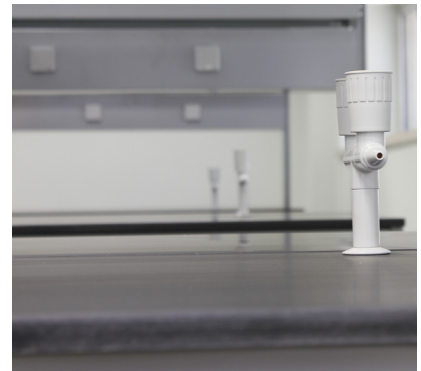
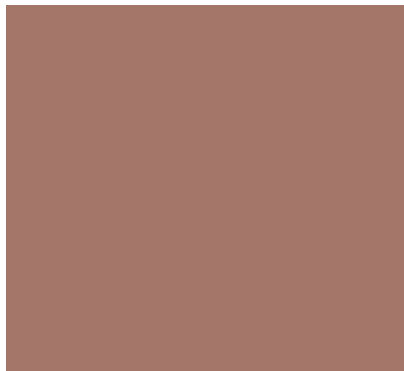
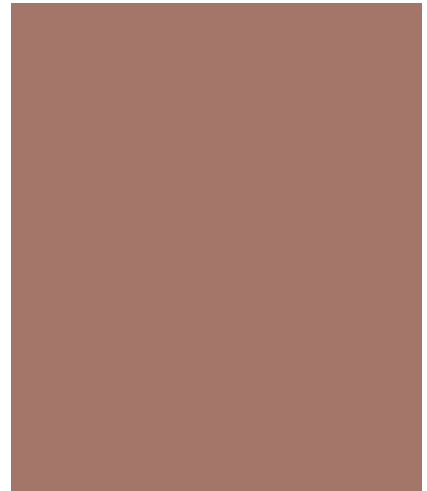
**MOSAIC** is the ideal system for:

- Medical laboratories
- Pharmaceutical laboratories
- Educational laboratories
- Industrial laboratories
- Research & Development laboratories
- Quality control laboratories





**Mosaic** is designed to make installation and reconfigurations quick and cost effective. Through this catalogue, comprehensive technical information on **Mosaic** Laboratory Furniture System will be particularly presented to our valued customers.



## Benefits

- Suit most laboratory applications
- Maximize work space and productivity
- Simplify laboratory building planning
- Facilitate project site coordination
- Save installation time
- Make modifications and expansions easier
- Utilize sustainable materials
- Maximize customers' Return On Investment







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# Service System

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Service Spine

Service Tiles

Service Panels

Tool Rack

Shelf Units

Accessories and Add-ons

Service Column

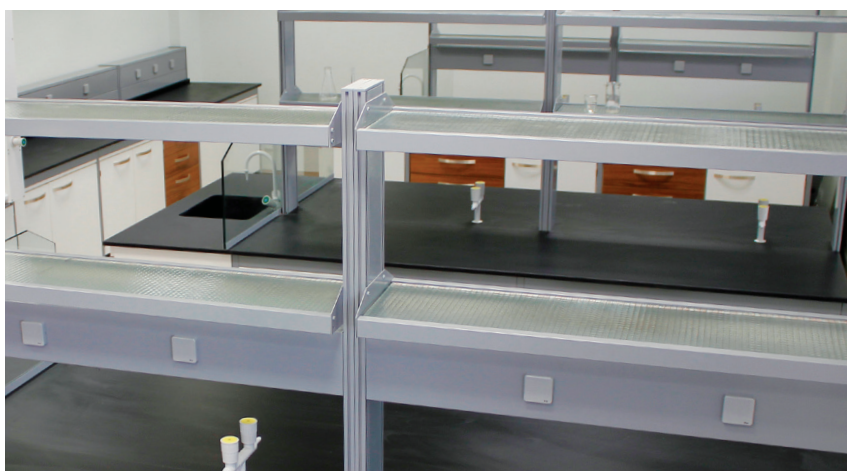
Service Wing

# Service System

With **Mosaic**, maintenance and modifications to services are made with minimum downtime. The ever-changing nature of laboratories requires flexible and functional furniture solutions that allow for alterations to electrical and mechanical services done comfortably and without major renovations.

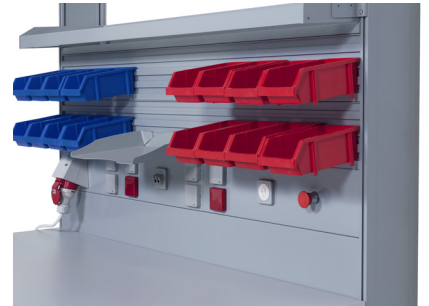
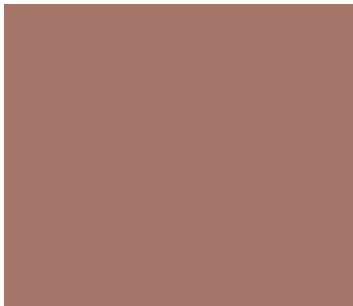
The Service Spine is considered the core component of the **Mosaic** System where service lines are housed within the spine, allowing access to piping and wiring throughout the laboratory.

Service Tiles, Service Panels, and Tool Rack are integrated within the Service Spine in order to carry mechanical fittings, electrical fittings, soap/towel dispensers, LCD arms, storage bins, and many other fittings.



**Mosaic's** Service Spine is constructed from heavy-duty aluminum extrusions connected by steel beams and designed to accept wide range of add-on units such as; height adjustable shelves, overhead cabinets, lighting, scaffolding and local fume extractors.

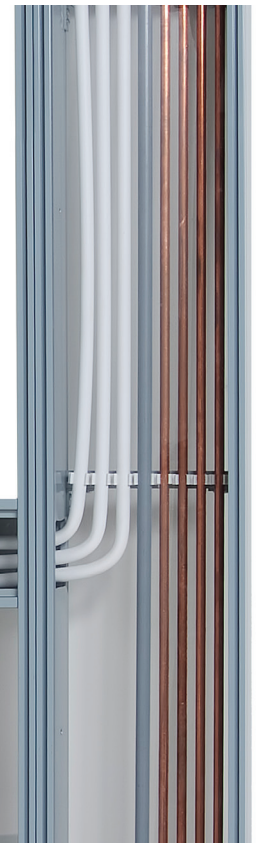




**Mosaic's** Service Wings provide the ultimate service flexibility and it can either be suspended from ceiling or mounted on service spine.

LED light strip can be integrated within the Shelf Units and Service Wings to enhance comfort and productivity at the working place. All metal components are electrostatically epoxy powder coated after careful treatment providing maximum resistance to abrasion, chemicals, and moisture.

Service Spine, Service Columns, and Service Wings can be used separately or combined with each other, offering limitless configurations to suit all customers' specific requirements. **Mosaic's** Service System makes it easy for end users to upgrade their configurations without complicated constructions.



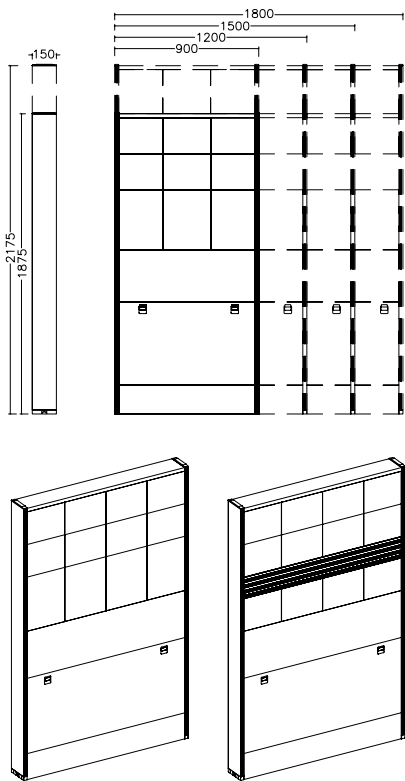
# Service Spine

## Type FCS

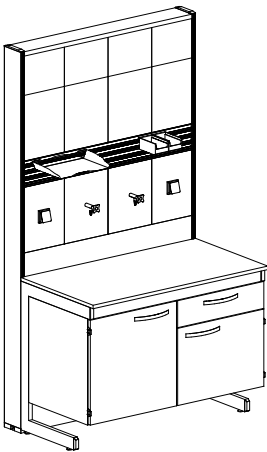
- Fully closed with Service Tiles, Service Panels, and Tool Rack
- Available in two heights
- For bench heights from 720 mm to 950 mm
- Single sided (wall assembly) or double sided (center assembly)
- Suitable with 150 mm deep shelves
- Wide range of tile and rack options

### Options:

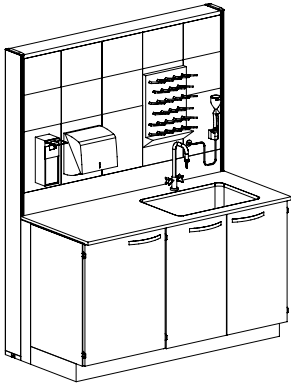
- Access panel with push-to-close latch
- Strut channels and pipe clamps
- Laboratory scaffolding



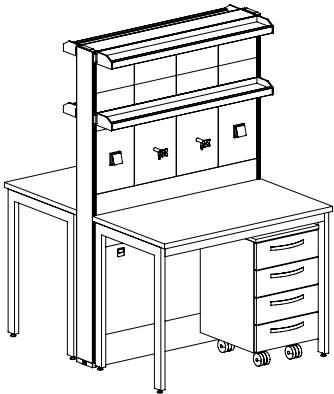
Material	Upright	Epoxy powder coated aluminum extrusion			
	Access panel, fixed panel, skirting, and internal beams	Epoxy powder coated steel			
	Top cap	Plastic			
	Adjustable feet	Metal core with plastic glide			
Colour		RAL 7040			
Dimensions	Service spine width (mm)	900	1200	1500	1800
	Service spine depth (mm)	150			
	Service spine height (mm)	1875	2175		
	Height adjustment (mm)	-0/+25			



Wall assembly with tiles and tool rack



Wall assembly with tiles



Center assembly with tiles and shelf units

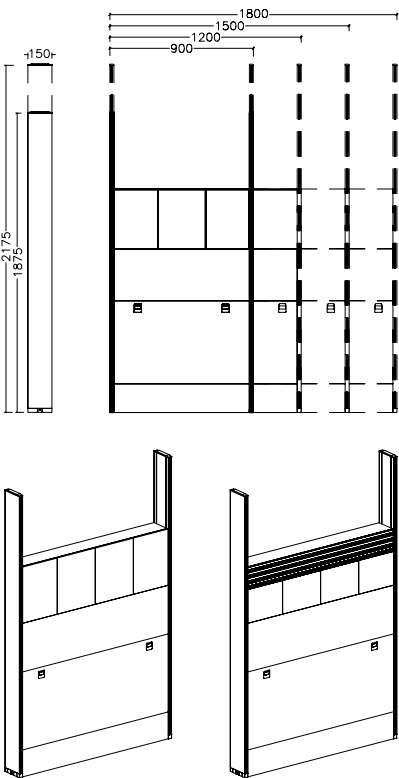
# Service Spine

## Type SCS

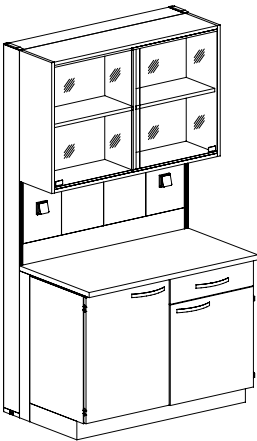
- Semi-closed with Service Tiles, Service Panels, and Tool Rack
- Available in two heights
- For bench heights from 720 mm to 950 mm
- Single sided (wall assembly) or double sided (center assembly)
- Suitable with 225 mm and 300 mm deep shelves
- Overhead cabinet can be mounted on spine
- Wide range of tile and rack options

### Options:

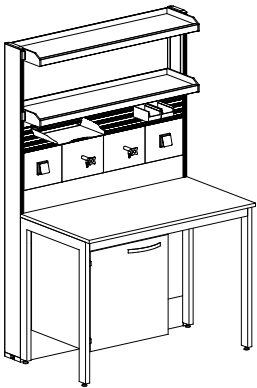
- Access panel with push-to-close latch
- Strut channels and pipe clamps
- Laboratory scaffolding



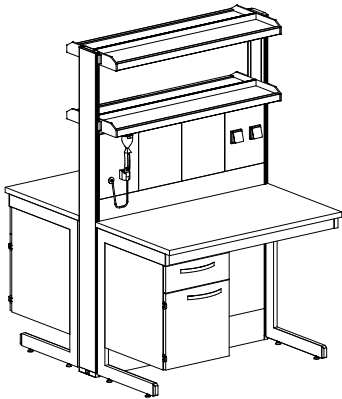
Material	Upright	Epoxy powder coated aluminum extrusion			
	Access panel, fixed panel, skirting, and internal beams	Epoxy powder coated steel			
	Top cap	Plastic			
	Adjustable feet	Metal core with plastic glide			
Colour		RAL 7040			
Dimensions	Service spine width (mm)	900	1200	1500	1800
	Service spine depth (mm)	150			
	Service spine height (mm)	1875	2175		
	Height adjustment (mm)	-0/+25			



Wall assembly with tiles and overhead cabinet



Wall assembly with tiles, tool rack, and shelf units



Center assembly with tiles and shelf units

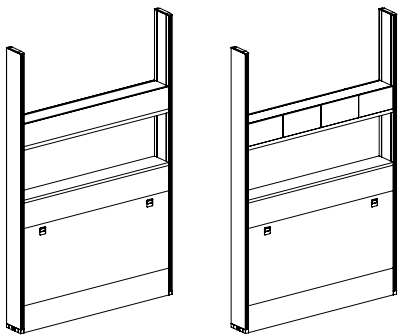
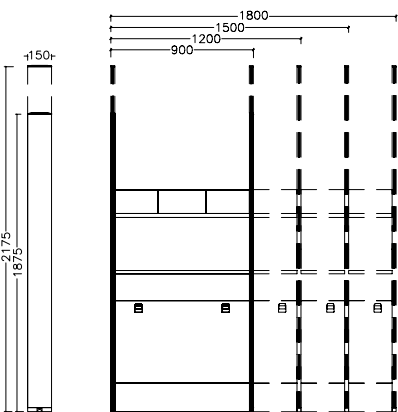
# Service Spine

## Type SBS

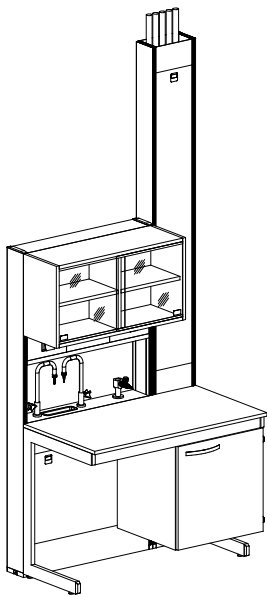
- Service bridge with Service Tiles, Service Panels, or Tool Rack
- Available in two heights
- For bench heights from 720 mm to 950 mm
- Single sided (wall assembly) or double sided (center assembly)
- Suitable with 225 mm and 300 mm deep shelves
- Overhead cabinet can be mounted on spine
- Wide range of tile and rack options

### Options:

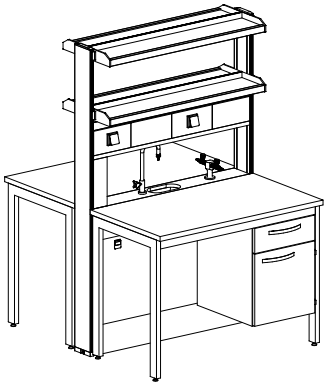
- Access panel with push-to-close latch
- Service box
- Strut channels and pipe clamps
- Laboratory scaffolding



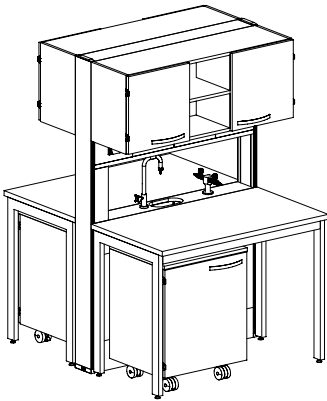
Material	Upright	Epoxy powder coated aluminum extrusion			
	Access panel, fixed panel, skirting, and internal beams	Epoxy powder coated steel			
	Top cap	Plastic			
	Adjustable feet	Metal core with plastic glide			
Colour		RAL 7040			
Dimensions	Service spine width (mm)	900	1200	1500	1800
	Service spine depth (mm)	150			
	Service spine height (mm)	1875	2175		
	Height adjustment (mm)	-0/+25			



Wall assembly with tiles, overhead cabinet, and service column



Center assembly with tiles, service box, and shelf units



Center assembly with tiles, service box, and overhead cabinet

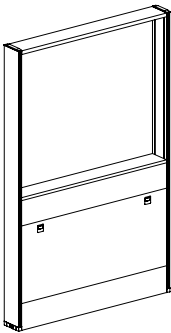
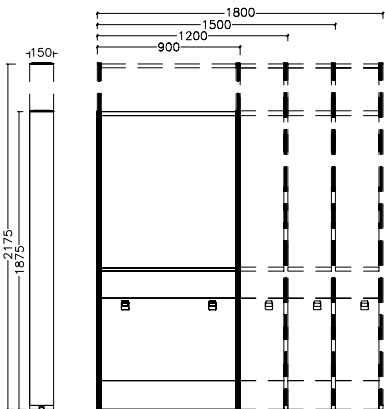
# Service spine

## Type FOS

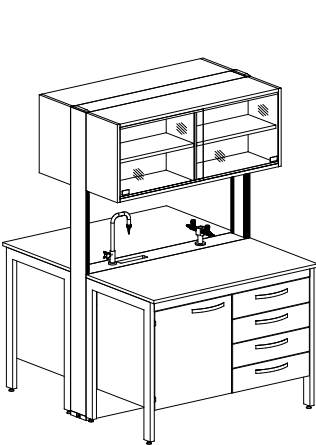
- Fully open above worktop level
- Available in two heights
- For bench heights from 720 mm to 950 mm
- Single sided (wall assembly) or double sided (center assembly)
- Suitable with 225 mm and 300 mm deep shelves
- Overhead cabinet can be mounted on spine
- Service wing can be mounted on spine

### Options:

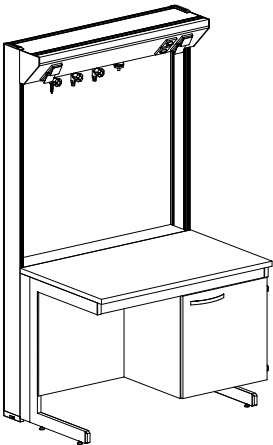
- Access panel with push-to-close latch
- Strut channels and pipe clamps
- Laboratory scaffolding



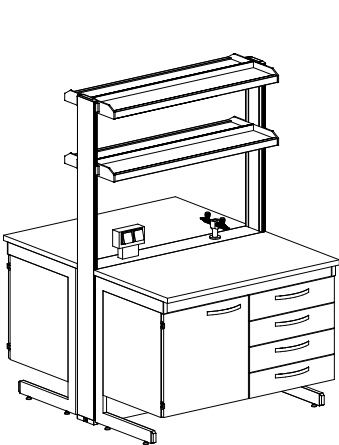
Material	Upright	Epoxy powder coated aluminum extrusion			
	Access panel, fixed panel, skirting, and internal beams	Epoxy powder coated steel			
	Top cap	Plastic			
	Adjustable feet	Metal core with plastic glide			
Colour		RAL 7040			
Dimensions	Service spine width (mm)	900	1200	1500	1800
	Service spine depth (mm)	150			
	Service spine height (mm)	1875	2175		
	Height adjustment (mm)	-0/+25			



Center assembly with overhead cabinet



Wall assembly with service wing



Center assembly with shelf units



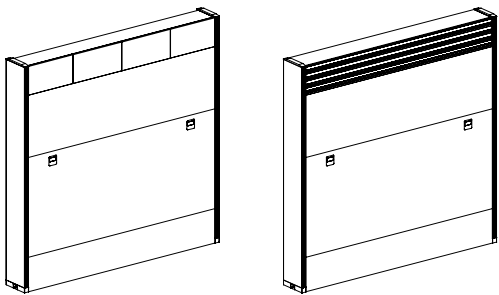
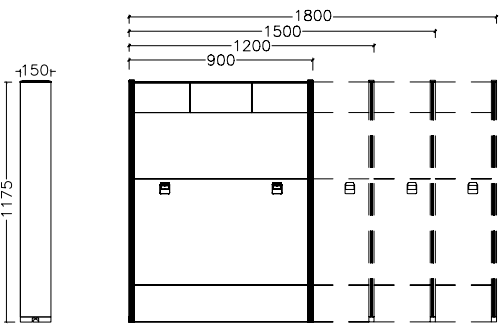
# Service Spine

## Type SLS

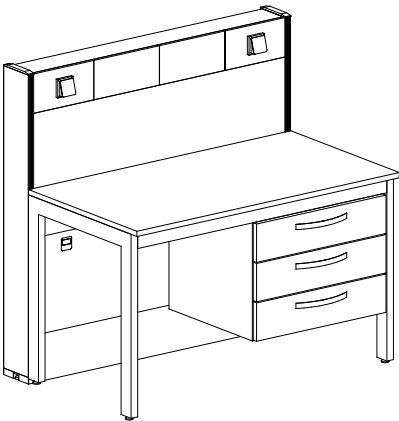
- With Service Tiles, Service Panels, and Tool Rack
- 1175 mm high
- For bench heights from 720 mm to 950 mm
- Single sided (wall assembly) or double sided (center assembly)
- Wide range of tile and rack options

