



BREADBOARDS, TABLETOPS, RAILS & CARRIAGES

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BREADBOARDS, TABLETOPS, RAILS & CARRIAGES



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- 548 Optic Rails
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Solid Breadboards

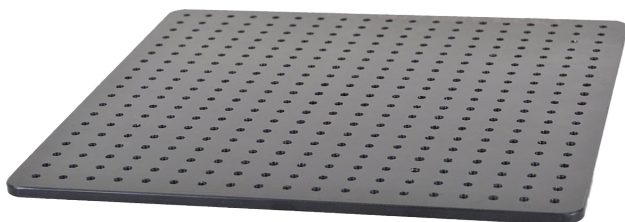
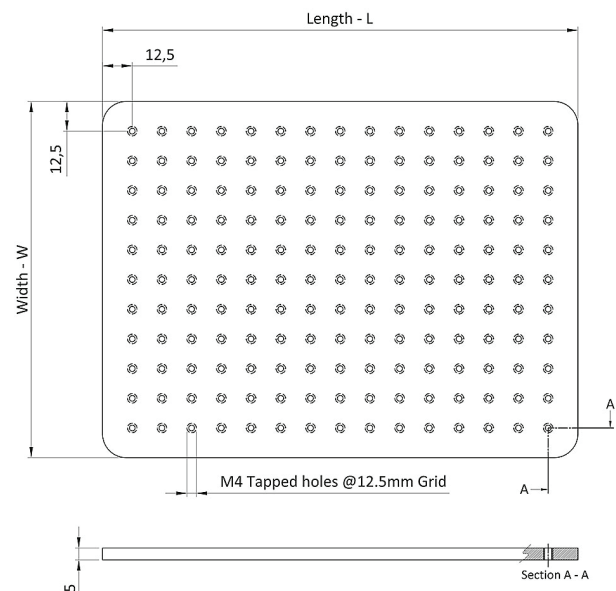
Tables and breadboard offering rigid, passive or active vibration damping options



Mini Breadboards

Mini breadboards are used mainly to construct small optical experimental setups. The thickness of mini breadboard is 5mm. There are M4 tapped holes on 12.5mm grid. These breadboards are also available in vacuum compatible version.

On request tapped holes other than M4 can be provided on any array.



Specifications

- 5 mm thick
- M4 Standard Tapped Holes on 12.5mm Grid
- Aluminium or Stainless Steel construction
- Anodized Finish for Aluminium
- Satin Finish for Stainless Steel
- Machining Tolerance ± 0.3 mm over 300 mm length
- Surface flatness ± 0.15 mm over 300 mm square area

Make your Choice !!! These BB series breadboards are available in various shapes, sizes and with different patterns of tapped holes other than standard models.

Please send us yours design or contact us at sales@holmarc.com

Specifications

Aluminium Anodized

Aluminium	Dimensions			Mounting
Model No:	L (mm)	W (mm)	T (mm)	Mounting Hole
MBB-75100-AL	100	75	5	M4
MBB-75150-AL	150	75	5	M4
MBB-75200-AL	200	75	5	M4
MBB-75250-AL	250	75	5	M4
MBB-100100-AL	100	100	5	M4
MBB-100150-AL	150	100	5	M4
MBB-100200-AL	200	100	5	M4
MBB-100250-AL	250	100	5	M4
MBB-150150-AL	150	150	5	M4
MBB-150200-AL	200	150	5	M4
MBB-150250-AL	250	150	5	M4
MBB-200200-AL	200	200	5	M4
MBB-200250-AL	250	200	5	M4
MBB-250250-AL	250	250	5	M4

Stainless Steel

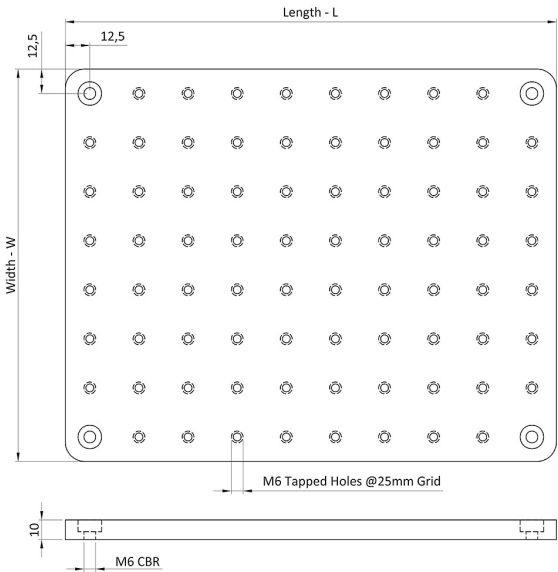
Stainless Steel	Dimensions			Mounting
Model No:	L (mm)	W (mm)	T (mm)	Mounting Hole
MBB-75100-SS	100	75	5	M4
MBB-75150-SS	150	75	5	M4
MBB-75200-SS	200	75	5	M4
MBB-75250-SS	250	75	5	M4
MBB-100100-SS	100	100	5	M4
MBB-100150-SS	150	100	5	M4
MBB-100200-SS	200	100	5	M4
MBB-100250-SS	250	100	5	M4
MBB-150150-SS	150	150	5	M4
MBB-150200-SS	200	150	5	M4
MBB-150250-SS	250	150	5	M4
MBB-200200-SS	200	200	5	M4
MBB-200250-SS	250	200	5	M4
MBB-250250-SS	250	250	5	M4

Standard Solid Breadboards

BB Series

Standard Solid Breadboards are commonly used platforms for building optical setups. It's thickness is 10mm. There are M6 tapped holes on 25mm grid. These breadboards are also available in vacuum compatible versions.

On request, tapped holes other than M6 can be provided on any array. Holes, Breadboard size can be customized as per requirement.



Tapped M6 holes on 25mm Grid

Solid 10 mm thick aluminum construction



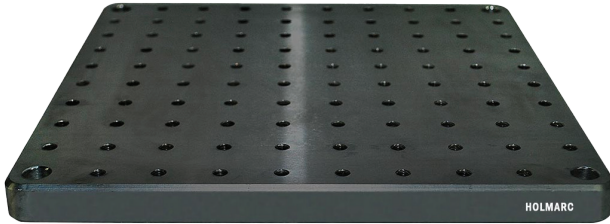
Specifications

- 10 mm thick
- M6 Standard tapped holes on 25mm Grid
- Aluminium construction
- Black anodized finish for aluminium
- Machining tolerance +/- 0.3 mm over 300 mm length
- Surface flatness +/- 0.15mm over 300 mm square area

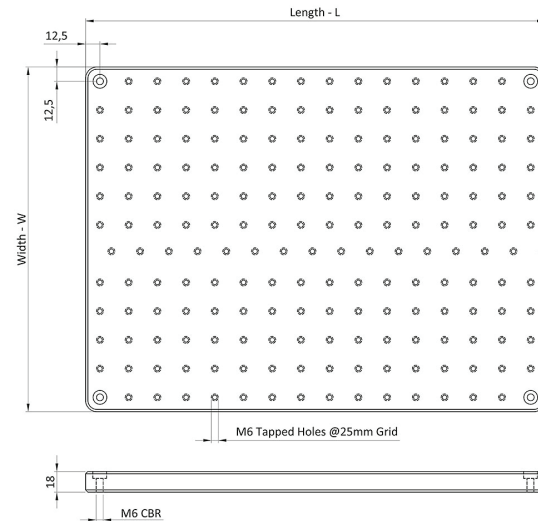
Model No:	L (mm)	W (mm)	T (mm)	Mounting Hole
BB-100100-AL	100	100	10	M6
BB-100150-AL	150	100	10	M6
BB-100200-AL	200	100	10	M6
BB-100250-AL	250	100	10	M6
BB-100300-AL	300	100	10	M6
BB-100400-AL	400	100	10	M6
BB-150150-AL	150	150	10	M6
BB-150200-AL	200	150	10	M6
BB-150250-AL	250	150	10	M6
BB-150300-AL	300	150	10	M6
BB-150400-AL	400	150	10	M6
BB-200200-AL	200	200	10	M6
BB-200250-AL	250	200	10	M6
BB-200300-AL	300	200	10	M6
BB-200400-AL	400	200	10	M6
BB-250250-AL	250	250	10	M6
BB-250300-AL	300	250	10	M6
BB-250400-AL	400	250	10	M6
BB-300300-AL	300	300	10	M6
BB-300400-AL	400	300	10	M6
BB-300600-AL	600	300	10	M6
BB-400400-AL	400	400	10	M6
BB-400600-AL	600	400	10	M6

Heavy Duty Breadboards

Heavy duty breadboards are available in 18mm thickness. These breadboards are heavy and can be used for building rigid optical setups.

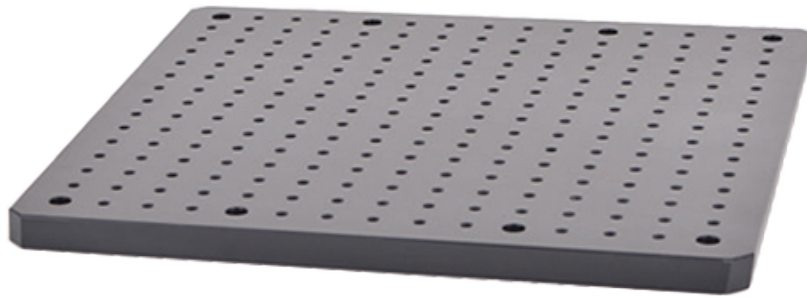


18 mm thick
M6 standard tapped holes on 25mm grid
Aluminium alloy construction
Black anodized finish for aluminium alloy
Machining tolerance ± 0.3 mm over 300 mm length
Surface flatness ± 0.15 mm over 300 mm square area



Model No:	L (mm)	W (mm)	T (mm)	Mounting Hole
HBB-250250-AL	250	250	18	M6
HBB-250300-AL	300	250	18	M6
HBB-250350-AL	350	250	18	M6
HBB-250400-AL	400	250	18	M6
HBB-250450-AL	450	450	18	M6
HBB-250500-AL	500	250	18	M6
HBB-300300-AL	300	300	18	M6
HBB-300350-AL	350	300	18	M6
HBB-300400-AL	400	300	18	M6
HBB-300450-AL	450	300	18	M6
HBB-300500-AL	500	300	18	M6
HBB-350350-AL	350	350	18	M6
HBB-350400-AL	400	350	18	M6
HBB-350450-AL	450	350	18	M6
HBB-350500-AL	500	350	18	M6
HBB-400400-AL	400	400	18	M6
HBB-400450-AL	450	400	18	M6
HBB-400500-AL	500	400	18	M6
HBB-450450-AL	450	450	18	M6
HBB-450500-AL	500	450	18	M6
HBB-500500-AL	500	500	18	M6

Extra Large Breadboards



Aluminium extra large breadboards--with M6 through holes

Aluminium
through holes

Model No:	L (mm)	W (mm)	T (mm)	Mounting Hole
EBB-500500-AL	500	500	12	M6
EBB-500600-AL	500	600	12	M6
EBB-600600-AL	600	600	12	M6
EBB-750750-AL	750	750	12	M6
EBB-800800-AL	800	800	12	M6
EBB-900900-AL	900	900	12	M6
EBB-900900-AL	900	900	12	M6

Aluminium extra large breadboards--Imperial standard through holes

Aluminium
through holes

Model No:	L (mm)	W (mm)	T (mm)	Mounting Hole
EBB-500500-AL-T	500	500	12	1/4-20
EBB-500600-AL-T	500	600	12	1/4-20
EBB-600600-AL-T	600	600	12	1/4-20
EBB-750750-AL-T	750	750	12	1/4-20
EBB-800800-AL-T	800	800	12	1/4-20
EBB-900900-A	900	900	12	1/4-20
EBB-900900-AL	900	900	12	1/4-20

Mounting Accessories

Angle Brackets : HOLMARC Angle Brackets are rigid, angled mounting plates with slotted faces. They are designed to mount aluminium breadboards to an optical table for achieving vertical or angled working surface. The 30, 45 and 90 degree angles are accurate upto ± 0.05 degree.

90° Bracket : is designed to mount aluminium breadboard perpendicular to optical table for achieving vertical working surface.



