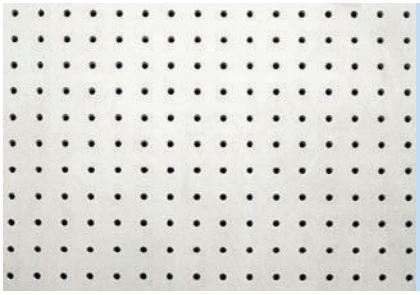
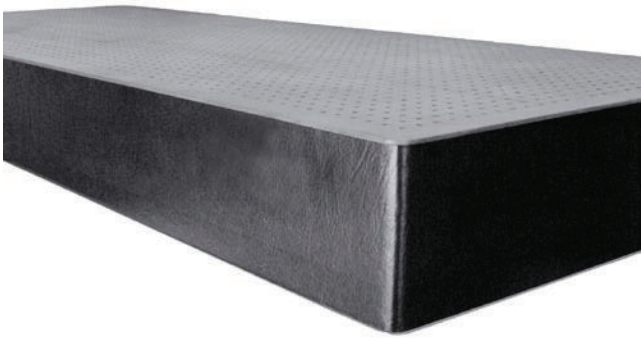


Optical Tables

720 • 730 • 740 HONEYCOMB TABLE TOPS



- **Sandwich structure with steel honeycomb core**
- **5 mm ferromagnetic stainless steel top skin with a pattern of M6 holes spaced by 25 mm**
- **Surface flatness ±0.1 mm over any 1 m² area**
- **Laser Port (optional)**

Honeycomb Table Tops provide the base on which precision optical and laser work is performed. The table tops have a honeycomb core inside.

The table tops meet high requirements for rigidity, flatness, vibration isolation and damping. We work constantly to improve the design, weight and cost-effectiveness of the table tops.

Standard Honeycomb Tabletop consists of a 5 mm thick cold-rolled stainless ferromagnetic steel top skin, and 3–6 mm thick bottom skin, both bound under high pressure to a honeycomb core, using a special epoxy resin. Thickness of the skin depends on the dimensions of the table top.

The top skin has a pattern (grid) of M6 holes spaced by 25 mm with ±0.1 mm accuracy. It allows to make very quick experimental setups, and, at the same time, ensures a high level of precision and reproducibility. The surface of the top skin is ground to flatness of ±0.1 mm over 1 m² area over the entire surface. The bottom skin is coated in a firm decorative coating.

Our standard honeycomb core is made of 0.25 mm corrosion-resistant plated sheet steel. A special composition of epoxy resin guarantees adhesion, rigidity, stability and damping corresponding to highest requirements.

The side-walls of the table top are made of a special acoustically hollow plastic which damps acoustic vibrations. The side-walls are covered in a decorative black leather substitute.

Upon request a Laser Port can be embedded in the table top allowing a laser beam to be let through the table (see the next page).

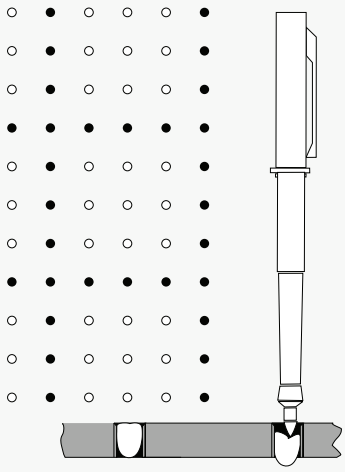
The Honeycomb Table Tops have been mechanically and acoustically tested by qualified specialists.

THE CONCEPT OF CLOSED TOP HONEYCOMB TABLES

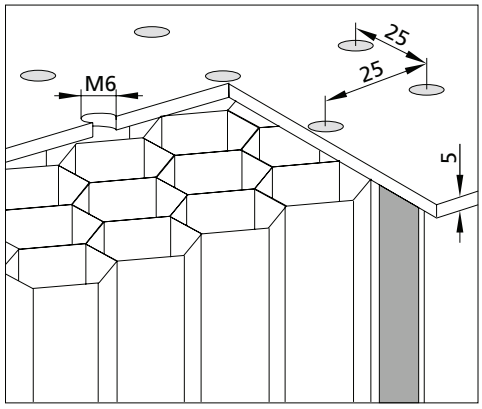
Real Closed Top – no way for liquids or tiny particles to get in. There are only the holes you do use. Make “new” holes by yourself.

If You need a hole, clear it of the plug with a pencil or any similar item. Seal the no longer needed hole with the self-solidifying plastic mass again.

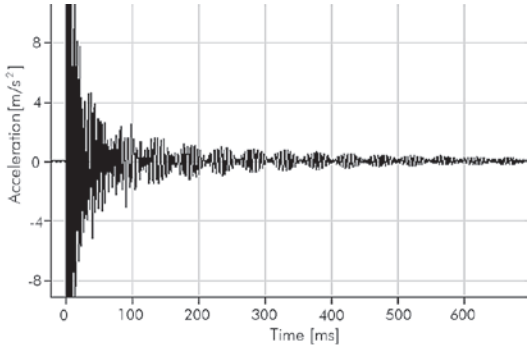
In order to facilitate composition of optical schemes, we pre-set the plastic plugs of two colours, so that they form a coordinate grid with a mesh of 100 mm.



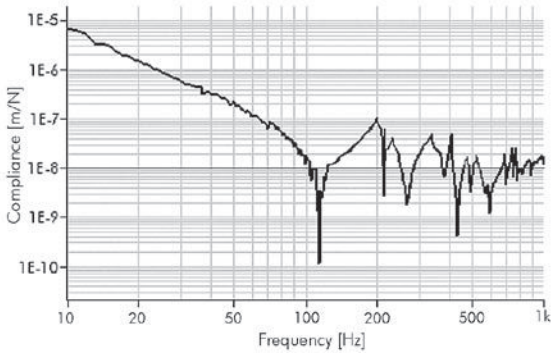
- **Top skin 5 mm thick stainless ferromagnetic steel**
- **Honeycomb core of 0.25 mm thick steel has a density of 125–250 kg/m³ depending on the mesh size and its structure**
- **Top skin has a pattern of M6 holes spaced by 25 mm**
- **Flatness ±0.1 mm/m²**
- **Young's modulus 21×10⁵ kg/cm²**
- **Shear modulus 8.2×10⁵ kg/cm²**
- **Static rigidity 4 μm/m (100 kg centrally loaded)**
- **Resonant frequency approx. 200 Hz**
- **Transient excitation delay time 50 ms**