### Options:

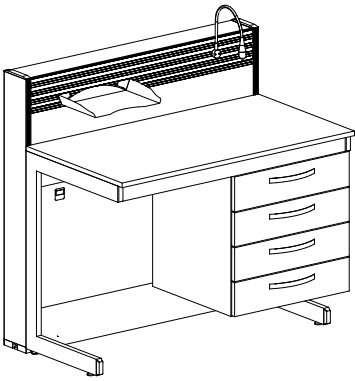
- Access panel with push-to-close latch
- Strut channels and pipe clamps



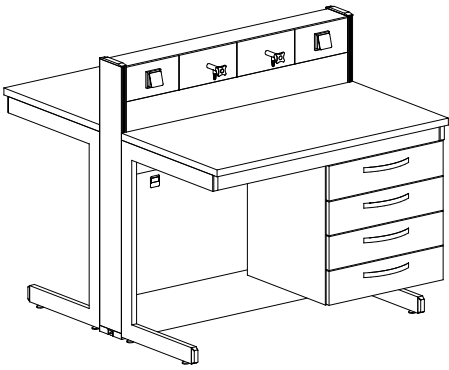
Material	Upright	Epoxy powder coated aluminum extrusion			
	Access panel, fixed panel, skirting, and internal beams	Epoxy powder coated steel			
	Top cap	Plastic			
	Adjustable feet	Metal core with plastic glide			
Colour		RAL 7040			
Dimensions	Service spine width (mm)	900	1200	1500	1800
	Service spine depth (mm)	150			
	Service spine height (mm)	1175			
	Height adjustment (mm)	-0/+25			



Wall assembly with tiles



Wall assembly with tool rack



Center assembly with tiles

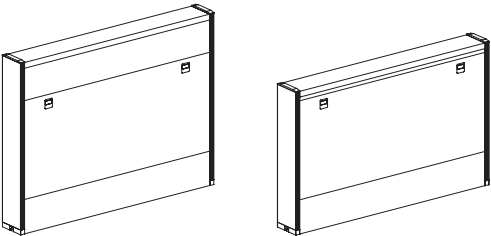
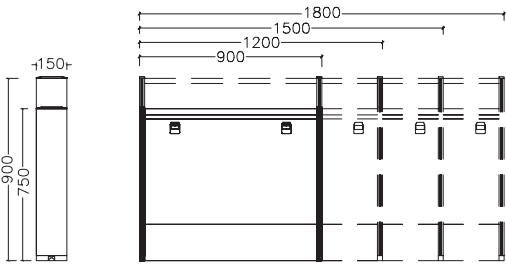
# Service Spine

## Type BLS

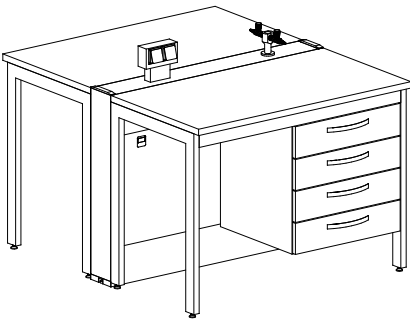
- Bench height spine
- Available in two heights 750 mm and 900 mm
- Single sided (wall assembly) or double sided (center assembly)

### Options:

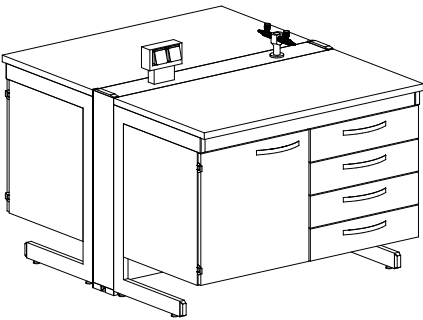
- Access panel with push-to-close latch
- Strut channels and pipe clamps for electrical and mechanical piping



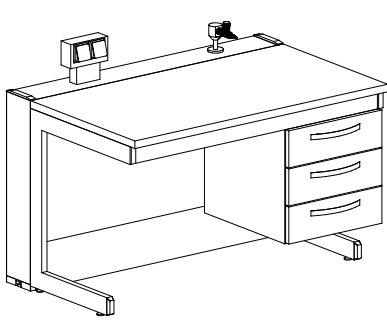
Material	Upright	Epoxy powder coated aluminum extrusion			
	Access panel, fixed panel, skirting, and internal beams	Epoxy powder coated steel			
	Top cap	Plastic			
	Adjustable feet	Metal core with plastic glide			
Colour		RAL 7040			
Dimensions	Service spine width (mm)	900	1200	1500	1800
	Service spine depth (mm)	150			
	Service spine height (mm)	750	900		
	Height adjustment (mm)	-0/+25			



Center assembly



Center assembly



Wall assembly

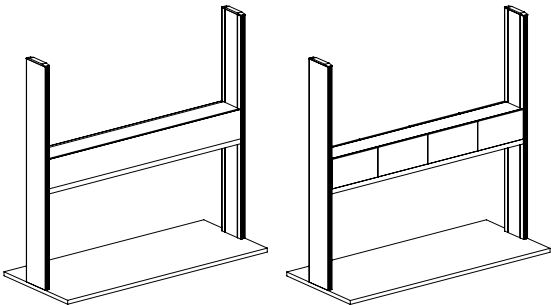
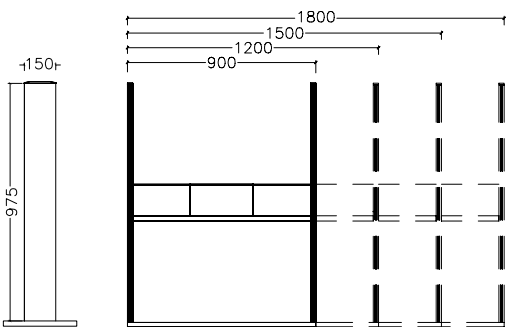
# Service Spine

## Type BMS

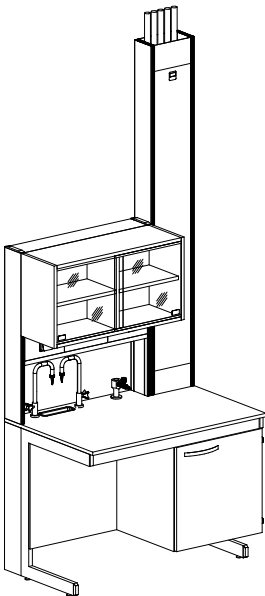
- Bench mounted type with service bridge
- With Service Tiles, Service Panels, or Tool Rack
- For all bench heights
- Single sided (wall assembly) or double sided (center assembly)
- Suitable with 225 mm and 300 mm deep shelves
- Overhead cabinet can be mounted on spine (wall assembly only)
- Wide range of tile and rack options

### Options:

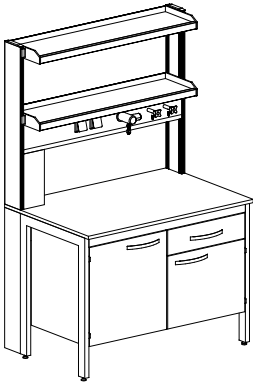
- Service box
- Laboratory scaffolding



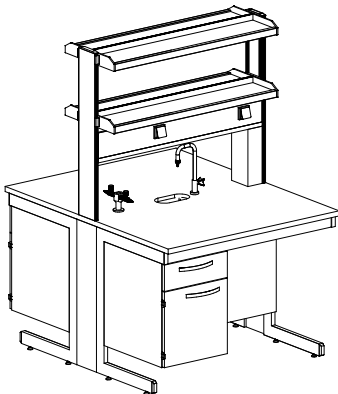
Material	Upright	Epoxy powder coated aluminum extrusion			
	Fixed panel and internal beams	Epoxy powder coated steel			
	Top cap	Plastic			
Colour		RAL 7040			
Dimensions	Service spine width (mm)	900	1200	1500	1800
	Service spine depth (mm)	150			
	Service spine height (mm)	975			



Wall assembly with tiles, overhead cabinet, and service column



Wall assembly with service panel, shelf units, and service box



Center assembly with service panel, shelf units, and service box

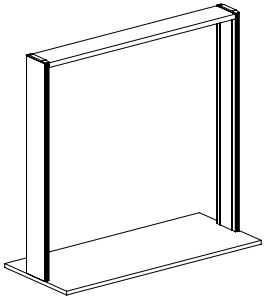
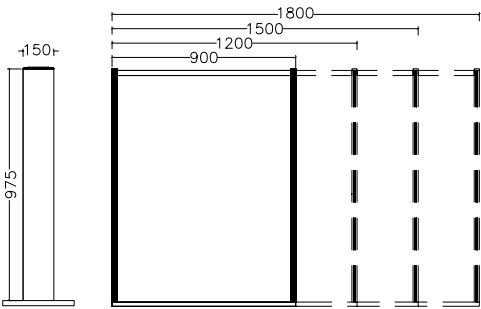
# Service Spine

## Type BOS

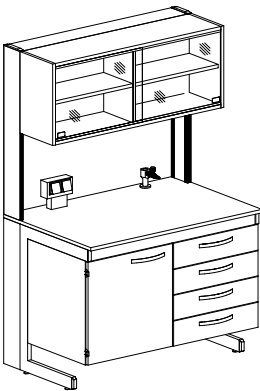
- Fully open bench mounted type
- For all bench heights
- Single sided (wall assembly) or double sided (center assembly)
- Suitable with 225 mm and 300 mm deep shelves
- Overhead cabinet can be mounted on spine (wall assembly only)
- Service wing can be mounted on spine

### Options:

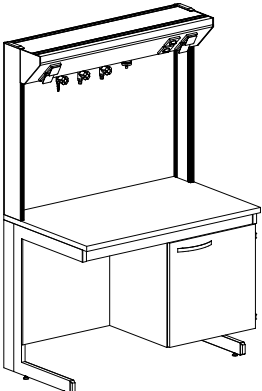
- Laboratory scaffolding



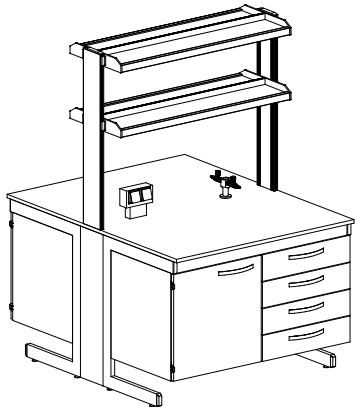
Material	Upright	Epoxy powder coated aluminum extrusion			
	Beam	Epoxy powder coated steel			
	Top cap	Plastic			
Colour		RAL 7040			
Dimensions	Service spine width (mm)	900	1200	1500	1800
	Service spine depth (mm)	150			
	Service spine height (mm)	975			



Wall assembly with overhead cabinet



Wall assembly with service wing



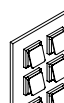


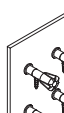


Center assembly with shelf units

# Service Tiles

- To be fixed on service spine
- Tiles are interchangeable
- Simply fixed and removed by hand tool
- Available with wide range of fittings and accessories
- Available in three heights

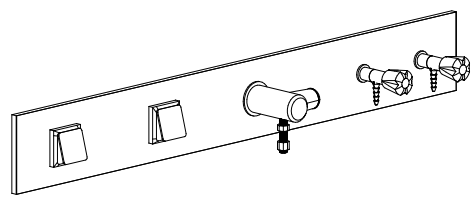
Material	Service Tiles	Epoxy powder coated steel		
Colour		RAL 7040		
Dimensions	Tile height (mm)	150	225	375
	Tile width (mm)	275	300	

Maximum Number of Fittings			
Electrical Fittings *	 150	 225	 375
Power outlets (IP44)	2	4	6
Data Outlet (RJ 45)	4	8	12
Circuit Breaker	-	1	1
ON/OFF Switch	2	4	6
Emergency Stop	1	1	1
Aerial (TV) Socket	2	4	6
LED Spot Light	1	1	1
Mechanical Fittings *	 150	 225	 375
Gas Outlet (2.0)	2	2	4
Water Outlet	2	2	2
Cupsink with Water Outlet	-	-	1
Pure Gas Outlet (5.0)	1	2	2
Eye Wash	-	-	1
Soap / Disinfectant Dispenser	-	-	1
Towel Dispenser	-	-	1

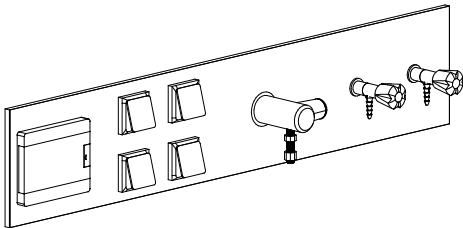
\* For fittings details, please refer to Fixtures and Complimentary Items section

# Service Panels

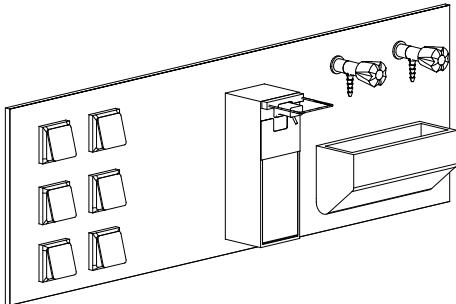
- To be fixed on service spine
- Available with wide range of fittings and accessories
- Available in three heights



150 mm High



225 mm High

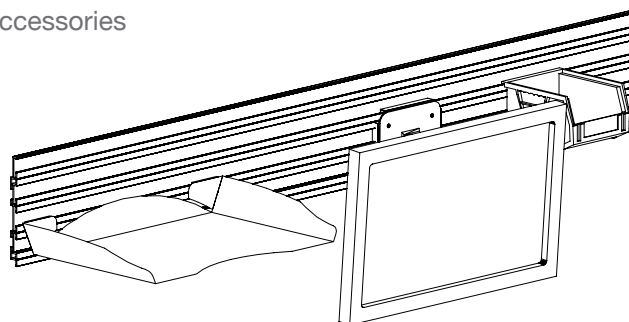


375 mm High

Material	Service panel	Epoxy powder coated steel			
Colour		RAL 7040			
Dimensions	Panel height (mm)	150	225	375	
	Panel width (mm)	850	1150	1450	1750

## Tool Rack

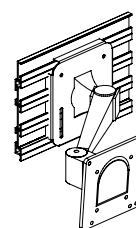
- Wide range of simply mounted/ removed tools and accessories
- Integrated in service spine or mounted on wall



Material	Rack	Epoxy powder coated aluminum extrusion			
Colour		RAL 7040			
Dimensions	Height (mm)	150			
	Width (mm)	850	1150	1450	1750

## LCD Arm

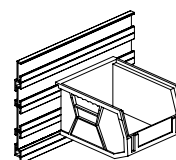
- Mounted on the tool rack
- With two joints
- Load capacity (kg): 10
- 360° monitor rotation



Material	LCD arm	Aluminum with steel brackets			
Colour		Silver coated			
Dimensions	Width (mm)	120			
	Length (mm)	120-320			
	Height (mm)	130			

## Storage Bins

- Mounted on the tool rack
- Available in two sizes and two colours
- Simply mounted and removed

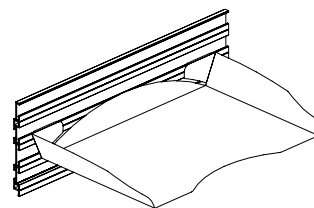


Material	Storage bins	Polypropylene			
Colour		Blue & Red			
Dimensions	Width (mm)	100	125		
	Length (mm)	200	250		
	Height (mm)	100	112		

# Tool Rack

## Paper Tray

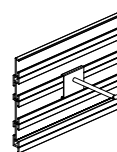
- Mounted on the tool rack
- Simply mounted and removed



Material	Paper tray	Epoxy powder coated steel
Colour		RAL 7040
Dimensions	Width (mm)	340
	Depth (mm)	230
	Height (mm)	40

## Hook

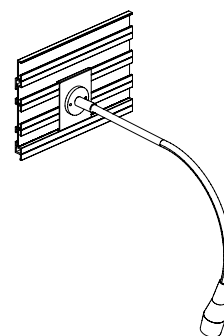
- Mounted on tool rack
- Simply mounted and removed
- Load capacity (kg): 20



Material	Hook	Epoxy powder coated steel
Colour		RAL 7040
Dimensions	Length (mm)	100
	Diameter (mm)	6

## Flexible LED Spotlight

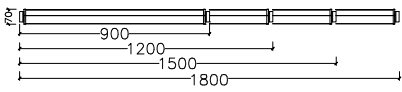
- For details, please refer to Fixtures and Complimentary Items section





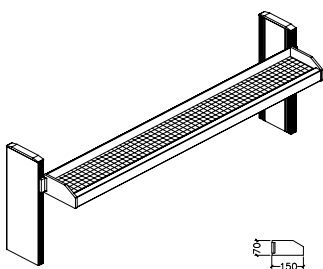
# Shelf Units

- For mounting on service spine
- Infinitely height adjustable
- Factory pre-assembled
- Integrated front rail and back-lip
- Available in four depths
- Load capacity (kg/m²): 200

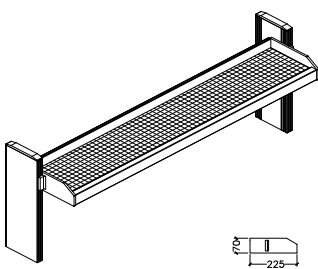


### Options:

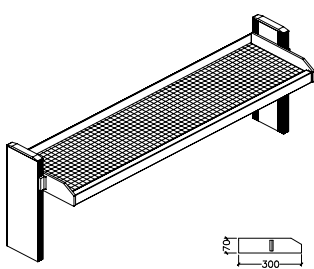
- LED strip light integrated within the front rail



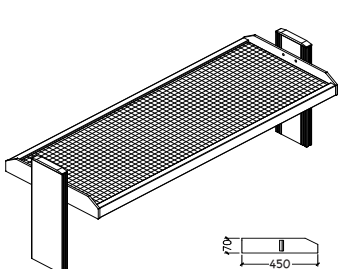
150 mm Deep



225 mm Deep



300 mm Deep

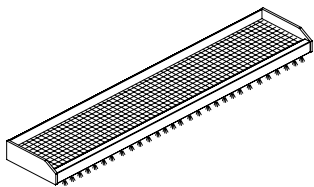


450 mm Deep

Material	Bracket, front rail, and back-lip	Epoxy powder coated aluminum extrusion			
	Shelf panel	Wire glass			
Colour		RAL 7040			
Dimensions	Nominal width (mm)	900	1200	1500	1800
	Shelf panel width (mm)	830	1130	1430	1730
	Nominal depth (mm)	150	225	300	450
	Shelf panel depth (mm)	130	205	280	420
	Height (mm)	70			
	Shelf panel thickness (mm)	6			

## LED Strip Light

- Provides light to working area below shelf
- Integrated within the shelf unit's front rail
- On/off control on service tile or service panel
- To be connected to LED driver

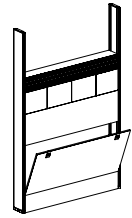


Material	Housing	Epoxy powder coated aluminum extrusion			
	Strip light cover	Polycarbonate			
Colour	Housing	RAL 7040			
	Strip light cover	Opal			
	Light	Cool white			
Dimensions	Shelf unit width (mm)	900	1200	1500	1800
	Strip light length (mm)	800	1100	1400	1700
Voltage		12V			

# Accessories and Add-ons

## Access Panel

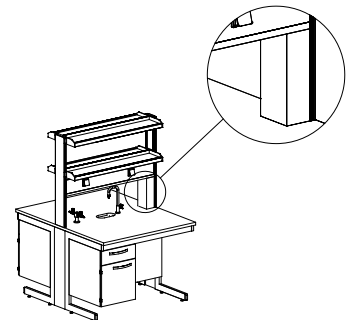
- For Service Spine And Service Coloumns
- Simply mounted/removed using push-to-close latch
- Ideal behind movable benches, tables, and floor mounted equipment



Material	Access Panel	Epoxy powder coated steel					
Colour		RAL 7040					
Dimensions	Panel height (mm)	520					
	Panel width (mm)	250	550	850	1150	1450	1750

## Service Box

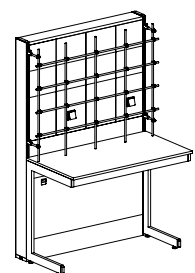
- To bring service lines from under-bench to service bridge
- Simply mounted/ removed



Material	Service Box	Epoxy powder coated steel					
Colour		RAL 7040					
Dimensions	Trunk height (mm)	350					
	Trunk width (mm)	150					
	Trunk depth (mm)	150					

## Laboratory Scaffolding

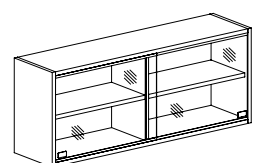
- Easily fixed on the service spine's uprights
- Allow for adjustable scaffold matrices



Material	Rod	Aluminum					
	Connectors	Die-cast aluminum					
	Socket	Polypropylene					
Colour		Black					
Dimensions	Rod diameter (mm)	12					
	Rod length (mm)	1000	2000				

## Overhead Cabinets

- For details, please refer to Storage section



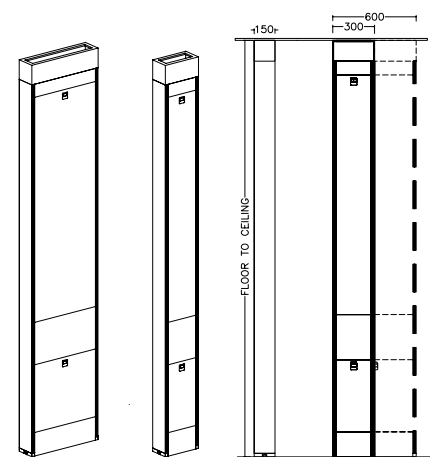
# Service Column

## Type SCF

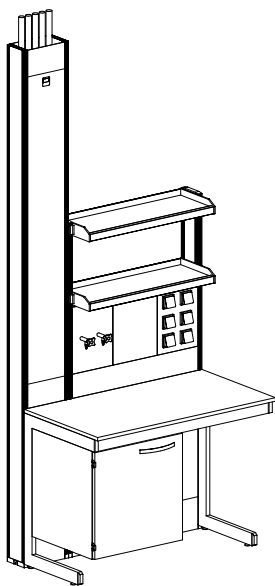
- Floor mounted
- Upper access panel with push-to-close latch
- Single sided (wall assembly) or double sided (center assembly)
- Supplied with adjustable ceiling collar
- Supplied with strut channnels