Fig. 45B-AL Vertical 45 Degree Angle Brackets

Specifications

Material	Aluminium Alloy
Treatment	Anodized
Color	Black
Machining Tolerance	± 0.3 mm over 300 mm length
Thickness	15mm ± 0.5 mm
Mounting angle	90° / 45°
Surface Finish	Satin Finish
Mounting Holes	M6 tapped holes at 25mm Grid

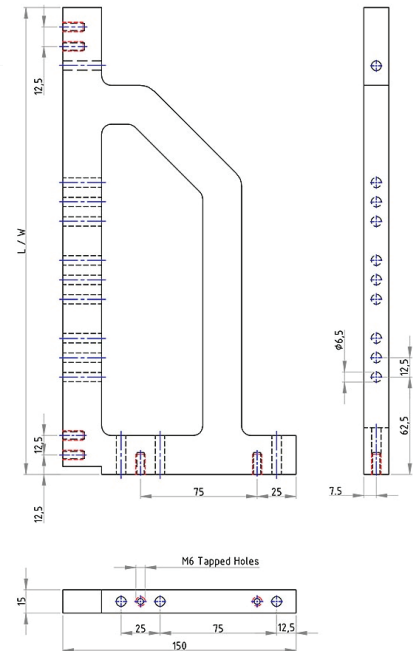


Fig. 90B-AL Vertical 90 Degree Angle Brackets with Standard Solid Breadboard

MODEL 90B-100-AL



MODEL 90B-250-AL

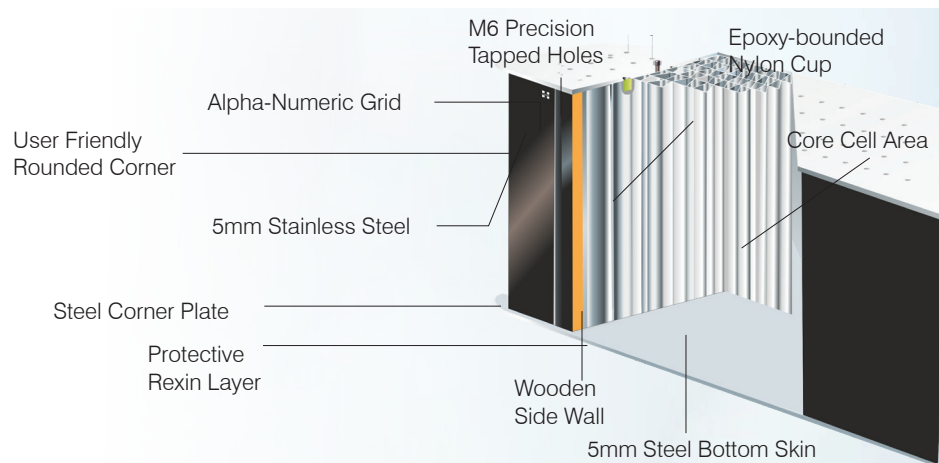


90° Bracket	Aluminium Black Anodized		
Model No:	L / W (mm)	T (mm)	Mounting Hole
90B-100-AL	100	15	M6 CLR
90B-150-AL	150	15	M6 CLR
90B-200-AL	200	15	M6 CLR
90B-250-AL	250	15	M6 CLR
90B-300-AL	300	15	M6 CLR
90B-350-AL	350	15	M6 CLR

45° Bracket	Aluminium Black Anodized		
Model No:	L / W (mm)	T (mm)	Mounting Hole
45B-100-AL	100	15	M6 CLR
45B-150-AL	150	15	M6 CLR
45B-200-AL	200	15	M6 CLR
45B-250-AL	250	15	M6 CLR
45B-300-AL	300	15	M6 CLR
45B-350-AL	350	15	M6 CLR

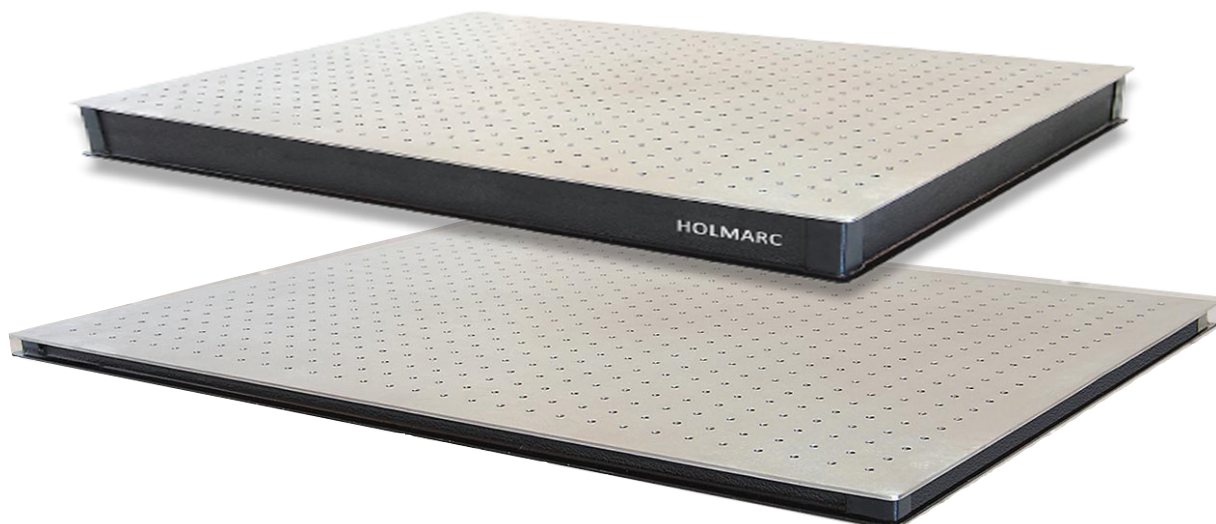
CUSTOM SIZES
M6 CLR
Made to order

Honeycomb Breadboards



Optical LAB Work Table (Economy Version) **EDU 2001 Series**

HOLMARC EDU 2001 Series is an easy-to-assemble optical work table based on a lightweight honeycomb optical breadboard. The worktable is supported on all 4 sides by steel sheet frames and are designed to be lightweight, portable and rigid support for optical breadboards. Working height of EDU 2001 Series worktable is 750mm including optical breadboard.

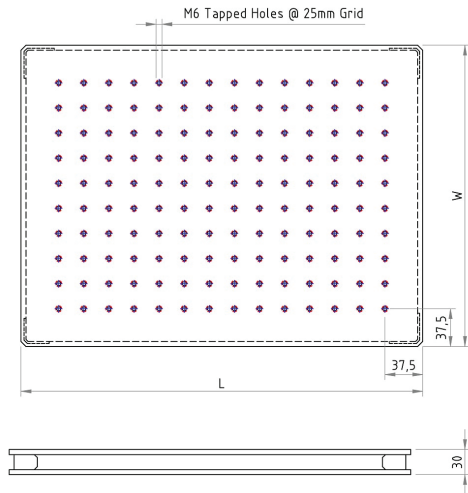


Honeycomb Breadboards Extreme Light Weight

Extreme light weight breadboards are available in various sizes. These models are only 30mm thick. It has honeycomb core made of aluminium to reduce weight. These breadboards are perfect for optical systems where mobility is more important than high level of rigidity and damping.

30mm thickness

Aluminium honeycomb core



Magnetic

- Thickness : 30 mm
- 3 mm thick magnetic SS top skin (SS410)
- Bottom skin made of 2 mm thick epoxy coated aluminium
- Aluminium honeycomb core
- Core cell size of 6 sq. cm.(Approx.)
- Nylon cups under each tapped hole
- + / - 0.1 mm flatness on top over 300 mm x 300 mm area (non-cumulative error)
- M6 tapped holes at 25 mm grid
- Distance of the first row of mounting holes from the edge is 37.5 mm
- Semi solid epoxy bonding
- Side walls finished with black form sheet having matte finish

Honeycomb Breadboards Extreme Light Weight - Magnetic Top skin

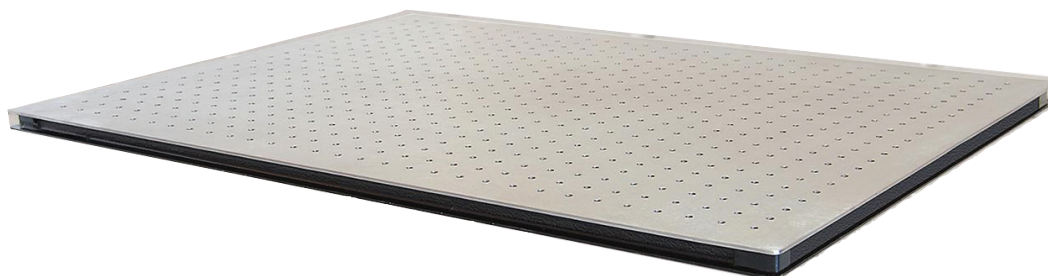
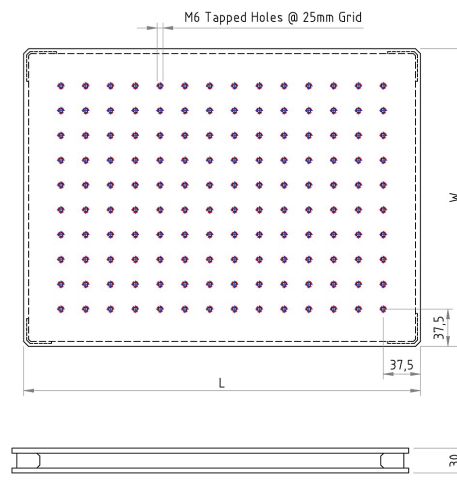
Model No:	L (cm)	W (cm)
ELLBB 60-30	60	30
ELLBB 60-60	60	60
ELLBB 90-60	90	60
ELLBB 90-90	90	90
ELLBB 120-90	120	90
ELLBB 120-120	120	120
ELLBB 180-120	180	120

Honeycomb Breadboards Extreme Light Weight

ELLNMBB Series

Non magnetic breadboards are used where the Optical experiment setups to be built are sensitive to magnetic properties of breadboard construction materials. These special breadboards are constructed of 304 grade stainless steel on top and aluminium on bottom part. This alloy of steel contains less iron than typical stainless steel, which reduces its ferromagnetic properties. The honeycomb structure is constructed from aluminium.

Pattern of M6 holes spaced by 25mm
Each tapped holes with easy clean nylon cups



Non Magnetic

- Thickness : 30 mm
- 3 mm thick non-magnetic SS top skin (SS304)
- Bottom skin made of 2 mm thick epoxy coated aluminium
- Aluminium honeycomb core
- Core cell size of 6 sq. cm. (Approx.)
- Nylon cups under each tapped hole
- + / - 0.1 mm flatness on top over 300 mm x 300 mm area (non-cumulative error)
- M6 tapped holes at 25 mm grid
- Distance of the first row of mounting holes from the edge is 37.5 mm
- Semi solid epoxy bonding
- Side walls finished with black form sheet having matte finish

Honeycomb Breadboards Extreme Light Weight - Non Magnetic Top and Bottom skin

Model No:	L (cm)	W (cm)
ELLNMBB 60-30	60	30
ELLNMBB 60-60	60	60
ELLNMBB 90-60	90	60
ELLNMBB 90-90	90	90
ELLNMBB 120-90	120	90
ELLNMBB 120-120	120	120
ELLNMBB 180-120	180	120

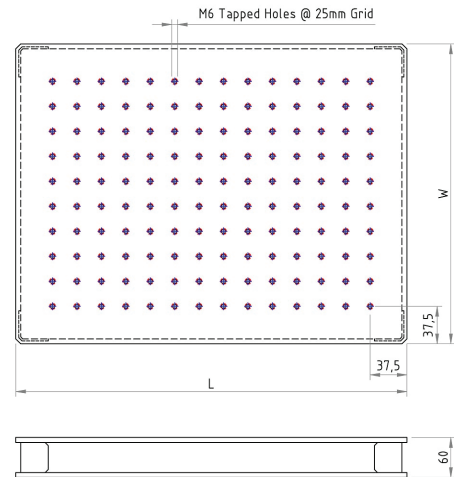
Honeycomb Breadboards Light Weight

LLBB Series

Light weight breadboards are constructed using 3 mm thick ferromagnetic stainless steel sheet as top skin and 2 mm thick aluminium sheet as bottom skin. It has honeycomb core made of aluminium to reduce weight. These light weight breadboards exhibit high natural frequency and nominal broadband damping.

We also manufacture non-magnetic version of these breadboards. In these breadboards top skin and bottom skin are made of nonmagnetic materials.

Magnetic SS 3mm thick top skin plate
2 mm thick epoxy coated bottom skin plate



Thickness	: 60 mm
3mm thick magnetic SS top skin (SS410) /(SS304)	
Bottom skin made of 2 mm thick epoxy coated aluminium	
Aluminium honeycomb core	
Core cell size of 6 sq. cm.(Approx.)	
Nylon cups under each tapped hole	
+ / - 0.1 mm flatness on top over 300 mm square area	
M6 tapped holes at 25 mm grid	
Distance of the first row of mounting holes from the edge is 37.5 mm	
Semi solid epoxy bonding	
Side walls finished with black form sheet having matte finish	
Compressed wooden particle boards as side walls to damp acoustic vibrations.	

Honeycomb Breadboards Light Weight - Magnetic - SS Top Skin - SS410

Model No:	L (cm)	W (cm)
LLBB 60-30	60	30
LLBB 60-60	60	60
LLBB 90-60	90	60
LLBB 90-90	90	90
LLBB 120-90	120	90
LLBB 120-120	120	120
LLBB 180-120	180	120

Honeycomb Breadboards

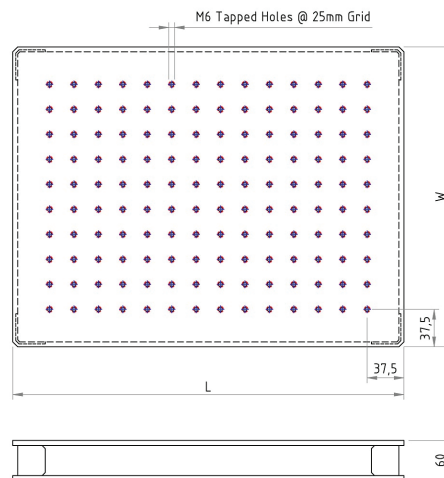
Light Weight - Non Magnetic

LLNMBB Series

Non magnetic breadboards are used where the Optical experiment setups to be built are sensitive to magnetic properties of breadboard construction materials. These special breadboards are constructed of 304 grade stainless steel on top and aluminium on bottom part. This alloy of steel contains less iron than typical stainless steel, which reduces its ferromagnetic properties. The honeycomb structure is constructed from aluminium.

Core cell size : 6 cm²

Non magnetic SS top skin of thickness 3



Thickness : 60 mm

3mm thick non-magnetic SS top skin(SS304)

Bottom skin made of 2mm thick epoxy coated aluminium

Aluminium honeycomb core

Core cell size of 6 sq. cm.(Approx.)

Nylon cups under each tapped hole

+ / - 0.1 mm flatness on top over 300 mm square area

M6 tapped holes at 25 mm grid

Distance of the first row of mounting holes from the edge is 37.5 mm

Semi solid epoxy bonding

Side walls finished with black form sheet having matte finish

Compressed wooden particle boards as side walls to damp acoustic vibrations.