Structure of the honeycomb table tops



Acceleration curve for 720-1224 Table Top



Compliance curve for 720-1224 Table Top

Honeycomb table tops ordering chart

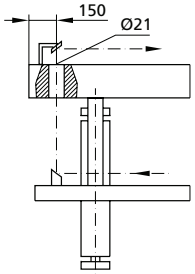
Size, mm	Thickness, mm		
	200	300	400
600×2400	720-0624		
800×1000	720-0810		
800×1200	720-0812		
800×1500	720-0815		
800×1800	720-0818		
800×2000	720-0820		
800×2400	720-0824		
900×1000	720-0910		
900×1200	720-0912		
900×1400	720-0914		
900×1500	720-0915		
900×1600	720-0916		
900×1800	720-0918	730-0918	
900×2400	720-0924	730-0924	
1000×1000	720-1010		
1000×1200	720-1012		
1000×1500	720-1015	730-1015	
1000×1800	720-1018	730-1018	
1000×2000	720-1020	730-1020	
1000×2400	720-1024	730-1024	
1000×3000	720-1030	730-1030	
1000×3500	720-1035	730-1035	
1200×1200	720-1212	730-1212	
1200×1500	720-1215	730-1215	
1200×1800	720-1218	730-1218	
1200×2400	720-1224	730-1224	740-1224
1200×3000	720-1230	730-1230	740-1230
1200×3500	720-1235	730-1235	740-1235
1200×4000	720-1240	730-1240	740-1240
1500×1500	720-1515	730-1515	740-1515
1500×1800	720-1518	730-1518	740-1518
1500×2000	720-1520	730-1520	740-1520
1500×2400	720-1524	730-1524	740-1524
1500×2500	720-1525	730-1525	740-1525
1500×3000	720-1530	730-1530	740-1530
1500×3500	720-1535	730-1535	740-1535
1500×4000	720-1540	730-1540	

Custom sizes are available on request.

Non-Ferromagnetic Table Tops are available to special orders

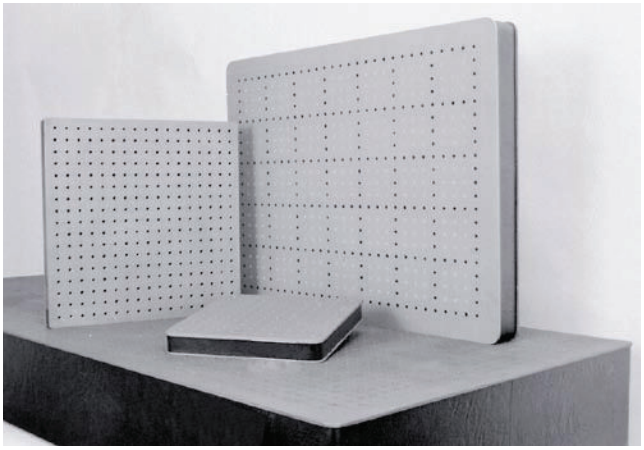
Laser Ports are designed to lead a laser beam or cables through a Table Top. The standard location of a port is chosen for use with the Laser Shelves 792.

To specify a Laser Port in your order please append letter "H" to the code of a Honeycomb Table Top e.g. 720-1020-H.



Optolita UAB • Tel.: +370 5 272 99 00 • Fax: +370 5 272 92 99 • info@eksmaoptics.com • www.eksmaoptics.com

704 • 705 • 707 • 712 HONEYCOMB BREADBOARDS

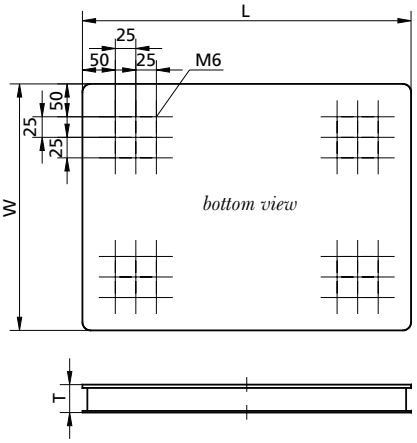


- **Core – 265 kg/m³ 0.25 mm thick steel honeycomb**
- **Top skin – 5 mm thick ferromagnetic stainless steel**
- **Pattern of M6 holes spaced by 25 mm**
- **Flatness ±0.1 mm/m²**

Honeycomb Breadboards provide extremely effective way to expand the useful area of an optical table. The mounting surface has tapped M6 holes on 25 mm centers for permanent mounting of components. The baseplates contain the same sandwich structure as full size honeycomb table tops. The standard top skin is made of ferromagnetic stainless steel. Thickness of the skin is 5 mm.

All Honeycomb Breadboards have a grid of nine M6 tapped mounting holes in each corner of the bottom side. They can be mounted on the bottom side of a table or elevated above its surface using Silent Rods 795-0010.

The Breadboards are not intended to substitute optical tables. Their size-to-thickness ratio produces relatively low end-to-end rigidity, although their local rigidity over distances of less than about 30 to 60 cm is excellent. When attached solidly to a dynamically rigid optical table, performance of resulting working surface becomes comparable to that of the table itself.



Honeycomb Breadbords ordering chart

Size W×L, mm	Thickness T, mm			
	40	50	70	120
300×300	704-0303			
300×600	704-0306	705-0306		
300×900	704-0309	705-0309		
300×1200	704-0312	705-0312		
300×1800	704-0318	705-0318		
440×440	704-4444			
500×500	704-0505	705-0505	707-0505	
500×750	704-0575	705-0575	707-0575	
500×1000	704-0510	705-0510	707-0510	
600×600	704-0606	705-0606	707-0606	
600×800	704-0608	705-0608	707-0608	
600×900	704-0609	705-0609	707-0609	712-0609
600×1200	704-0612	705-0612	707-0612	712-0612
600×1500			707-0615	712-0615
600×1800			707-0618	712-0618
600×2400			707-0624	712-0624
800×800	704-0808	705-0808	707-0808	712-0808
800×1000		705-0810	707-0810	712-0810
800×1200		705-0812	707-0812	712-0812
800×1500			707-0815	712-0815
800×1800			707-0818	712-0818
900×1000		705-0910	707-0910	712-0910
900×1200		705-0912	707-0912	712-0912
900×1400			707-0914	712-0914
900×1500		705-0915	707-0915	712-0915
900×1600			707-0916	712-0916
900×1800			707-0918	712-0918
900×2400			707-0924	712-0924
1000×1000		705-1010	707-1010	712-1010
1000×1200			707-1012	712-1012
1000×1500			707-1015	712-1015
1000×1800			707-1018	712-1018
1000×2000				712-1020
1000×2400				712-1024
1200×1200			707-1212	712-1212
1200×1500				712-1215
1200×1800				712-1218
1500×1500			707-1515	712-1515
1500×1800				712-1518
1500×2000				712-1520

704-0303

*A breadboard mounted on silent rods **795-0010** and **820-0055***

Custom sizes are available on request.

