

# Pneumatic Vibration Isolation System

1VIS10



1VIS10

- Vertical resonance frequency: 1.5 Hz (average load)
- Horizontal resonance frequency: 1.7 Hz (average load)
- Air source pressure: up to 600 KPa (6 bar) (87 PSI)

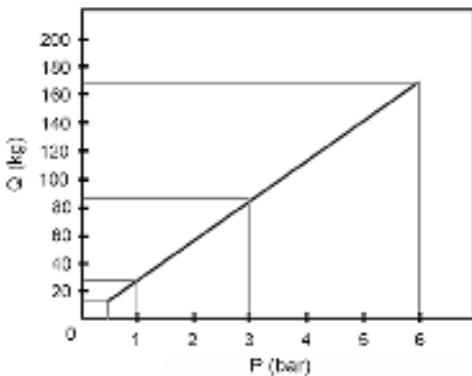
**Pneumatic Vibration Isolation System 1VIS10** is an ideal foundation for equipment which is sensitive to vibration, e.g. microscopes, scales, interferometers, and similar devices.

Work surface of the table is separated from the floor by means of a highly effective system of pneumatic supports.

The system features solid and light supports that come in various dimensions to support a wide range of table top sizes. This enables quick creation of vibration isolation systems for a variety of tasks.

Maximum load capacity of each support leg is 120 kg.

Working pressure of the system is 0.5–6 atm (bar). Required minimum system pressure required to support a certain load in kg is shown in the load/pressure diagram.

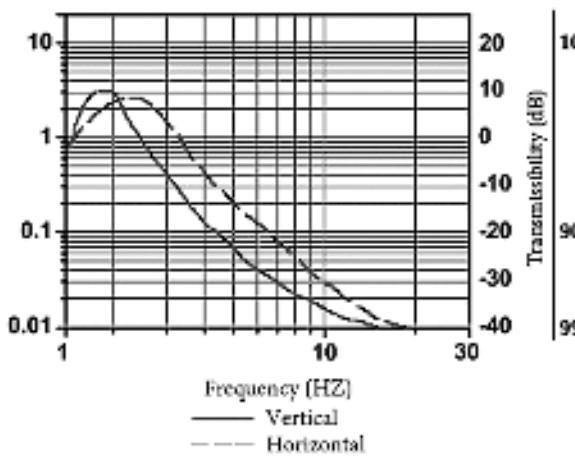


P - required minimal pressure in atm (bar).  
Q - load per support leg (kg).

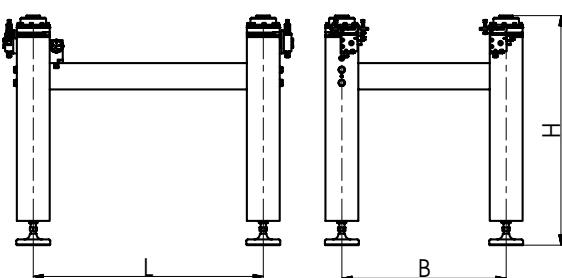
Load/Pressure diagram

## SPECIFICATIONS

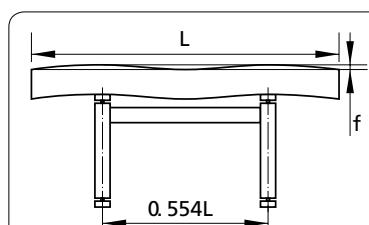
Height of the vibration isolation system	600, 700 mm
Vertical movement range	14 mm
Precision of automatic level control	±0.3 mm
Vertical resonance frequency	1.5 Hz (average load)
Vertical isolation at 5 Hz	85–93%
Vertical isolation at 10 Hz	90–98%
Horizontal resonance frequency	1.7 Hz (average load)
Horizontal isolation at 5 Hz	85–93%
Horizontal isolation at 10 Hz	90–97%
Pressure from source of air	600 KPa (6 bar) (87 PSI)
Air supply socket diameter	Ø 6 mm
Operating humidity (max)	90%
Operating temperature range	10–50 °C
Load-bearing capacity (at 6 bar)	168 kg per isolator



Vibration / Isolation performance



Model	B, mm	L, mm	H, mm
1VIS10-05-07-60	500	700	600
1VIS10-05-07-70	500	700	700
1VIS10-05-12-60	500	1200	600
1VIS10-05-12-70	500	1200	700
1VIS10-065-12-60	650	1200	600
1VIS10-065-12-70	650	1200	700
1VIS10-08-12-60	800	1200	600
1VIS10-08-12-70	800	1200	700
1VIS10-065-18-60	650	1800	600
1VIS10-065-18-70	650	1800	700



Deflection "f" is minimal when the distance between supports = 0.554L. Rounding to greater standard value is recommended.