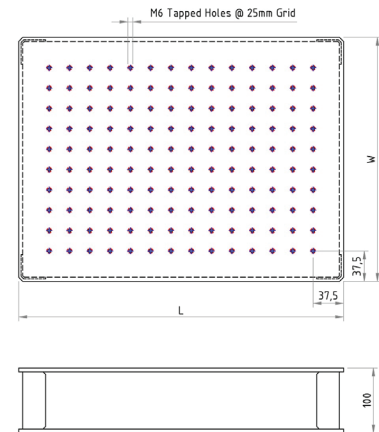
Honeycomb Breadboards Light Weight - Non Magnetic SS Top and Bottom Skin - SS410

Model No:	L (cm)	W (cm)
LLNMBB 60-30	60	30
LLNMBB 60-60	60	60
LLNMBB 90-60	90	60
LLNMBB 90-90	90	90
LLNMBB 120-90	120	90
LLNMBB 120-120	120	120
LLNMBB 180-120	180	120

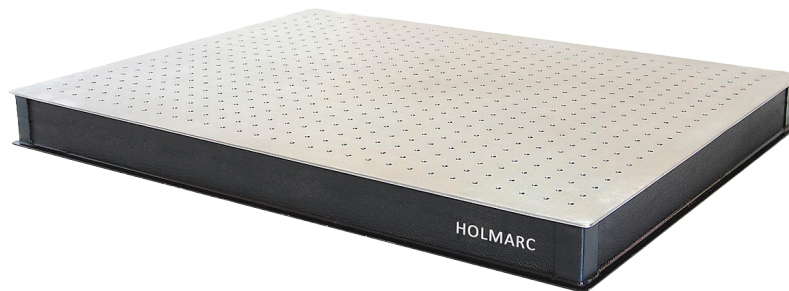
Honeycomb Breadboards Standard

BB Series

Honeycomb breadboards from Holmarc use magnetic stainless steel (SS410 series) as top skin. Core of the breadboard is honeycomb structure made from aluminium. Thickness of these breadboards generally vary between 60 mm and 100 mm. Honeycomb breadboards can be placed on any working tables to quickly build optical working surfaces which will add the convenience of tapped holes grid in addition to the rigidity and stability of honeycomb structure. These can as well be used to build extra elevated working surfaces on optical tables. With suitable angle brackets and clamps, vertical working surfaces can also be created.



Magnetic SS 5 mm thick top skin plate
5 mm thick epoxy coated steel bottom skin plate



- 5 mm thick magnetic SS top skin (SS410) /(SS304)
- Bottom skin : 5 mm thick epoxy coated steel
- 0.25 mm thick aluminium honeycomb core
- Core cell size of 6 sq. cm.(approx.)
- Nylon cups under each tapped hole
- +/- 0.1 mm flatness on top over 300 mm x 300 mm area (non-cumulative error)
- M6 tapped holes on 25 mm grid
- Distance of the first row of mounting holes from the edge is 37.5 mm
- Semi solid epoxy bonding
- Side walls finished with black form sheet (matte finish)
- Compressed wooden particle boards as side walls to dampen acoustic vibrations.

Honeycomb Breadboards Standard - Magnetic Top Skin

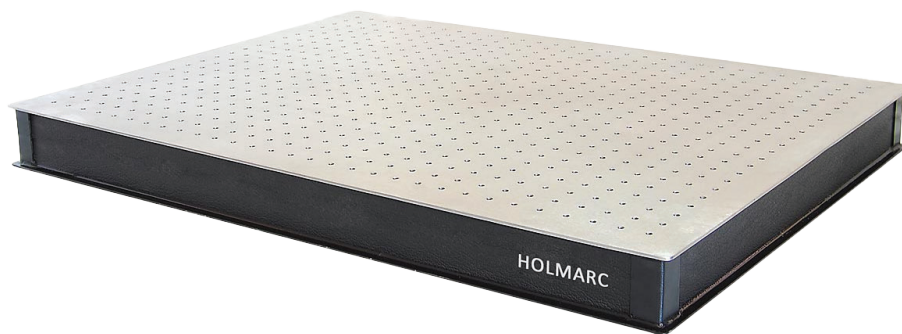
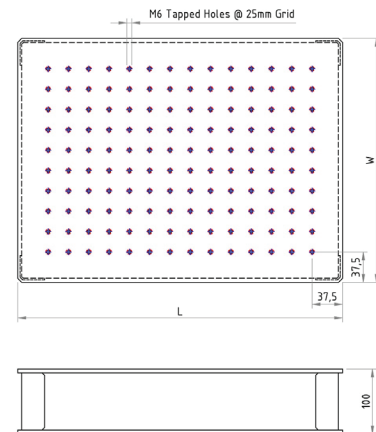
Model No:	Length (mm)	Width (mm)	Height (mm)	
BB 60-30	600	300	60	
BB 60-60	600	600	60	
BB 90-60	900	600	100	
BB 90-90	900	900	100	
BB 120-90	1200	900	100	
BB 120-120	1200	1200	100	
BB 180-120	1800	1200	100	

Honeycomb Breadboards Standard

BBNM Series

Non magnetic breadboards are used where the Optical experiment setups to be built on top of the Breadboards are sensitive to magnetism. These special breadboards are constructed of 304 grade stainless steel on top and bottom part. This alloy of steel contains less iron than typical stainless steel, which reduces its ferromagnetic properties. The honeycomb structure is constructed from aluminium.

Pattern of M6 holes spaced by 25 mm
Nonmagnetic SS top skin of thickness 5



- 5 mm thick non-magnetic SS top skin (SS304)
- Bottom skin made of 5 mm thick epoxy coated non-magnetic steel (SS304)
- 0.25 mm thick aluminium honeycomb core
- Core cell size of 6 sq. cm.(approx.)
- Nylon cups under each tapped hole
- +/- 0.1 mm flatness on top over 300 mm x 300 mm area (non-cumulative error)
- M6 tapped holes on 25 mm grid
- Distance of the first row of mounting holes from the edge is 37.5 mm
- Semi solid epoxy bonding
- Side walls finished with black form sheet (matte finish)
- Compressed wooden particle boards as side walls to dampen acoustic vibrations.

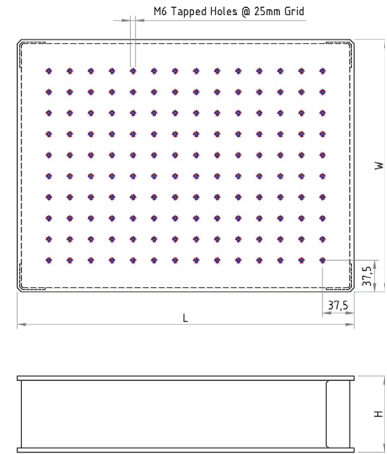
Honeycomb Breadboards Standard - Non Magnetic Top skin and Bottom Skin

Model No:	Length (mm)	Width (mm)	Height (cm)	
BBNM 60-30	600	300	60	
BBNM 60-60	600	600	60	
BBNM 90-60	900	600	100	
BBNM 90-90	900	900	100	
BBNM 120-90	1200	900	100	
BBNM 120-120	1200	1200	100	
BBNM 180-120	1800	1200	100	

Honeycomb Tabletops

TT Series

Honeycomb tabletops from Holmarc provide rigid and stable optical working surfaces with the convenience of tapped holes at 25mm grid for mounting components and modules. Honeycomb core made of 0.25mm thick aluminium sheet. Though compressed particle boards are used as side walls in most cases due to its vibration damping properties, Holmarc can also provide tabletops with steel and aluminium side walls. Semi-solid epoxy is used to construct the honeycomb core as well as to bind top and bottom skins to the core. This special epoxy binding absorbs low frequency vibrations to a certain extent and provide considerable damping even without the use of isolated supports.



Specifications

5 mm thick magnetic SS top skin (SS410)
Bottom skin made of 5 mm thick epoxy coated steel
0.25 mm thick aluminium honeycomb core
Core cell size of 6 sq. cm.(approx.)
Nylon cups under each tapped hole
+/- 0.1 mm flatness on top over 300 mm x 300 mm area (non-cumulative error)
M6 tapped holes at 25 mm grid
Distance of the first row of mounting holes from the edge is 37.5 mm
Semi solid epoxy bonding
Side walls finished with black form sheet having matte finish
Compressed wooden particle boards as side walls to dampen acoustic vibrations.

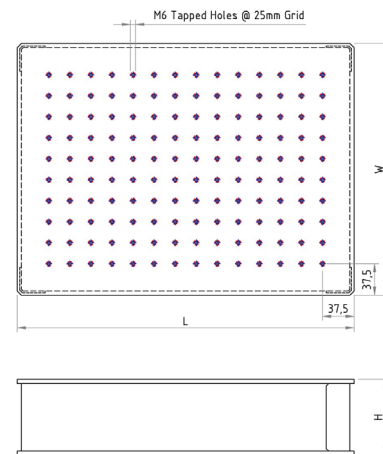
Honeycomb Tabletops- Magnetic (SS410)

Model No:	Length (cm)	Width (cm)	Height (cm)
TT 90-90	90	90	15
TT 120-90	120	90	15
TT 120-120	120	120	15
TT 180-120	180	120	20
TT 240-120	240	120	20
TT 300-120	300	120	20
TT 180-150	180	150	20
TT 240-150	240	150	20
TT 300-150	300	150	20

Honeycomb Tabletops - Non Magnetic

TTNM Series

Honeycomb non magnetic tabletops are used where the Optical experiment setups to be built on top of the tabletops are sensitive to magnetism. These special tabletops are constructed of 304 grade stainless steel on top and bottom part. This alloy of steel contains less iron than typical stainless steel, which reduces its ferromagnetic properties. The honeycomb structure is constructed from aluminium.



Specifications

5 mm thick non-magnetic SS top skin (SS304)

Bottom skin made of 5 mm thick epoxy coated non-magnetic steel (SS304)

0.25 mm thick aluminium honeycomb core

Core cell size of 6 sq. cm.(approx.)

Nylon cups under each tapped hole

+/- 0.1 mm flatness on top over 300 mm x 300 mm area (non-cumulative error)

M6 tapped holes at 25 mm grid

Distance of the first row of mounting holes from the edge is 37.5 mm

Semi solid epoxy bonding

Side walls finished with black form sheet having matte finish

Compressed wooden particle boards as side walls to dampen acoustic vibrations.

TT 360-150	360	150	20
Honeycomb Tabletops- Non Magnetic (SS304)			
Model No:	Length (cm)	Width (cm)	Height (cm)
TTNM 90-90	90	90	15
TTNM 120-90	120	90	15
TTNM 120-120	120	120	15
TTNM 180-120	180	120	20
TTNM 240-120	240	120	20
TTNM 300-120	300	120	20
TTNM 180-150	180	150	20
TTNM 240-150	240	150	20
TTNM 300-150	300	150	20
TTNM 360-150	360	150	20

Custom Breadboards

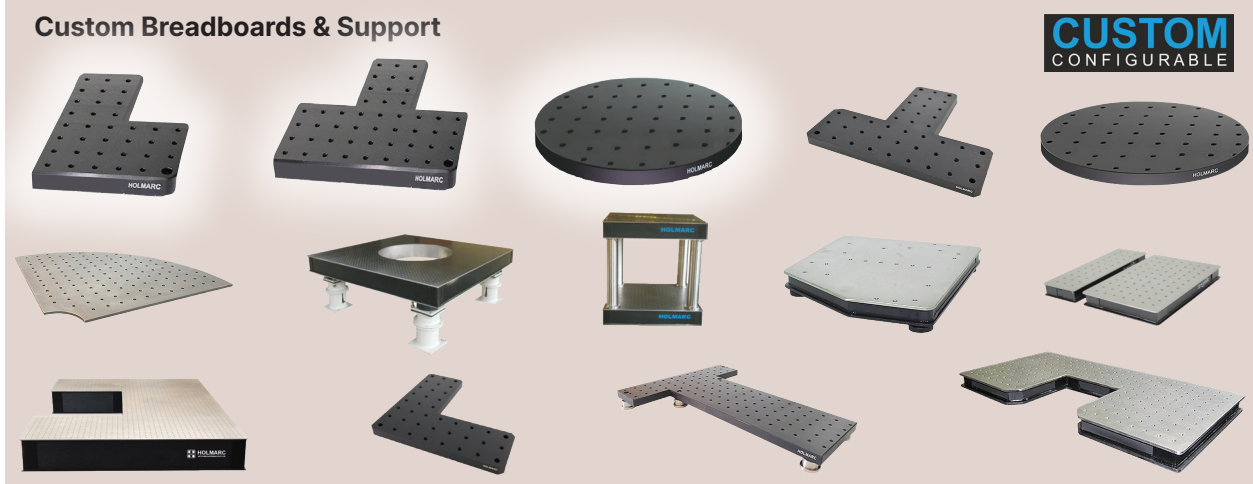
Holmarc can quickly provide custom configurations for optical breadboards and platforms to suit your application and environment. Many of our breadboards are built to fulfill a specific purpose and have custom mounting hole patterns, through-holes and shapes. We will do our best to meet your performance level and budgetary needs. HOLMARC's experienced support engineers will be glad to help you.