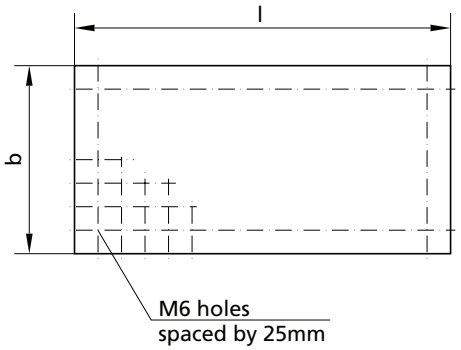
Complementary Products

Code	Page
795-0010	5.21
820-0055	5.39

715 ALUMINIUM BREADBOARDS

- **NOT anodized**
- **Thickness 15 mm**
- **M6 tapped holes pattern on 25 mm centres**

Ask for aluminium breadboards of custom sizes and design.

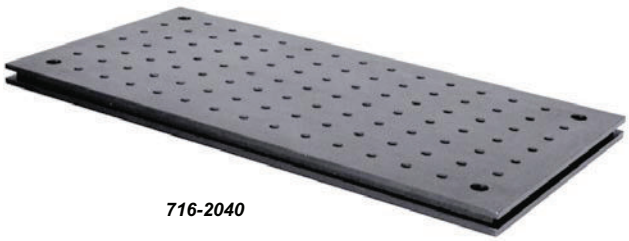


Model	b, mm	l, mm	Thickness, mm	Weight, kg
715-1515-BL	150	150	15	0.95
715-2020-BL	200	200	15	1.7
715-2040-BL	200	400	15	3.4
715-3030-BL	300	300	15	3.8
715-3045-BL	300	450	15	5.7
715-3060-BL	300	600	15	7.6
715-4080-BL	400	800	15	13.5
715-4545-BL	450	450	15	8.5
715-4560-BL	450	600	15	11.35
715-4575-BL	450	750	15	14.2
715-6060-BL	600	600	15	15.2
715-6080-BL	600	800	15	20.1
715-7575-BL	750	750	15	23.6
715-8080-BL	800	800	15	26.9

Ordering information

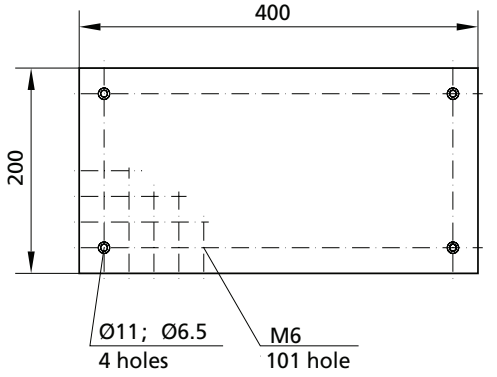
NOT anodized breadboard of size 400×800×15 mm	715-4080
Black anodized breadboard of size 400×800×15 mm	715-4080-BL

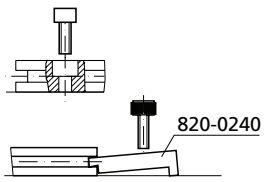
716 SOLID STEEL BREADBOARD



716-2040

- **Length 400 mm; width 200 mm**
- **Thickness 16 mm**
- **Weight 10 kg**
- **M6 tapped holes pattern on 25 mm centres**
- **Flatness ±0.03 mm**





ways to fasten a Breadboard

Solid Steel Breadboard is particularly useful alternative to the honeycomb table tops in small optical setups.

716-2040 is one-size black chemically oxidized steel plate.

It has grooves on all 4 sides, for quick mounting using Table Clamps 820-0240. There are 4 holes Ø6.5/Ø11 on the corners used to mount directly to tables or to fix at a certain height by Silent Rods 795-0010.

Code	Weight, kg
716-2040	10

Complementary Products

Code	Page
795-0010	5.21
820-0240	5.48

716-2040** mounted on Silent Rods **795-0010

750 • 752 • 754 PNEUMATIC VIBRATION ISOLATION SYSTEMS

Vibration Isolation System 750

Free standing isolator 754

Pneumatic Vibration Isolation Systems ensure low resonant frequency almost independent of load. They have automatic leveling valves and an autonomous air supply reservoir.

The pressure in isolators varies with the load. An air reservoir provides replenishment. When required, it may be refilled with a car pump. Keep the pressure between 1–2 kg/cm².

Vibration Isolation Systems 750 and 752 have all legs connected (air reservoir concealed in the connecting beam). Three support legs have an automatic leveling valve each. Leveling of the fourth leg is connected to that of another leg.

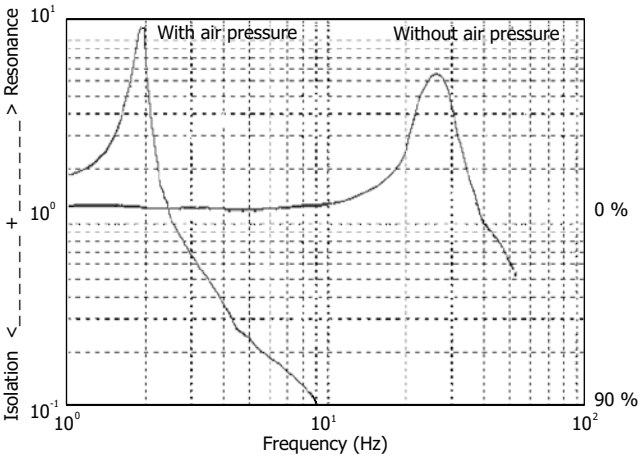
Legs of 754 operate autonomously – not interconnected. One model fits all sizes. You may order 754 not necessarily in sets of 4.

Adjustment knobs (on 3 legs of 750 and 752, on each leg of 754) adjust the level of the working surface within 12 mm. Each leg maintains its level with accuracy of ±1mm.

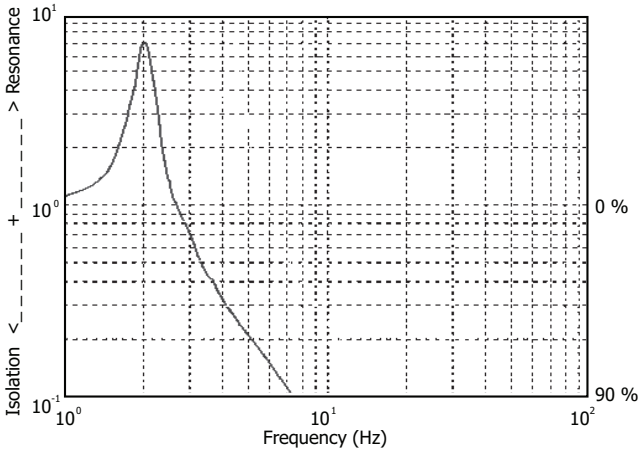
Choose the height of support legs depending on the height of the table top. Recommended elevation of the top surface is about 900 mm.

