

# Köttermann Laboratory Furniture.

Functional and flexible



# We fulfill your requirements.

An integrated furnishing concept.



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### Overview of laboratory furniture

#### Laboratories for the future - with safety

The EXPLORIS® laboratory from KÖTTERMANN is the result of creativity plus innovation – intelligent furnishing solutions, created to determine exact analysis values and ensure an outstanding product quality.

The unique modular system always forms a functional, shapely and ergonomically well-designed unit. Everything is designed to facilitate and economically optimize work processes in the laboratory.

#### Perfectly designed down to the smallest detail

- highly flexible
- combinable
- easily exchangeable and retrofittable

#### Safety for the people in the laboratory

- minimize the risks in the laboratory

#### Well organised

- individually adapted to each other
- lots of practical accessories

#### Worktops

- 10 materials for every requirement
- harmonic colouring
- typical octagonal corners

#### Special cabinets

- Suspension files
- Wardrobe pull-outs
- Pull-out cabinets
- Installation cabinets
- Corner cabinets etc.



#### **Underbench cabinets**

Contents can be well stowed and ready to hand



**Tall storage cabinets** 

Storage space with many extras





#### Wall and top-mounted cabinets

Tidy instead of overfilled



#### Cell cabinets

Transparency at island benches



#### **Worktops**

Customised to your requirements



#### Single benches

Mobile, load-bearing, extremely precise



#### Basins and sinks

Customised wet cells

#### **Benefits**

- Material: electrolytically galvanized steel
  - recyclable
  - robust and durable
  - reduces the fire load
- Coating with optimal UV and chemical resistance
- Maximum storage space even in small laboratories
- Large number of variations
- Fast production / short delivery times
- Independent certifications
- Quality
  - double-shell, sound-insulated door and drawer fronts
- Smooth and quiet
  - comfort pull-outs with air-damped automatic pull-in function
- Aesthetic and clear
  - harmonic colouring
  - ergonomic design

#### **Equipment Options - Cabinets**

- Drawer dividers
- Flexible interior designpartially with glass doors
- Different front variants
- With and without lock
- Height adjustment
- With shelves and pull-outs

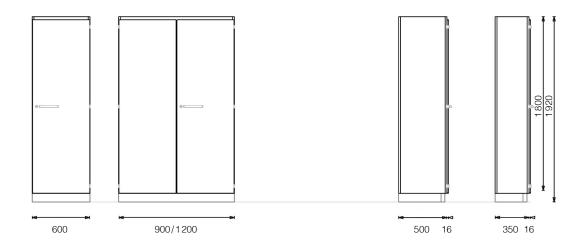
#### **Design Cabinets**

Quality steel (1.0330,	electrolytically galvanised, coated with polyurethane)								
Arctic White (NCS S 0	Arctic White (NCS S 0505 R80B), similar RAL design 260 90 05								
Anthracite (NCS S 850	00N), similar RAL design 00 20 00								
Grid height	Exterior: 480 mm, 630 mm, 780 mm Interior: less 30 mm								
Grid width	Exterior: 300 mm, 450 mm, 600 mm, 900 mm, 1200 mm Interior: less 40 mm								
Depth	516mm, interior: 500mm								
Sound insulated in do	uble-shell design, clip hinge, opening angle 270°								
Zinc die cast, matt ch	rome-plated, suitable for labels								
Lock system with inter Central lock with pull-	rchangeable cylinder, out protection for cabinets with stacked drawers								
	extension drawer in ball bearing cage design, sound insulated front in bow-type handle: zinc die cast, matt chrome-plated, suitable for labels								
Grid height	150 mm, 300 mm								
Usable interior height	110mm (for 150mm grid height) 260mm (for 300mm grid height)								
Grid width	Exterior: 450 mm, 600 mm, 900 mm, 1200 mm								
Usable interior width	Grid width: less 100 mm								
Load capacity	In general: 30 kg, in cabinets on castors: 20 kg								
Load capacity	30 kg								
Pedestal	-5/+15mm								
C/A frames	- 5 / + 20 mm								
	Arctic White (NCS S 0 Anthracite (NCS S 850 Grid height Grid width  Depth Sound insulated in do Zinc die cast, matt ch Lock system with inter Central lock with pull- double-shell design, to Grid height  Usable interior height  Grid width  Usable interior width Load capacity  Load capacity  Pedestal								