Variety of sizes & shapes
Corrosion resistant & Fine finish

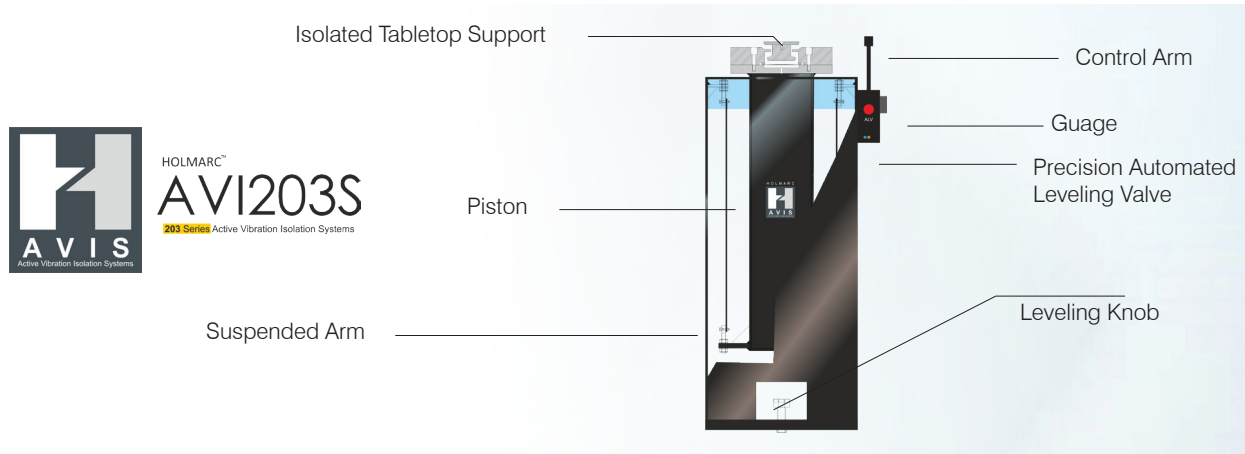


Pneumatic Isolation Preassure Valve

Custom Breadboards & Support



Tabletop Support



Passive Support (Automated Pressure & Level Controlled)

AVI203S Series

HOLMARC's Passive Support - Automated Pressure & Level Controlled vibration isolation system that effectively isolates the optical table from vertical and horizontal vibrations throughout the critical 3 to 50 Hz frequency range, since most common large-amplitude sources of vibrations found in laboratories vibrate within this range of frequencies. If the source of compressed air is removed, the Optical Tabletop will lower until it securely rests on the supports and the table will no longer be isolated from floor vibrations.

Our AVI Series automated optical table supports can be used to significantly reduce the vibrations transmitted to an optical table setup in a noisy environment

**Vertical & horizontal
vibration isolation
High-load capacity with
excellent stability**



Specifications

Vertical Resonant Frequency	1.25 Hz
Horizontal Resonant Frequency	1.0 Hz
Vertical Transmissibility at Resonance	10 dB
Horizontal Transmissibility at Resonance	12 dB
Vertical Transmissibility at 5Hz	-20 dB (90%)
Horizontal Transmissibility at 5Hz	-24 dB (94%)
Vertical Transmissibility at 10Hz	-32.5 dB (97.5%)
Horizontal Transmissibility at 10Hz	-30 dB (97%)
Maximum Load Capacity (set of four)	600 - 800 kg
Height Adjustment Range	-10 mm, +5 mm
Self Leveling Repeatability	± 0.5 mm
Height	700 mm
Air Pressure (Maximum)	80 psi
Finish	Black Paint
The specification data above was measured under a 600 kg load (24% of max)	

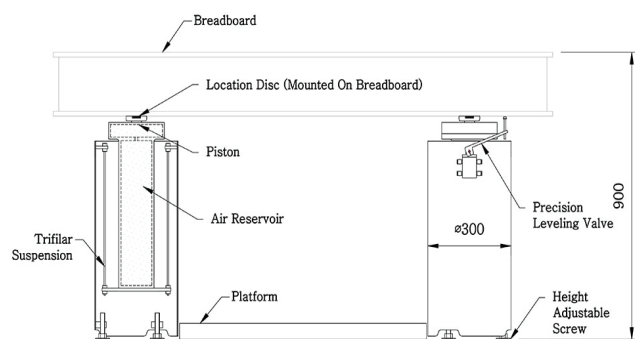
Model No:	Suitable for Tabletop Model
AVI203S-4	Tables up to TT 120-240
Includes four numbers of AVI203S along with compressor and accessories for interconnection	

AVI203S-6	Tables above TT 120-240
Includes six numbers of AVI203S along with compressor and accessories for interconnection.	

Accessories

Accessories

Overhead Table Shelf
Faraday Cages
Transparent Enclosure
Semi Transparent Enclosure



Features

- Featured vibration isolator technology
- Superior vibration control
- Maintenance free operation
- Specially designed for Interferometry and other high vibration sensitive experiments

Model No	Suitable for Tabletop Model
AVI203S-4	Tables up to TT 120-240
Includes four numbers of AVI203S along with compressor and accessories for interconnection	
AVI203S-6	Tables above TT 120-240
Includes six numbers of AVI203S along with compressor and accessories for interconnection.	

For more products and informations, please log on to www.holmarc.com or contact us at sales@holmarc.com

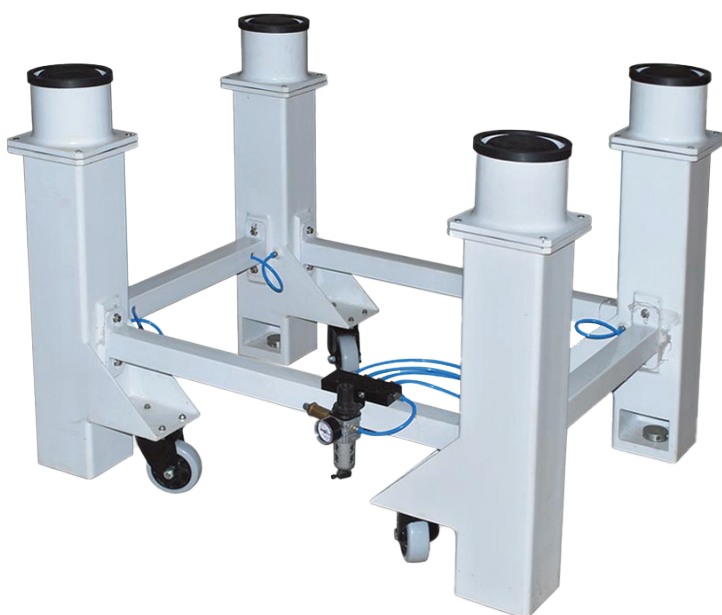
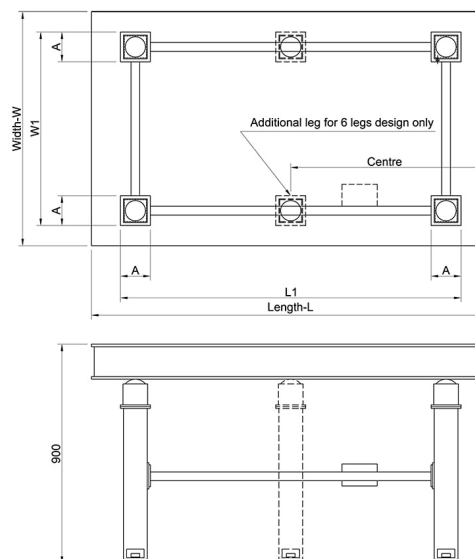
Passive Vibration Isolation System

PVISI Series

Interconnected Legs

In PVISI series passive vibration isolation systems, isolated legs are interconnected by pneumatic tubes for air filling. Air can be filled through the inlet valve in one of the isolators. Once the air is pumped using a compressor, it is uniformly distributed to all the isolator legs. The pressure of air to be filled is 25-35 PSI. Air filter is provided to supply moisture free air to the system to avoid condensation in air. Air needs to be filled in the legs at least once in a month.

Isolated supports isolates the table top from vertical and horizontal disturbances. The system has vertical and horizontal natural frequencies of 4 - 8 Hz and effectively isolates vibrations in the critical range of 10- 50 Hz.



PVISI
SERIES

Easy installation & maintenance free

Selectable in Independent or Interconnected Legs options

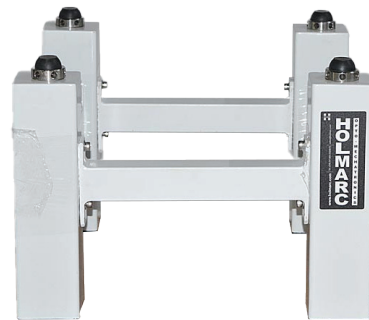
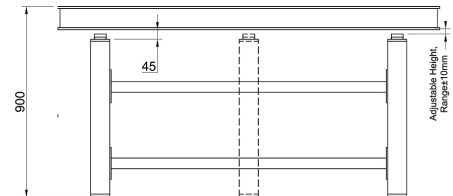
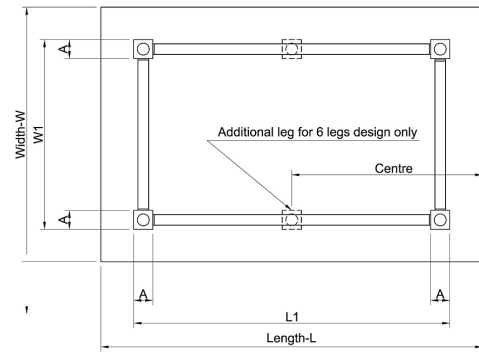
Model No	Suitable for Tabletop Model	L x W (mm)	L1 x W1 (mm)	A (mm)	No. of Legs
PVISI 60-60	TT 60-60	600 x 600	500 x 500	135	4
PVISI 90-60	TT 90-60	900 x 600	800 x 500	135	4
PVISI 90-90	TT 90-90	900 x 900	800 x 800	135	4
PVISI 120-90	TT 120-90	1200 x 900	1000 x 700	135	4
PVISI 120-120	TT 120-120	1200 x 1200	820 x 820	135	4
PVISI 180-120	TT 180-120	1800 x 1200	1420 x 820	135	4
PVISI 240-120	TT 240-120	2400 x 1200	2020 x 820	135	4
PVISI 300-120	TT 300-120	3000 x 1200	2620 x 820	135	6
PVISI 180-150	TT 180-150	1800 x 1500	1420 x 820	135	4
PVISI 240-150	TT 240-150	2400 x 1500	2020 x 1120	135	4
PVISI 300-150	TT 300-150	3000 x 1500	2620 x 1120	135	6
PVISI 360-150	TT 360-150	3600 x 1500	3220 x 1120	135	6

Note: For larger Tabletops, 6 or 8 legs have to be used depending on load. Motorized pump is supplied along with the system.

Rigid Tabletop Support

RTS - Series

Rigid table top support system has four vertical members made from rectangular steel tubes and eight horizontal members made from 50 mm x 50 mm steel tubes. These members can be joined by nuts & bolts at the lab site. The honeycomb surface rest on four heavy-duty bolts on the top of the support system, which can also be adjusted for leveling. The adjustment range is ± 4 cm. The support system is given moon light finish by epoxy paint.



Model No	Suitable for Tabletop Model	L x W (mm)	L1 x W1 (mm)	A (mm)	No. of Legs
RTS 60-60	TT 60-60	600 x 600	500 x 500	90	4
RTS 90-60	TT 90-60	900 x 600	800 x 500	90	4
RTS 90-90	TT 90-90	900 x 900	800 x 800	90	4
RTS 120-90	TT 120-90	1200 x 900	1000 x 700	90	4
RTS 120-120	TT 120-120	1200 x 1200	820 x 820	90	4
RTS 180-120	TT 180-120	1800 x 1200	1420 x 820	90	4
RTS 180-150	TT 180-150	1800 x 1500	1420 x 1120	90	4
RTS 240-120	TT 240-120	2400 x 1200	2020 x 820	135	4
RTS 240-150	TT 240-150	2400 x 1500	2020 x 1120	135	6
RTS 300-120	TT 300-120	3000 x 1200	2620 x 820	135	6
RTS 300-150	TT 300-150	3000 x 1500	2620 x 1120	135	6
RTS 360-150	TT 360-150	3600 x 1500	3220 x 1120	135	6

Note: For larger Tabletops, 6 or 8 legs have to be used depending on load. Motorized pump is supplied along with the system.

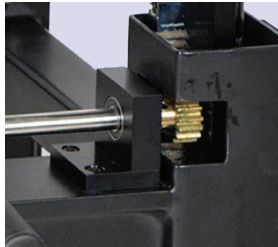
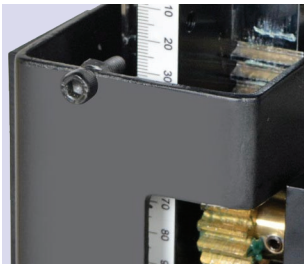
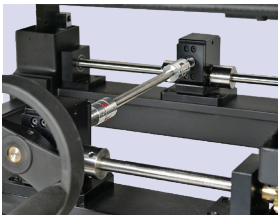
Rigid Tabletop Support with Height Adjustment

This support system has four vertical members made from rectangular steel tubes and eight horizontal members made from 50 mm x 50 mm steel tubes. These members can be joined by nuts & bolts at the lab site. The honeycomb surface rests on four heavy-duty bolts on the top of the support system, which can also be adjusted for levelling. The support system is given black finish by epoxy paint.

Specifications



Height adjustment range	+300 mm
Height adjustment mechanism	Screw adjustment with hand wheel
Caster wheel and knob locking mechanism	
The leg dimensions	75 x 75 mm
A graduation scale in one of the table legs in mm	
The material such as MS square tube, resin bushing and Hardened steel guide rods are used.	
Locking screws for each leg to avoid shake / backlash	
Lift of the table will be uniform in the horizontal plane	



Models

- RTS-HA-60-60
- RTS-HA-90-60
- RTS-HA-90-90
- RTS-HA-120-90
- RTS-HA-120x120



Optical Lab Work Table Economy Version

Model : EDU 2001

Holmarc EDU 2001 Series is an easy to assemble optical work table based on a light weight honeycomb optical breadboard. The work table is supported on all 4 sides by steel sheet frames and are designed to be light weight, portable and rigid support for optical breadboards. Working height of EDU 2001 Series work table is 750 mm including optical breadboard.