### Options:

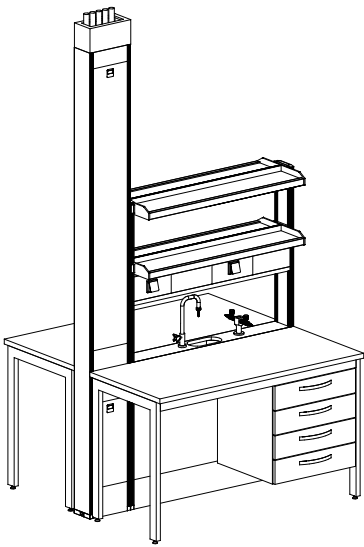
- Lower access panel with push-to-close latch
- Pipe clamps



Material	Upright	Epoxy powder coated aluminum extrusion					
	Access panel, fixed panel, skirting, ceiling collar, and internal beams	Epoxy powder coated steel					
	Adjustable feet	Metal core with plastic glide					
Colour		RAL 7040					
Dimensions	Service column width (mm)	300	600				
	Service column depth (mm)	150					
	Service column height (mm)	2400	2550	2700	2850	3000	3150
	Collar height (mm)	200					
	Collar adjustment (mm)	-0 / +175					



Wall assembly with floor mounted service coloumn



Center assembly with floor mounted service coloumn

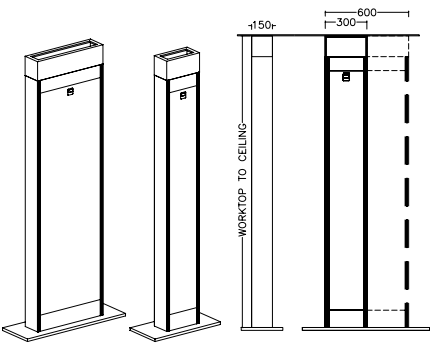
# Service Column

## Type SCB

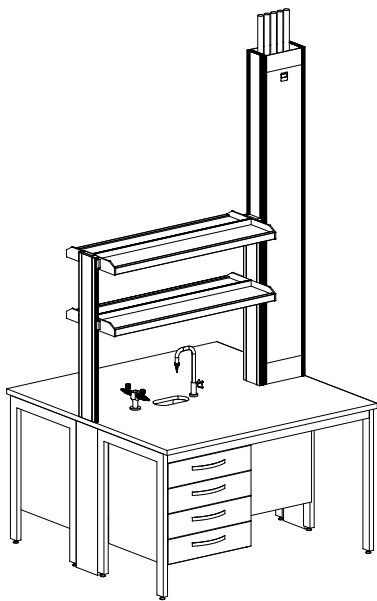
- Bench mounted
- Access panel with push-to-close latch
- Single sided (wall assembly) or double sided (center assembly)
- Supplied with adjustable ceiling collar
- Supplied with strut channels

### Options:

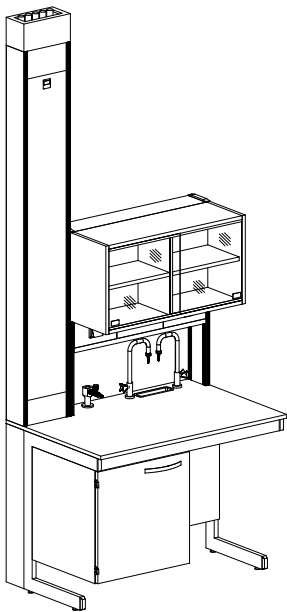
- Pipe clamps



Material	Upright	Epoxy powder coated aluminum extrusion					
	Access panel, fixed panel, skirting, ceiling collar, and internal beams	Epoxy powder coated steel					
Colour		RAL 7040					
Dimensions	Service column width (mm)	300	600				
	Service column depth (mm)	150					
	Service column height (mm)	1650	1800	1950	2100	2250	2400
	Collar height (mm)	200					
	Collar adjustment (mm)	-0 / +175					



Center assembly with bench mounted service column



Wall assembly with bench mounted service column

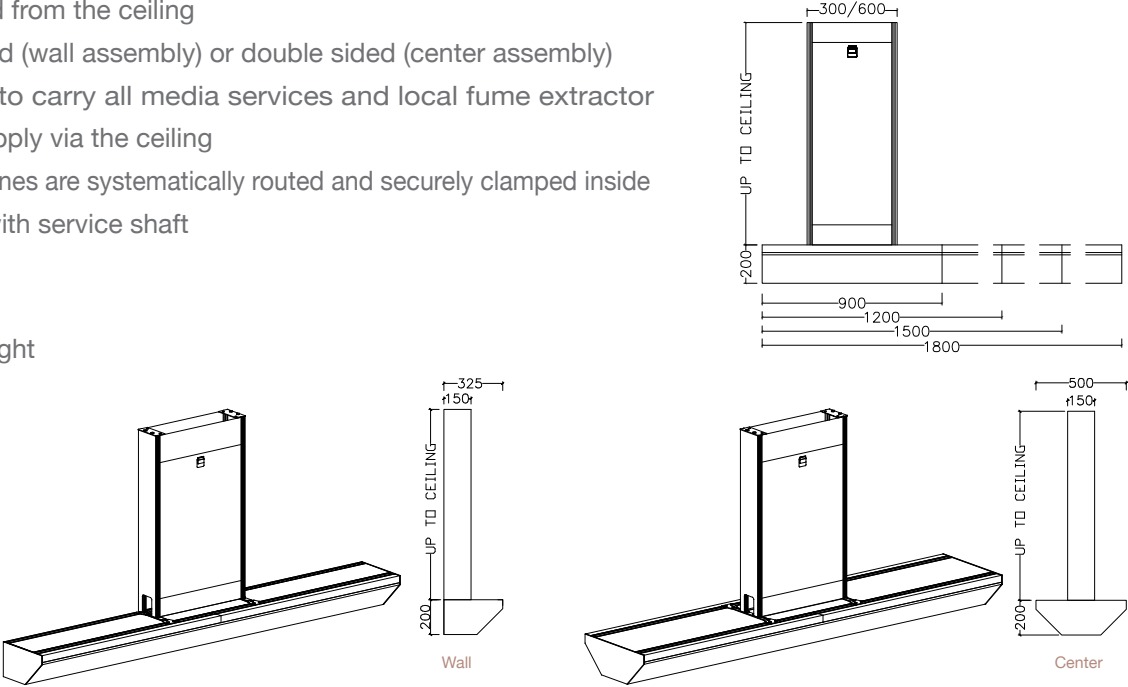
# Service Wing

## Type CSW

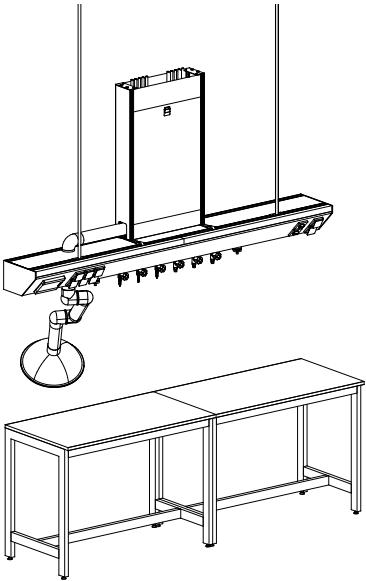
- Suspended from the ceiling
- Single sided (wall assembly) or double sided (center assembly)
- Designed to carry all media services and local fume extractor
- Service supply via the ceiling
- All service lines are systematically routed and securely clamped inside
- Provided with service shaft

### Options:

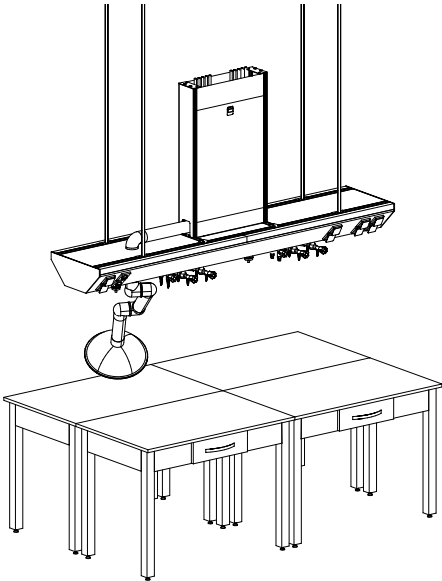
- LED strip light



Material	Service panels, access panels and internal beams	Epoxy powder coated steel					
	Shaft Upright	Epoxy powder coated aluminum extrusion					
Colour		RAL 7040					
Dimensions	Service wing width (mm)	900	1200	1500	1800		
	Service wing depth (mm)	325	500				
	Service wing height (mm)	200					
	Height from finished floor level (mm)	1700-2100					
	Service shaft height (mm)	600	750	900	1050	1200	1350
	Service shaft width (mm)	300	600				
	Service shaft depth (mm)	150					



Wall assembly



Center assembly

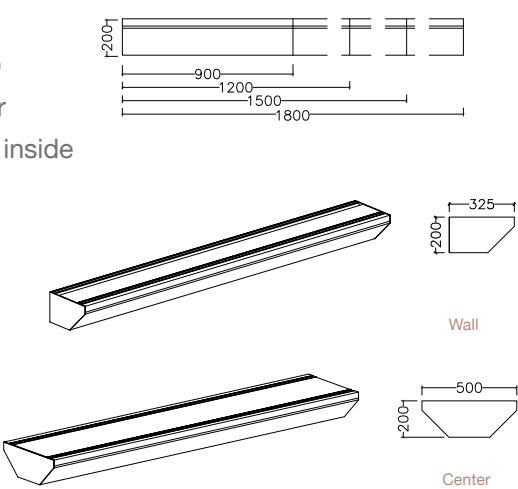
# Service Wing

## Type SSW

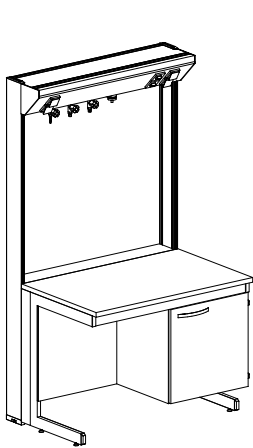
- Mounted on service spine uprights
- Single sided (wall assembly) or double sided (center assembly)
- Designed to carry all media services and local fume extractor
- All service lines are systematically routed and securely clamped inside
- Service supply via the ceiling or from under-bench

### Options:

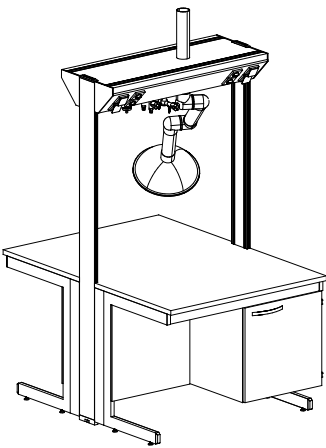
- LED strip light
- Service shaft for service supply via the ceiling
- Service box for service supply from under-bench



Material	Service panels and internal beams		Epoxy powder coated steel			
Colour			RAL 7040			
Dimensions	Service wing width (mm)		900	1200	1500	1800
	Service wing depth (mm)		325	500		
	Service wing height (mm)		200			



Wall assembly



Center assembly



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# Benches

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Bench Systems

Tables

Worktops



# Benches

**Protech** offers a wide range of laboratory Bench Systems and Tables that are functional, aesthetic, and long lasting. Whether the customer requires fixed, free standing, or mobile benches and tables, **Mosaic** provides a solution for every end user based on his specific requirement and application.

C-frame Bench provides flexibility and larger legroom. Worktops are mounted on the steel frame allowing simple relocation of the Suspended Under-bench Cabinets. For maximum flexibility, Mobile Under-bench Cabinets can be used with the C-frame Bench.

With a four-leg steel frame supporting the worktop, H-frame Bench provides maximum stability for heavy equipment and can be furnished with either Suspended or Mobile Under-bench Cabinets.

With Plinth Mounted Bench, worktops are supported directly on the Under-bench Cabinets providing more storage space. Cabinets on Plinth are built with removable back-wall to allow for easy access to service lines.





Fixed benches are provided with knee-space, side, and front filler panels that are easily mounted and removed for maintenance.

**Mosaic** steel frames are electrostatically epoxy powder coated after proper treatment providing maximum resistance to abrasion, chemicals, and moisture.

When analytical balances and sensitive measuring equipments are used, **Protech** offers vibration-free balance tables where a heavy granite slab is mounted on steel frame, which is isolated from the outer body of the table.

A wide variety of Worktop materials are offered to suit all laboratory uses. A combination of different bench systems and worktops can be utilized within a single laboratory to optimize functionality and keep cost within budget.

Our laboratory benches and tables comply with the European Norm EN 13150:2001.



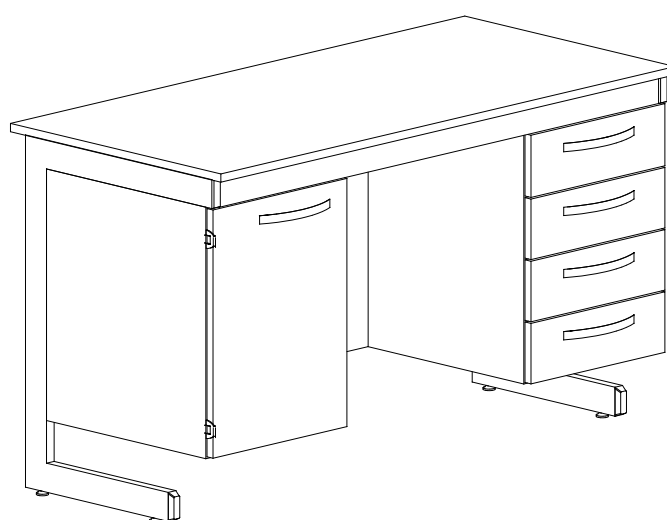
## C-Frame Bench

- Heavy-duty construction
- Suitable with suspended cabinets and mobile cabinets
- Knee space filler panel simply mounted and removed without tools
- Load capacity (kg/m<sup>2</sup>): 200

### Options:

- Skirting panel
- Filler panels

Material	Frame	Epoxy powder coated steel				
	Adjustment feet	Plastic				
Colour		RAL 7040				
Dimensions	Width (mm)	600	900	1200	1500	1800
	Frame depth (mm)	585				
	Worktop depth (mm)	675	750	900		
	Bench height (mm)	750	900			
	Height adjustment (mm)	-0/+25				



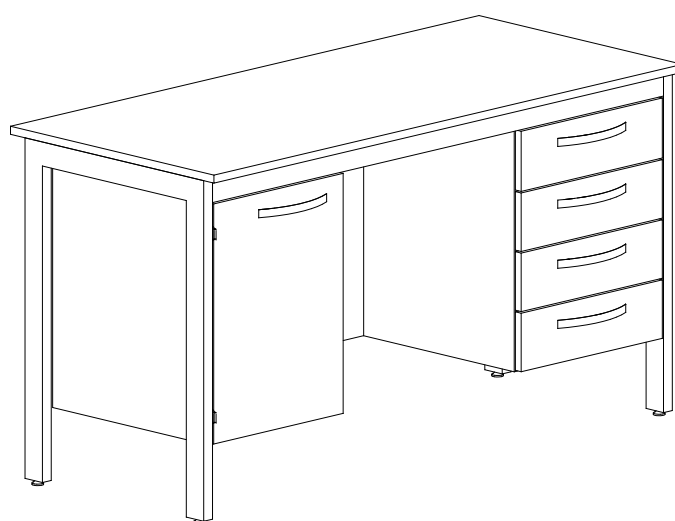
## H-Frame Bench

- Heavy-duty construction
- Suitable with suspended cabinets and mobile cabinets
- Knee space panel simply mounted and removed without tools
- Load capacity (kg/m<sup>2</sup>): 200

### Options:

- Skirting panel
- Filler panels

Material	Frame	Epoxy powder coated steel				
	Adjustment feet	Plastic				
Colour		RAL 7040				
Dimensions	Width (mm)	600	900	1200	1500	1800
	Frame depth (mm)	585				
	Worktop depth (mm)	675	750	900		
	Worktop height (mm)	750	900			
	Height adjustment (mm)	-0/+25				



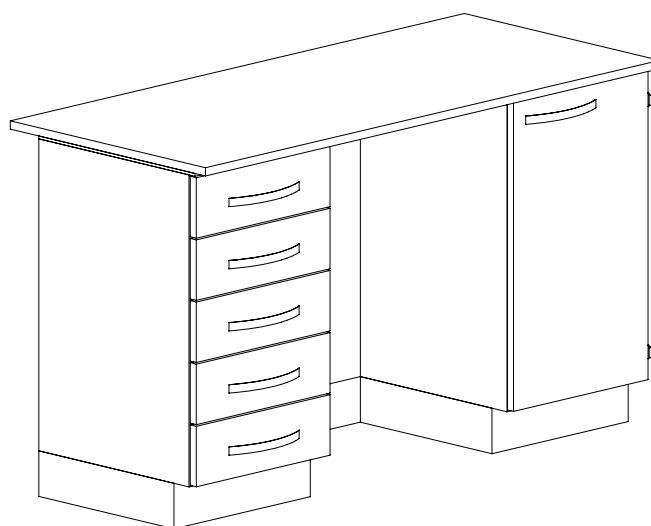
## Plinth Mounted Bench

- Worktops supported by Under-bench cabinets on plinth
- Knee space panel simply mounted and removed for maintenance
- Load capacity (kg/m<sup>2</sup>): 200

### Options:

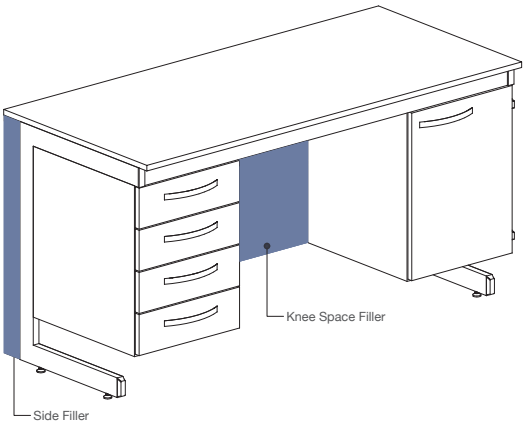
- Filler panels
- Aluminum plinth protection

Material		Refer to Storage section			
Colour		Refer to Storage section			
Dimensions	Worktop depth (mm)	600	675	750	900
	Bench height (mm)	750	900		
	Height adjustment (mm)	-0/+20			



## Filler Panels

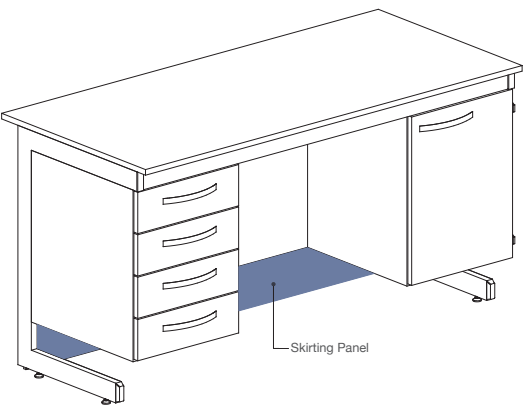
- Knee space, side, and corner filler panels
- Easily mounted and removed to facilitate maintenance



Material		12 mm thick Melamine Faced MDF 19 mm thick HPL Faced Plywood
Colour		White (RAL 9010)
Dimensions	Width (mm)	Vary according to bench system and application
	Height (mm)	Vary according to bench system and application

## Skirting Panel

- For C-Frame and H-Frame bench systems
- For easier cleaning
- Made of moisture resistant phenolic resin panel



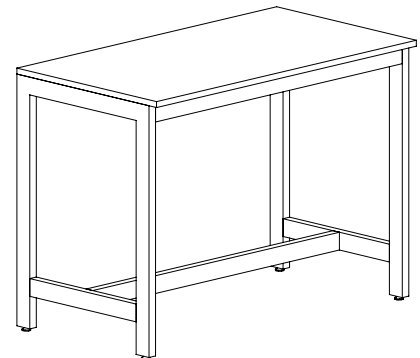
Material		Phenolic resin
Colour		White (RAL 9010)
Dimensions	Width (mm)	Vary according to bench width
	Height (mm)	200

## Free Standing Table

- Four legs with adjustable glides and cross rails
- Load capacity (kg): 200
- Available with various worktop material

### Options:

- Lower shelf



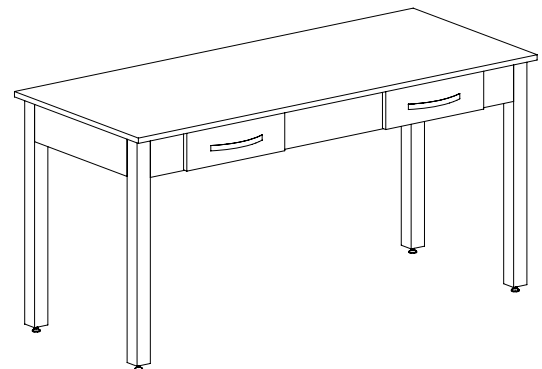
Material	Frame	Epoxy powder coated steel			
Colour	Frame	RAL 7040			
Dimensions	Width (mm)	900	1200	1500	1800
	Depth (mm)	600	750	900	1200
	Height (mm)	750	900		
	Height adjustment (mm)	-0/+25			