## Tall storage cabinets

Storage space with many extras







### **Tall storage cabinets**Dimensions in mm

	Width				Height	Carca	ss depth
Without doors		600	900	1200	1920	350	500
With hinged doors		600	900	1200	1920	350	500
With sliding glass doors		_	900	1200	1920	350	500
Display cabinet			900	1200	1920	350	500
Wardrobe cabinet		600		1200	1920		500
With pull-out doors	300	600			1920		500

#### **Types**

- Open shelf
- Hinged doors
- Sliding glass doors
- Display cabinet
- Wardrobe cabinet
- Pull-out doors (pharmacy cabinet)

#### **Description**

In order for everything to find its place in the laboratory, **EXPLORIS® tall storage cabinets** can be individually configured. EXPLORIS® offers a comprehensive range of tall storage cabinets so everything fits in the laboratory. The spectrum ranges from open shelves to cabinets with hinged or sliding glass doors, as well as to display and wardrobe cabinets.

The flexibility of the interior is demonstrated by the numerous options that are available, such as height adjustable shelves and pull-outs that facilitate easy access to the contents of the cabinet.

#### **Designs**

#### Grid height

exterior: 1920 mminterior: 1760 mm

#### Grid width

- exterior: 300 mm, 600 mm, 900 mm, 1200 mm

- interior: less 40 mm

#### Depth

carcass depth: 350/500 mmexterior depth: 350/500 mm(open or sliding glass doors)

- exterior depth: 366/516 mm (with doors)

#### Load capacity

- 180 kg additional load

#### Doors

- sound insulated in double-shell design
- clip hinge
- opening angle 270°
- sliding doors made of laminated safety glass

#### **Properties and Benefits**

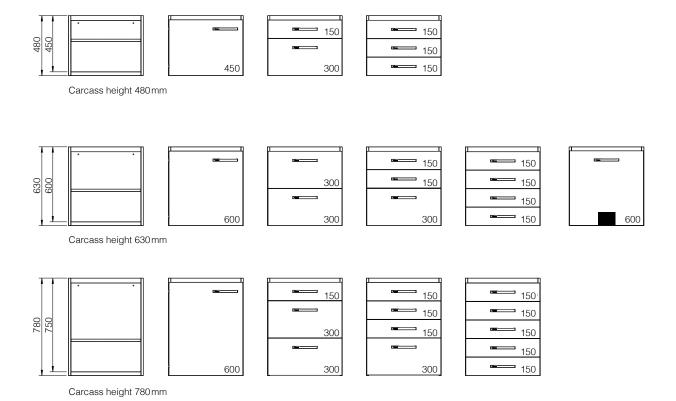
- Two depths
- Various front designs
- Flexible interior design
- Suitable for common binders
- Additional storage space through top-mounted cabinets (see page 10)

### Underbench cabinets

Contents well stowed and ready to hand



#### **Dimensions Underbench cabinets**



#### **Underbench cabinets**

	Width				Height		Carca	ss depth
With steel pedestal	450	600	900	1200	720	870	350	500
With steel pedestal for front sinks	300				720	870		500
With castors	450	600	900	1200	580	730		500
Suspended in the frame	450	600	900	1200	480	630		500

#### **Types**

#### Special cabinets

- installation cabinets
- waste collector
- for office utensils
- corner cabinets
- An individual worktop substructure is possible due to the various types of KÖTTERMANN underbench cabinets. In this way, comfortable seating niches or full surface substructures with underbench cabinets for an optimal space utilization are created. Corner cabinets maximize the space utilization through easy-to-use and accessible Le Mans pull-outs.