SPECIFICATIONS

Vertical resonant frequency	2 Hz
Horizontal resonant frequency	2 Hz
Recommended load range (all loads are total per 4 isolators)	
750	100–500 kg
752	400–1000 kg
754	1000–2500 kg
Automatic levelling accuracy	±1 mm
Vertical adjustment range	12 mm
Typical air pressure range	0.5–1.9 kg/cm²

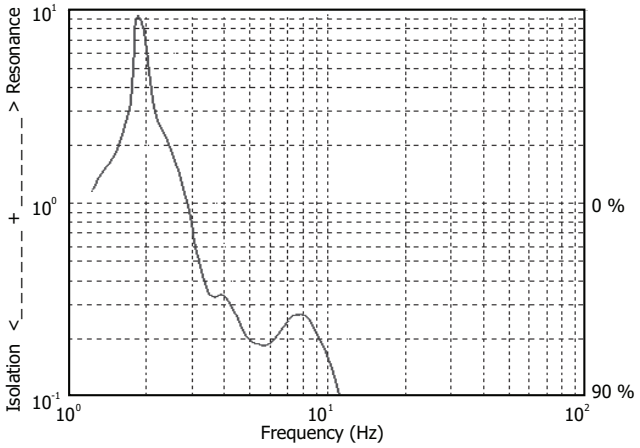


*Typical frequency response of isolators in models **750***



*Vertical transmissibility of the honeycomb table top (model **720-0820**)*

Isolators can have wheels available to order



*Horizontal transmissibility of the honeycomb table top (model **720-0820**)*

Modifications and Ordering

We offer the optimal Vibration Isolation Systems for the optical table of your choice. Required dimensions can be calculated from the following formulas:

B=0.56×b; L=0.56×l; H=900-h

The standard dimensions of 750 are presented below. Select the closest greater values matching your calculations.

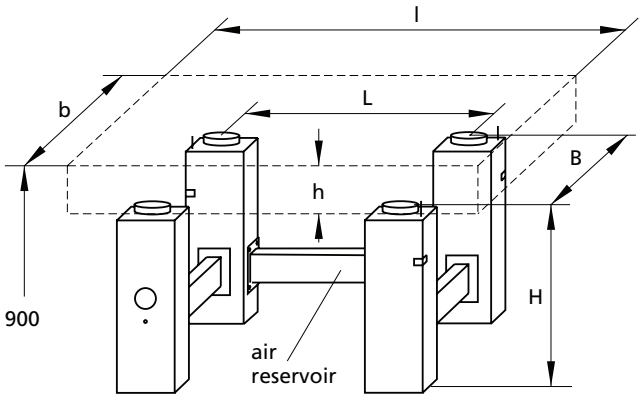
B	500 mm	code 05
	650 mm	code 065
	800 mm	code 08
L	800 mm	code 08
	1300 mm	code 13
	1900 mm	code 19
H	550 mm	code 55
	600 mm	code 60
	650 mm	code 65
	700 mm	code 70
	750 mm	code 75

Examples of resulting codes for ordering:

750-05-08-55
B=500 mm
L=800 mm
H=550 mm

750-065-19-70
B=650 mm
L=1900 mm
H=700 mm

Ordering for 752 and 754 follows the same rules.

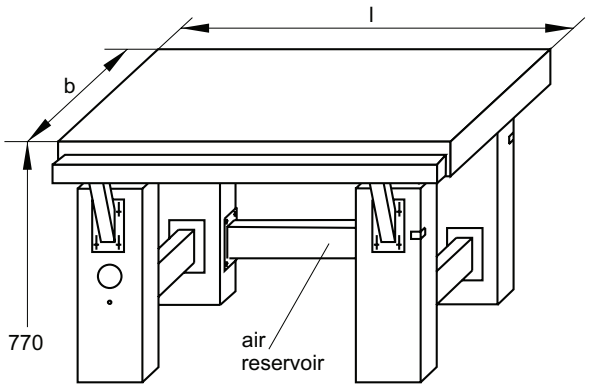


We can produce model 754 for individual table tops. Please specify custom dimensions explicitly.

Vibration Isolation System 754 fits any size, as its legs are separate. The set includes 4 pcs. free-standing isolators

Car Pump and Air Compress are available upon request.

758 PNEUMATIC VIBRATION ISOLATION WORKSTATION



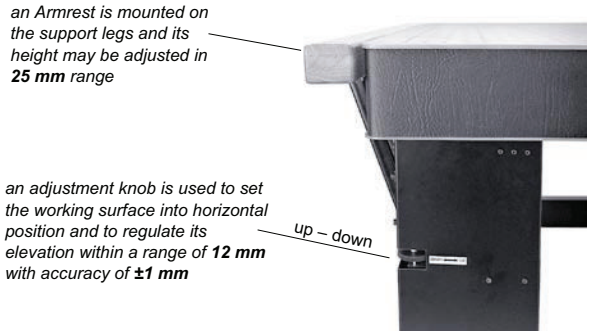
Pneumatic Vibration Isolation Workstation consists of Vibration Isolation System 750, a Honeycomb Table Top, and a guarding Armrest.

Workstation has an automatic leveling valve and an autonomous air supply reservoir. A car pump is available upon request.

As you lean on the Armrest, it guards the honeycomb table from impacts from your body. This allows to work with the table like with a conventional table, using microscope and other equipment. The height of the Armrest over the surface of the table is adjustable within a range of 25 mm.

The suggested table surface elevation is 770 mm. The working surface may be adjusted to level within a range of 12 mm with precision of ±1 mm. This is done by adjustment knobs located on 3 support legs.

On request we produce workstations with Honeycomb Table Tops of any dimensions



We produce two models of **758**

Model	Dimensions of the working surface, (b×l) mm
758-0609	600×900
758-0914	900×1400

The elevation of a working surface for both models is 770 mm. For greater loads – model 759 is available to custom orders.

765 • 766 OPTICAL TABLE SUPPORTS

- **Convenient sizes**
- **Optimal height**
- **Multipurpose in use**
- **Handy assembling**

Optical Table Supports are primarily designed for the Honeycomb Table Tops (720–740). Table Supports are produced from steel tubes of **100 mm** square section, in decorative black coating and contain two "П" type supports, bound by a cross-beam.

Optical Table Supports perfectly suit other types of optical plates and other equipment as well. This is possible because plates are not fastened – they are just laid on top of the supports.

On request we produce table supports of any size, design, and of greater sturdiness.