## Free Standing Table with Drawers

- Four legs with adjustable glides
- Suspended drawers
- Load capacity (kg): 200
- Drawer load capacity (kg): 30
- Available with various worktop material

### Options:

- Lower shelf
- Drawer lock
- Cross rails



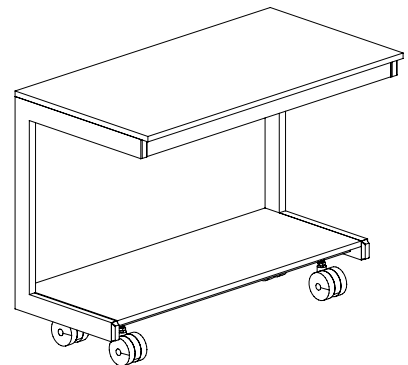
Material	Frame	Epoxy powder coated steel			
Colour	Frame	RAL 7040			
Dimensions	Width (mm)	900	1200	1500	1800
	Number of Drawers	1	2	2	3
	Depth (mm)	600	750	900	1200
	Height (mm)	750	900		
	Height adjustment (mm)	-0/+25			

## Mobile C-Frame Table

- Four heavy-duty swivel castors (two lockable)
- Load capacity (kg): 150
- Each castor load capacity (kg/m<sup>2</sup>): 100
- Available with various worktop material

### Options:

- Lower shelf



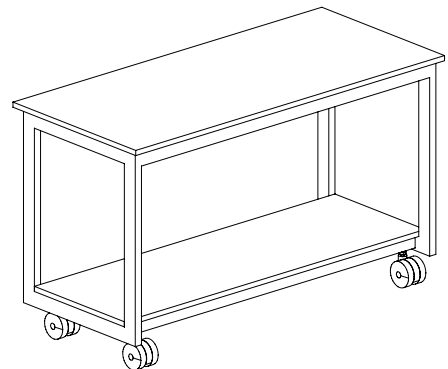
Material	Frame	Epoxy powder coated steel			
	Castors	Polyamide			
Colour	Frame	RAL 7040			
	Castors	Black/dark grey			
Dimensions	Width (mm)	900	1200	1500	
	Depth (mm)	600	675	750	900
	Height (mm)	750	900		

## Mobile H-Frame Table

- Four heavy-duty swivel castors (two lockable)
- Load capacity (kg): 150
- Each castor load capacity (kg): 100
- Available with various worktop material

### Options:

- Lower shelf



Material	Frame	Epoxy powder coated steel			
	Castors	Polyamide			
Colour	Frame	RAL 7040			
	Castors	Black/dark grey			
Dimensions	Width (mm)	900	1200	1500	
	Depth (mm)	600	675	750	900
	Height (mm)	750	900		

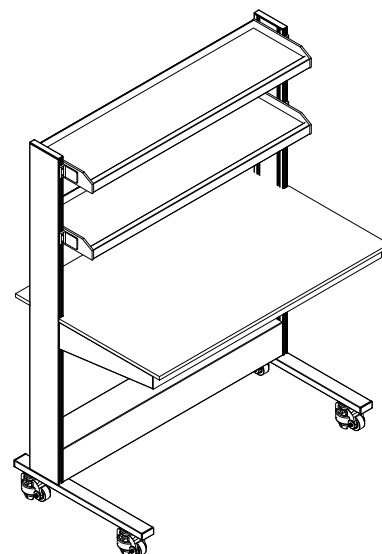


## Mobile Table with Adjustable Shelves

- Height adjustable shelves and worktop
- Supplied with four leveling castors for ease of movement and level setting
- Load capacity (kg): 300
- Available with various worktop materials

### Options:

- Lower shelf



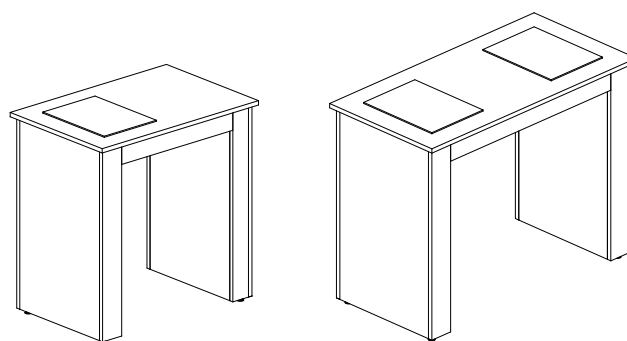
Material	Frame	Epoxy powder coated steel		
	Upright	Epoxy powder coated aluminum extrusion		
	Shelf units	Refer to service system section		
	Castors	Aluminum die cast with nylon wheel		
Colour	Frame	RAL 7040		
Dimensions	Width (mm)	900	1200	1500
	Depth (mm)	750		
	Height (mm)	1600		

## Balance Table

- Used for analytical balances and other sensitive measuring equipment
- Anti-vibration surface
- Heavy granite slab over shock absorbers

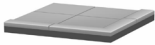
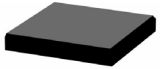
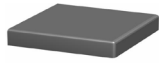


### Options:

- Aluminum skirting



	Frame	Epoxy powder coated steel		
	Panels	19 mm thick Melamine Faced MDF 19 mm thick HPL Faced Plywood		
	Slab	Natural granite		
Colour		White (RAL 9010)		
Dimensions	Width (mm)	900	1200	
	Number of slabs	1	2	
	Depth (mm)	750		
	Height (mm)	750		900
	Slab width (mm)	400		
	Slab depth (mm)	500		

# Worktops

	Worktops	Material	Properties	Thickness	Colour
	Epoxy Resin	<ul style="list-style-type: none"> <li>■ Monolithic and molded from a modified Epoxy Resin with smooth, non-glare finish</li> </ul>	<ul style="list-style-type: none"> <li>■ High resistance to chemicals</li> <li>■ Easy to clean</li> <li>■ Good heat resistance</li> <li>■ Surface sensitive to scratches</li> </ul>	19 mm	<ul style="list-style-type: none"> <li>■ Black</li> <li>■ Grey</li> </ul>
	Trespa TopLab <sup>PLUS</sup> ®	<ul style="list-style-type: none"> <li>■ Integrated, decorative surface, manufactured under high heat and pressure</li> <li>■ Based on pigmented, electron beam cured resins</li> <li>■ Crystal matte finish on top side</li> </ul>	<ul style="list-style-type: none"> <li>■ High resistance to chemicals</li> <li>■ Performs well in wet conditions</li> <li>■ Good heat resistance</li> <li>■ Easy to clean</li> </ul>	16 mm	<ul style="list-style-type: none"> <li>■ Black</li> <li>■ Grey</li> </ul>
	Solid Phenolic Resin	<ul style="list-style-type: none"> <li>■ Made from natural kraft paper and engineered as laboratory grade surfaces</li> <li>■ Processed under high heat and pressure to form composite panel</li> </ul>	<ul style="list-style-type: none"> <li>■ Performs well in wet conditions</li> <li>■ Good heat resistance</li> <li>■ Easy to clean</li> <li>■ Moderate resistance to chemicals</li> </ul>	16 mm	<ul style="list-style-type: none"> <li>■ Grey</li> </ul>
	Ceramic Tiles	<ul style="list-style-type: none"> <li>■ Mixture of clay, sand and other natural materials that are shaped into tiles and fired at high temperature</li> </ul>	<ul style="list-style-type: none"> <li>■ Excellent resistance to aggressive chemicals except hydrofluoric acid</li> <li>■ High scratch resistance</li> <li>■ Excellent heat resistance</li> </ul>	12 mm	<ul style="list-style-type: none"> <li>■ Grey</li> </ul>
	Ceramic Slabs	<ul style="list-style-type: none"> <li>■ Mixture of clay, sand and other natural materials that are shaped into slabs and fired at high temperature</li> </ul>	<ul style="list-style-type: none"> <li>■ Excellent resistance to aggressive chemicals except hydrofluoric acid</li> <li>■ High scratch resistance</li> <li>■ Excellent heat resistance</li> </ul>	20 mm	<ul style="list-style-type: none"> <li>■ Grey</li> </ul>
	HPL Faced Plywood	<ul style="list-style-type: none"> <li>■ Plywood covered with High Pressure Laminate and PVC edging strip</li> </ul>	<ul style="list-style-type: none"> <li>■ Strong and hard use in normal working surface and in dry laboratory area</li> <li>■ Not recommended in moist or wet area</li> <li>■ Low resistance to fire</li> </ul>	30 mm	<ul style="list-style-type: none"> <li>■ Grey</li> </ul>
	Melamine Faced MDF	<ul style="list-style-type: none"> <li>■ MDF covered with Melamine and PVC edging strip</li> </ul>	<ul style="list-style-type: none"> <li>■ Common used in mobile table and instrument benches</li> <li>■ Not recommended in moist or wet area</li> <li>■ Low resistance to fire</li> </ul>	30 mm	<ul style="list-style-type: none"> <li>■ Grey</li> </ul>

- Other worktop materials, thicknesses, and colours are available upon request
- Technical datasheet can be provided upon request



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# Storage

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Under-bench Storage

Sink Cabinets

Overhead Storage

Tall Storage

Chemical Storage

# Storage

**Protech's** storage units are available in a comprehensive range of configurations to suit various laboratory applications. Their modern design and robust construction guarantee efficient, safe, and pleasant working environment.

According to the selected bench system, you can choose from Under-bench Cabinets on Plinth, Suspended Under-bench Cabinets, and Mobile Cabinets. Where sinks are required, sink cabinets on plinth are available in various dimensions for both wall and center benches.

**Mosaic** Under-bench Suspended Cabinets are mounted on C-frame and H-frame benches and can be simply relocated. Under-bench cabinets on plinth can be provided with removable back-wall to allow for access to service lines. Plinth is provided with four concealed adjustment feet. Mobile cabinets are equipped with smooth running castors and can be moved easily around the laboratory.

**Mosaic** Overhead Storage Cabinets can be mounted on wall, service spine, or on top of Tall Storage Cabinets. Options include; solid panels, framed glass, and sliding glass doors.

**Mosaic** Tall Storage Cabinets provide high-density storage and ideal where benches are not required. You can select cabinets with open front, solid panel doors, framed glass doors, drawers or combination types.





Our robust cabinets are constructed from Melamine Faced MDF or HPL Faced Plywood making the cabinet surface easy to clean and withstand various laboratory uses. Edges are covered with impact resistant PVC edges.

**Mosaic's** 270° opening angle hinge is adjustable in three dimensions and tested for 100,000 cycles according to ANSI Grade 1, the hardest standard for furniture. Shelves are adjustable in 32 mm increments and supported by four lockable safety supports eliminating unintentional shelf movement.

Our standard drawer slides are made from heavy-gauge steel and withstand 30 kg load. With just a gentle tap, drawer closes alone. As an option, we offer a full extension and soft-closing drawer slide with load bearing capacity of 40 kg.

For storing acids, solvents, and flammable liquids, special chemical safety storage cabinets are required. **Protech** can supply various specialty cabinets either complying with American or European norms.

Our Storage units comply with the European Norm EN 14727:2005.



# Under-bench Storage

## Suspended Under-bench Cabinets

- Can be suspended on C-frame bench and H-frame bench
- Fully closed top
- For bench height of 750 mm and 900 mm
- Hinges with 270° opening angle, comply with ANSI Grade 1 standard
- Drawer Load Capacity (kg): 30
- Height adjustable shelves with safety shelf supports
- Shelf load capacity (kg): 30
- Doors and drawers are provided with soft plastic buffers

### Options:

- Full extension drawer slides, 40kg load capacity with self-closing mechanism
- Locks

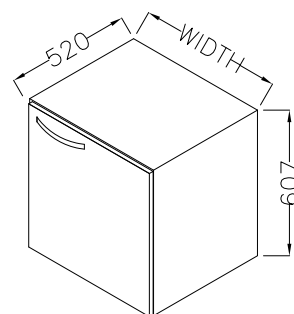
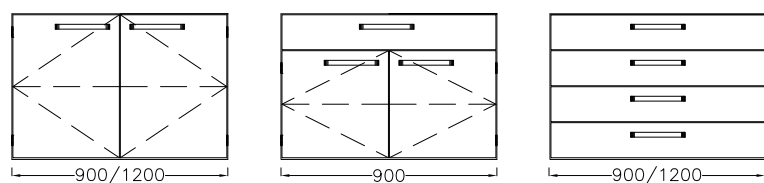
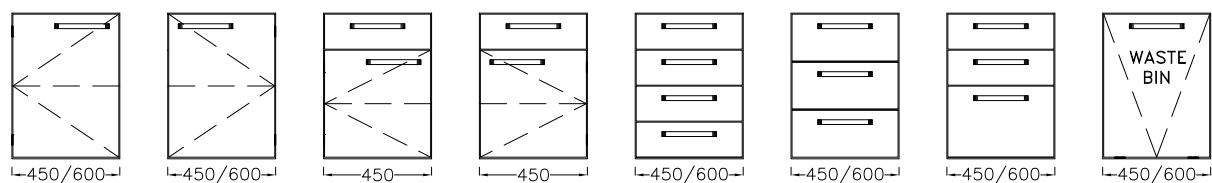
Material	Carcass, top, door, shelf and drawer front	19 mm thick Melamine Faced MDF 19 mm thick HPL Faced Plywood			
	Drawer bottom	12 mm thick Melamine Faced MDF 12 mm thick HPL Faced Plywood			
	Back-wall	6 mm thick Melamine Faced MDF			
	Drawer slides and sides	Powder coated steel			
	Hinge	Die-cast zinc, nickel plated			
	Handle	Die-cast aluminum, brushed chrome			
Colour	Carcass, top, drawer, and back-wall	White (RAL 9010)			
	Door and drawer front surface	White (RAL 9010) Light grey (RAL 7035) Blue (RAL 5023) Walnut			
	Door and drawer front edges	White (RAL 9010) Grey (RAL 7040)			
Dimensions	Width* (mm)	450	600	900	1200
	Depth (mm)	520			
	Height (mm)	457	607		

\* Suspended Under-bench Cabinets are available in other widths.

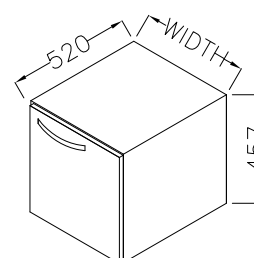
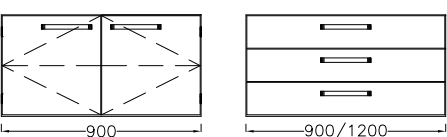
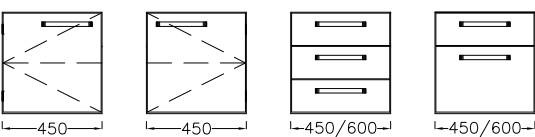
# Under-bench Storage

## Suspended Under-bench Cabinets

For 900 mm bench height



For 750 mm bench height





# Under-bench Storage

## Under-bench Cabinets on Plinth

- Floor mounted cabinets
- For bench height of 750 mm and 900 mm
- Plinth with four concealed adjustment feet
- Hinges with 270° opening angle, comply with ANSI Grade 1 standard
- Drawer load capacity (kg): 30
- Height adjustable shelves with safety shelf supports
- Shelf load capacity (kg): 30
- Doors and drawers are provided with soft plastic buffers

### Options:

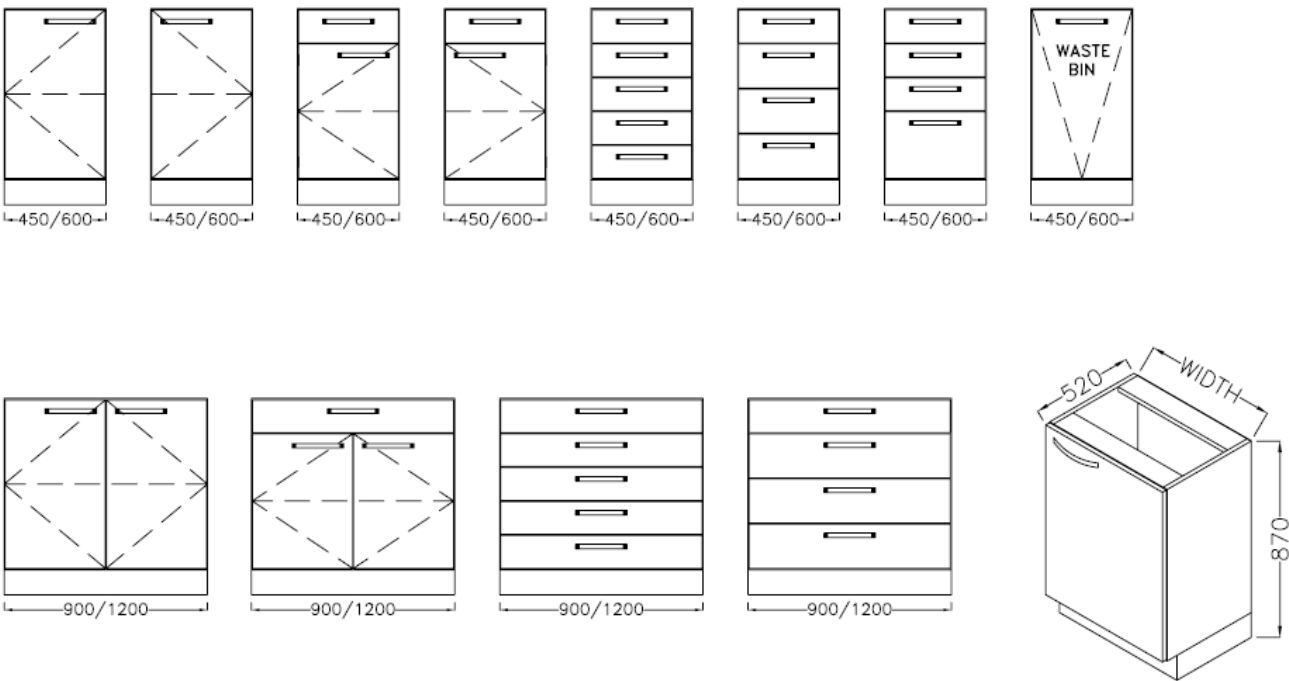
- Full extension drawer slides, 40kg load capacity with self-closing mechanism
- Locks
- Aluminum plinth protection
- Removable back-wall for easy access to service area

Material	Carcass, door, and drawer front	19 mm thick Melamine Faced MDF 19 mm thick HPL Faced Plywood			
	Plinth	19 mm thick HPL Faced Plywood			
	Back-wall	6 mm thick Melamine Faced MDF			
	Drawer bottom	12 mm thick Melamine Faced MDF 12 mm thick HPL Faced Plywood			
	Drawer slides and sides	Powder coated steel			
	Hinge	Die-cast zinc, nickel plated			
	Handle	Die-cast aluminum, brushed chrome			
Colour	Carcass	White (RAL 9010)			
	Door and drawer front surface	White (RAL 9010) Light grey (RAL 7035) Blue (RAL 5023) Walnut			
	Door and drawer front edges	White (RAL 9010) Grey (RAL 7040)			
	Plinth	Dark grey (RAL 7043)			
Dimensions	Width (mm)	450	600	900	1200
	Depth (mm)	520			
	Total height (mm)	720      870			
	Plinth height (mm)	110			
	Height adjustment (mm)	-0/+20			

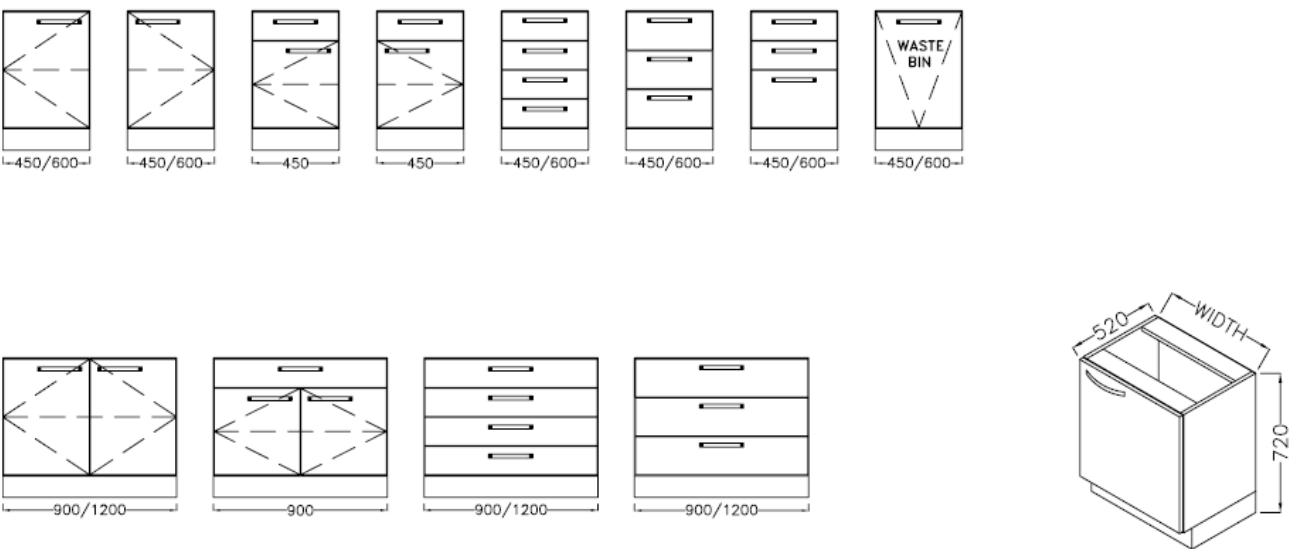
# Under-bench Storage

## Under-bench Cabinets on Plinth

For 900 mm bench height



For 750 mm bench height



# Under-bench Storage

## Mobile Under-bench Cabinets

- For C-frame bench and H-frame bench
- For bench heights of 750 mm and 900 mm
- Four swivel castors (two lockable)
- Each castor load capacity (kg): 70
- Hinges with 270° opening angle, comply with ANSI Grade 1 standard
- Drawer Load Capacity (kg): 30
- Height adjustable shelves with safety shelf supports
- Shelf load capacity (kg): 30
- Doors and drawers are provided with soft plastic buffers