#### **Designs**

#### Grid height

- exterior: 480 mm, 630 mm, 780 mm

- interior: less 30 mm

#### Grid width

- exterior: 450 mm, 600 mm, 900 mm, 1200 mm

- interior: less 40 mm

#### Depth

exterior: 516 mminterior: 500 mm

#### Load capacity

- 120 kg additional load

- cabinets on castors: 100kg additional load

#### Doors

- sound insulated in double-shell design
- clip hinge
- opening angle 270°

#### Drawers

- grid height 150 mm, 300 mm
- usable interior height:110mm (for 150mm grid height)and 260mm (for 300mm grid height)
- grid width 450 mm, 600 mm, 900 mm, 1200 mm
- usable interior width less 100 mm
- load capacity 30 kg; 20 kg for cabinets on castors

#### Castors

 castor set with 4 steerable castors, of which 2 lockable

- height: 90 mm

- load capacity: 150kg

#### **Description**

Where to go with all the things you need in the lab? It is best to have them at hand directly under the worktop. Mobile as a cabinet on castors, suspended in frames or with steel pedestal – **EXPLORIS® underbench cabinets** offer customized storage space.

Depending on the bench frame (type, height, width) or type of use, the following underbench cabinet variants are available for worktop substructures:

Pedestal underbench cabinet: Closes flush with the worktop and the floor. Enables maximum utilization of the available space under the worktop.

Cabinet on castors: Underbench cabinet on castors, which can be used flexibly. For example, cabinets on castors can be temporarily placed in seating niches. They fit under all frame types: C and A frames.

Suspended cabinet: Can be suspended in a C or A frame, allows cleaning under the cabinets.

#### **Properties and Benefits**

- Three substructure options
  - pedestal cabinets
  - suspended cabinets for bench frames
  - cabinets on castors
- Various combinations of doors and drawers

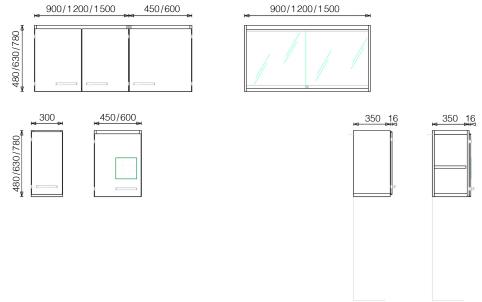
# Wall and top-mounted cabinets

Tidy instead of overfilled

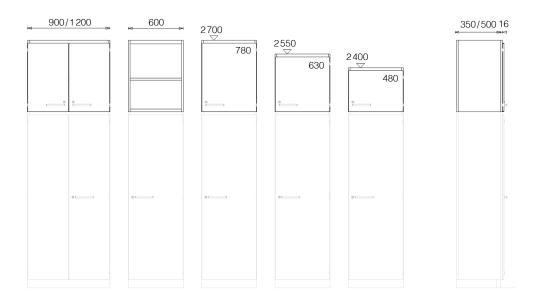




#### **Dimensions Wall-mounted cabinets**



#### **Dimensions Top-mounted cabinets**



#### Wall and top-mounted cabinets

	Width						Heigh	nt		Carca	ass depth
Top-mounted cabinet for tall storage cabinet	_	_	600	900	1 200	_	480	630	780	350	500
Wall-mounted cabinet to be mounted between the columns at island benches	_	_	600	900	1200	1500	480	630	_	350	_
Wall-mounted cabinets with hinged doors	_	450	600	900	1 200	1500	480	630	780	350	_
Wall-mounted cabinet with sliding glass doors	_	_	_	900	1200	1500	480	630	780	350	_
First aid cabinet	_	450	600		_	_	480	630	780	350	
Installation cabinet	300			900			480	630	780	350	

#### **Types**

#### Wall-mounted cabinet

- as open shelf, with hinged doors or with sliding glass doors
- as installation cabinet for cable bushing
- as first aid cabinet
- Top-mounted cabinet for tall storage cabinets
  - as open shelf or with hinged doors
- Wall-mounted cabinet for service cells on island benches
  - open or with sliding glass doors
- First aid cabinet
- Installation cabinet

#### **Designs Wall-mounted cabinets**

#### Grid height

- exterior: 480 mm, 630 mm, 780 mm

- interior: less 70 mm

#### Grid width

- exterior: 300 mm\*, 450 mm, 600 mm,

900 mm, 1200 mm, 1500 mm

- interior: less 40 mm

#### Depth

open: 350 mmwith door: 366 mm

#### Load capacity

- 80 kg additional load

#### **Designs Top-mounted cabinets**

#### Grid height

- exterior: 480 mm, 630 mm, 780 mm

- interior: less 70 mm

#### Grid width

- exterior: 600 mm, 900 mm, 1 200 mm

- interior: less 40 mm

#### Depth

- open: 350 mm and 500 mm

- with hinged door: 366 mm and 516 mm

#### Load capacity

- 80 kg additional load

#### **Description**

Even with little laboratory space, there is still room at the top for the storage of work material. **EXPLORIS®** wall- and top-mounted cabinets make optimal use of this space and solve any space problem.