Optical Tables	1	Brackets & Rails
	2	Base Mounts & Accessories
	3	Optical Mounts
	4	Optical Positioners
	5	Base Positioners
	6	Translation & Rotation Stages
	7	Motorised Positioners & Controllers
	8	Fine Adjustment Screws
	9	Opto-Mechanics & Sets
	10	Light Test & Measurement Instruments
	11	Lasers & Laser Accessories
	12	

# Pneumatic Vibration Isolation Workstation

**1VIS10W**


1VIS10W-09-17-77-CA

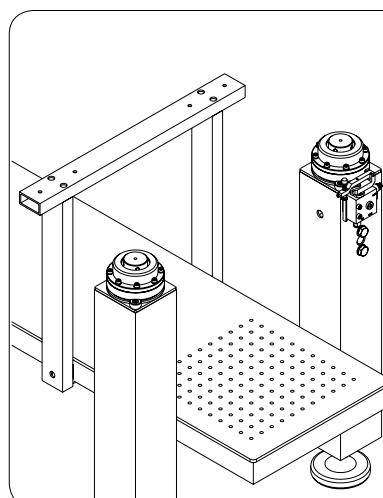
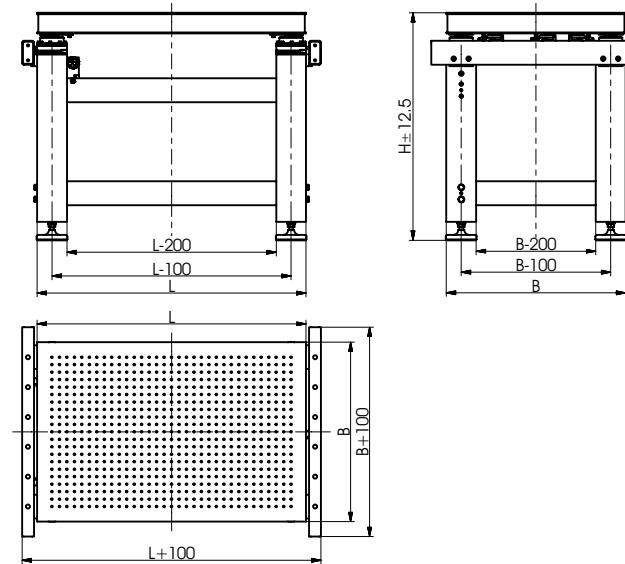
**On request we produce workstations with Honeycomb Table Tops of any dimensions.**

Model	B, mm	L, mm	H, mm	Optical Mounts	Positioners	Base Positioners	Translation & Rotation Stages
1VIS10W-06-09-77	600	900	770				
1VIS10W-075-09-77	750	900	770				
1VIS10W-075-12-77	750	1200	770				
1VIS10W-09-14-77	900	1400	770				

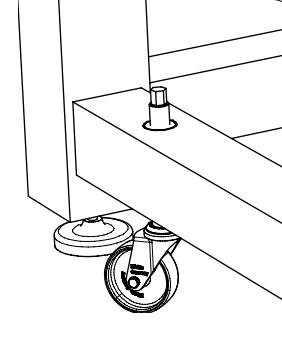
**Pneumatic Vibration Isolation Workstation 1VIS10W** consists of **1VIS10**, a **Honeycomb Breadboard**, and a protection **Armrest**.

As you lean on the **Armrest**, it guards the honeycomb table from impacts of your body. This allows you to work at the table like at a conventional table, using microscope and other equipment.

The suggested **elevation** of table's surface is **770 mm**. We produce four standard models of **1VIS10W**.



**1VIS10** system can be optionally equipped with **Castors**, which are made of high-quality nylon, high abrasion resistant, smooth running performance on even floors, shock and impact-resistant, corrosion-resistant.



**Laser shelves** are optional breadboards. They save space when installing lasers and other equipment beneath honeycomb table tops. The shelf stays mechanically coupled to the table top.