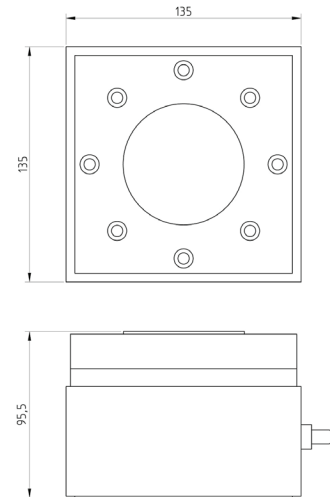
Model	Length (cm)	Width (cm)
EDU 2001-L66	60	60
EDU 2001-L96	90	60



Desktop Vibration Isolation Support

Model : DVIS - 01

Holmarc's desktop vibration isolation supports are designed to use with breadboards and small optical tables. They provide portability and localized air suspension for small-scale experiments and vibration sensitive instrumentation. This system utilizes air isolation method for vibration isolation. These are time and space saving isolators which are ideal to use with microscopes and other optical systems. Four independent air cushion legs along with an oil free air compressor are required for a setup. The system gets ready for use by just placing breadboards / tabletops on to these supports. DVIS Supports a wide range of breadboards and optical table sizes. Though normally supplied as a set of four, extra mounts can be used to increase load capacity.



Model : Suitable for Optical Breadboard
 DVIS - 01 : Light weight series (suitable for breadboards upto 4 ft x 3 ft)

The breadboard sits on four inflated rubber cushions. All the four supports will be independent. Portable foot pump will be supplied along with the support

Oil free air compressor

Oil free air compressor will be supplied along with the Desktops Vibration Isolation Support.

Rigid, non-isolating support frame can be upgraded to desktop vibration isolation support. Contact our technical support engineer at service@holmarc.com. Note : Optical breadboard must be purchased separately,

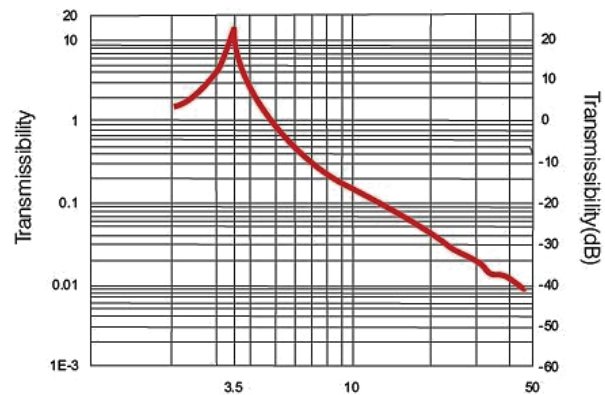
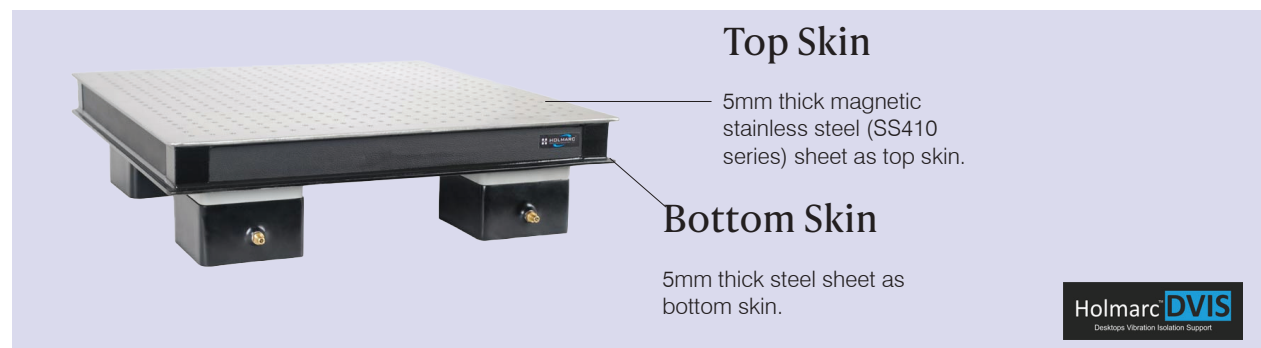


Fig. Desktops Vibration Isolation support Transmissibility Graph

Rigid, non-isolating support frame can be upgraded to desktop vibration isolation support. Contact our technical support engineer at sales@holmarc.com

Note : Optical breadboard must be purchased separately,



Holmarc **DVIS**
 Desktops Vibration Isolation Support

Overhead Shelves

- Organized ergonomic lab space
- Mounting vibration-producing equipment
- Accessory and cable management options

Overhead Shelf Cantilever type

HOLMARC offers optical table shelves to meet your need for more organized and ergonomic lab space. Shelves are designed to be highest quality and sturdy to provide safe and reliable accessory options. Overhead shelves can be used for mounting vibration producing equipment above the optical breadboard. The height of shelf can be easily adjusted. Shelves can be positioned at any position along the rail.

Model No:	Supported Breadboard (L)
OHS-B-1200	1200 mm
OHS-B-1500	1500 mm
OHS-B-1800	1800 mm
OHS-B-2400	2400 mm
OHS-B-3000	3000 mm



Overhead Shelf - Cantilever	
Platform size	1800 mm (L) × 600 mm (W)
Number of platforms	2
Minimum height from table	400 mm
Maximum height from floor	1900 mm
Frame material	Mild steel with powder coating or paint (Black Color)
Platform material	25 mm thick MDF with lamination
Power strip board	16 power points (230V / 5 A each) with individual switches to be provided at the bottom side of lower platform
Type of strip Board	Option 1. Regular Switch Board
Illumination	1200 mm long White LED tube light (minimum 22W) to be provided at the bottom side of lower platform

Overhead Shelf standing type

HOLMARC offers optical table shelves to meet your need for more organized and ergonomic lab space. Shelves are designed to be highest quality and sturdy to provide safe and reliable accessory options. Overhead shelves free standing type can be used for mounting vibration producing equipment above the optical breadboard. The height of shelf can be easily adjusted. Shelves can be positioned at any position along the rail.

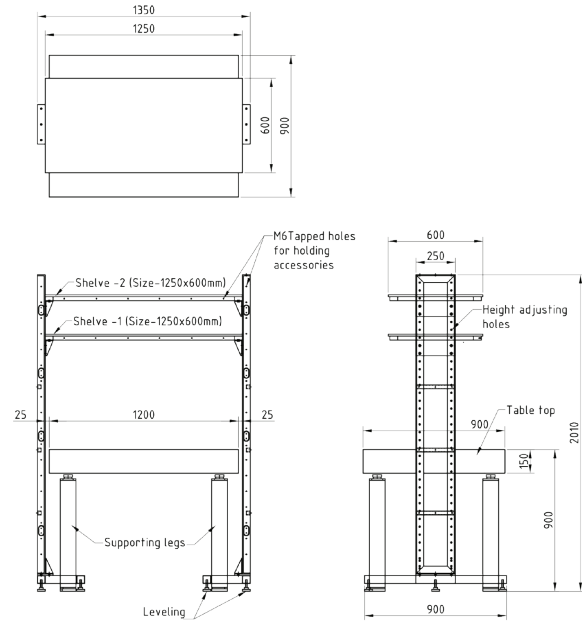
Standard unit consists of height adjustable 2 sets of overhead shelf and supporting structure. Height can be adjusted in 50mm increments using M10 screws. Structures are based on steel welded design with black powder coat finish. Platform material is multiwood (extruded 'U' Pvc polyester resin). M6 Mounting holes provided across the shelves and supporting structure for mounting accessories like additional shelves, bottom shelf computer stand, power strip, tool organiser etc. Electrical wires from the instruments can be organized by cable strips (sold separately). For lighting needs LED tube lighting and spots lights are available.

Optional Accessories

- Additional Shelf
- Bottom Shelf
- Storage Systems
- Power Strips
- Monitor Mounting Arm
- Cable Routing Clips
- LED Lights
- L-Clamp

Features

- Maximized table space, ergonomics and utility
- Mechanical isolation for the equipment
- Convenient location of instruments
- Height adjustable design for overhead shelves
- Leveling feet for uneven floors
- Steel welded design, black powder coat finished
- Custom shelving units(Optional)
- Electrical outlets (230V / 50Hz) on each side of the shelf



Specifications

Overhead Shelf - Standing Type

Structural material	Steel welded design
Finish	Black powder coat
Platform material	Multiwood
Platform adjustable height increments	50 mm
Maximum platform height	 mm
Minimum gap between two platform	 mm

Model No	
OHS-1200	1200 mm
OHS-1500	1500 mm
OHS-1800	1800 mm
OHS-2400	2400 mm
OHS-3000	3000 mm

Overhead Shelf Accessories



Additional Shelves

It consists of platform, mounting bracket and suitable mounting screws. Construction based on steel welded design with black powder coat finished. Platform is made of multiwood (extruded 'U' Pvc polyester resin). M6 Mounting holes provided across the shelves for mounting accessories like , power strips, LED Lights, storage box etc.

Model No	Suitable over head shelves
AR-OHS-1200	OHS-1200
AR-OHS-1500	OHS-1500
AR-OHS-1800	OHS-1800
AR-OHS-2400	OHS-2400
AR-OHS-3000	OHS-3000

Bottom Shelves

It consists of platform and mounting bracket and suitable mounting screws. Construction based on steel welded design with black powder coat finished. Platform is made of multiwood (extruded 'U' Pvc polyester resin). It saves space when installing a laser and other equipment beneath optical tabletops. Laser Ports in a Tabletop are used to let a laser beam or cables through.

Model No	Suitable over head shelves
BR-OHS-1200	OHS-1200
BR-OHS-1500	OHS-1500
BR-OHS-1800	OHS-1800
BR-OHS-2400	OHS-2400
BR-OHS-3000	OHS-3000

Storage Systems

A. Storage box unit with 8 storage boxes

This unit can be mount on the side structure, 8 storage (2 x 4) boxes can be fix in this unit to store screws and other small things. Quick access box organizer is mounted infront of rack shelves.

Model No	No: of storage box in mounting board
OHS-SBU-08	8



B. Quick access Storage box

Quick access box organizer is mounted infront of rack shelves for convenient accessing of mostly used components.

Model No	No: of storage box in mounting board
OHS-SBU-1	1
OHS-SBU-2	2
OHS-SBU-3	3

C. Tool Organizer

Pegboard is a regularly spaced hooks of metal black board designed for the storage of various tools, Including allen keys, screw drivers, spanners. It offers maximum toolboard storage versatility having 250 x 400mm of pegboard storage space.

Pegboard can be mount on the side wall of the shelves supporting structure .

Model No
OHS-PEG-10



Quick access Storage box

This type of tool organizer is mounted in front of rack shelves for quick accessing the mostly required tools. It provides easy access and organization for the tools. These small type of holders allow only one or two types of tool set.

Model No	Tool Organizer Type
OHS-PEG-QA-1	For allen keys
OHS-PEG-QA-2	For Screw drivers
OHS-PEG-QA-3	10 hooks for hanging tools

Electrical Power Strips

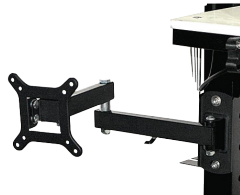


Suitable clamps are provided for each power strip for fixing directly to the shelves by using M6 screw. Power strips can be mounted on the bottom, back and front side or vertically on the structure. Electrical lines can be easily routed by using cable routing clips (Please see the model OHS-CRL-25 cable routing clip). All models consist of one power strip, six meter cable and three pin power plug.

Model No	Power strip Type
OHS-PS-1	Single power socket with switch
OHS-PS-5	Five power socket with switch
OHS-PS-10	Ten power socket with switch
OHS-PS-16	Sixteen power socket with switch

Monitor Mounting Arm

Single monitor mounting arm adjusts effortlessly for easy use. Arm extends and retracts, tilt to change reading angles. Built to hold monitors up to 10 Kg. M6 Mounting holes pitch 100 mm provided on the vertical structure for fixing universal monitor mounting arm.



Model No
OHS-MSA-1

Cable Routing clips - Cable Holder

These small clips are side load type, ideal for keeping wires out of sight and away from possible damage. It is designed to be installed on a shelf panel edge. It can hold a single cord or cable firmly in any desired route. The extra-wide opening allows easy insertion and removal of cables. Cable routing clips have M6 screw holes for fixing in any direction on the platform or on the vertical structure.



Model No	Cable routing clip (20 Nos.)
OHS-CRL-25	

LED Lightings

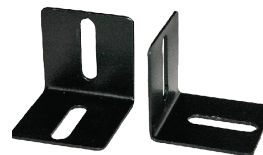


HOLMARC offers two options for under shelves lab lighting, LED strips light and LED Spot lighting. LED power cables can be easily routed by using cable routing clips. LED Light strips and spot lightings are mounted underside of the overhead shelf. It is ideal for lighting the entire work surface, LED light strips are attached via L-Clamps.

All models consist of two meter cable with two pin and L-Clamp for mounting.