Options:

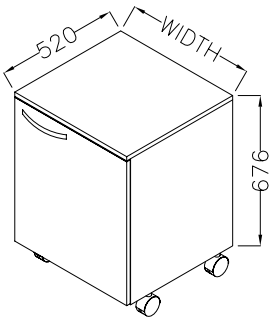
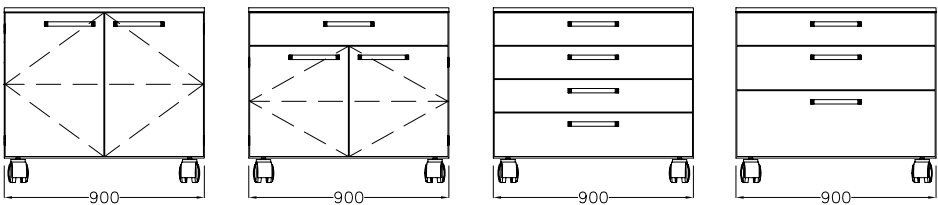
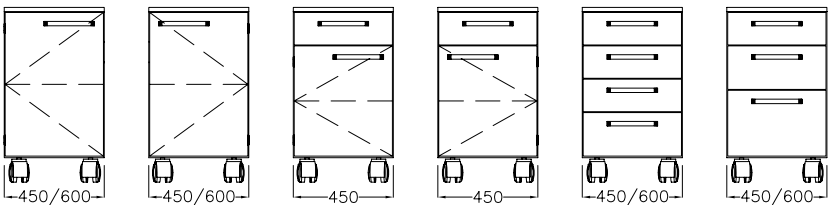
- Full extension drawer slides, 40kg load capacity with self-closing mechanism
- Locks

Material	Carcass, top, door, and drawer front	19 mm thick Melamine Faced MDF 19 mm thick HPL Faced Plywood			
	Back-wall and drawer bottom	12 mm thick Melamine Faced MDF 12 mm thick HPL Faced Plywood			
	Castors	Polyamide			
	Drawer slides and sides	Powder coated steel			
	Hinge	Die-cast zinc, nickel plated			
	Handle	Die-cast aluminum, brushed chrome			
Colour	Carcass and top	White (RAL 9010)			
	Door and drawer front surface	White (RAL 9010) Light grey (RAL 7035) Blue (RAL 5023) Walnut			
	Door and drawer front edges	White (RAL 9010) Grey (RAL 7040)			
Dimensions	Width (mm)	450	600	900	1200
	Depth (mm)	520			
	Total height (mm)	526	676		
	Castor diameter (mm)	60			

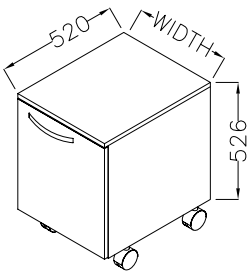
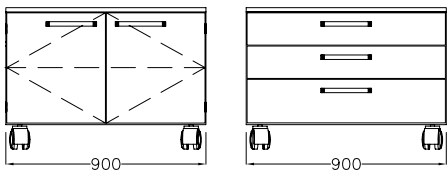
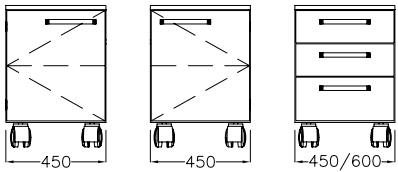
# Under-bench Storage

## Mobile Under-bench Cabinets

For 900mm bench height



For 750mm bench height



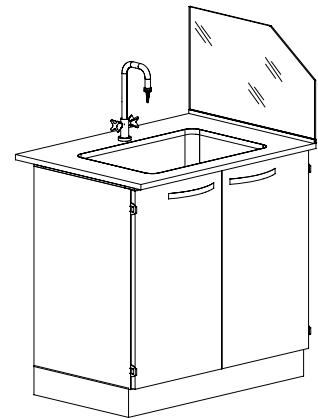
# Sink Cabinets

## Wall Sink Cabinets

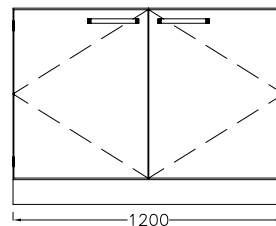
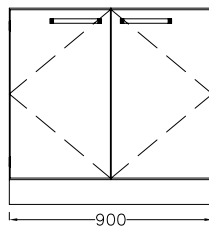
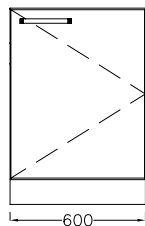
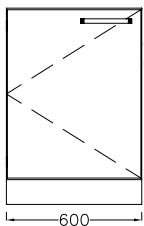
- Plinth with four concealed adjustment feet
- Hinges with 270° opening angle, comply with ANSI Grade 1 standard
- Doors are provided with soft plastic buffers
- Available with various worktop and sink material

Options:

- Waste bin
- Glass screen
- Aluminum plinth protection
- Waterproof base lining



Material	Carcass and door	19 mm thick Melamine Faced MDF 19 mm thick HPL Faced Plywood
	Plinth	19 mm thick HPL Faced Plywood
	Back-wall	12 mm thick Melamine Faced MDF 12 mm thick HPL Faced Plywood
	Hinge	Die-cast zinc, nickel plated
	Handle	Die-cast aluminum, brushed chrome
	Glass screen	10 mm thick clear tempered glass
	Base lining	Aluminum sheet
Colour	Carcass	White (RAL 9010)
	Door surface	White (RAL 9010) Light grey (RAL 7035) Blue (RAL 5023) Walnut
	Door edges	White (RAL 9010) Grey (RAL 7040)
	Plinth	Dark grey (RAL 7043)
Dimensions	Cabinet width (mm)	600      900      1200
	Cabinet depth (mm)	565
	Worktop depth (mm)	600      675      750      900
	Cabinet total height (mm)	870
	Plinth height (mm)	110
	Height adjustment (mm)	-0/+20



Special cabinets for wheelchair users are available upon request

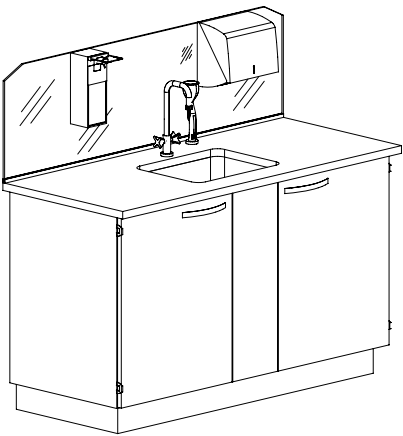
# Sink Cabinets

## End-Sink Cabinets

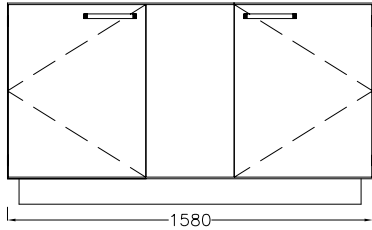
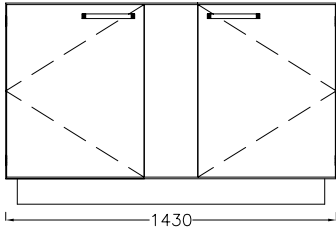
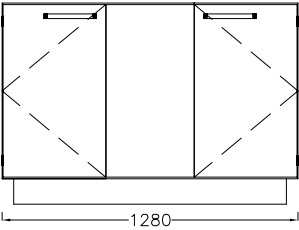
- Plinth with four concealed adjustment feet
- Hinges with 270° opening angle, comply with ANSI Grade 1 standard
- Doors are provided with soft plastic buffers
- Available with various worktop and sink material

Options:

- Waste bin
- Glass screen
- Aluminum plinth protection
- Waterproof base lining
- Soap and towel dispensers can be mounted on the glass screen



Material	Carcass and door	19 mm thick Melamine Faced MDF 19 mm thick HPL Faced Plywood		
	Plinth	19 mm thick HPL Faced Plywood		
	Back-wall	12 mm thick Melamine Faced MDF 12 mm thick HPL Faced Plywood		
	Hinge	Die-cast zinc, nickel plated		
	Handle	Die-cast aluminum, brushed chrome		
	Glass screen	10 mm thick clear tempered glass		
	Base lining	Aluminum sheet		
Colour	Carcass	White (RAL 9010)		
	Door surface	White (RAL 9010) Light grey (RAL 7035) Blue (RAL 5023) Walnut		
	Door edges	White (RAL 9010) Grey (RAL 7040)		
	Plinth	Dark grey (RAL 7043)		
Dimensions	Cabinet width (mm)	1280	1430	1580
	Cabinet depth (mm)	565	640	715
	Worktop depth (mm)	600	675	750
	Total cabinet height (mm)	870		
	Plinth height (mm)	110		
	Height adjustment (mm)	-0/+20		



Special cabinets for wheelchair users are available upon request

# Overhead Storage

## Wall Mounted Cabinets

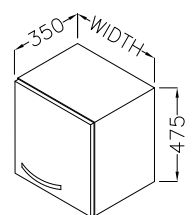
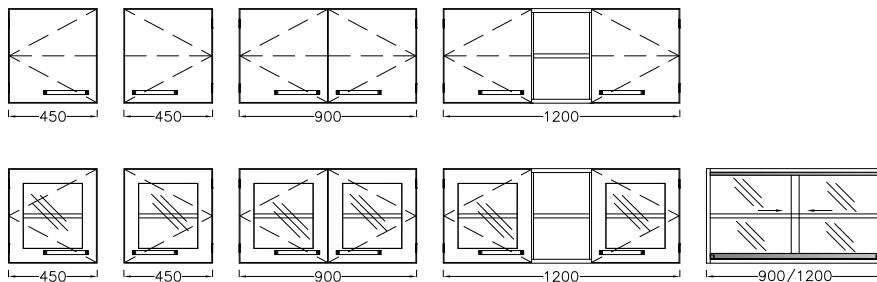
- For mounting on wall or on top of tall cabinet
- Available in two heights
- Hinges with 270° opening angle, comply with ANSI Grade 1 standard
- Height adjustable shelves with safety shelf supports
- Shelf load capacity (kg): 30
- Doors are provided with soft plastic buffers
- Cabinet with 1200 mm width are provided with vertical divider

Options:

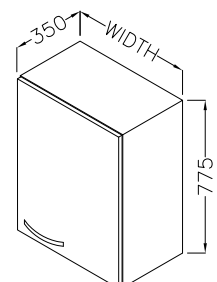
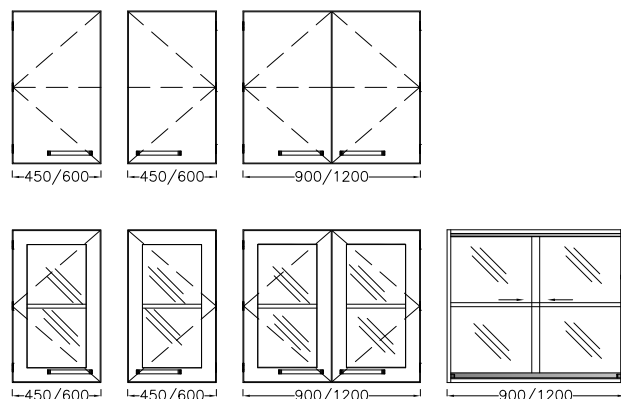
- Locks

Material	Carcass and door	19 mm thick Melamine Faced MDF 19 mm thick HPL Faced Plywood			
	Back-wall	6 mm thick Melamine Faced MDF			
	Hinge	Die-cast zinc, nickel plated			
	Handle	Die-cast aluminum, brushed chrome			
	Glass	5 mm thick clear tempered glass			
	Glass sliding system	Anodized aluminum			
Colour	Carcass	White (RAL 9010)			
	Door surface	White (RAL 9010) Light grey (RAL 7035) Blue (RAL 5023) Walnut			
	Door edges	White (RAL 9010) Grey (RAL 7040)			
Dimensions	Width (mm)	450	600	900	1200
	Depth (mm)	330/350			
	Height (mm)	475	775		

### 475 mm High



### 775 mm High



# Overhead Storage

## Service Spine Mounted Cabinets

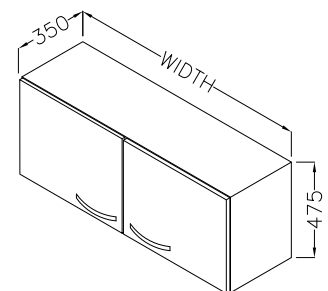
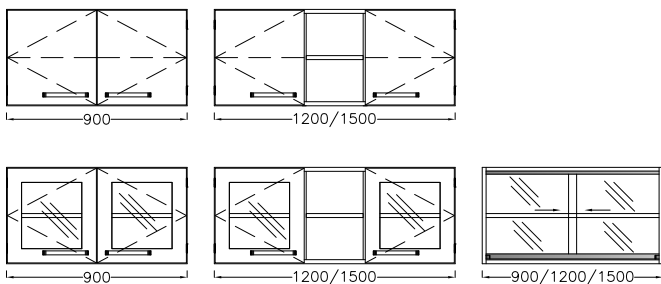
- For mounting on service spine
- Available in two heights
- Hinges with 270° opening angle, comply with ANSI Grade 1 standard
- Height adjustable shelves with safety shelf supports
- Shelf load capacity (kg): 30
- Doors are provided with soft plastic buffers
- Cabinet with 1200 mm and 1500 mm width are provided with vertical divider

Options:

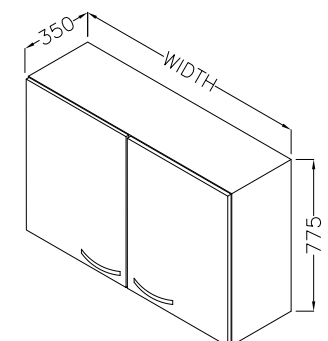
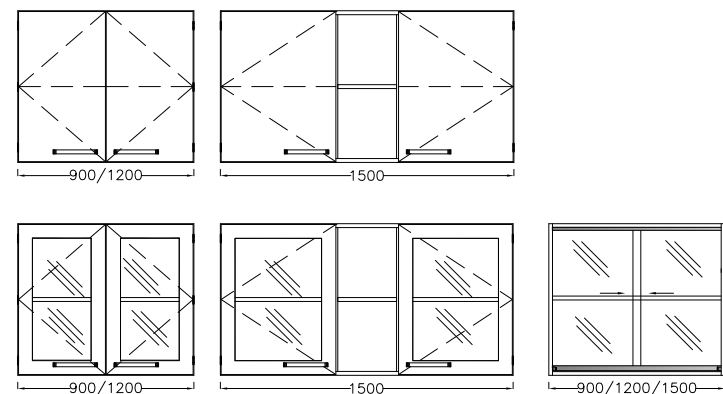
- Locks

Material	Carcass and door	19 mm thick Melamine Faced MDF 19 mm thick HPL Faced Plywood		
	Back-wall	6 mm thick Melamine Faced MDF		
	Hinge	Die-cast zinc, nickel plated		
	Handle	Die-cast aluminum, brushed chrome		
	Glass	5 mm thick clear tempered glass		
	Glass sliding system	Anodized aluminum		
Colour	Carcass	White (RAL 9010)		
	Door surface	White (RAL 9010) Light grey (RAL 7035) Blue (RAL 5023) Walnut		
	Door edges	White (RAL 9010) Grey (RAL 7040)		
Dimensions	Width (mm)	900	1200	1500
	Depth (mm)	330/350		
	Height (mm)	475	775	

### 475 mm High



### 775 mm High





# Tall Storage

## Tall Storage Cabinets

- Plinth with concealed adjustment feet
- Hinges with four 270° opening angle, comply with ANSI Grade 1 standard
- Drawer Load Capacity (kg): 30
- Height adjustable shelves with safety shelf supports
- Shelf load capacity (kg): 30
- Doors and drawers are provided with soft plastic buffers
- Overhead storage can be mounted on top of tall storage cabinets

### Options:

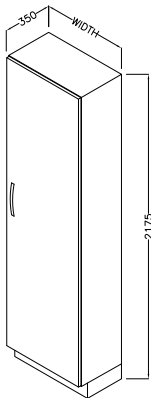
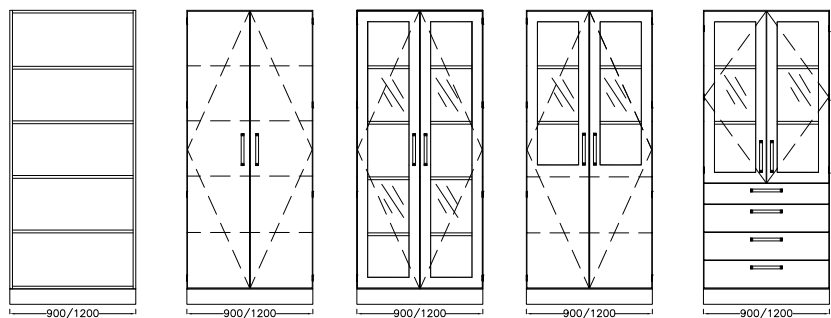
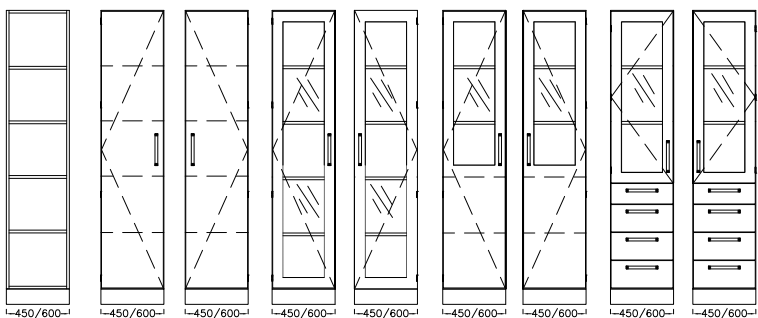
- Full extension drawer slides, 40kg load capacity with self-closing mechanism
- Locks
- Aluminum plinth protection

Material	Carcass, door, and drawer front	19 mm thick Melamine Faced MDF 19 mm thick HPL Faced Plywood
	Plinth	19 mm thick HPL Faced Plywood
	Drawer bottom	12 mm thick Melamine Faced MDF 12 mm thick HPL Faced Plywood
	Back-wall	6 mm thick melamine faced MDF
	Drawer slides and sides	Powder coated steel
	Hinge	Die-cast zinc, nickel plated
	Handle	Die-cast aluminum, brushed chrome
	Glass	5 mm clear tempered glass
Colour	Carcass	White (RAL 9010)
	Door and drawer front surface	White (RAL 9010) Light grey (RAL 7035) Blue (RAL 5023) Walnut
	Door and drawer front edges	White (RAL 9010) Grey (RAL 7040)
	Plinth	Dark grey (RAL 7043)
Dimensions	Width (mm)	450 600 900 1200
	Depth (mm)	330/350 500/520
	Total height (mm)	2175
	Plinth height (mm)	110
	Height adjustment (mm)	-0/+20

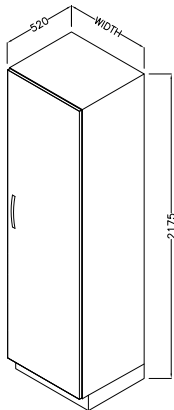
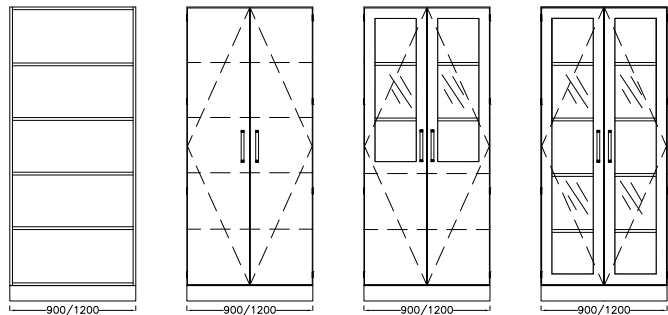
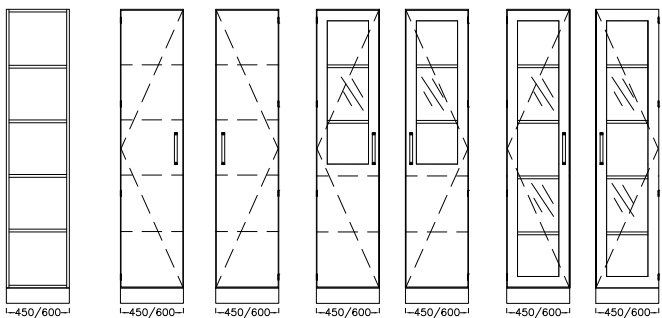
# Tall Storage

## Tall Storage Cabinets

500/ 520 mm deep



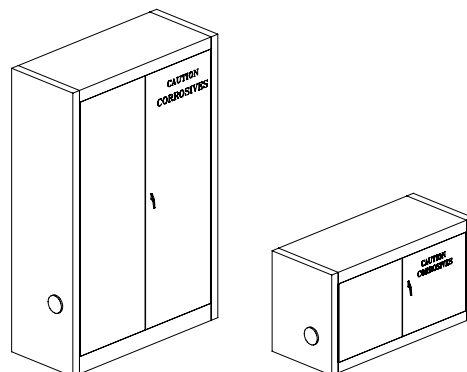
330/ 350 mm deep



# Chemical Safety Storage

## Acid /Corrosive Storage Cabinets in Compliance with OSHA and NFPA Code 30

- Ideal for storage of acids and corrosive liquids
- Reinforced double wall construction
- Available in two sizes; free-standing and add-on
- Ventilation with fire baffle and cap
- Not recommended for the storage of aggressive acids such as nitric, sulfuric and hydrochloric
- Bottom and shelves for free standing cabinets includes polyethylene tray to contain spills
- Supplied with warning label
- F.M approved for free standing cabinet



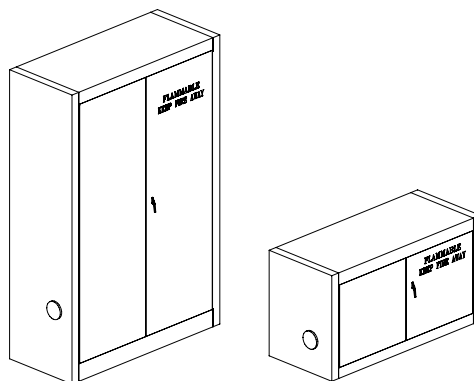
Options:

- Self closing door
- Extra shelves

Material	Cabinet and shelves	Special corrosion resistant powder coated steel	
	Tray	Polyethylene	
Colour		Blue	
Dimensions	Width (mm)	1092	
	Depth (mm)	457	
	Total height (mm)	565	1650
	Capacity (literes/ Gallon)	57/ 15	117/ 45
	Number of shelves	0	2

## Flammable Storage Cabinets in Compliance with OSHA and NFPA Code 30

- Ideal for storage of flammable liquids
- Reinforced double wall construction
- Available in two sizes; free-standing and add-on
- Ventilation with fire baffles and cap
- Free standing capinets are FM approval
- Supplied with warning label
- F.M approved for free standing cabinet



Options:

- Self closing door
- Extra shelves

Material	Cabinet	Powder coated 18-guage steel	
	Shelf	Galvanized steel	
Colour		Yellow	
*Dimensions	Width (mm)	1092	
	Depth (mm)	457	
	Total height (mm)	565	1650
	Capacity (literes/ Gallon)	57/ 15	117/ 45
	Number of shelves	0	2

Other dimensions are available upon request.