**Laser shelves** sizes  
are on page **1-20**.

**Low noise air compressors** have been developed for those users where low noise and relatively small flow of air is required. With **sound levels from just 40 dB(A)** and almost no vibration when running, the compressors can be located in the work area without causing any noise intrusion. The compressors have a **8 bar** maximum working pressure. Designed to require minimal maintenance and to ensure years of trouble free use, our comprehensive range meets the needs of many applications including; air-brushing, exhibition stands, glue dispensing, pneumatic controls, stapling – anywhere where compressed air is needed silently!

Air compressor is required for operation



1VIS-BB15V

**standa**

e-mail: [sales@standa.it](mailto:sales@standa.it)  
[www.standa.it](http://www.standa.it)

Phone: +370-5-2651474  
Fax: +370-5-2651483


# Pneumatic Vibration Isolation System

1VIS22



- Vertical resonance frequency: 1.5 Hz (average load)
- Horizontal resonance frequency: 1.7 Hz (average load)
- Air source pressure: up to 600 KPa (6 bar) (87 PSI)

**Pneumatic Vibration Isolation System 1VIS22** is an ideal foundation for equipment which is sensitive to vibration, e.g. microscopes, scales, interferometers, and similar devices.

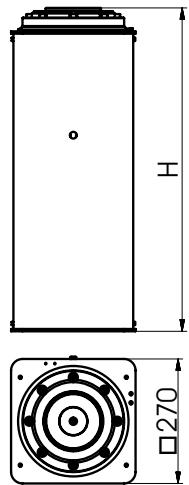
Work surface of the table is separated from the floor by means of a highly effective system of pneumatic supports, i.e. pneumatic springs with hydraulic (oil) dampers.

The system features solid and light supports that come in various dimensions to support a wide range of table top sizes. This enables quick creation of vibration isolation systems for a variety of tasks.

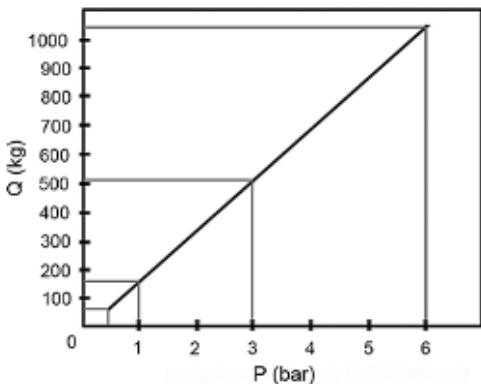
Maximum load capacity of each support leg is **1000 kg**.

## SPECIFICATIONS

Height of the vibration isolation system	H = 400, 500, 600, 700 mm
Vertical movement range	14mm
Precision of automatic level control	±0.3 mm
Vertical resonance frequency	1.5 Hz (average load)
Vertical isolation at 5 Hz	85–93%
Vertical isolation at 10 Hz	90–98%
Horizontal resonance frequency	1.7 Hz (average load)
Horizontal isolation at 5 Hz	85–93%
Horizontal isolation at 10 Hz	90–97%
Pressure from source of air	600 KPa (6 bar) (87 PSI)
Air supply socket opening	Ø 6 mm
Operating humidity (max)	90%
Operating temperature range	10–50 °C
Load-bearing capacity (at 6 bar)	1,000 kg per isolator

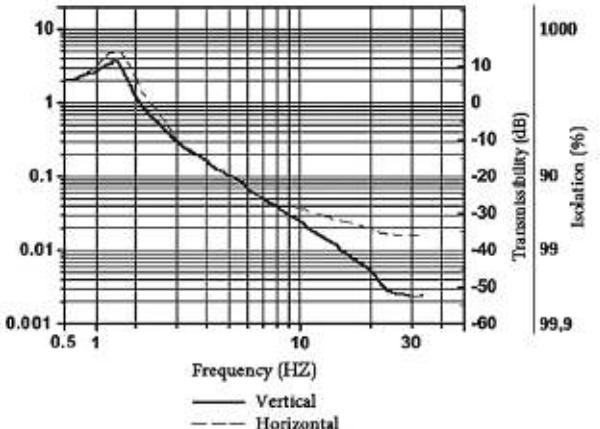


Working pressure of the system is 0.5–6 atm (bar). Required minimum system pressure required to support a certain load in kg is shown in the load/pressure diagram.