Model No	
OHS-LED-1	1 Feet LED Tube
OHS-LED-2	2 Feet LED Tube
OHS-LED-4	4 Feet LED Tube
OHS-LED-SP-1	Flexible arm LED Spot Light

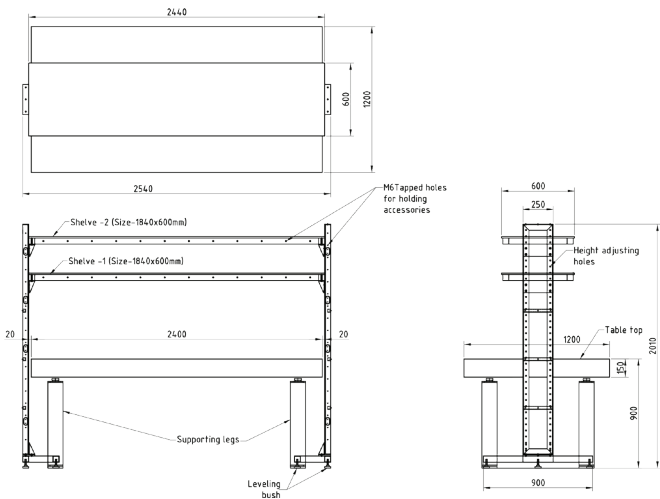
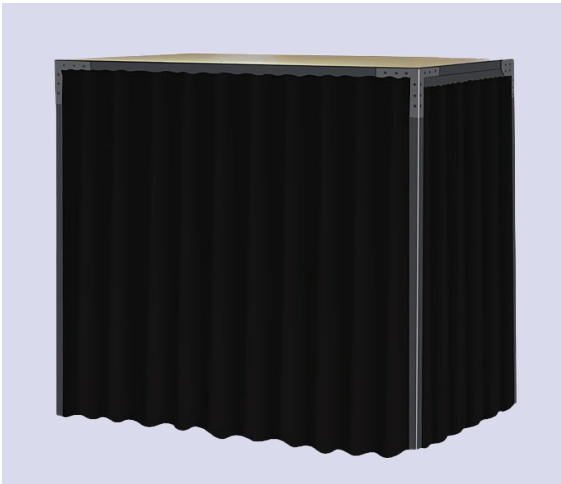
L-Clamp



L Clamps are used to fix LED light or electrical power strips in any position on overhead shelves. Two M6 slots and four M3 tapped holes are provided on the L-clamp for mounting needs.

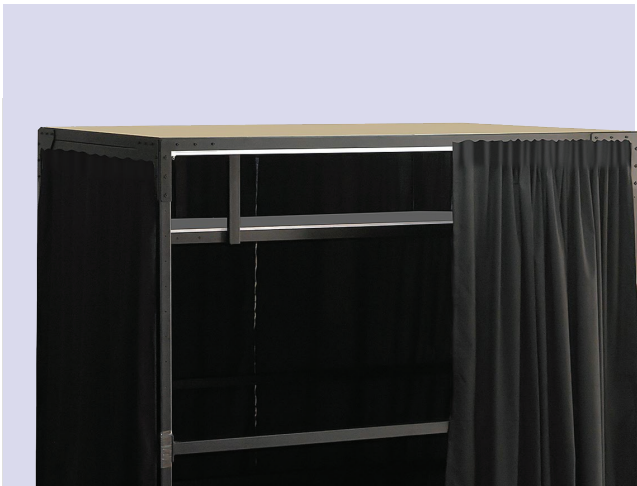
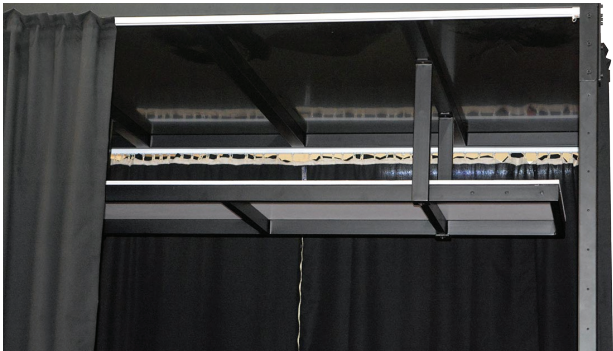
Model No	L-Clamp - 10Nos.
OHS-LC-25	

Overhead Shelf with Curtain



Specifications

Structural material	Steel welded design
Finish	Black painted finish
Top cover	Multiwood
Platform height from breadboard	800 mm (for specified model only)
Curtain material	Black cloth / Transparent curtain
Compatible accessories	Electrical power strip, Monitor mounting arm, LED light , Fan with Heppa filter





Freestanding frame with black curtain

Model No	A	B
FSF-90-90-B	90	90
FSF-120-90-B	120	90
FSF-120-120-B	120	120
FSF-180-120-B	180	120
FSF-240-120-B	240	120
FSF-300-120-B	300	120
FSF-180-150-B	180	150
FSF-240-150-B	240	150
FSF-300-150-B	300	150
FSF-360-150-B	360	150

Freestanding frame with black curtain and internal shelf

Model No	A	B
OHS-90-90-B	90	90
OHS-120-90-B	120	90
OHS-120-120-B	120	120
OHS-180-120-B	180	120
OHS-240-120-B	240	120
OHS-300-120-B	300	120
OHS-180-150-B	180	150
OHS-240-150-B	240	150
OHS-300-150-B	300	150
OHS-360-150-B	360	150

Freestanding frame with transparent curtain

Model No	A	B
FSF-90-90-T	90	90
FSF-120-90-T	120	90
FSF-120-120-T	120	120
FSF-180-120-T	180	120
FSF-240-120-T	240	120
FSF-300-120-T	300	120
FSF-180-150-T	180	150
FSF-240-150-T	240	150
FSF-300-150-T	300	150
FSF-360-150-T	360	150

Freestanding frame with transparent curtain and internal shelf

Model No	A	B
OHS-90-90-T	90	90
OHS-120-90-T	120	90
OHS-120-120-T	120	120
OHS-180-120-T	180	120
OHS-240-120-T	240	120
OHS-300-120-T	300	120
OHS-180-150-T	180	150
OHS-240-150-T	240	150
OHS-300-150-T	300	150
OHS-360-150-T	360	150

Wooden Drawer Shelf

BDS series

Specifications

Drawer

Type of Drawer	Designed for maximum utilization of the space under the table
No of Drawers	9 Nos arranged in 3 rows and 3 columns
Material of Construction	High quality MDF



Wooden Drawer Shelf - MET-DS Series

Model No	No of Drawers in one column	No of column	Total No of drawers	Inside dimensions of each drawer (Length x Width x Depth)	Overall dimensions (Width x Height x Depth)	Suitable breadboard support models
BDS-400-A	4	1	4	530 x 300 x 110	400 x 700 x 600	90 x 90 mm & above
BDS-400-B	3	1	3	530 x 300 x 130	400 x 650 x 600	90 x 90 mm & above
BDS-600-D	4	1	4	530 x 500 x 110	600 x 700 x 600	120 x 90 mm & above
BDS-600-E	3	1	3	530 x 500 x 130	600 x 650 x 600	120 x 90 mm & above
BDS-400-2A	4	2	8	530 x 300 x 110	800 x 700 x 600	150 x 90 mm & above
BDS-400-3A	3	2	6	530 x 300 x 130	800 x 650 x 600	150 x 90 mm & above
BDS-400-3B	3	3	9	530 x 300 x 130	1200 x 650 x 600	180 x 90 mm & above
BDS-600-2D	4	2	8	530 x 500 x 110	1200 x 700 x 600	180 x 90 mm & above
BDS-600-2E	3	2	6	530 x 500 x 130	1200 x 650 x 600	180 x 90 mm & above
BDS-600-EE	3	2	6	530 x 500 x 130	600 x 650 x 600	250 x 120mm & above

Metal Drawer Shelf

MET-DS Series

Type of Drawer	Designed for maximum utilization of the space under the table
No of Drawers	9 Nos arranged in 3 rows and 3 columns
Material of Construction	High quality MDF



Metal Drawer Shelf - MET-DS Series

MET-DS-400-A	4	1	4	530 x 300 x 110	400 x 700 x 600	90 x 90mm & above
MET-DS-400-B	3	1	3	530 x 300 x 130	400 x 650 x 600	90 x 90mm & above
MET-DS-600-D	4	1	4	530 x 500 x 110	600 x 700 x 600	120 x 90mm & above
MET-DS-600-E	3	1	3	530 x 500 x 130	600 x 650 x 60	120 x 90mm & above
MET-DS-400-2A	4	2	8	530 x 300 x 110	800 x 700 x 600	150 x 90mm & above
MET-DS-400-3A	4	3	12	530 x 300 x 110	1200 x 700 x 600	180 x 90mm & above
MET-DS-400-2B	3	2	6	530 x 300 x 130	800 x 650 x 600	150 x 90mm & above
MET-DS-400-3B	3	3	9	530 x 300 x 130	1200 x 650 x 600	180 x 90mm & above
MET-DS-600-2D	4	2	8	530 x 500 x 110	1200 x 700 x 600	180 x 90mm & above
MET-DS-600-2E	3	2	6	530 x 500 x 130	1200 x 650 x 600	180 x 90mm & above
MET-DS-600-EE	3	2	2	530 x 500 x 130	600 x 650 x 60	250 x 120mm & above

2 nos of independent drawer shelves



19" Rack Shelf

19-IN-RS SERIES



Model No:	Rack Height	No of column	Overall dimensions (Width x Height x Depth)
19-IN-RS-12U-A	12 U	1	500 x 700 x 600
19-IN-RS-14U-B	14 U	1	500 x 650 x 600
19-IN-RS-12U-D	12 U	2	1000 x 700 x 600
19-IN-RS-14U-E	14 U	2	1000 x 650 x 600

Accessories for 19" Rack Shlef	Model No:	Height
2U Drawer Shelf	2U-DS-A	2U
3U Drawer Shelf	2U-DS-B	3U
4U Drawer Shelf	2U-DS-C	4U
Cantilever Rack Shelf	2U-DS-D	2U
Cantilever Rack Shelf with Optical Breadboard	2U-DS-DD-E	2U

Enclosures

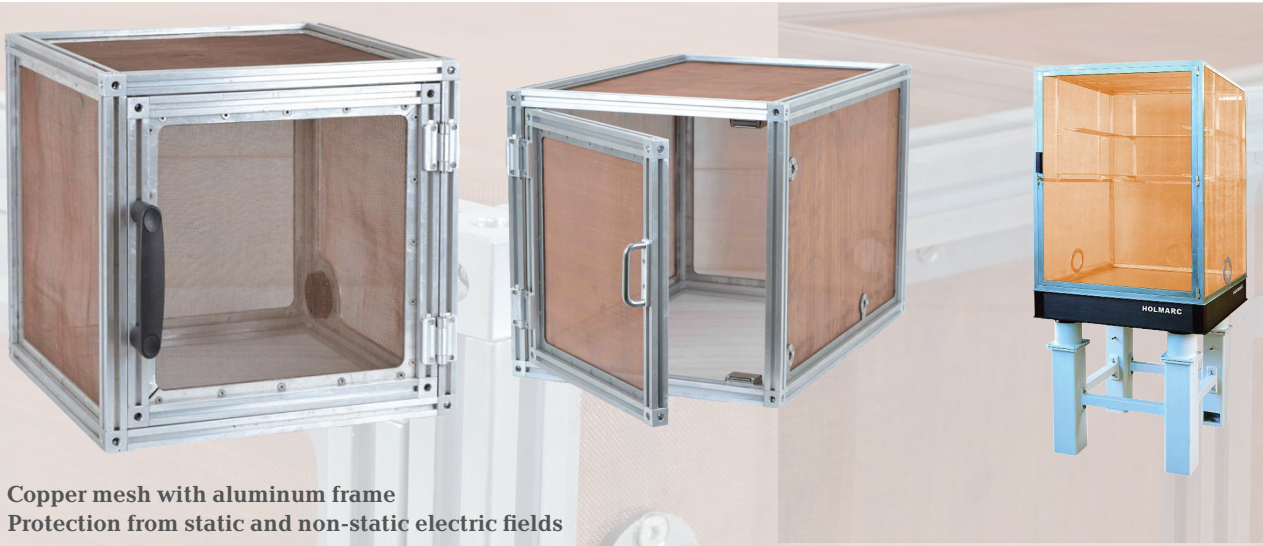
- Faraday Cage
- Metallic Enclosures
- Transparent Enclosures & Black
- Acoustic Enclosure Enclosures



Faraday Cage

Holmarc's benchtop faraday cage incorporates detachable aluminium frame and copper mesh to shield electromagnetic interference. Magnetic closures and large access doors or detachable front panel used in our models provide much convenient access.

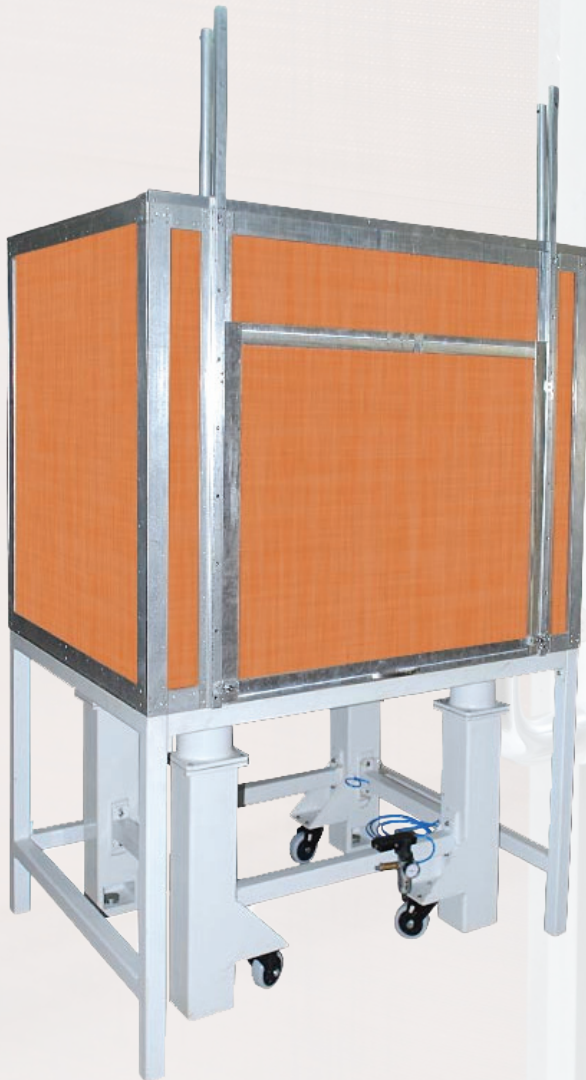
These are compatible with all HOLMARC make standard breadboards / tabletops and fits directly without modifications / changes.