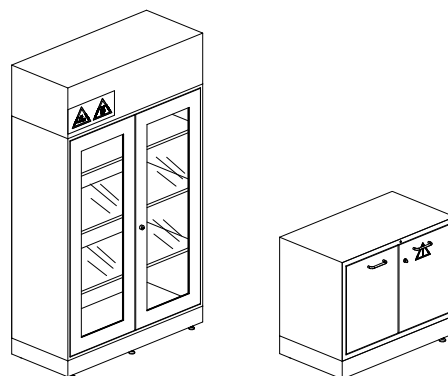
# Chemical Safety Storage

## Chemical Storage Cabinets in Accordance with EN 61010-1 and EN 14727 Norms

- Ideal for storage of chemical, acid and base products
- Completely produced in pickled and electrogalvanized steel
- TÜV certification for each product
- Doors opening up to 110° with acid-proof hidden hinges
- Adjustable shelves and one watertight bottom basin
- Security lock with key
- Supplied with warning label

### Options

- Spare filter
- Filter for formaldehyde
- Additional shelves



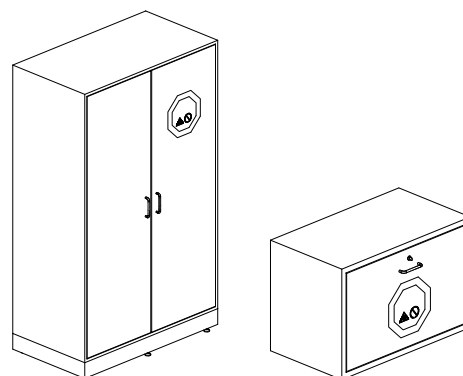
Material	Cabinet	Pickled and electrogalvanized steel			
	Shelves	Electrogalvanized steel painted with antiacid epoxide dust			
Colour		Yellow			
Dimensions	Width (mm)	600	900	1100	1200
	Depth (mm)	500	500	500	500
	Total height (mm)	1990	720	1175	1990
	Capacity (literes/ Gallon)	90/ 24	70/19	90/24	160/ 43

## Flammable Storage Cabinets in Accordance with EN 14470-1 and EN 14727 Norms

- Ideal for storage of liquid and solid flammable products
- TÜV certification for each product
- 90 minutes fire resistance – “Type 90”
- Completely produced in pickled and electrogalvanized steel
- Adjustable shelves and one watertight bottom basin
- Automatic thermic closure device at a temperature >50°C
- Internal ventilation system
- Safety catch
- Locking system with key and cylinder lock
- Supplied with warning label

### Options

- Forced ventilation system



Material	Cabinet	Pickled and electrogalvanized steel		
	Shelves	Electrogalvanized steel painted with antiacid epoxide dust		
Colour		Yellow		
Dimensions	Width (mm)	600	900	1200
	Depth (mm)	650	510	650
	Total height (mm)	1985	600	1985
	Capacity (literes/ Gallon)	100/ 27	60/ 16	160/ 43

Combination storage of chemical and flammable products are available  
Other dimensions are available upon request.



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## Fixtures and Complimentary Items

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Mechanical Fittings

Sinks and Bottle Trap

Emergency Washing Units

Draining Rack and Dispensers

Electrical Fittings

Seating

Trolley

# Fixtures and Complementary Items

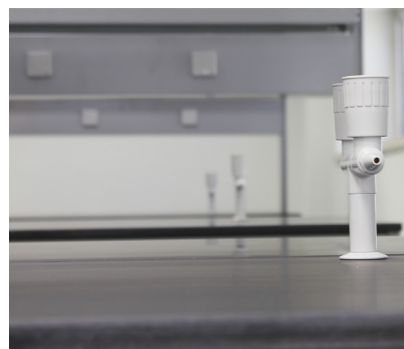
To ensure a fully functional laboratory, **Protech** offers an extensive range of durable, safe, and ergonomic fixtures and complimentary products designed according to scientific research. These equipment are necessary to facilitate laboratory procedures and enhance users' productivity and safety.

Our Mechanical and Electrical Fittings are procured from world trusted manufacturers to guarantee the highest performance and minimum maintenance.

Mechanical Fittings are made from high quality brass with chemical resistant powder coat finish. Fittings with chrome finish can be supplied upon request.

Fittings for Special Water Sorts are delivered with plastic inner pipe to avoid contact of media with brass. Fittings made of Stainless Steel can also be an option for Special Water Sorts.

Whether you require fittings for burning gases, 2.0 technical gases, oxygen, or pure gases, **Protech** provides a comprehensive range to fulfill all your requirements.



Based on the selected Service System, and to guarantee fully integrated solutions, **Protech** offers fittings that are suitable for mounting on the work top, service spine, and service wing.

Sinks displayed in this catalogue are among our highest demanded varieties. Other sink materials and sizes are available to suit various laboratories. When users are exposed to hazardous substances, it is essential to install emergency washing units inside the laboratory. **Protech** offers Emergency Showers and Eye-wash Units complying with the highest international health and safety standards.

High quality electrical devices are critical to the safe operation of any laboratory. A wide variety of electrical, data, media, and lighting fixtures complying with international standards are available to choose from. Power outlets can be supplied with IP2XD, IP44, and IP55 protection rating.

To enhance healthy working environment, we offer stylish and ergonomic stools and chairs as well as disinfectant, soap, and paper towel dispensers. Draining rack and trolleys are available to complete your laboratory furnishing.





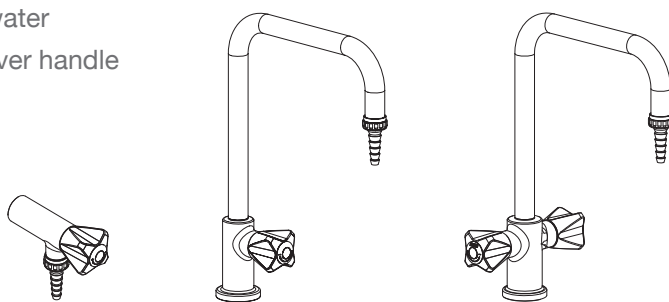
# Mechanical Fittings

## General

- All fittings are designed for laboratory use
- Fittings are made of high quality brass
- Surface of all fittings is treated with high chemical resistant coating
- Fittings are manufactured according to EN 29001/BS 5750 part 1 standard
- All fittings are delivered with coloured handle and text button indicating the media according to EN 13792
- Available upon request:
  - Fittings for 4.0, Oxygen, 5.0, and 6.0 pure gases are available upon request
  - Fitting with disability-friendly handles
  - Fitting with quick-release coupling

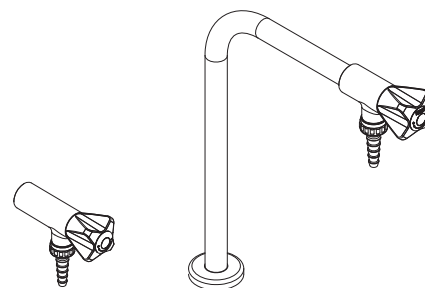
## Water Fittings

- For cold water, hot water, and hot/cold mixing water
- Available with normal handle and wrist action lever handle
- Maximum working pressure: 10 bar (147 psi)
- Temperature range 0-65°C



## Fittings for Special Water Sorts

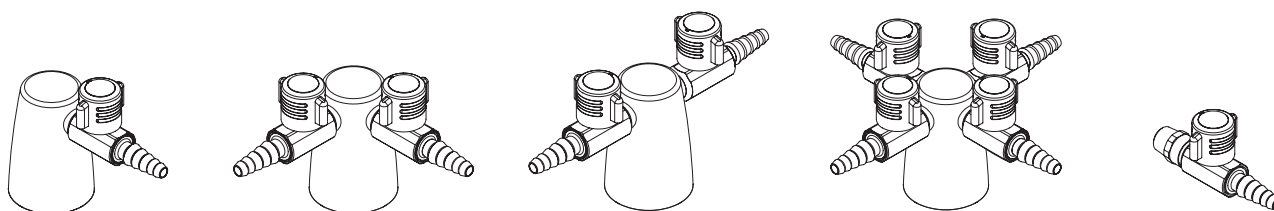
- For distilled, deionized, and pure water
- Opening/closing function: 1.5x360°
- Delivered with plastic inner pipe
- Available in stainless steel and fully recirculating feature
- Available with self-closing feature
- Maximum working pressure: 10 bar (147 psi)
- Temperature range 0-65°C



# Mechanical Fittings

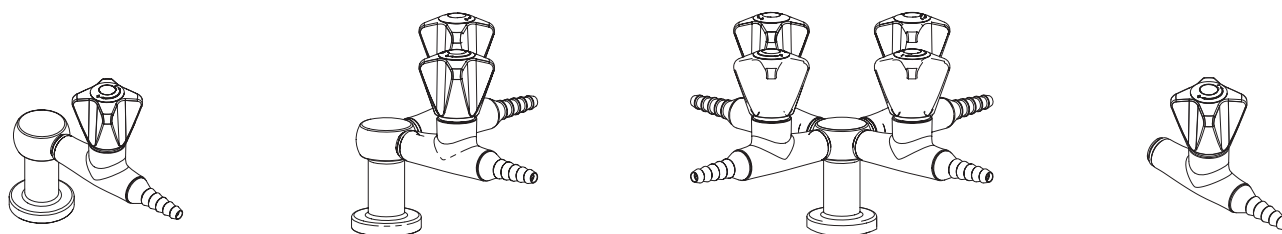
## Gas Fittings with Ball Valve

- For burning gases, compressed air, and vacuum
- Delivered with safety handle
- Opening/closing function: 90°
- Maximum working pressure: 7 bar (100 psi)



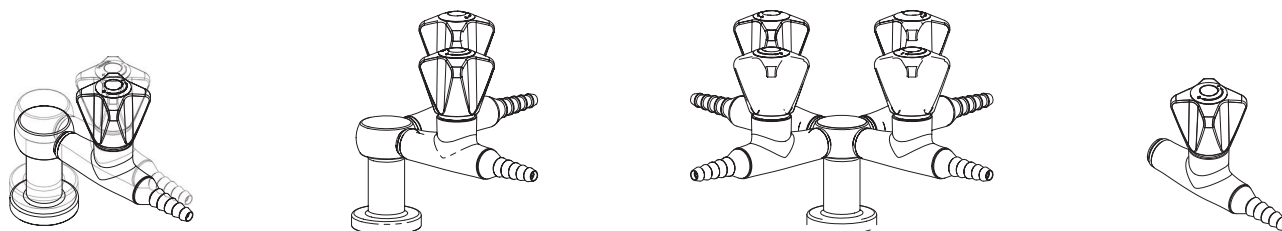
## Fittings for Burning Gases

- For natural gas, liquefied gas, and low pressure bottle gases
- Delivered with safety handle
- Opening/closing function: 90°
- Opening/closing function of 3x360° for fine regulation is available upon request
- Maximum working pressure: 7 bar (100 psi)



## Fittings for Non-Burning 2.0 Gases and Vacuum

- For technical and industrial non-burning gases that are 99% clean
- Opening/closing function for 2.0 gases: 3x360°
- Opening/closing function for vacuum: 1.5x360°
- Maximum working pressure for 2.0 gases: 16 bar (232 psi)
- Maximum working pressure for vacuum: 1-16 bar (14.5-232 psi)

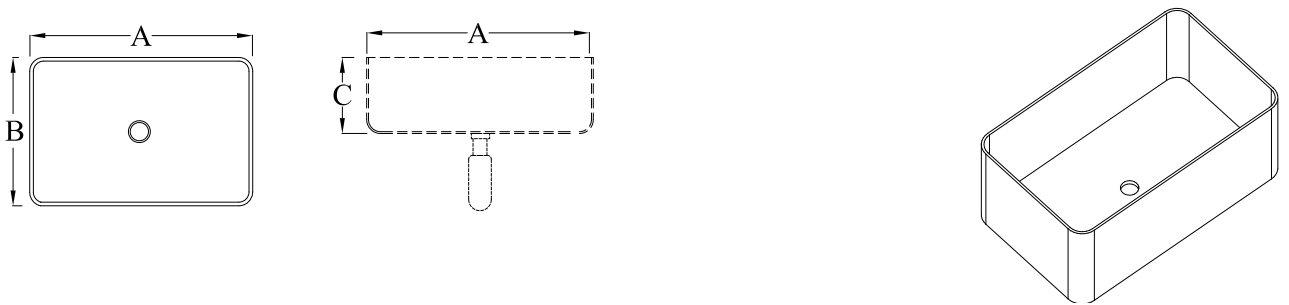


# Sinks and Bottle Traps

- All sinks are delivered with 1½” BSP outlet
- Disability-friendly sinks are available upon request
- Other sink material and sizes can be supplied upon request

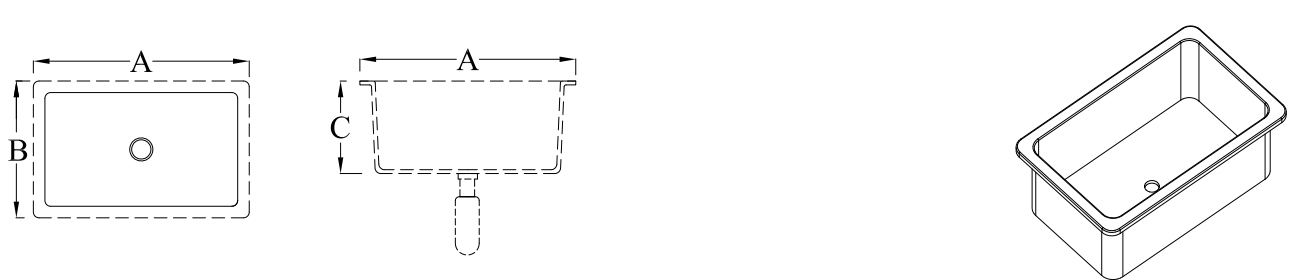
## Epoxy Resin Sinks

Material	Epoxy resin		
Colour	Black Grey		
Dimensions (mm)	A	406	610
	B	305	406
	C	203	203
	cup sink	A	B
		224	69



## Polypropylene Sinks

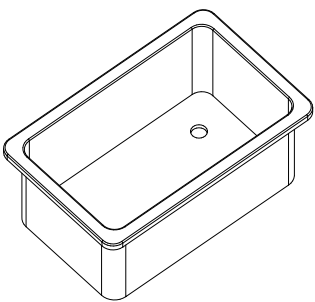
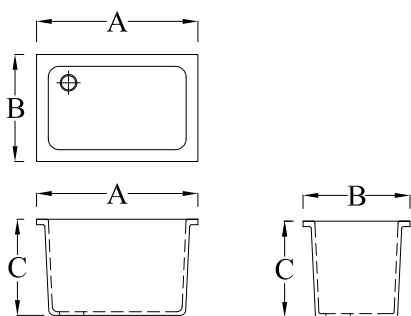
Material	Polypropylene		
Colour	Black Grey		
Dimensions (mm)	A	340	552
	B	340	440
	C	230	231
	Cup sink	A	B
		176	102



# Sinks and Bottle Traps

## Ceramic Sinks

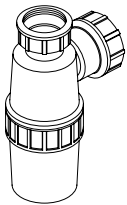
Material	Stoneware		
Colour	Wide range		
Dimensions	A	445	595
	B	295	445
	C	265	230
	Cup sink	A	B
		176	102



## Bottle Trap

- Provided with 1½" BSP loose nut couplig for connection to sink outlet
- Easy cleaned, by unscrewing the base from the body
- With 38 mm diameter inlet

Material	Polypropylene co-polymer resin		
Colour	Black		



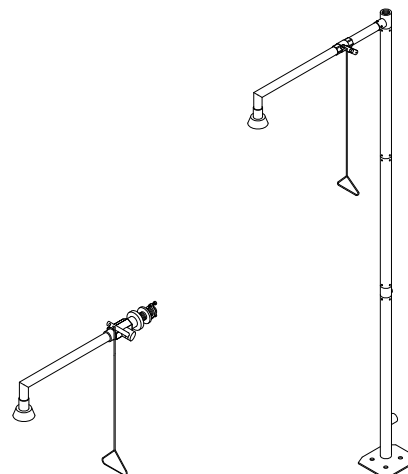
# Emergency Washing Units

## General

- Comply with both EN and ANSI standards
- Thermostatic mixing valve is recommended and available as an option
- Special disability-friendly types are available upon request

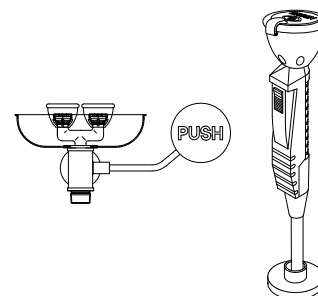
## Emergency Shower

- Body shower with self draining shower head
- In brass with high chemical resistant coating
- Minimum working pressure: 1-2 bar (14.5-29 psi) based on type
- Some models can be delivered with feet operated treadle



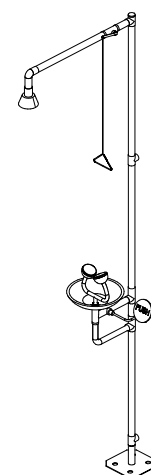
## Eye/Face washing Units

- Available for wall mounting and bench mounting
- Minimum working pressure: 1-2 bar (14.5-29 psi) based on type



## Emergency Shower and Eye Wash Combination Units

- Free standing models
- Minimum working pressure: 1.5 bar

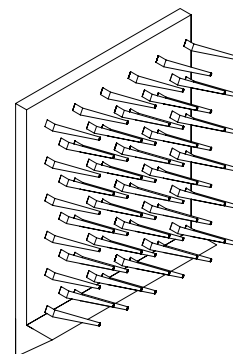


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## Drying Rack

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- Made of rigid High Impact Polystyrene
- Supplied with 72 push-in pegs
- Drainage hose attached to a seamless drip channel
- Supplied with mounting kit, draining hose, and fixing template
- Dimensions (mm): 450 (w) x 630 (h) x 110 (d)

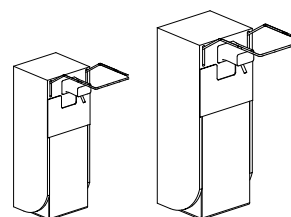


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## Soap and Disinfectant Dispenser

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- Ensure healthy environment by encouraging users to wash their hands
- Can be mounted on glass screen in sink unit, service spine or on laboratory walls
- Dispenser for disinfectant, soap, and lotion
- Silver anodized aluminium housing
- Stainless steel long lever for elbow operation
- High-density polyethylene (HDPE) bottle
- Exchangeable stainless steel pump
- Available in two sizes; 500 ml and 1000 ml
- Different dosage adjustment
- Dishwasher-proof and autoclavable
- Dimensions of 500 ml size (mm): 82 (w) x 245 (h) x 215 (d)
- Dimensions of 1000 ml size (mm): 92 (w) x 290 (h) x 225 (d)

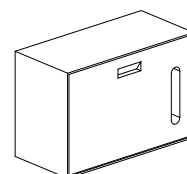


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## Paper Towel Dispensers

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- Dispenser for paper towel
- Suitable for all common C and Z folded paper
- Silver anodized aluminium housing
- Lockable front door
- Approximate capacity: 300 paper towel
- Dimensions (mm): 275 (w) x 185 (h) x 130 (d)