P - required minimal pressure in atm (bar).  
Q - load on one support leg (kg).

Load/Pressure diagram



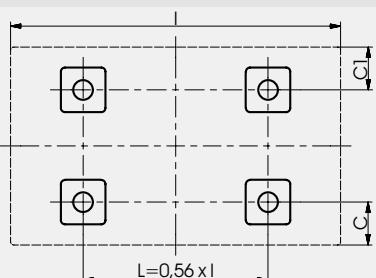
Vibration / Isolation performance

## ORDERING EXAMPLE

**1VIS22-70-4**

70 – height of **isolator 700 mm**.  
4 – number of **isolators - 4 pc.**

Standard heights of **1VIS22-XX-X**  
**400 mm** (code 40),  
**500 mm** (code 50),  
**600 mm** (code 60),  
**700 mm** (code 70),



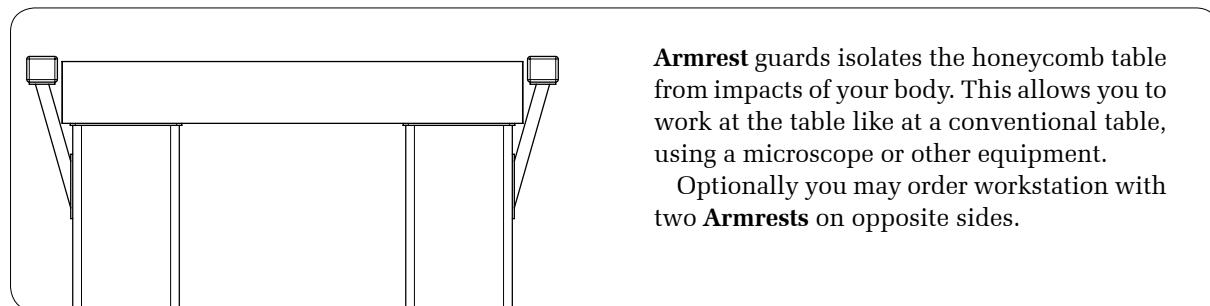
We offer optimal Vibration Isolation Systems for the optical table of your choice.

Figure shows the correct layout of pneumatic supports for tables with standard dimensions.

$$C = C_1 = 160 \dots 200 \text{ mm}$$

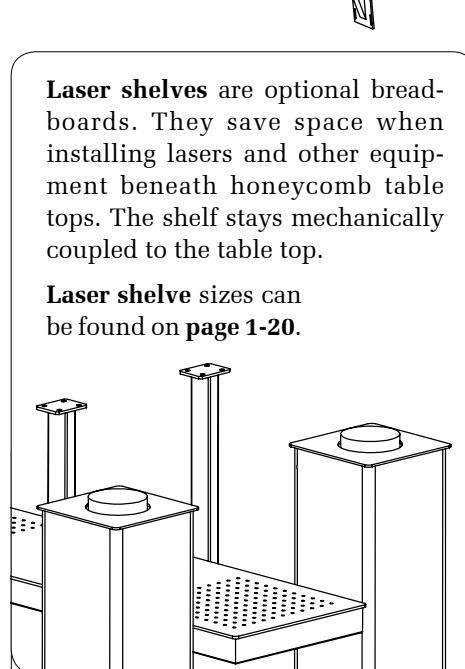
## Modifications and Ordering

1VIS22



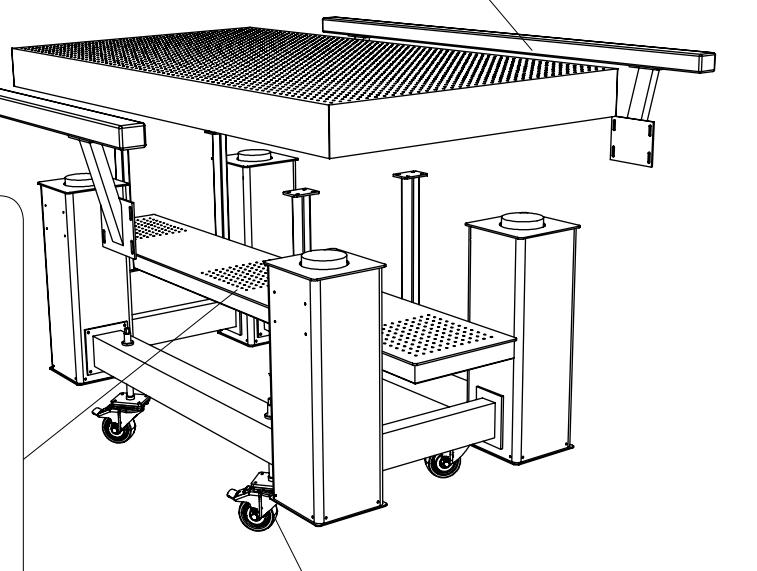
**Armrest** guards isolates the honeycomb table from impacts of your body. This allows you to work at the table like at a conventional table, using a microscope or other equipment.