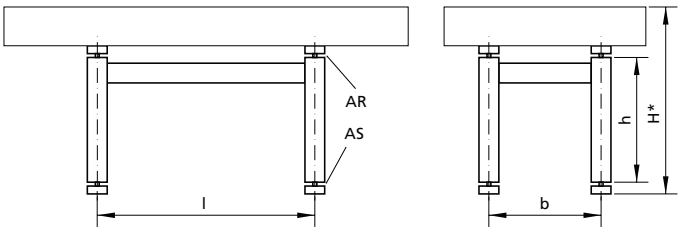


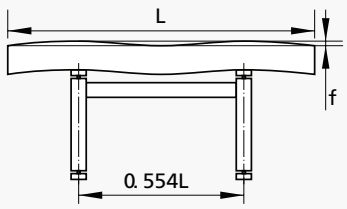
TABLE SUPPORTS IN STOCK

Model	b, mm	l, mm	h, mm	H*, mm	Weight, kg	Best for tabletops
765-0507 **766-0507**	500	700	500 600	820...870 920...970	42	707-0608 712-0914 720-0810
765-0512 **766-0512**	500	1200	500 600	820...870 920...970	45	720-0820
765-6512 **766-6512**	650	1200	500 600	820...870 920...970	51	720-1020 720-1224
765-0812 **766-0812**	800	1200	500 600	820...870 920...970	58	720-1524
765-6518 **766-6518**	650	1800	500 600	820...870 920...970	64	720-1230 720-1235
765-6522 **766-6522**	650	2200	500 600	820...870 920...970	70	720-1240

** The heights are measured with table tops 200 mm thick and with rubber leveling elements AR.*

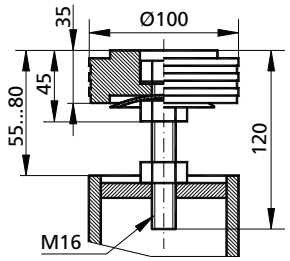
By default we supply rubber leveling elements **AR**. Please specify when ordering **AS** or **AP**. E.g. **766-0512-AS** means table support **500 mm** wide, **1200 mm** long and **600 mm** high with **8** leveling elements **AS**.

If required, e.g. when used with a Laser Shelf, the table support may be assembled upside-down. This doesn't degrade its performance.

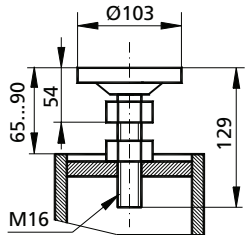


Deflection **"f"** is minimal when the distance between supports = **0.554L**

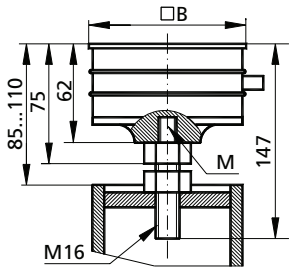
Table supports may be supplied with various leveling and vibration-isolation systems. This allows to meet various needs of our customers.



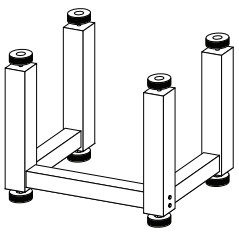
Rubber leveling element (AR) ensures sufficient vibration isolation.



Solid leveling element (AS) is used, when no damping is needed.



Passive air leveling vibration isolator (AP). 4 pieces of passive air isolators **AP** are placed on the top side of Table Support, and **4** pieces of **AS** are placed on the floor. There are different models of **AP** with different load capacities. Natural frequency 3–5 Hz.

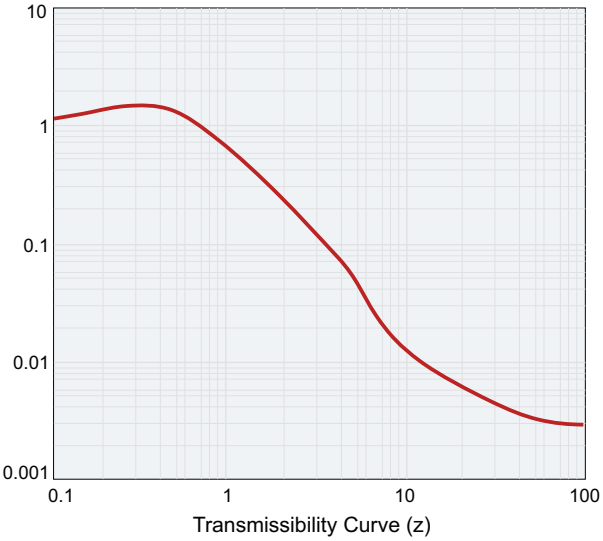


Model	M	B, mm
AP-200	M10	76.5
AP-500	M12	106.5
AP-1000	M12	130

770-5060 ACTIVE VIBRATION ISOLATION SYSTEM

Active isolation systems offer a solution, which combines stiffness with a very short settling time. The most useful active systems employ inertial velocity in a feedback loop. (Inertial velocity can be measured for example by integration the signal from an accelerometer). A signal proportional to inertial velocity is very similar to a viscous damping force, but with the very important difference that the damping is relative to an inertial plane. So in contrast to the passive system, by increasing the damping, the system becomes "glued" to the inertial plane which by definition means the system is isolated from the environment.

- **The isolation of the 770-5060 begins at 0.7 Hz, increasing rapidly to 40 dB beyond 10 Hz**
- **The lack of any low frequency resonance means much better performance than with common passive damping approaches**
- **The inherent stiffness of the 770-5060 imparts excellent directional + positional stability**
- **The outstanding isolation performance of the 770-5060 includes all six translational and rotational vibration modes**



Transmissibility Curve (z)

SPECIFICATIONS

Isolation	Dynamic 0.7 Hz to 1 kHZ, purely passive beyond 1 kHz
Transmissibility	See attached curve. Above 10 Hz transmissibility <0.01 (-40 dB)
Maximum load	140 kg
Dimensions	500×600×80 mm
Self - weight	23 kg
Electrical	
Safety class	1
Power consumption	Typically 10 W, maximum 50 W (70 VA)
Input voltage	115–230 VAC±10%, 50–60 Hz
Fuses	2×1.6 A / 250 V slow, located in the power socket on the rear side of the unit
Normal Environmental Conditions	
Protection class	IP 20
Temperature range	5–40°C
Relative Humidity	10–90% (5–30°C) 10–60% (30–40°C)
Application	Indoor
Altitude	Up to 2000 m (6500 ft)

ORDERING INFORMATION

770-5060	solid board without holes
770-5060 B	with breadboard 725-5060
770-5060 AL	with aluminium breadbord 715-5060