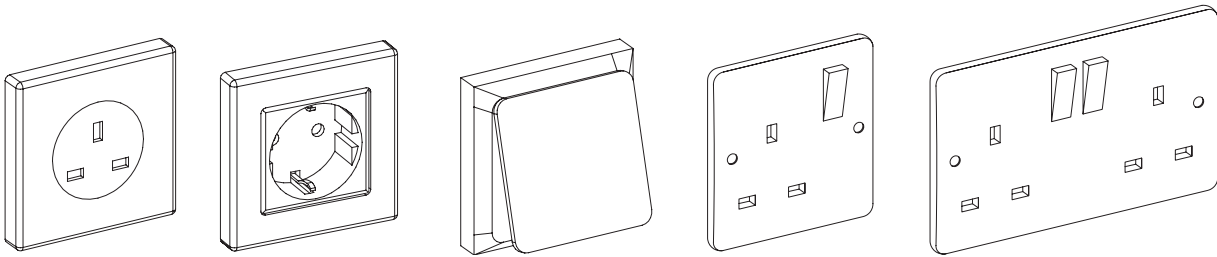


## Electrical Fittings

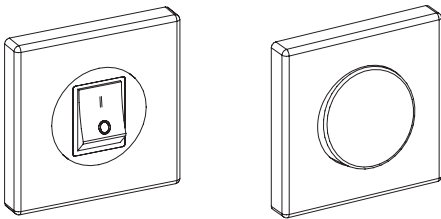
### General

- Electrical outlets can be mounted on service tiles, service panels or standouts
- Power outlets can be supplied with IP2 XD, IP44, and IP55 protection rating
- The standard power outlet is British type, 13A, 250V
- Power outlets complying with other standards are available upon request

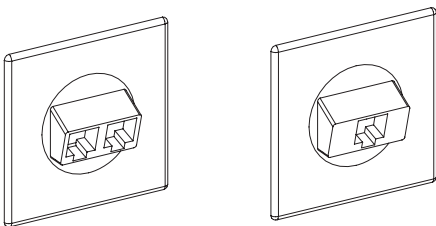
### Power Outlets



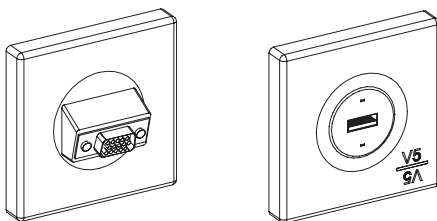
### ON/OFF Switches



### Data Outlets

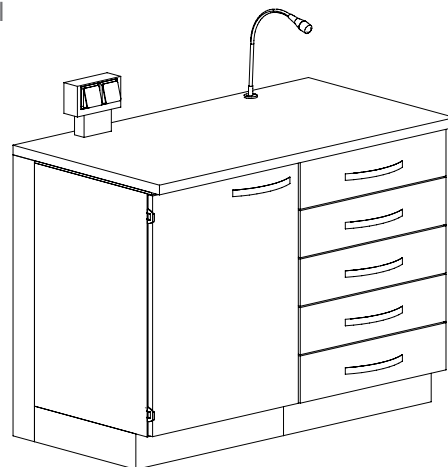


### TV/Multimedia Sockets

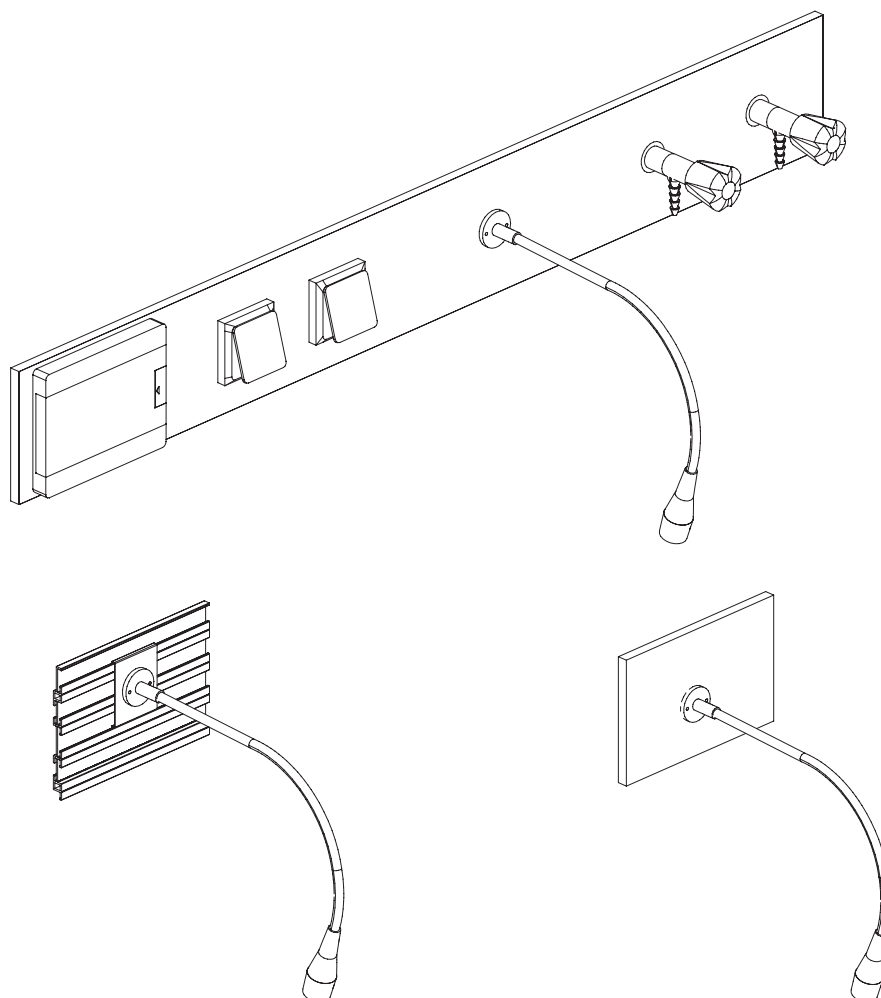


# Flexible LED Spotlight

- Can be mounted on worktop, tool rack, service tile, or service panel
- Provides pleasant uniform cone light
- On/off control from the light head
- Light colour (K): warm white (3000)
- Wattage (W): 2
- Light output (Lumen): 70
- Voltage: 12 V
- To be connected to LED driver



Material		Metal
Colour	Light	Warm white
	Finish	Silver grey
Dimensions	Head diameter (mm)	32
	Length (mm)	450

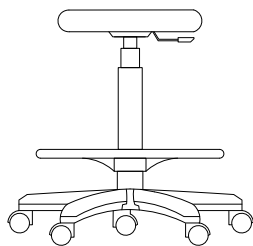




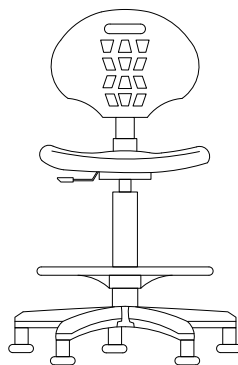
# Seating

- Ergonomic stools and chairs designed for laboratory use
- Seat and backrest are made of integral soft polyurethane (PU)
- Height adjustable seat
- Adjustable backrest
- Stools delivered with adjustable footrest
- Chair Can be delivered with glides instead of castors
- Other models are available upon request

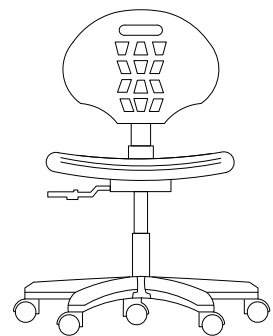
Material	Seat and backrest	Integral soft polyurethane (PU)
	Footrest	Chromed steel
	Base	Steel covered with polypropylene
Colour	Seat and backrest	Black
	Base	Black
	Footrest	Chrome
Dimensions	Seat height of stool without backrest (mm)	470-670
	Seat height of stool with backrest (mm)	510-700
	Seat height of chair (mm)	400-580



Stool without backrest



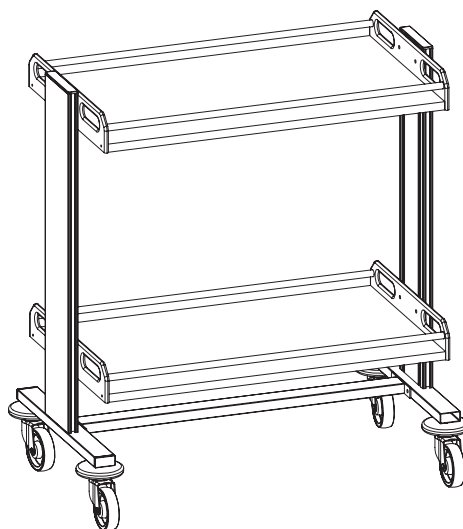
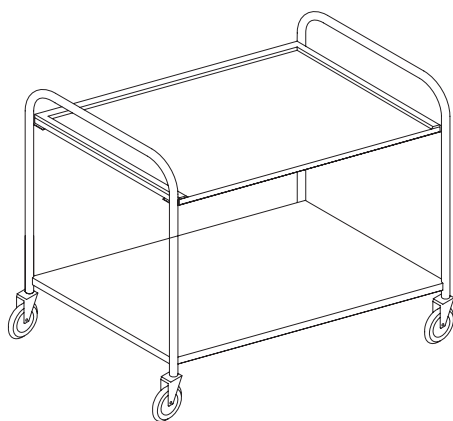
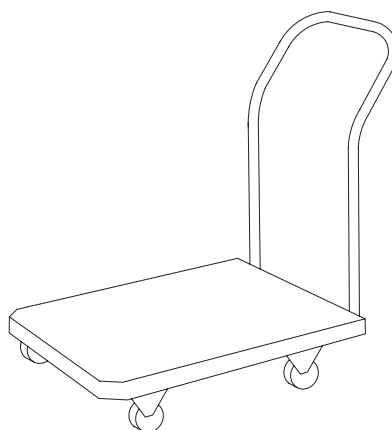
Stool with backrest



Chair

# Trolleys

- Wide range of trolleys for transportation equipment
- Easy to clean
- Ideal for hard, all-day use
- Load capacity up to 150kg
- Made of either polymer or plastic, nickel chrome, or stainless steel
- Supplied in a range of standard sizes
- Detailed information are available upon request





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# General

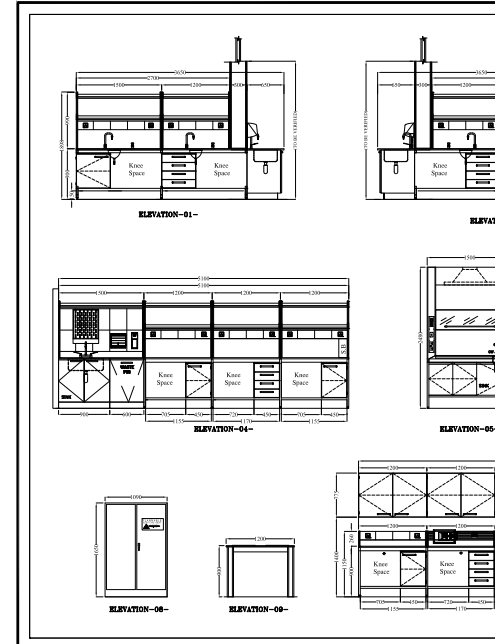
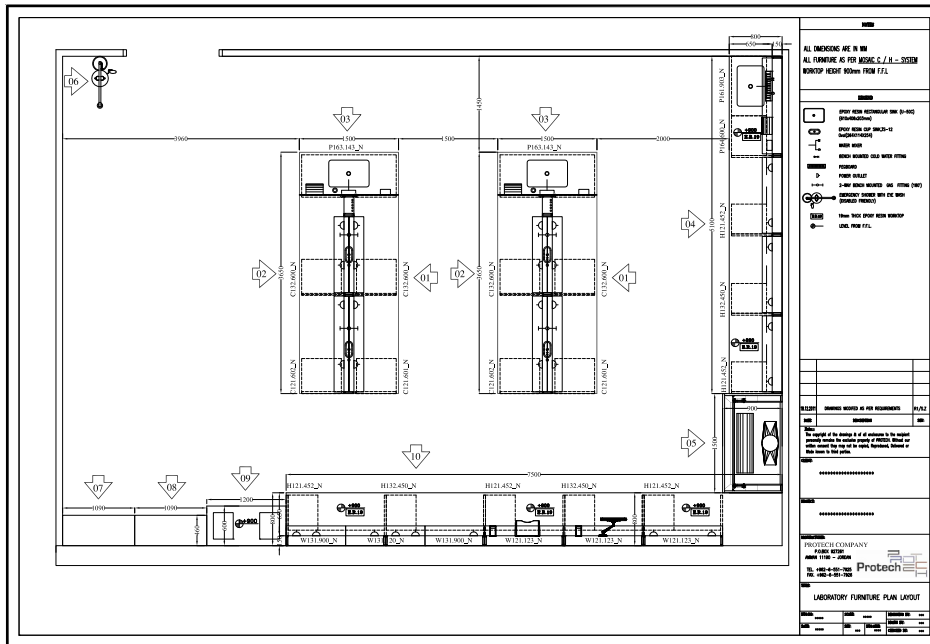
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Planning and Design Guidelines

Colour Scheme

Quality Standards

# Planning and Design Guidelines

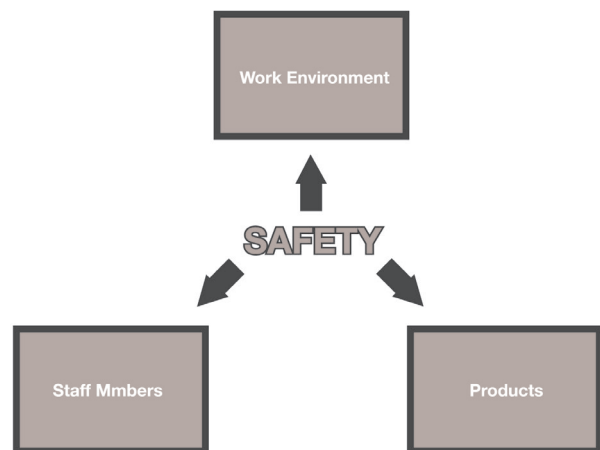


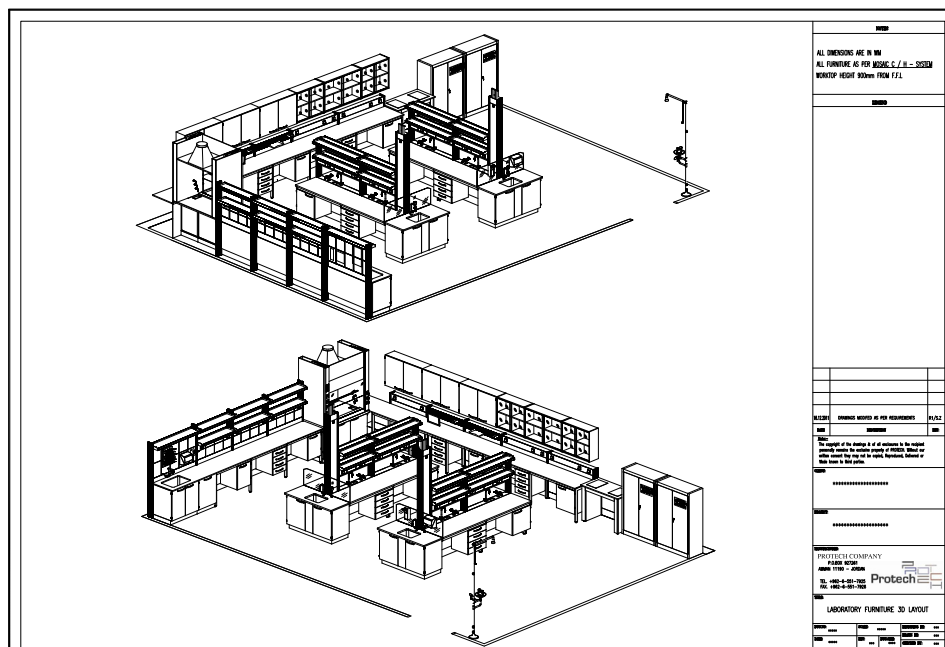
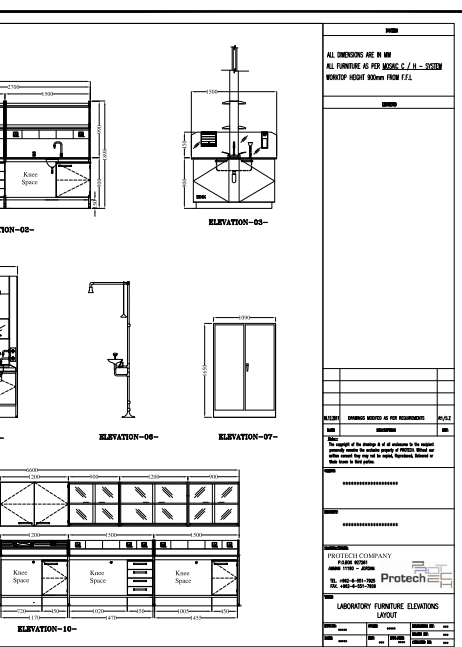
## Planning

Our competent design engineers are experienced enough to provide assistance to plan your future laboratory taking into account your specific requirements and international standards. We can support your laboratory planning processes to realize functional, flexible, and safe work environment within reasonable budget.

## Safety

All safety regulations are carefully considered in our activities including planning, design, manufacturing and installation aiming to create a safe work environment to laboratory users as well as to our staff. Ask our team to provide you with laboratory safety recommendations and guidelines.





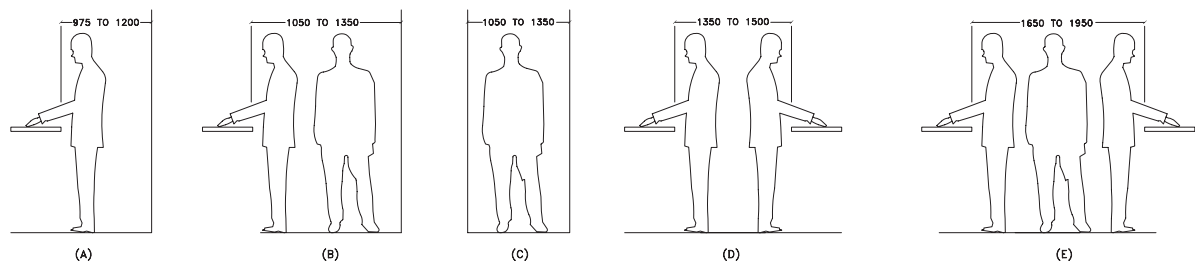
## How to design your laboratory with Mosaic?

It is easy to design your laboratory with our **Mosaic** Laboratory Furniture System. Contact our Sales Representative to assist you or follow the next 10 simple steps utilizing the guidelines listed in the following pages.

1. Review **Mosaic** introduction to get acquainted with system features and components.
2. Identify the laboratory type, area, functions, equipment, and number of users.
3. Select type of Service System by choosing from Service Spine, Service Column, and/or Service Wing according to the required degree of flexibility and method of service lines supply.
4. Choose Service System's add-ons and accessories from the Service System section.
5. Select the suitable type and height of Bench System, Tables, and Worktop.
6. Choose Under-bench Storage type, Overhead Storage, Tall Storage, and Chemical Safety Storage if required.
7. Select type and number of mechanical and electrical fixtures and sinks.
8. Select emergency washing units, considering safety guidelines stated in the following pages.
9. Choose complimentary items such as Draining Rack, Dispensers, Trolleys, and Seating.
10. Identify the required Fume Hood type, size, and number, considering location guidelines listed in following pages.

# Planning and Design Guidelines

## Recommended Aisle Space



A	One worker, not through traffic	975 mm to 1200 mm
B	One worker plus passageway	1050 mm to 1350 mm
C	Passageway only	900 mm to 1500 mm
D	Two workers back to back, not through traffic	1350 mm to 1500 mm
E	Two workers back to back plus passageway	1650 mm to 1950 mm

## Recommended Worktop Height

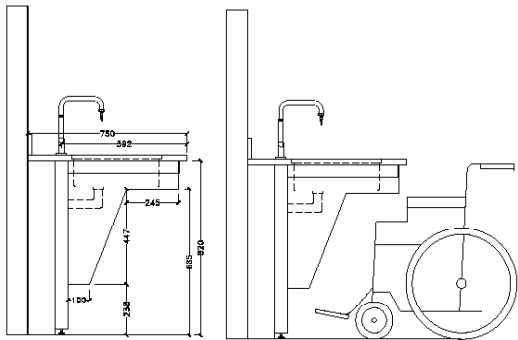
Age (Years)	Worktop (Standing)	Stool Height	Worktop (Seated)
Adults	850 mm to 950 mm	450 mm to 580 mm	700 mm to 750 mm
11 to 17	820 mm	580 mm	640 mm
9 to 12	760 mm	500 mm	580 mm
7 to 10	640 mm	430 mm	520 mm

## Disability-friendly Design



In designing a laboratory space, we can assist you in meeting the special requirements of disabled students/users. Elements that must be considered include:

- Door clearance, clear floor space, aisle width and turns
- Worktop height, depth, and knee clearance
- Storage and shelves
- Sinks and laboratory fixtures
- Fume Hoods
- Emergency devices



# Planning and Design Guidelines

## Worktops Selection Guidelines

According to the type of laboratory usage, worktops are varied to comply with demanded standards of each lab.