Optionally you may order workstation with two **Armrests** on opposite sides.

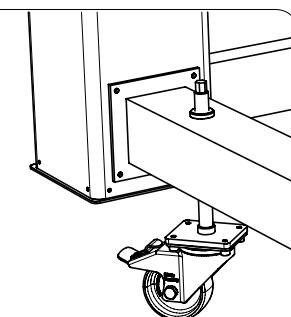


**Laser shelves** are optional breadboards. They save space when installing lasers and other equipment beneath honeycomb table tops. The shelf stays mechanically coupled to the table top.

**Laser shelf** sizes can be found on **page 1-20**.



**Castors** - made of high-quality nylon, high abrasion resistant, smooth running performance on even floors, shock and impact-resistant, corrosion-resistant.

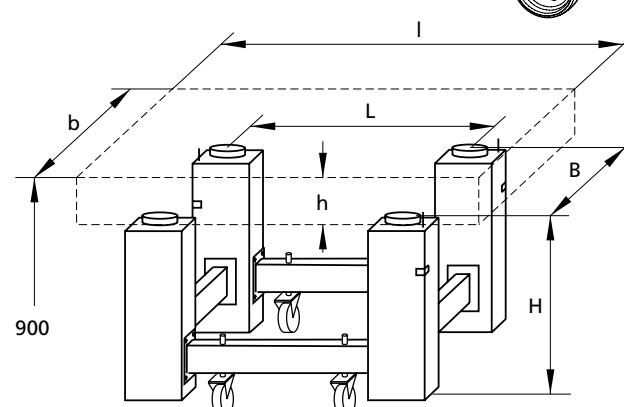


Below are the formulas for calculating optimal dimensions of 1VIS22 with casters.

$$B=0.56 \times b; L=0.56 \times l; H=900 - h$$

**Standard dimensions of 1VIS22 are presented below.** Select the **closest greater** values matching your calculations.

**1VIS22-B-L-H-CA:**  
 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: **400 mm** (code 40), **500 mm** (code 50),  
**600 mm** (code 60), **700 mm** (code 70).  
 CA: casters



**Low noise air compressors** have been developed for those users where low noise and relatively small flow of air is required. With **sound levels** from **just 40 dB(A)** and almost no vibration when running, the compressors can be located in the work area without causing any noise intrusion. The compressors have a **8 bar** maximum working pressure. Designed to require minimal maintenance and to ensure years of trouble free use, our comprehensive range meets the needs of many applications including; air-brushing, exhibition stands, glue dispensing, pneumatic controls, stapling – anywhere where compressed air is needed silently!



Air compressor  
is required for  
operation

1VIS-BB15V

Car Pumps and Air Compressors  
are available upon request.  
Product details are available on  
our web page [www.standa.lt](http://www.standa.lt).



# Optical Table Supports

1TS



1TS05-08-065-AP-500

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

Optionally you may order 2 to 3 extra cross-beams and/or casters



Optical Table Support 1TS with Honeycomb Table Tops 1HT

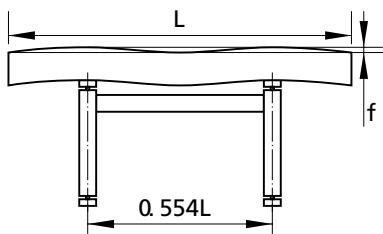
**Table supports** may be supplied with various leveling and vibration-isolation systems. This allows to meet various needs of our customers.

**Optical Table Supports 1TS** are primarily designed for the Honeycomb Table Tops 1HT. Table Supports are produced from steel tubes of **100 mm** square section, in decorative black coating. 1TS is composed of two "Pi" type supports, bound by a cross-beam.