Wall-mounted cabinets are mounted above the workstations. They create additional storage space for the laboratory material required, small devices or reagents. An effective use can help to avoid long distances and improve laboratory efficiency. Wall-mounted cabinets are available with open fronts, hinged doors or sliding glass doors.

Tall storage cabinets are available with open fronts, hinged doors or sliding glass doors, as well as installation and first aid cabinets

Top-mounted cabinets are placed on tall storage cabinets and expand the range of cabinets. They are available with open fronts and with hinged doors.

#### **Properties and Benefits**

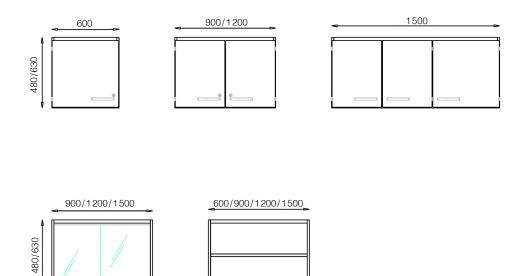
- Large number of variations
- Maximum storage space in minimum laboratory space
- Optionally with practical ladder for top-mounted cabinets
- Wall-mounted cabinets also suitable for KÖTTERMANN service systems

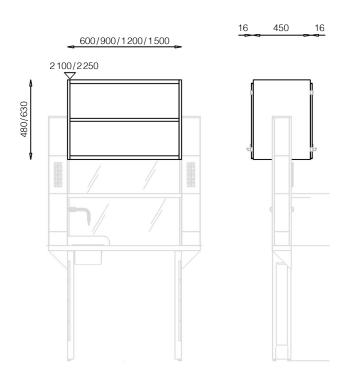
<sup>\*</sup>only in case of cabinets for cable bushing

### Cell cabinets

Transparency at island benches







#### Cell cabinets

	Width				Height		Carcass depth
Open	600	900	1200	1500	480	630	450
With hinged doors	600	900	1200	1500	480	630	450
With sliding glass doors		900	1200	1500	480	630	450

#### **Types**

- Open on both sides
- Two hinged doors
- Two sliding glass doors

#### **Description**

**EXPLORIS®** cell cabinets can be mounted between the columns. The special feature is that the access is possible from both sides, as long as it is an island bench. The cell cabinets create valuable storage space for reagents, laboratory material and small devices via the service cell workstations.

Cell cabinets are available with open design, hinged doors or sliding glass doors. The glass doors create a light, transparent look. A closed front creates a uniform and orderly overall appearance.

#### **Designs**

#### Grid height

– exterior: 480 mm, 630 mm– interior: less 70 mm

#### Grid width

- exterior: 600 mm, 900 mm, 1200 mm, 1500 mm

- interior: less 40 mm

#### Depth

open with sliding glass doors: 450 mmopen with hinged doors: 482 mm

#### Load capacity

- 80 kg additional load

#### **Properties and Benefits**

- Access from both sides of the island bench
- Maximum storage space in minimum laboratory space

### Worktops

#### Material for all purposes

#### General

The work in the laboratory is very diverse. Corresponding requirements must also be met with regard to **EXPLORIS® worktops**.

For example, when working with aggressive acids, ceramic worktops are best, stainless steel worktops should be used in the biological field, and melamine worktops are ideal for lower chemical loads.

For ergonomic working and optimal utilization of the laboratory surface, the worktops are also available in the typical KÖTTERMANN octagonal form. The harmonious colour matching of worktops and furniture not only looks good, but also creates a creative atmosphere.