Use area	Consideration should be given to
Chemistry use area (such as: Organic, Inorganic, Bio-chemical, Analytical)	<ul style="list-style-type: none"><li>■ Chemical resistance</li><li>■ Ease of cleaning</li><li>■ Colour suitability</li><li>■ Strength</li><li>■ Abrasion resistance</li><li>■ Thermal shock resistance</li></ul>
Physics use area	<ul style="list-style-type: none"><li>■ Physical strength</li><li>■ Abrasion resistance</li><li>■ Impact resistance</li><li>■ Heat resistance</li></ul>
Biology use area	<ul style="list-style-type: none"><li>■ Stain resistance</li><li>■ Ease of cleaning</li><li>■ Abrasion resistance</li><li>■ Bacteria and fungus resistance</li></ul>
Special purpose use area where chemical resistance is a must (such as: Pathology, Hematology and other special Biochemical areas)	<ul style="list-style-type: none"><li>■ Impermeability</li><li>■ Ease of cleaning</li></ul>
Electronics area	<ul style="list-style-type: none"><li>■ Physical strength</li><li>■ Other task specific characteristics</li></ul>
Electrical area	<ul style="list-style-type: none"><li>■ Insulation characteristics</li><li>■ Dielectrics strength</li><li>■ Physical strength</li></ul>
Mechanical area	<ul style="list-style-type: none"><li>■ Physical abuse</li></ul>
Radioactive area	<ul style="list-style-type: none"><li>■ Contamination by radioactive materials</li></ul>
Thermal area	<ul style="list-style-type: none"><li>■ Temperature requirements</li></ul>



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# Planning and Design Guidelines

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## Fume Hoods Location Guidelines

Laboratory Fume Hood is a safety device designed to minimize chemical exposure to laboratory users. They are considered the primary means of protection from inhalation of hazardous vapors, mists and particulate matter. It is, therefore, important that Fume Hoods are located properly taking into consideration the following guidelines:

- Fume Hoods must be situated on the side of the room furthest from the door.
- Fume Hoods must be located so that persons exiting the laboratory do not have to pass in front of the hood.
- Fume Hoods must be located away from high traffic aisles.
- Fume Hoods must not be situated directly opposite occupied workstations.
- Windows in laboratories containing Fume Hoods must be closed.
- Avoid cross-currents at the Fume Hood face due to heating, cooling, or ventilating inlets.
- Safety equipment such as emergency washing units, fire extinguishers, fire blankets, and first aid kits must be located convenient to the Fume Hood user.

## Recommendations for Emergency Washing Units:

Emergency Washing Unit is required to provide an immediate and local method of decontamination following an exposure to a hazardous chemical. Emergency showers can also be used to effectively extinguish clothing fires and flush contaminants off clothing. Following are some recommendations related to the use of Emergency Washing Units:

- Emergency Washing Unit is required in the following areas:
  - Where chemicals such as corrosives, strong irritants, and toxic chemicals are used
  - Where infectious biological agents are used
  - Where eyes are exposed to physical hazards such as dust or chips
  - Where chemical transfer or mixing take place
- Emergency Washing Units shall be in unobstructed and accessible locations that require no more than 10 seconds (15 meters walking distance) for the injured person to reach.
- The pathway from potential exposure sites to emergency washing units must be free from obstructions.
- Electrical apparatus, telephones, thermostats, or power outlets should not be located within 45 cm of either side of the emergency washing unit (90 cm clearance zone).
- It is recommended to keep the water temperature within the range of 15°C to 25°C. Temperature in excess of 38°C is harmful and can accelerate chemical reactions. Prolonged contact with cold water can be harmful and discourage use of the equipment.
- Installation must meet the manufacturer's requirements including criteria for water pressure, flow rate and system testing.
- Emergency Washing Units must be properly maintained and tested regularly.
- To make the laboratory accessible to, and usable by, physically handicapped persons, use disability-friendly models.

# Planning and Design Guidelines

## Laboratory Room Datasheet



Customer:

Laboratory Name:

Floor:

# of Handicapped Stations:

Room No.:

Project Name/No.:

City/Country:

# of Users:

#	Item	Type	✓	Q	
Service System	1- Service Spine	FCS			
		SCS			
		SBS			
		FOS			
		SLS			
		BLS			
		BMS			
			BOS		
	*If you haven't selected any type of spine , go to #5				
	2- Panels	Service Tiles			
Service Panel					
Tool Rack					
*If you have selected Tool Rack, answer #3, if not move to point #4					
Benches	3- Tool Rack Accessories	LCD Arm			
		Storage Bins			
		LED Spotlight			
		Hook			
	4- Service Spine Add-ons	Shelf Unit			
		Shelf Unit with LED Light			
		Overhead Cabinet			
	5- Service Wing	Laboratory scaffolding			
		CSW			
		SSW			
6- Service Column					
Benches	7- Bench Height	Sitting Height 750 mm			
		Standing Height 900 mm			
	8- Bench Systems	C-Frame			
		H-Frame			
		Plinth			
	9- Worktops	Trespa Toplab Plus			
		Epoxy Resin			
		Ceramic Tiles			
		Ceramic Slabs			
		Solid Phenolic Resin			
Plywood with HPL					
	Melamine Faced MDF				
10- Tables	Free Standing				
	Free Standing with Drawers				
	Mobile C-Frame				
	Mobile H-Frame				
	Balance Table				

#	Item	Type	✓	Q
11-	Under-bench Storage	Suspended (On H-Frame or C- Frame Benches)		
		On Plinth		
		Mobile Cabinets		
12-	Other Storage	Acid/ Corrosive Storage OSHA I EN		
		Flammable Storage OSHA I EN		
		Overhead , Wall Mounted		
		Tall Storage		
		Adjustable Shelving		
13-	Sink	Epoxy Resin Sink		
		Polypropylene Sink		
		Stainless Steel Sink		
14-	Water Fitting	Mixer		
		Cold Water		
		Special Water		
15-	Gas Fitting	Burning Gas (LPG)		
		Compressed Air (CA)		
		Vacuum (VAC)		
		Other:		
16-	Electrical Fitting	Power Outlet		
		Data Outlet		
		TV/ Multimedia Socket		
		On/ Off Switches		
		LED Spotlight		
17-	Emergency Unit	Emergency Shower		
		Eye Wash Unit		
		Emergency Shower Eye Wash Combination Unit		
18-	Seating	Stool without Backrest		
		Stool with Backrest		
		Chairs		
19-	Other Items	Draining Rack		
		Trolley		
		Disinfectant and Soap Dispenser		
		Paper Towel Dispenser		
20-	Fume Extract	Bench Mounted Fume Hood		
		Walk-In Fume Hood		
		Local Extractor		
21-	You can add any other request or note Here			

Electromechanical Points Locations: ☐ Already Existing/ Determined ☐ Services will be based on Laboratory Furniture Design

Electromechanical Services (Except Drain) will be: ☐ Built in Wall/ Floor ☐ Dropped from Ceiling

Attachments: ☐ Room Drawing ☐ Furniture Layout ☐ Electromechanical Drawing

☐ Equipment Layout ☐ Others

Cabinet Door and Drawer Surface Colour: ☐ White ☐ Blue ☐ Grey ☐ Walnut

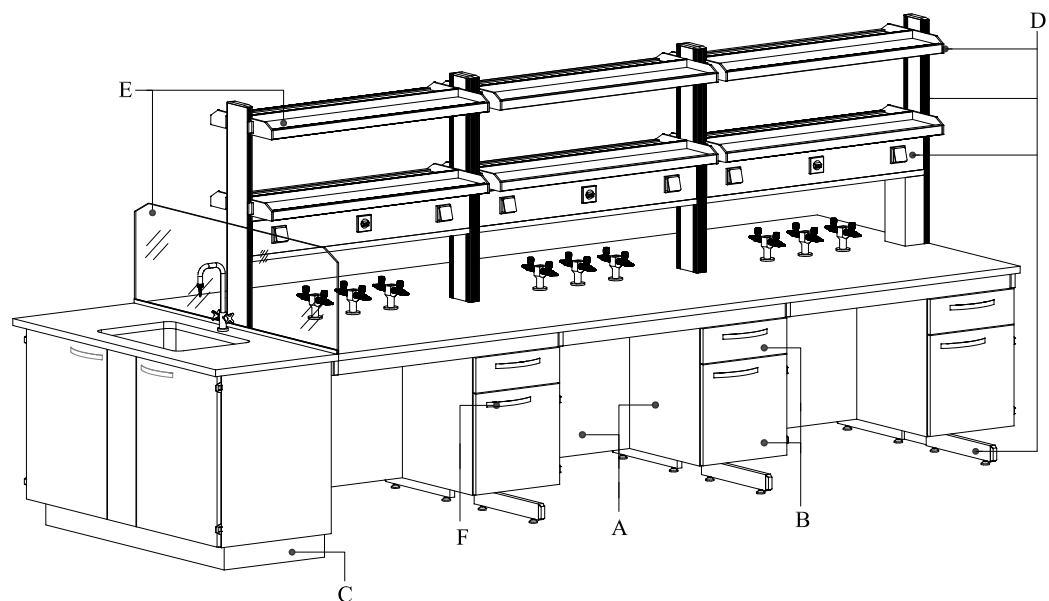
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Email \_\_\_\_\_ Date \_\_\_\_\_

# Colour Scheme

We realize that excellent quality has to be associated with outstanding image; eventually both are reflected on our system to achieve pleasant and functional work place.

The following illustration are provided to facilitate and visualize the colour selection.



A	Cabinet carcass	White Surface and Edges ((RAL 9010))	
	Filler panels		
B	Cabinet doors and drawer fronts	White Surface and Edges ((RAL 9010))	
		Light Grey Surface (RAL 7035) and Grey Edges (RAL 7040)	
		Blue Surface (RAL 5023) and Grey Edges (RAL 7040)	
		Walnut Surface and Edges	
C	Plinth skirting	Dark Grey (RAL 7043)	
D	Bench frames and service system	Grey (RAL 7040)	
E	Glass screen and shelf panel		
F	Handles	Aluminum Brushed nickel	

## Notes:

- Colours shown here might not be accurate due to technical printing limitations. Actual colour samples are available upon request.
- RAL Colours in this catalogue should be considered as indication only. In practices, differences may be experienced between RAL colours and actual material colours

# Quality Standards

Standard	Content
ISO 9001:2000	Quality management system
EN 13150	Workbenches for laboratories. Dimensions, safety requirements and test methods
EN 14727	Laboratory furniture-storage units for laboratories-requirements and test methods
EN 14056	Laboratory furniture. Recommendations for design and installation
EN 14175	Fume cupboards. Vocabulary, Safety and performance requirements, and Type test methods
EN 14470	Fire safety storage cabinets: Safety storage cabinets for flammable liquids
EN 61010	Safety requirements for electrical equipment for measurement, control, and laboratory use
OSHA/NFPA CODE 30	Acid/ Corrosive storage cabinets
OSHA/NFPA CODE 30 / FM	Flammable Storage Cabinets, FM designates factory mutual tested and approved
EN 13792: 2002	Colour coding of taps and valves for use in laboratories
EN 15154	Emergency safety showers - Plumbed-In body shower and Plumbed-IN Eye wash units
EN 435:2005	High-pressure decorative laminates (HPL)

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## Other Prudocts

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Fume Extractions Systems

Ergonomic Industrial Workstations

Lockers Systems

# Fume Extractions Systems

Working in laboratories where gases, vapors, particulate matter or liquids in dangerous quantities and concentrations compulsory to be carried out, **Protech**'s Fume Extractions Systems have been developed in high performance, easy to use and long-lasting systems to minimize chemical exposure and ensure working on a healthy laboratory environment.

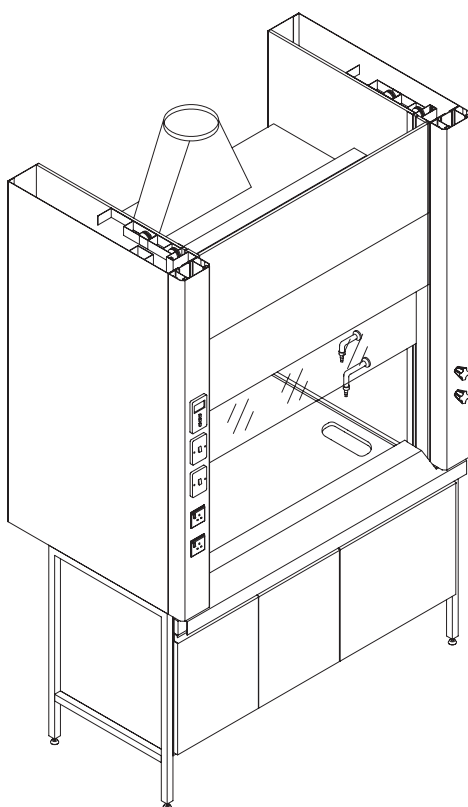
From basic apparatus to special purpose system, our Fume Extraction Systems ensure high level of safety and cost effectiveness, which include **Bench Mounted Fume Hoods, Walk-In Fume Hoods, Local Hood Extractor, Canopy Hood**. We also design and supply VAV system on multiple fume hoods to save energy. Our durable and high quality Fume Extractions Systems are focused on reducing maintenance time and cost.

## Bench Mounted Fume Hoods

Clear air is essential to every laboratory; **Protech** developed different bench mounted fume hoods systems according to the users' requirements at the same time to ensure working in a healthy climate. All our fume hoods systems have been designed to protect the users at all times by incorporating the highest number of operational and constructive safety measures possible.

Advantages of our Bench Mounted Fume Hoods:

- Can be equipped with a cup sink
- Can be equipped with lighting, water, gas and power supply
- Can be easily set up on a bench
- Optional integrated fan
- Constant air volume system with control face velocity
- Protection from inhalation of hazardous vapors, mists, and particulate matter
- Movable sash allows the user to restrict or enlarge easily the fume hood opening



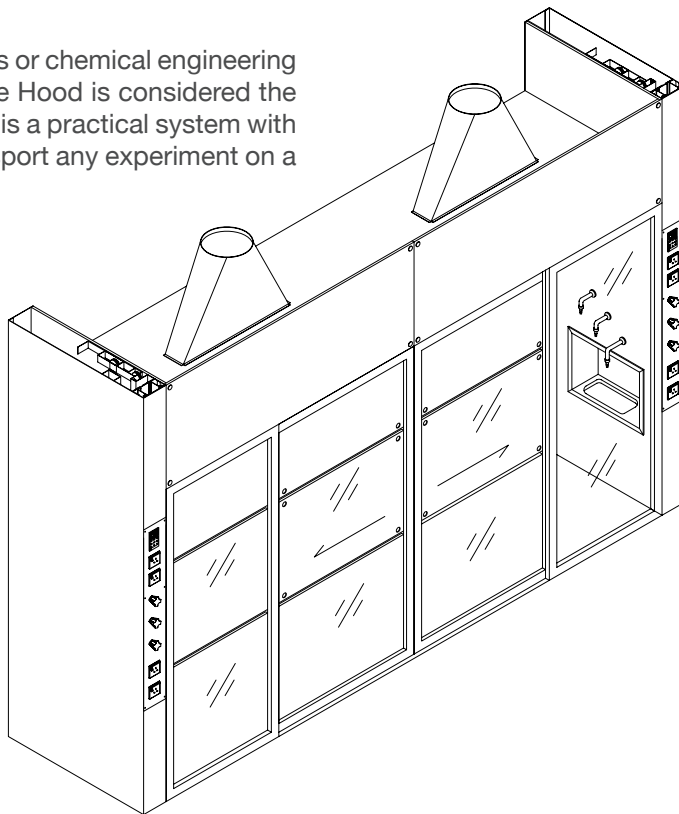
# Fume Extractions Systems

## Walk- In Fume Hood

When large machinery installations for general uses or chemical engineering applications are required, **Protech's** Walk-In Fume Hood is considered the best solution for such cases. Walk-In Fume hoods is a practical system with a work area that reach to the floor, can easily transport any experiment on a free standing table to another desired spot.

Advantages of our Walk- In Fume Hood:

- Sit directly on the floor
- Has proper lighting
- High degree of safety
- Sash completely opened
- Very tall and deep chamber suited to large machinery installation and equipment

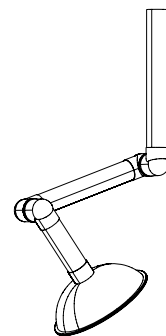


## Local Hood Extractor

Small hood extractor with extraction arms can be mounted where suction is needed for example, laboratory walls, and service spine and service wing. The extractions arms can be provided with different hoods depending on the application.

Advantages of our Local Hood Extractor:

- Control the gases on the bench and on targeted area
- Extraction arms for locally restricted emissions
- Extraction power where it is needed
- Suited when different room heights are available

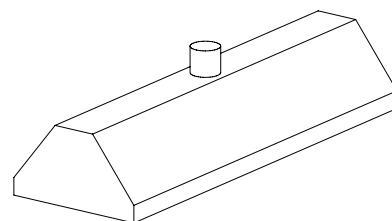


## Canopy Hood

**Protech** are always willing to provide high quality Fume Extractions solutions to ensure healthy environment in every laboratory. Canopy is immutable hood solution fixed on the ceiling, can easily extract aggressive gases to prevent unpleasant atmosphere at working area.

Advantages of our Canopy Hood:

- Horizontal enclosures having an open central duet suspended above a work bench or other area
- Very safe and cost effective solution
- Can extract destructive gases and vapors without difficulty



# Ergonomic Industrial Workstations

Every work place must possess a high degree of adaptability that can be easily incorporate with new technologies, accordingly, **Protech** developed ergonomic industrial workstation where instrumentations, equipments, and high qualified personnel act together compiling integrating of operation, quality and safety.

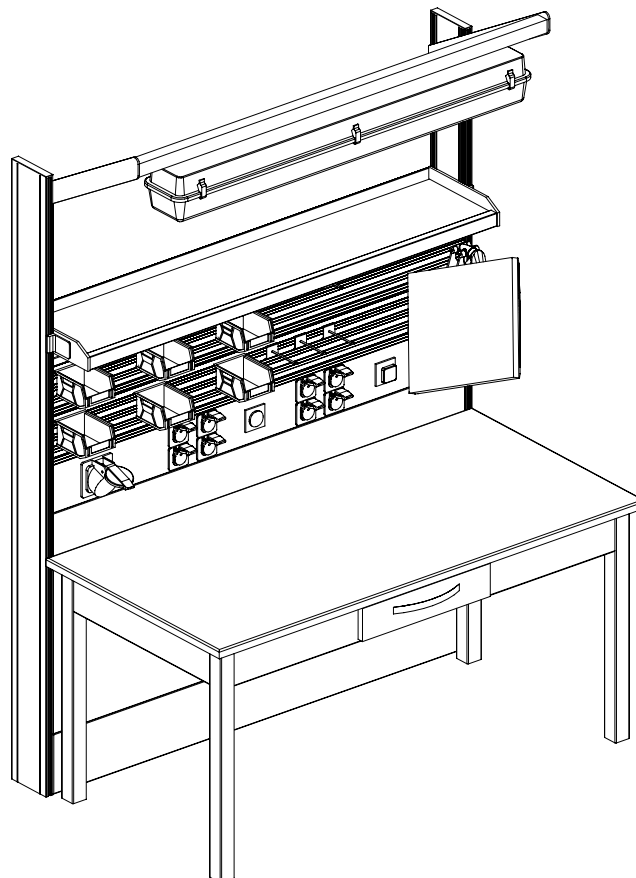
Our modular industrial workstations can be custom engineered to meet users' particular requirements by utilizing specialized and high quality components and accessories.

Advantages of **Protech's** Ergonomic Industrial Workstations:

- Improve productivity
- Reduce lost work hours
- Operator adjustable
- Reduce the risk of repetitive injuries

Usage for:

- Component assemble
- Shipping and packaging
- Manufacturing
- Electronic assembly
- Engineering laboratories
- Service centers
- R&D centers





# Lockers Systems

However demanding the location is and whatever the customer's requirements are, **Protech** developed stylish, flexible and hard-working Lockers Systems.

Our fittings and choice of materials are high quality made to ensure long lasting, and our extensive range of colours and finishes provides you with the opportunity to create visual impact.

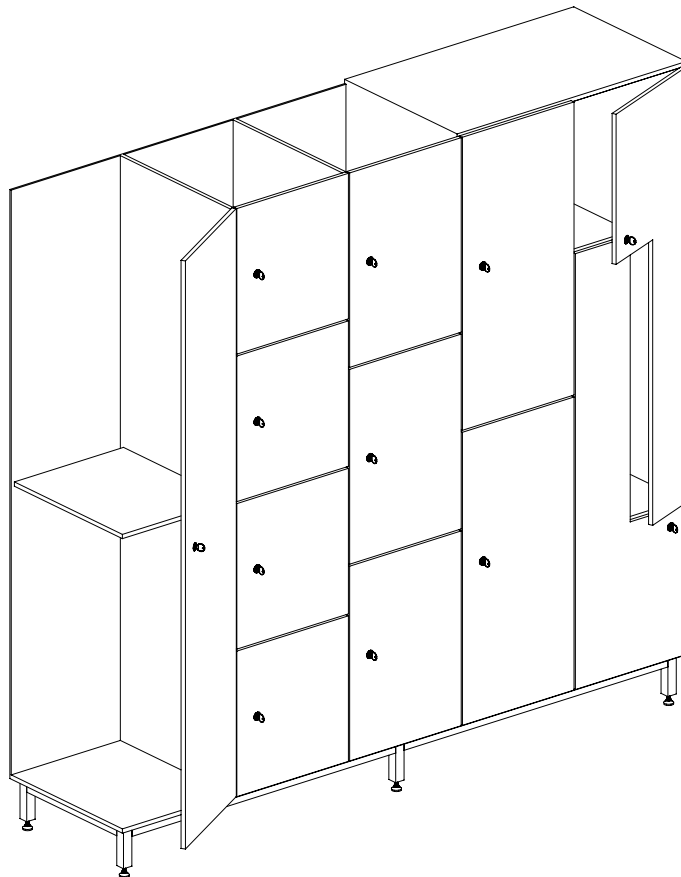
Our lockers, changing benches and bench lockers were created for maximum flexibility. Available in two widths and a range of heights, our lockers are sturdy, impact-resistant and impervious to moisture.

Advantages of **Protech's** lockers systems:

- Complete size and configuration flexibility
- Lock options to suit any requirement
- Scratch and water resistant
- Easy to clean

Usage Area

- Health and sport clubs
- Airports
- Hotels
- Swimming pools
- Mall and office building
- Parks & recreational centers
- Schools, colleges, and universities



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