**Optical Table Supports 1TS** ideally 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.

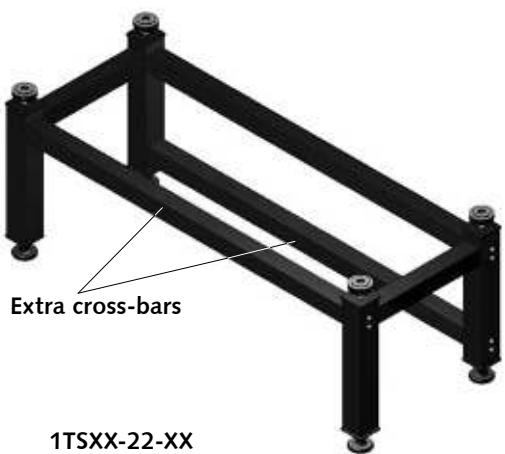
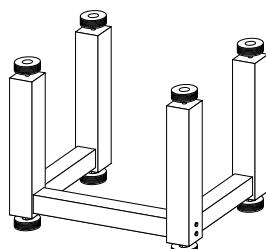
On request we produce table supports of any size, design, and of greater sturdiness.

## Standard models of 1TS table supports available for short delivery



Deflection "f" is minimal when the distance between supports = **0.554L**. Rounding to greater standard value is recommended.

If required, e.g. when used with a laser shelf 1LS52, the table support may be assembled upside-down. This doesn't degrade its performance.



1TSXX-22-XX

## REINFORCED FRAME FOR LARGE AND HEAVY TABLETOPS!

For heavy tabletops longer than 3500 mm we provide reinforced table support structure by default. Extra cross-bars are added to three sides of the table support frame for increased stability and reliability. Standard length - 2200 mm between support leg centers.



Optical Tables	1	Brackets & Rails	2	Base Mounts & Accessories	3	Optical Mounts	4	Optical Positioners	5	Base Positioners	6	Translation & Rotation Stages	7	Motorised Positioners & Controllers	8	Fine Adjustment Screws	9	Opto-Mechanics & Sets	10	Light Test & Measurement Instruments	11	Lasers & Laser Accessories	12
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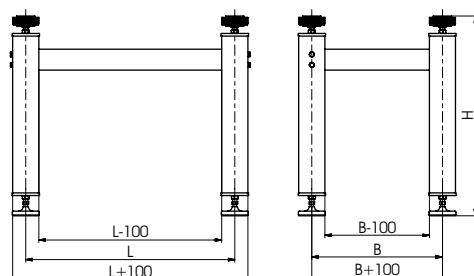


## Rubber Leveling Element 1TS-AR

Model	B, mm	L, mm	H, mm
1TS05-07-05-AR	500	700	665±25
1TS05-07-06-AR	500	700	765±25
1TS05-12-05-AR	500	1200	665±25
1TS05-12-06-AR	500	1200	765±25
1TS065-12-05-AR	650	1200	665±25
1TS065-12-06-AR	650	1200	765±25
1TS065-18-05-AR	650	1800	665±25
1TS065-18-06-AR	650	1800	765±25
1TS065-22-05-AR	650	2200	665±25
1TS065-22-06-AR	650	2200	765±25
1TS08-12-05-AR	800	1200	665±25
1TS08-12-06-AR	800	1200	765±25

## Solid Leveling Element 1TS-AS

Model	B, mm	L, mm	H, mm
1TS05-07-05-AS	500	700	675±25
1TS05-07-06-AS	500	700	775±25
1TS05-12-05-AS	500	1200	675±25
1TS05-12-06-AS	500	1200	775±25
1TS065-12-05-AS	650	1200	675±25
1TS065-12-06-AS	650	1200	775±25
1TS065-18-05-AS	650	1800	675±25
1TS065-18-06-AS	650	1800	775±25
1TS065-22-05-AS	650	2200	675±25
1TS065-22-06-AS	650	2200	775±25
1TS08-12-05-AS	800	1200	675±25
1TS08-12-06-AS	800	1200	775±25



1TSXX-XX-XX-AR  
1TSXX-XX-XX-AS

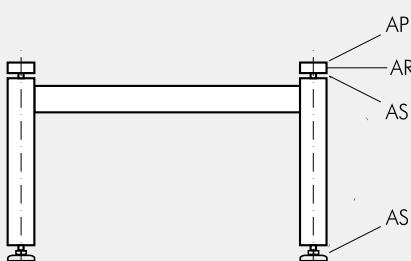
1TSXX-XX-XX-AP

Type of **upper** leveling elements of 1TS can be chosen from **1TS-AS**, **1TS-AR** or **1TS-AP** (see descriptions below). **Bottom** elements on 1TS are of type **1TS-AS**.