Copper mesh with aluminum frame
Protection from static and non-static electric fields

Wooden Drawer Shelf - MET-DS Series	
Frame material	Aluminium
Mesh material	Copper
Copper mesh visibility	30 %
Copper mesh wire dia.	0.254 mm
Side panel fixing method	Screwable side panel
Number of cable ports with endcaps	2 Nos.
Door	Front door or screwable panel

Model No	Size	About
FRC-60-60-HD	600 x 600 x 600	Enclosure with hinged front door & detachable side panels
FRC-60-60-DT		Enclosure with detachable panels on all sides
FRC-90-60-HD	900 x 600 x 750	Enclosure with hinged front door & detachable side panels (900 mm side)
FRC-90-60-DT		Enclosure with detachable panels on all sides
FRC-90-90-HD	900 x 900 x 900	Enclosure with hinged front door & detachable side panels
FRC-90-90-DT		Enclosure with detachable panels on all sides
FRC-120-90-HD	1200 x 900 x 900	Enclosure with hinged front door & detachable side panels (900 mm door width on 1200 mm side)
FRC-120-90-DT		Enclosure with detachable panels on all sides
FRC-120-120-HD	1200 x 1200 x 900	Enclosure with hinged front door & detachable side panels (900 mm door width on 1200 mm side)
FRC-120-120-DT		Enclosure with detachable panels on all sides
FRC-180-120-HD	1800 x 1200 x 900	Enclosure with hinged front door & detachable side panels (900 mm door width on 1200 mm side)
FRC-180-120-DT		Enclosure with detachable panels on all sides
FRC-A-B-C-SLD	A x B x C ***	Enclosure with hinged front door & detachable side panels (900 mm max. door width on larger side)
FRC-A-B-C-HD		Enclosure with detachable panels on all sides



Metallic Enclosures

Holmarc's Metallic Enclosure consists of aluminium panels and aluminium extrusion frame with black powder coating. There are two options for front door – hinged or sliding. Two cable ports with endcaps are provided on the back side of the enclosure. Power outputs and roof LED light with on / off switches can be integrated with the enclosure, if specified at the time of ordering.

LED cabin lighting

Options for front door : hinged / sliding



Specifications

Frame material	Aluminium
Panels	2 mm thick aluminium
Visibility	0 %
Side panel fixing method	Tightened by rubber beading inside frame slots
Number of cable ports with endcaps	2 Nos.
Front door	Hinged or sliding
Finish	Black powder coated

Model No	Size (L x B x H) mm	Type
MTE-60-60-HD	600 x 600 x 600	Enclosure with hinged front door
MTE-60-60-SLD	600 x 600 x 600	Enclosure with sliding front door
MTE-90-60-HD	900 x 600 x 750	Enclosure with hinged front door (longer side)
MTE-90-60-SLD	900 x 600 x 750	Enclosure with sliding front door (longer side)
MTE-90-90-HD	900 x 900 x 900	Enclosure with hinged front door
MTE-90-90-SLD	900 x 900 x 900	Enclosure with sliding front door
MTE-120-90-HD	1200 x 900 x 900	Enclosure with hinged front door (longer side)
MTE-120-90-SLD	1200 x 900 x 900	Enclosure with sliding front door (longer side)
MTE-120-120-HD	1200 x 1200 x 900	Enclosure with hinged front door
MTE-120-120-SLD	1200 x 1200 x 900	Enclosure with sliding front door
MTE-180-120-HD	1800 x 1200 x 900	Enclosure with hinged front door (longer side)
MTE-180-120-SLD	1800 x 1200 x 900	Enclosure with sliding front door (longer side)
MTE-A-B-C-HD	A x B x C ***	Enclosure with hinged front door (longer side)
MTE-A-B-C-SLD	A x B x C ***	Enclosure with sliding front door (longer side)

Accessories (LED Light and Power Socket)		
Model No	Type	
PS-15A-1	15A power socket with switch	1 No
PS-15A-2	15A power socket with switches	2 Nos
PS-15A-3	15A power socket with switches	3 Nos
LED-RF-1	Roof LED with Switch	1 No
LED-RF-2	Roof LED with Switches	2 Nos

Transparent Version of these Enclosures



Holmarc's Transparent Enclosure consists of acrylic panels and machined aluminium frame. Front door is available with two options : hinged door or sliding door. Enclosure frame has black powder coated finish. Back side of the enclosure has two cable ports with end caps. Mounting clamps are provided for fixing the enclosure with breadboard. Power outputs and roof LED light with on / off switches are integrated with enclosure, if specified with the model by the customer.

Specifications

Frame material	Aluminium
Panels	3 - 12 mm thick acrylic
Visibility	95 %
Side panel fixing method	Side panel fixing method
Number of cable ports with endcaps	2 Nos.
Front door	Hinged or sliding
Finish (frame)	Black powder coated

Model No	Size (L x B x H) mm	Type
TE-60-60-HD	600 x 600 x 600	Enclosure with hinged front door
TE-60-60-SLD	600 x 600 x 600	Enclosure with sliding front door
TE-90-60-HD	900 x 600 x 750	Enclosure with hinged front door (longer side)
TE-90-60-SLD	900 x 600 x 750	Enclosure with sliding front door (longer side)
TE-90-90-HD	900 x 900 x 900	Enclosure with hinged front door
TE-90-90-SLD	900 x 900 x 900	Enclosure with sliding front door
TE-120-90-HD	1200 x 900 x 900	Enclosure with hinged front door (longer side)
TE-120-90-SLD	1200 x 900 x 900	Enclosure with sliding front door (longer side)
TE-120-120-HD	1200 x 1200 x 900	Enclosure with hinged front door
TE-120-120-SLD	1200 x 1200 x 900	Enclosure with sliding front door
TE-180-120-HD	1800 x 1200 x 900	Enclosure with hinged front door (longer side)
TE-180-120-SLD	1800 x 1200 x 900	Enclosure with sliding front door (longer side)
TE-A-B-C-HD	A x B x C ***	Enclosure with hinged front door (longer side)
TE-A-B-C-SLD	A x B x C ***	Enclosure with sliding front door (longer side)
Accessories (LED Light and Power Socket)		
Model No	Type	
PS-15A-1	15A power socket with switch	1 No
PS-15A-2	15A power socket with switches	2 Nos
PS-15A-3	15A power socket with switches	3 Nos
LED-RF-1	Roof LED with Switch	1 No
LED-RF-2	Roof LED with Switches	2 Nos

Small Size Transparent Enclosures & Black Enclosures

Holmarc's Small Size Enclosures consists of acrylic panels (Transparent or Black) and extruded aluminium frame. Front door is available with two options : hinged and sliding door. Enclosure frame is black powder coated. Two cable ports with end caps are provided on the back side of the enclosure. Mounting clamps are provided for fixing the enclosure with breadboard.

Acrylic panels with
aluminum frame

Transparent panels



Specifications

Frame material	Aluminium
Panels	2 - 3 mm thick transparent acrylic
Visibility	95 %
Side panel fixing method	Tightened by rubber beading inside frame slots
Number of cable ports with endcaps	2 Nos.
Front door	Hinged or sliding
Finish (frame)	Black powder coated

TSE-300-300-SLD	300 x 300 x 300	Enclosure with sliding front door
TSE-300-300-HD	300 x 300 x 300	Enclosure with hinged front door
TSE-600-300-SLD	600 x 300 x 300	Enclosure with hinged front door (600 mm side)
TSE-600-300-HD	600 x 300 x 300	Enclosure with sliding front door (longer side)
TSE-600-600-SLD	600 x 600 x 300	Enclosure with sliding front door
TSE-600-600-HD	600 x 600 x 300	Enclosure with hinged front door
TSE-900-600-SLD	900 x 600 x 450	Enclosure with sliding front door (900 mm side)
TSE-900-600HD	900 x 600 x 450	Enclosure with hinged front door (900 mm side)
TSE-900-900-SLD	900 x 900 x 450	Enclosure with sliding front door
TSE-900-900-HD	900 x 900 x 450	Enclosure with hinged front door
TSE-A-B-C-SLD	A x B x C ***	Enclosure with sliding front door (longer side)
TSE-A-B-C-HD	A x B x C ***	Enclosure with hinged front door (longer side)

*** Order by specifying A, B & C (Example)

1. TSE-950-650-500-SLD Enclosure with sliding door (950 mm side)
2. TSE-850-450-300-HD Enclosure with hinged door (850 mm side)

Black Enclosures



Acrylic panels with
aluminum frame

Black panels

Specifications

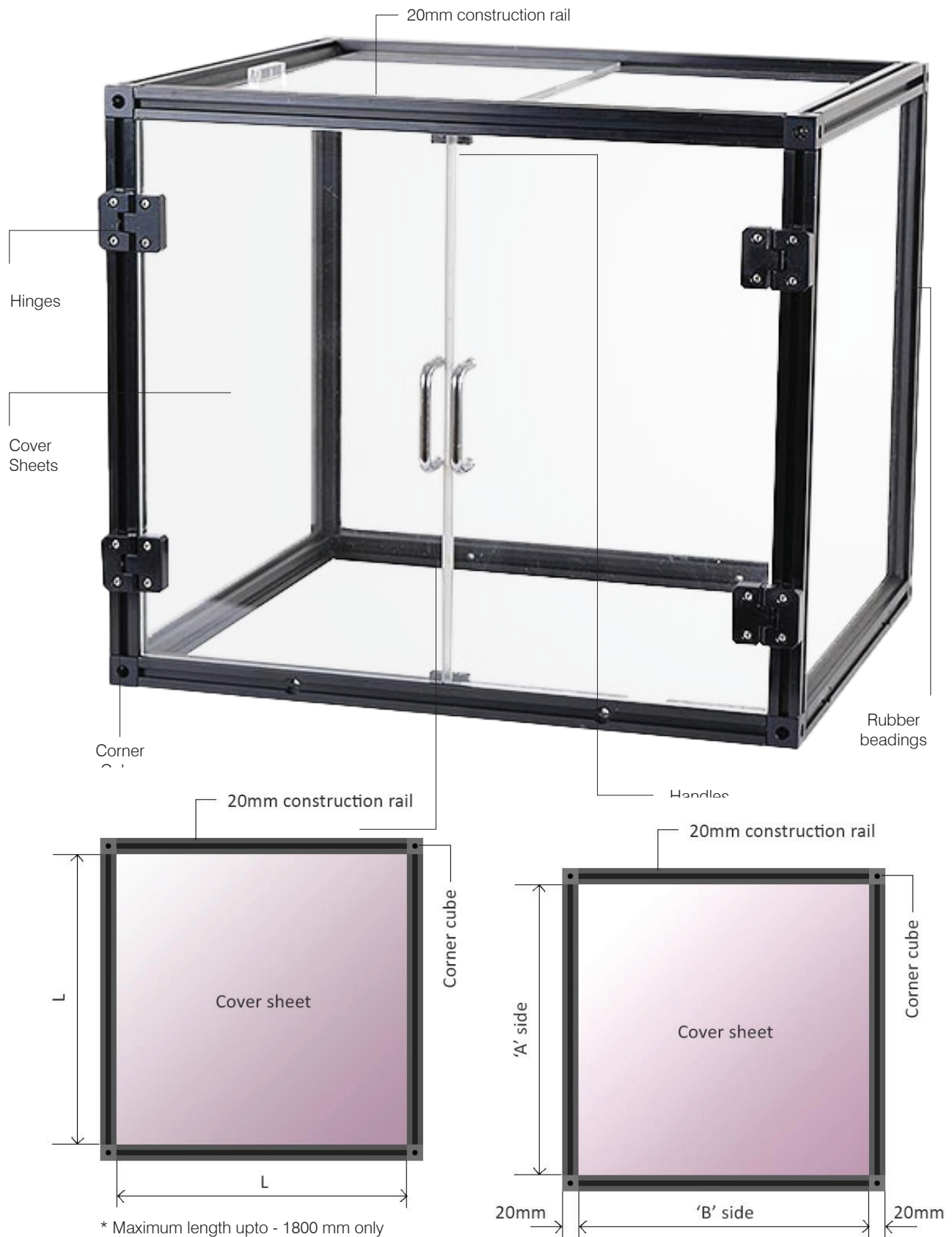
Frame material	Aluminium
Panels	2 - 3 mm thick black acrylic
Side panel fixing method	Tightened by rubber beading inside frame slots
Number of cable ports with endcaps	2 Nos.
Front door	Hinged or sliding
Finish (frame)	Black powder coated

Model	Dimensions (mm)	Description
BLE-300-300-SLD	300 x 300 x 300	Enclosure with sliding front door
BLE-300-300-HD	300 x 300 x 300	Enclosure with hinged front door
BLE-600-300-SLD	600 x 300 x 300	Enclosure with hinged front door (600 mm side)
BLE-600-300-HD	600 x 300 x 300	Enclosure with sliding front door (longer side)
BLE-600-600-SLD	600 x 600 x 300	Enclosure with sliding front door
BLE-600-600-HD	600 x 600 x 300	Enclosure with hinged front door
BLE-900-600-SLD	900 x 600 x 450	Enclosure with sliding front door (900 mm side)
BLE-900-600HD	900 x 600 x 450	Enclosure with hinged front door (900 mm side)
BLE-900-900-SLD	900 x 900 x 450	Enclosure with sliding front door
BLE-900-900-HD	900 x 900 x 450	Enclosure with hinged front door
BLE-A-B-C-SLD	A x B x C ***	Enclosure with sliding front door (longer side)
BLE-A-B-C-HD	A x B x C ***	Enclosure with hinged front door (longer side)