#### **Properties and Benefits**

- Ten materials for every application
- Five materials with marine edge for catching spilled liquids
- Diverse design options through material combinations as well as rectangular and octagonal shapes
- Harmoniously matched colours

#### **Designs**

- Colours (except for stainless steel)
  - Baltic Blue (NCS S 2030 R70B)
  - White (similar RAL 9010)
  - Grey (similar RAL 7035)

#### Forms

- rectangular worktops
- exterior corner worktops
- octagonal and interior corner worktops
- Edge designs\*
  - marine edge
  - thick edge
  - plain edge

#### Dimensions

– width: running metre

- depths: 600 mm, 750 mm, 900 mm

#### Depths

- before the service wall: 670 mm and 820 mm

#### Quality

 Lab-quality melamine TopResist® worktops offer high chemical resistance at the best price performance ratio.

#### Safety

 Worktops with surrounding marine edge catch spilled liquids

	Melamine Standard	Melamine, TopResist®	Trespa TopLab <sup>®BASE</sup>	Trespa TopLab <sup>®PLUS</sup>	Ceramic/ Composite ceramic	Laminated glass	Stainless steel	Epoxy resin	Poly- propylene
Solvents									
Ethanol	+	+	+	+	+	+	+	+	+
Isopropanol	+	+	+	+	+	+	+	+	+
Aceton	+	+	+	+	+	+	+	+	+
Ethylacetat	+	+	+	+	+	+	+	+	+
Chloroform	+	+	+	+	+	+	+	+	0
Diethylether	+	+	+	+	+	+	+	+	+
Toluol	+	+	+	+	+	+	+	+	_
n-hexane	+	+	+	+	+	+	+	+	+
Petroleum ether	+	+	+	+	+	+	+	+	0
Mineral acids									
Hydrochloric acid conc.		+	_	+	+	+		+	
Sulphuric acid conc.	_	0		0	+	+		+	+
Sulphuric acid 50%		0	_	0	+	+	_		+
Nitric acid conc.	_	0	_	0	+	+	_		_
Phosphoric acid conc.		+	_	+	+	+	_	0	+
Hydrofluoric acid		0	_		_	_	_		+
Organic acids									
Formic acid conc.	_	0	_	+	+	+	+	+	_
Acetic acid conc.	+	+	+	+	+	+	+	+	+
Bases									
Caustic soda 20%ig	+	+	0	+	+	+	+	+	+
Ammonia solution conc.	+	+	+	+	+	+	+	+	+
Neutral solutions									
Formaldehyde 25%	+	+	+	+	+	+	+	+	+
Oxidants									
Hydrogen peroxide 30%	_	+	_	+	+	+	+	+	+
Potassium permanganate 5%	+	+	+	+	+	+	+		+
Potassium dichromate 5%	+	+	+	+	+	+	+	+	+
lodine 5% in chloroform	+	+	+	+	+	+	+	+	<u>-</u>
	<u> </u>			<u> </u>	· · ·	· ·	•	· — ·	
Reducing agents		ı							
Sodium sulphite 5%							+	+	
Dyes			_						
Eosin	+	+	+	+	+	+	+	+	+
Methylene blue	+	+	+	+	+	+	+	+	+
Crystal violet	+	+	+	+	+	+	+	+	+

<sup>+</sup> Material is well suited, 0 Material is suited to a certain extent, - Material is inappropriate

#### **Colours**

#### Baltic Blue, Grey, White





#### Office and evaluation

Workplaces where paperwork is done. Worktops without marine edge with sufficient scratch resistance.



#### Wet chemistry

Workplaces working with larger quantities of chemicals. Worktops with marine edge with very high chemical resistance.



#### Workplaces for devices

Workplaces working with analytical equipment and small quantities of chemicals. Worktops without marine edge with good chemical resistance.



#### **Biology**

Workplaces with special requirements for hygiene and moderate chemical load. Worktops without joints with good chemical resistance.

#### Worktops

	Width	Depth
Rectangular	600 - 2400*	400**, 600, 750, 900
Octagonal 90°	750	750
	900	900
	1500	750
Oataganal 1000	1650	750
Octagonal 180°	1800	900
	1950	900
O-t	1500	1500
Octagonal 360°	1800	1800