Complementary Products

Code	Page
725-5060	5.6
715-5060	5.9

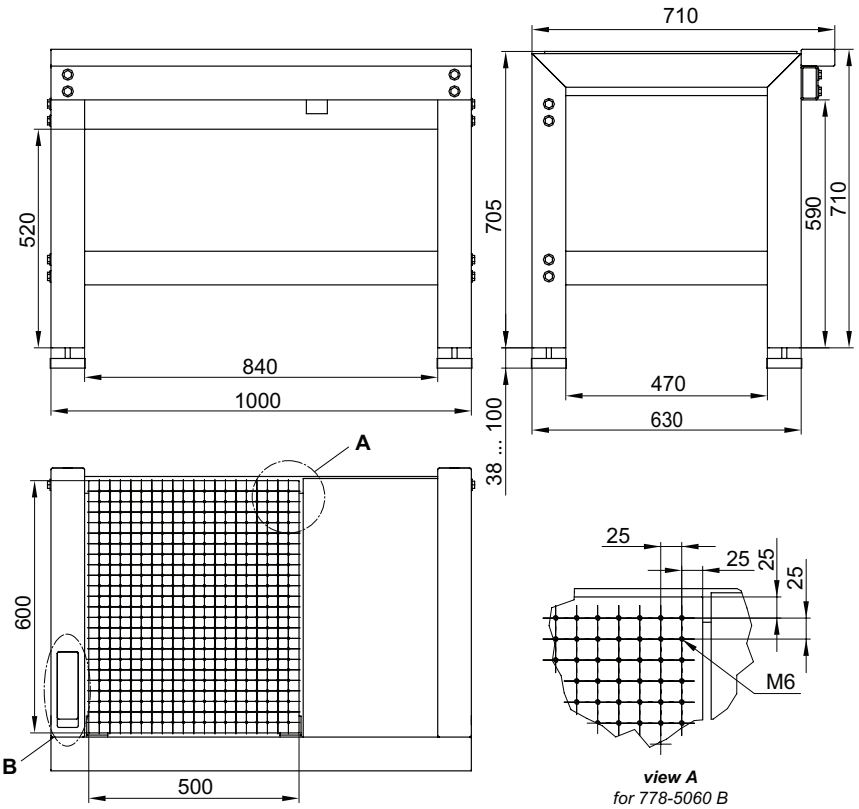
778-5060 ACTIVE VIBRATION ISOLATION WORKSTATION

Active vibration isolation workstation comprises of ergonomic rigid frame, guarding armrest and supplied with three modifications of active vibration isolation system: 770-5060 with solid surface, 770-5060 B with honeycomb breadbord 725-0506 and 770-5060 AL with aluminium breadbord 715-5060. The control panel is built into the frame and allows comfortable work. This system is extremely convenient to use. Load compensation is performed automatically on switching on the power. If the load is changed whilst the system is isolating, it automatically readjusts and then returns to the isolation mode. The workstation is design is optimized for such delicate instruments as AFM's, Laser Scanning Microscopes, SNOM's, profilometers, nanoindenters, etc.

Upon request we can make custom workstations with working surfaces 400 × 450 mm (maximum load 150 kg) and 600 × 800 mm (maximum load 120 kg). For larger surfaces please see active vibration isolation system 775-0000.

APPLICATIONS

- **Scanning probe microscopy**
- **Scanning electron microscopy**
- **Scanning near-field optical microscopy / NSOM**
- **Control laser microscopy**
- **Interferometry**
- **Metrology / Profilometry**
- **Nano indentation**
- **Nano lithography**
- **Ultrathin film applications**
- **Analytical balances**
- **Bio-physical measurement**
  - **Single molecule investigations**
  - **Cell micro infection**
  - **Cell manipulation**
  - **Patch clamp**
  - **IVF techniques**



view A
for 778-5060 B

ORDERING INFORMATION

778-5060	with active system 770-5060
778-5060 B	with active system 770-5060 B
778-5060 AL	with active system 770-5060 AL

view B
control panel

Ideal for use with interferometers, atomic force microscopes, scanning near field optical microscopes, and other equipment sensitive to low frequency vibrations.

775-0000 ACTIVE VIBRATION ISOLATION SYSTEM

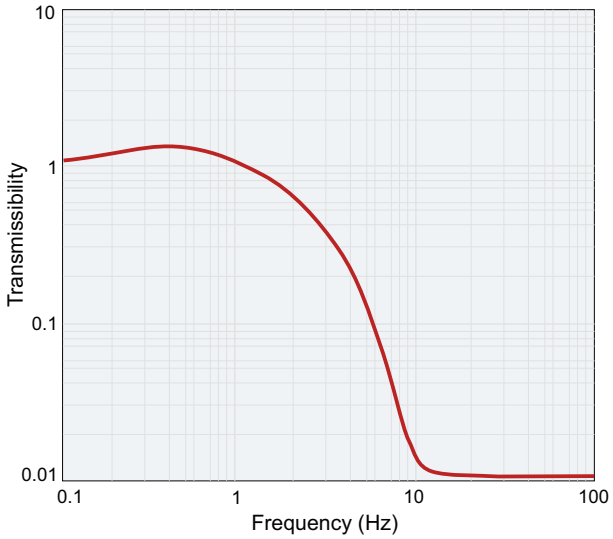
The design has been optimized to achieve best possible isolation and ultimate performance for delicate instruments such as:

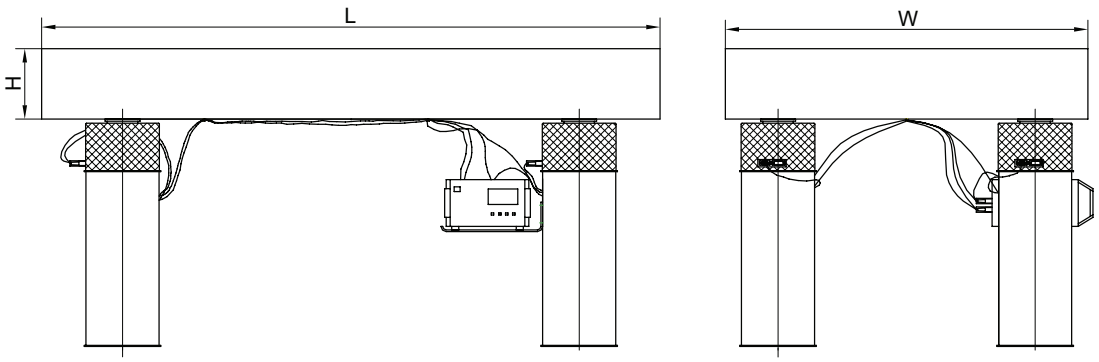
- **UHV-Scanning Probe Microscopes (AFM, STM)**
- **Scanning Electron Microscopes**
- **Interferometers**
- **Other high resolution instruments**

This moderately priced dynamic vibration isolation system achieves in a very small volume better isolation than is possible with the biggest and most expensive passive systems. Inertial feedback is used via electromagnetic transducers to provide not only isolation from building vibrations, but also isolation from vibration sources placed on the system itself. This means, for example, that a delicate microscope isolated by the system will remain at rest despite forces being applied via the operator's hands. The inherent stiffness of the system, typically 25 times greater than that of a 1 Hz resonance passive isolator, imparts excellent directional and positional stability. The characteristics of an active isolation system are typified by the virtual lack of any low frequency resonance, a resonance which plagues all passive isolation systems. The 775-0000 is a complete active isolation system measuring 210×210×125 mm per single unit. The system isolates against all six possible translational and rotational vibration modes and has been designed to offer excellent isolation even at frequencies as low as 2–3 Hz, where many buildings show large horizontal amplitudes due to oscillation about the vertical axis.