*** Order by specifying A, B & C (Example)

1. BLE-950-650-500-SLD Enclosure with sliding door (950 mm side)
2. BLE-850-450-300-HD Enclosure with hinged door (850 mm side)

Enclosure Construction System



1. 20 mm construction rail		
Model No	Length (mm)	Mounting
BX-20RL-210	210	M4 tapped holes on both ends
BX-20RL-260	260	
BX-20RL-310	310	
BX-20RL-360	360	
BX-20RL-410	410	
BX-20RL-460	460	
BX-20RL-510	510	
BX-20RL-560	560	
BX-20RL-710	710	
BX-20RL-860	860	
BX-20RL-960	960	
BX-20RL-1200	1200	
BX-20RL-XXX	Custom length *	
2. Corner Cube		
Model No	Length (mm)	Mounting
BX-20-CC	20 x 20 x 20	M4 CBR
3. Hinges		
Model No		
BX-20-HG		
Magnetic latch with holder		
BX-20-MGH		
5. Handles		
Model No	Type	
BX-20-SSU	Stainless steel U shaped handle along with mounting plate screws and T nut	
BX-20-PH4	Plastic handle (4 inch) with insert screws and T nut	
6. Cover Sheets		
Model No	L x W (mm)	Type
BX-20-3TAS-A-B	A x B	3 mm thick transparent acrylic sheet (custom size *)
BX-20-3BAS-A-B	A x B	3 mm thick black acrylic sheet (custom size *)
Method to specify A and B 'A' side rail length + 10 mm 'B' side rail length + 10 mm Eg: A' side rail length = 360 mm, then L = 370 mm 'B' side rail length = 510 mm, then W = 520 mm		
7. Rubber beading - Rubber beading is used for tightening the panels inside aluminium frame.		
Model No	Size	
BX-20-RB	5 meters	
8. Clamps		
Model No	Type	
BX-20-TB	Table clamp for fixing to breadboard	
9. T-nut and Screws		
Model No	Type	Qty
BX-20-TN	T - nut	50 per pack
BX-20-M4-10	M4 x 10 screw	50 per pack
BX-20-M3-10	M3 x 10 screw	50 per pack
Allen key	Allen key set	1 set
Spring washer	Spring washer	50 per pack

Acoustic Enclosure

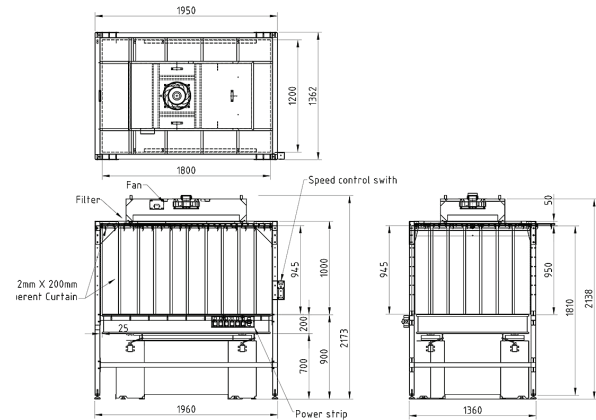


Specifications

Body	MS painted
Inner side walls	Acoustic Insulation Foam Kit
Close Cell	XLPE x 25 mm thick with Scrim Alu. Foil Facing
Enclosure size	2.11 ft x 2.11 ft x 2.6 ft
Main door	Hinged push up main door with a small access door
Foam Specs	Close Cell XLPE, 26 kg/m3 density, Grey
	Fire-resistant 'BS476 Class-0' flammability

Vertical Laminar Flow with Optical Table and Side Curtains

The vertical laminar flow work table with an optical table and side curtains is designed to meet the specific needs of optical experiments and sensitive research applications. Featuring a vertical laminar airflow pattern, this table directs clean air downward, creating a clean zone around the work area. The inclusion of an optical table provides a stable platform for optical setups and experiments, ensuring precise alignment and accurate measurements. Additionally, side curtains enhance containment, minimizing the risk of external contamination and maintaining a controlled environment for delicate procedures. This configuration is well-suited for optical microscopy, spectroscopy, and other experiments requiring a clean and stable workspace.



Side wall	2 mm thick PVC sheet width 200 mm (curtain)
Side pillars	2" ms painted



Freestanding frame with Black curtain

Model No	Length	Width
LMHV-90-90-B	90	90
LMHV-120-90-B	120	90
LMHV-120-120-B	120	120
LMHV-180-120-B	180	120
LMHV-240-120-B	240	120
LMHV-300-120-B	300	120
LMHV-180-150-B	180	150
LMHV-240-150-B	240	150
LMHV-300-150-B	300	150
LMHV-360-150-B	360	150

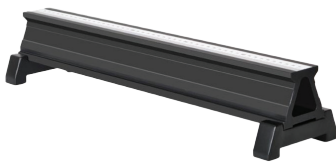
Model No	Length	Width
LMHV-90-90-T	90	90
LMHV-120-90-T	120	90
LMHV-120-120-T	120	120
LMHV-180-120-T	180	120
LMHV-240-120-T	240	120
LMHV-300-120-T	300	120
LMHV-180-150-T	180	150
LMHV-240-150-T	240	150
LMHV-300-150-T	300	150
LMHV-360-150-T	360	150

Optic Rails

- Rail with Dovetail design & Carriers
- HC - 2, HC-3 Rail & Carriers

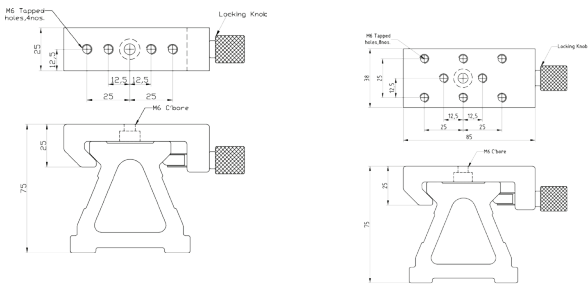


Dovetail Triangular Optical Rail & Carrier



Specifications

- Heavy duty
- Aluminum material
- Black anodized finish
- Quick changeable rail carriage

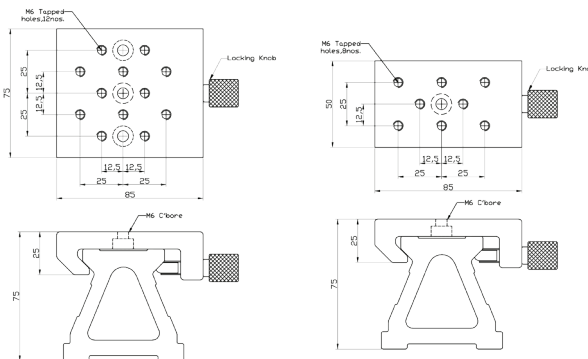


Optic Rails	
Model No	Length (mm)
RL-HC4-500	500
RL-HC4-750	750
RL-HC4-1000	1000
RL-HC4-1250	1250
RL-HC4-1500	1500
RL-HC4-2000	2000

Carrier for Dovetail Triangular Optical Rail



These carriers are compatible with our Dovetail Triangular Optical Rail. They are available in three different lengths ranging from 25 mm to 100 mm. The carriers can be locked anywhere on the rail. Both M6 and M4 tapped holes are provided on it for mounting components.



Model No	
Model No	Length (mm)
RLC-HC4-25	25
RLC-HC4-38	38
RLC-HC4-50	50
RLC-HC4-75	75
RLC-HC4-100	100

HC - 2 Rail & Carriers



HC-2 Rail

Model No	Length (mm)
----------	-------------

RL-HC2-250	250
RL-HC2-500	500
RL-HC2-750	750
RL-HC2-1000	1000
RL-HC2-1250	1250
RL-HC2-1500	1500
RL-HC2-2000	2000

Note : Rails exceeding 2 m are available on request

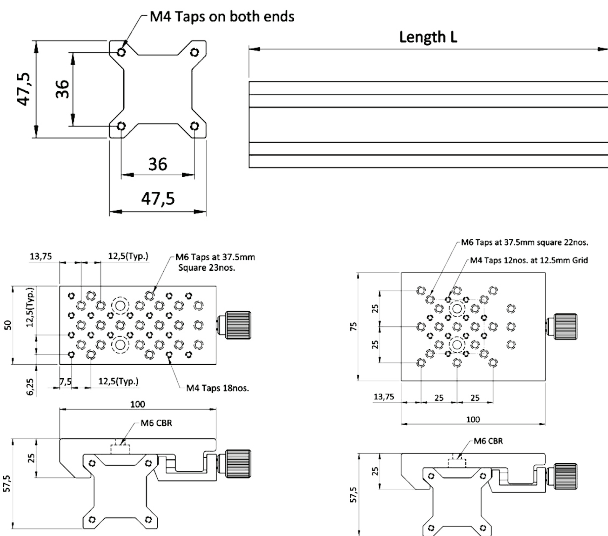
Carrier for HC - 2 Rails

These carriers are compatible with our HC-2 rails. They are available in standard width of 100mm and of various lengths ranging from 50 mm to 150 mm. The carriers can be locked anywhere on the rail. Both M6 and M4 tapped holes are provided on it for mounting components.

Model No	Length (mm)
----------	-------------

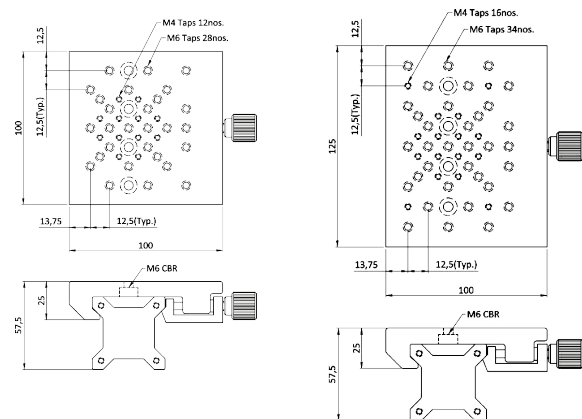
RLC-HC2-25	25
RLC-HC2-50	50
RLC-HC2-75	75
RLC-HC2-100	100
RLC-HC2-125	125
RLC-HC2-150	150

length from knob center to edge



MODEL RLC-HC2-50

MODEL RLC-HC2-75



MODEL RLC-HC2-100

MODEL RLC-HC2-125



HC - 3 Rail & Carriers

Carrier for HC - 3 Rails

These carriers are compatible with our HC-3 rails. They are available in three different lengths ranging from 25 mm to 75 mm. The carriers can be locked anywhere on the rail. Both M6 and M4 tapped holes are provided on it for mounting components.



HC-3 Rail

HC-3 rails are triangular shaped aluminium extrusions. They are available in various lengths ranging from 0.5 to 2m. They are rigid in structure and are light weight. Linear scale with 1mm graduation are provided on the side for quick position reference.



Aluminium extrusions
Ground finish

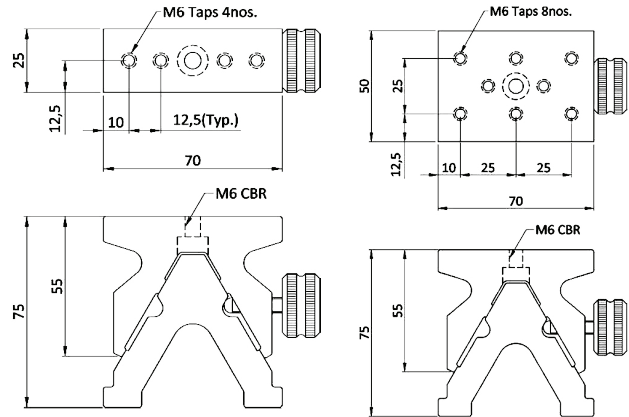
Accessories

Vertical mounting base :

Vertical Mounting Bases are required for stable mounting of the rails and other optical components to the breadboard or optical workstation. We supply bases compatible with our standard HC-1 and HC-2 rails for vertical mounting. They are available in different sizes as per the user requirement. They are given black anodised finish and are given necessary holes for mounting purposes

Base with leveling screws

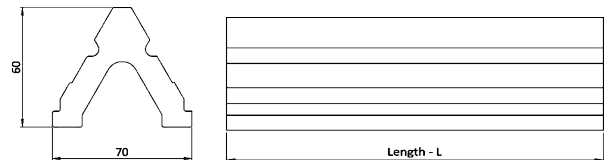
Bases are required for stable mounting of the rails and other optical components to the breadboard or optical workstation. We supply bases compatible with our standard HC-1, HC-2 and HC-3 rails. These bases are provided with leveling screws that enable users to level the rail as per requirement. They are given black anodised finish and are given necessary holes for mounting purposes.



MODEL RLC-HC3-25

MODEL RLC-HC3-50

Model No	Length (mm)
RLC-HC3-25	25
RLC-HC3-50	50
RLC-HC3-75	75
length from knob center to edge	



Model No	Length (mm)
RL-HC3-500	500
RL-HC3-750	750
RL-HC3-1000	1000
RL-HC3-1250	1250
RL-HC3-1500	1500
RL-HC3-2000	2000



Model No	Compatible Rail	Base Plate Size
BP-RLC-HC2-75	HC-2	75 x 75 x 12
BP-RLC-HC2 -100	HC-2	100 x 100 x 12
BP-RLC-HC1 -100	HC-1	100 x 100 x 15
BP-RLC-HC1 -175	HC-1	165 x 165 x 15



Model No	Compatible Rail
BPL-RLC-HC3	HC-3
BPL-RLC-HC2	HC-2
BPL-RLC-HC1	HC-1



Designed @ HOLMARC Design LAB
Cochin, May 2025



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Product Group

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