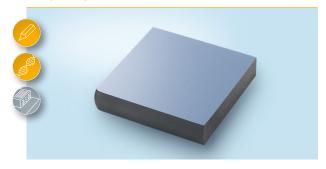
#### **Melamine Standard**



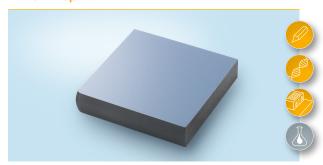
Melamine TopResist®



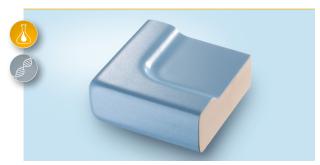
Trespa® TopLab®BASE



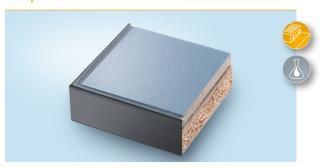
TRESPA TopLab®PLUS



Solid ceramic



**Composite ceramic** 



Glass



Polypropylene



**Epoxy resin (Epoxy)** 



Stainless steel



well suited

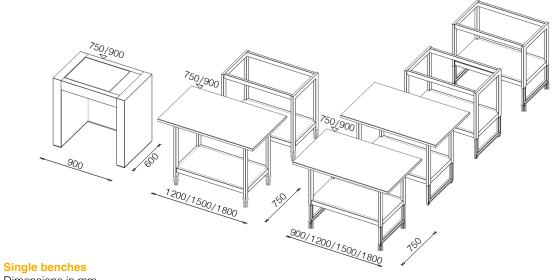


## Single benches and frames

Mobile, load-bearing, extremely precise



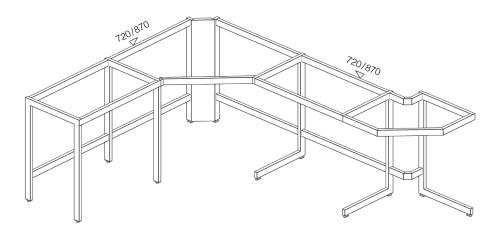
#### **Overview Benches**



Dimensions in mm

	Width				Height		Workto	p depth
Single bench without castors	900	1200	1500	1800	variable	e 720 - 960	600	750
Single bench with castors	900	1200	1500	1800	variable	e 720 - 960	600	750
Heavy-duty table	_	1200	1500	1800	750	900	600	750
Balance bench, free-standing	900	_	_	_	750	900	600	_
Balance bench, integrated	ca. 900	_			750	900	_	

#### **Overview Table frames**



#### **Table frames**

	Width					Height		Worktop	o depth	
A frames	600	900	1200	1500	1800	720	870	600	750	900
C frames	600	900	1200	1500	1800	720	870	600	750	900

#### **Types**

- Balance bench free-standing or as integrated version
- Single benches with and without castors
- Table frame with worktops made of different materials:
  - Melamine TopResist® and Trespa TopLab®PLUS
  - work heights from 750 mm (sitting height)
     to 900 mm (standing height)

#### **Description**

Work place, storage space or footprint for test setups and devices – **EXPLORIS® benches** fulfil a variety of tasks in the laboratory. If fixed, they can be flexibly adjusted in height and adapted to uneven floors. On castors, they enable mobile working and the transport of heavy equipment.

A specialist is the balance bench, which can be freestanding or installed in a worktop assembly, and is available in sitting and standing heights. Balance benches are used for the vibration-dampened installation of sensitive analytical balances, so that even the smallest quantities can be accurately weighed.

#### **Designs laboratory single benches**

- In sitting and standing work height
- In different widths
- With shelves
- Load capacity
  - single bench, fixed 300 kg
  - single bench, mobile 100 kg
  - heavy-duty table: maximum point load per table: 200 kg maximum surface load per table: 400 kg

#### **Description: Frames**

The frame is the backbone of every workplace – flexible and resistant at the same time. It not only supports the worktop, but also suspended underbench cabinets.

Especially for the octagonal worktops and underbench cabinets so typical of KÖTTERMANN, there are suitable frames in geometries from 90° to 360°.

#### Designs balance benches

- Heights
  - 750 mm and 900 mm
- Width
  - 900 mm
- Depths
  - free-standing: 600 mm
  - integrated into the laboratory worktop: 500 mm

#### **Properties and Benefits**

- As A-frame version for particularly high load capacity
- As C-frame version for extra legroom
- High load capacity in both versions:
  - C-frame: 250 kg / sqm bench surface
  - A-frame: 350 kg / sqm bench surface
- Floor under workbenches easily accessible for cleaning



#### **Description**

Wherever water is used in the laboratory, practical solutions are required. Whether basins or complete sinks - that depends entirely on your ideas and the available space. **EXPLORIS® Laboratory sinks and basins**, together with water fittings, draining racks, soap and towel dispensers and eye showers, form a well-equipped cleaning workplace that is adapted to safety standards.