SPECIFICATIONS

Isolation	Dynamic 1 Hz to 1kHZ, purely passive beyond 1kHz
Transmissibility	See attached curve. Above 10 Hz transmissibility <0.01 (-40dB)
Correction forces	Maximum ±4 N in any direction
System noise	Less than 20 n/G√Hz from 0.1–200 Hz in any direction
Minimum load	~100 kg (four legs)
Maximum load	800 kg (four legs)
Static compliance	approx. 120 m/N vertical; approx. 30–400 m/N horizontal
Electrical	
Safety class	1
Power consumption	Typically 10 W, maximum 50 W (70 VA)
Input voltage	115–230 VAC±10%, 50–60 Hz
Fuses	2×1.6 A / 250 V slow, located in the power socket on the rear side of the unit
Normal Environmental Conditions	
Protection class	IP 20
Temperature range	5–40°C
Relative Humidity	10–90% (5–30°C) / 10–60% (30–40°C)
Application	Indoor
Altitude	Up to 2000 m (6500 ft)





Basic active vibration isolation system **775-0000** consists of four legs. Legs are not interconnected – one model fits all sizes. You may order **775-0000** not necessarily in sets of 4 legs. Tabletops must be purchased separately.

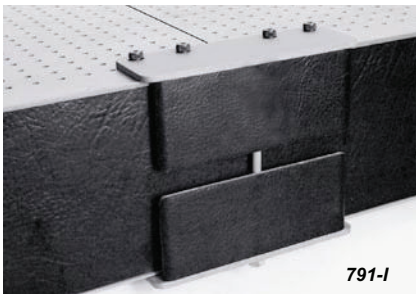
List of recommended tabletops

Model	Dimensions, WxLxH, mm	Net weight, kg	System 775-000 load capacity, per four isolators, kg
712-0914	900x1400x120	120	680
712-0915	900x1500x120	110	690
720-0915	900x1500x200	150	650
707-0918	900x1800x70	130	670
712-0918	900x1800x120	145	655
720-0918	900x1800x200	175	625
712-1020	1000x2000x120	185	615
720-1020	1000x2000x200	220	580
712-1215	1200x1500x120	170	630
720-1215	1200x1500x200	225	575
712-1218	1200x1800x120	200	600
720-1218	1200x1800x200	235	565
707-1515	1500x1500x70	215	585
712-1515	1500x1500x120	225	575
720-1515	1500x1500x200	275	525
712-1518	1500x1800x120	250	550
720-1518	1500x1800x200	335	465

In case you need higher load capacity or larger working surface area we can offer you 775-0000 in sets of:

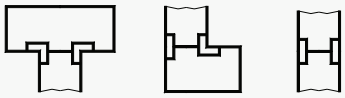
- 6 isolators (load capacity **1200 kg** including tabletop);
- 8 isolators (load capacity **1600 kg** including tabletop);
- 10 isolators (load capacity **2000 kg** including tabletop);
- 12 isolators (load capacity **2400 kg** including tabletop).

791 TABLE CONNECTORS



791-I

- **Link table tops together in various configurations**
- **Easy assemblage**
- **On request easily adapted to any Table Top**



791-T *791-L* *791-I*

Table Connectors enable to connect most table tops in any configuration: T, L, or I.

Here is a drawing of a standard system designed for table tops 200 mm thick. On request, we can provide table connectors for table tops of any thickness.

Table Connectors render quick and reliable way to link table tops together. The tables, being linked, usually have M6 tapped mounting holes on their tops and bottoms. The same holes are used for fastening to the Table Connectors.

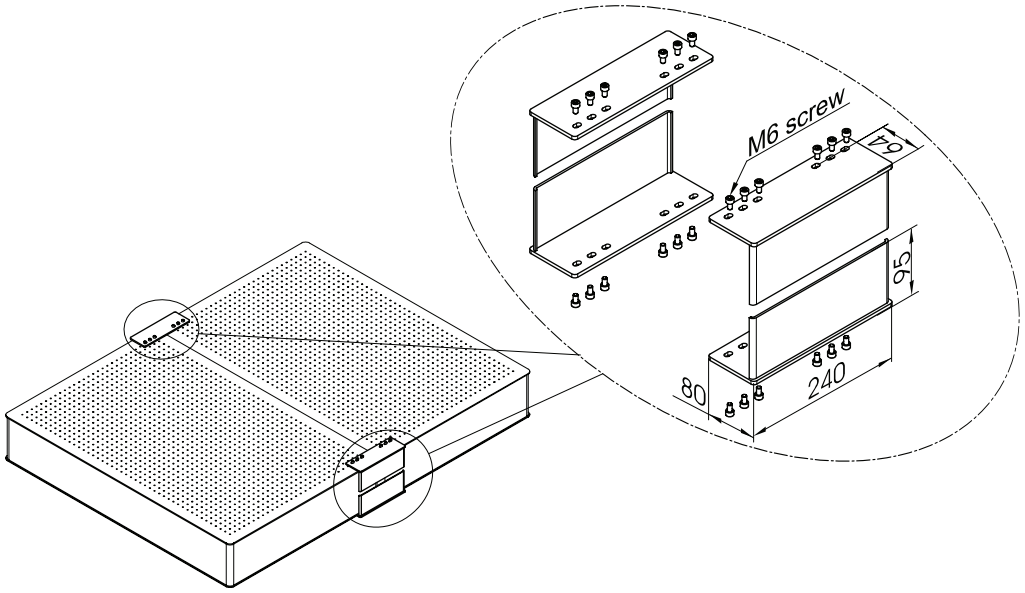
At minimal deflection (see page 54) the rigidity of the linkage is no more than 15 µm/m under 100 kg load.

The universal table connectors are made of chemically passivated steel plates decorated with leather substitute.

Codes for ordering standard Table Connecting system

Model	Weight, kg
791-T	5
791-L	3.75
791-I	2.5

Custom systems are available on request.



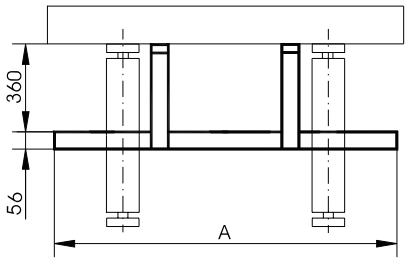
792 LASER SHELVES

Laser Shelves are optional breadboards. They save space when installing a laser and other equipment beneath optical table tops. A shelf stays mechanically coupled to the table top. The shelves have a pattern of M6 holes.

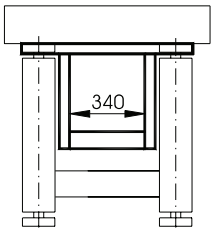
Model **792-02** has M6 screws to attach directly to the bottom of a table top. So it can be used with any table top, with any support, or vibration isolation. Location of attachment (holes) can be standard, or specified by a customer.

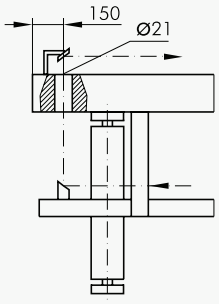
Model	A	Weight, kg
792-0209	900	26
792-0219	1900	47

Shelves of custom sizes are available.



792-02 can be attached to any table top.

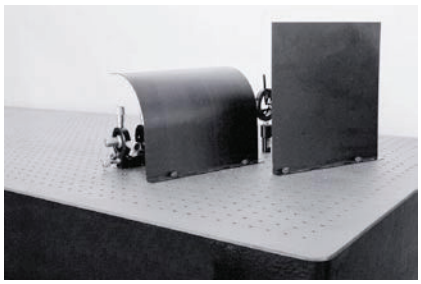




Laser Ports in a **Table Top** are used to let a laser beam or cables through. Standard location of a port is chosen for use with the Laser Shelves 792.

When ordering, append letter "H" to the code of a Honeycomb Table Top e.g. **720-1020-H**.

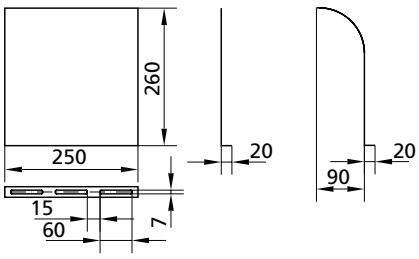
793 PROTECTIVE SCREENS



Protective Screens are designed to protect an optical setup from flashes, glitters and other undesired optical disturbances. The Protective Screens 793-0001 and 793-0002 have three mounting slots and can be mounted anywhere on the table.

The screens are produced from steel tinplate of black finish.

Code	Weight, kg
793-0001	0.5
793-0002	0.5



793-0001 *793-0002*

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794 INSTRUMENT SHELVES

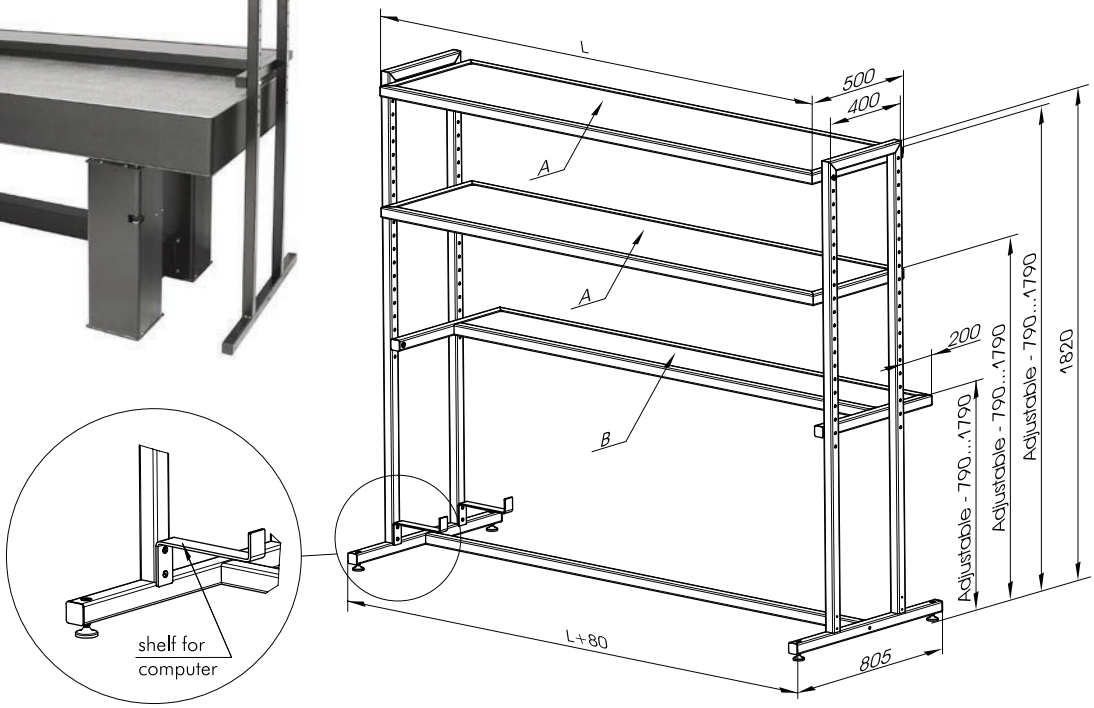
- **Free-standing**
- **Can be positioned anywhere over the table**
- **Does not affect vibration isolation**
- **Adjustable shelf height**
- **Sturdy metal frame supports heavy loads**

Instrument Shelves 794 provide convenient off-the-table mounting and storage for power supplies, controllers, oscilloscopes and other instruments. They are not connected with the table and does not affect vibration isolation. The height of shelves can be adjusted easily. The space saving shelf also allows wires and cables to be neatly routed away from critical setups.

Model	L, mm
794-2000	2050
794-3000	3050
794-xxxx	any size

Examples of codes for 794-2000:

794-2000-A	one A shelf
794-2000-B	one B shelf
794-2000-AA	two A shelves
794-2000-AB	one A shelf and one B shelf
794-2000-AAB	two A shelves and one B shelf



795-0010 SILENT RODS

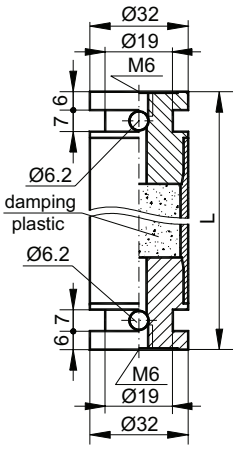
- **Antivibration filling**
- **Ø32 mm stainless steel rod**
- **M6 tapped holes on both ends**
- **Designed for use with breadboards up to 0.5 m² square surface**

Great stiffness, sturdiness and strength of steel allow the Silent Rods 795-0010 to support large loads with great stability.

Each rod has M6 tapped holes and a groove around both ends. So, for mounting to tables, you may use thread adapters 795-0016-6 and clamp 820-0125.

A Silent Rod consists of a stainless steel tube filled with vibration damping plastic. Even without external damping elements applied, the rods have high resonant frequency and low vibration amplitudes.

Steel ensures strength and thermal stability.



Model	L, mm	Weight, kg
795-0010-10	100	0.26
795-0010-20	200	0.54
795-0010-30	300	0.77

Complementary Products

Code	Page
820-0125	5.42

820-0125 clamp the rod exactly at the middle

795-0016 THREAD ADAPTERS

Thread Adapters 795-0016 connect components when precise orientation in plane is not required. Some adapters have different threads on ends. So, you can connect components with M4 and M6 threaded holes. Material: stainless steel.

Metric/imperial thread adapters are available on request.

Model	A	B	C	D
795-0016-4	M6	M4	3	2
795-0016-6	M6	–	–	3

C and D denote hex key sizes.