#### **Properties and Benefits**

- For materials for basins
- Different installation types
  - flush installation
  - fitted with marine edge
  - underslung
  - welded without joints
- Various combinations of
  - basins and worktop materials
  - sinks in different versions and materials

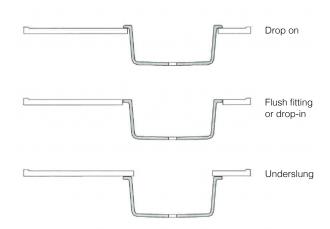
#### Types of basins

- Four materials
  - solid ceramic, stainless steel, polypropylene, epoxy
- Different installation types (depending on material)
  - flush installation
  - fitted with marine edge
  - underslung
  - welded without joints

#### Types of sinks

- Three materials
  - ceramic, stainless steel, polypropylene
- Basins left, centred, right
- O Drainboard left or right

#### **Installation options**



#### **Basins and sinks**

Materials	Widths	Depths	Equipment options
Ceramic, stainless steel, Polypropylene, epoxy	250 - 895	100 - 500	Mounted in the worktop, flush installation, underslung
Ceramic, stainless steel, Polypropylene	1200	600   750	Basins left/right, drainboard left/right
	1350	680	
Coramic etainlage etaal	1500	680	-
Polypropylene, epoxy,	1650	680	Basins centred, drainboard left and right
Trespa® TopLab®PLUS	1800	680	aramboara ion and right
	1950	680	-
	Ceramic, stainless steel, Polypropylene, epoxy  Ceramic, stainless steel, Polypropylene  Ceramic, stainless steel,	Ceramic, stainless steel, Polypropylene, epoxy  Ceramic, stainless steel, Polypropylene  1200  1350  1500  1650  Trespa® TopLab®PLUS  1800	Ceramic, stainless steel, Polypropylene, epoxy         250 - 895         100 - 500           Ceramic, stainless steel, Polypropylene         1 200         600   750           1350         680           1500         680           1650         680           1800         680

### Accessories

### Things that make (laboratory) life easier

#### General

A laboratory has to meet many different requirements, which can change over time. A large additional range with laboratory chairs, shelves and cabinet pull-outs offer individual and practical equipment options.

#### **Drawers**



- With automatic pull-in function and stop damping (full-extension drawers)
- Interior drawers
- Pencil tray

#### **Rubber mats**



- For the tops of cabinets on castors
- As inlays for drawers

#### **Drawer dividers**



- Plug-in system-set-divider for cabinet w 600 mm,
   1 crossbeam, frame with 2 compartments and
   6 compartments
- Drawer divider for cabinet w 600 mm, 10 stainless steel boxes, 1 terminal block, type Inox

#### Ladders



- Rolling steps
- Stepladder
- Hook-in ladders for tall storage cabinets

#### **PC** accessories



 monitor holder, keyboard pull-outs, ducts and cable bushing

#### **Cleaning accessories**



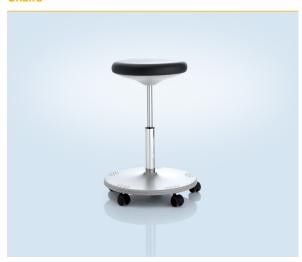
 Draining rack, soap dispenser, disinfectant dispenser, towel dispenser

#### **Cleaning set**



- For work surfaces and furniture fronts
- Cleanliness and hygiene for safe and precise working
- Specially tested for the KÖTTERMANN surfaces and materials

#### **Chairs**



- Ohairs, stools and standing aids
- Partially height-adjustable
- With and without castors

#### **Shelves**

- Shelves for underbench, tall storage, top-mounted and wall-mounted cabinets
- 30 kg load capacity

#### Waste bin

o For underbench cabinets with waste collector unit

#### **Equipment pull-outs**

- For the installation in underbench cabinets
- 30 kg load capacity

### www.koettermann.com www.kottermann.com

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