**Default choice for upper** elements of 1TS is **1TS-AR** rubber leveling elements. Example:

**1TS05-07-05-AR** – table support sized **500×700×645 mm** (Width×Length×Height) with **4** pieces of **1TS-AR** leveling elements on top and **4** pieces of **1TS-AS** leveling element at the bottom.

## ORDERING INFORMATION



For other types of leveling elements please append element abbreviation to product code. Examples:  
**1TS05-12-06-AS** – size **500×700×755 mm** (W×L×H), type of leveling elements – **1TS-AS** (**8** pieces, **4** on **top** and **4** at the **bottom**).

**1TS065-12-06-AP-200** – size **650×1200×765 mm** (W×L×H), with **4** pieces of leveling elements type **1TS-AP-200** on top and **4** pieces of leveling elements type **1TS-AS** at the bottom.

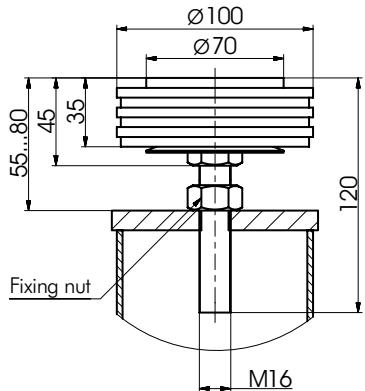


## Rubber Leveling Element

**1TS-AR**

**Rubber leveling element (1TS-AR)** ensures sufficient vibration isolation.

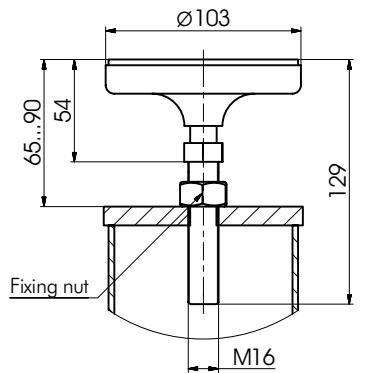
**Max. load** per 4 isolators – **1500 kg**  
**Natural frequency** – **15-20 Hz**



## Solid Leveling Element

**1TS-AS**

**Solid leveling element (1TS-AS)** is used, when no damping is needed.  
**Max. load** per 4 isolators – **3000 kg**

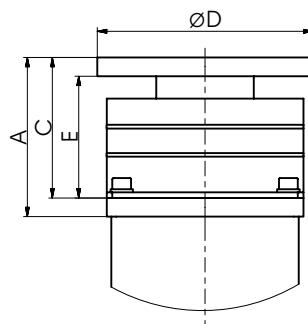


## Passive Air Leveling Vibration Isolator

**1TS-AP**

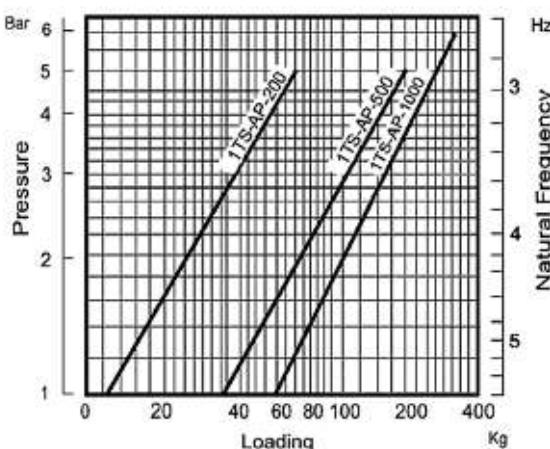
The **1TS-AP** isolator body is made of high elasticity, oil resistant and non-aging CR grade elastomer. Pressure and bottom plates made of galvanized steel.

Inflation is either through the 'moulded in' standard tyre valve or by connection to a permanent air supply.



**Passive air leveling vibration isolator (1TS-AP)** is a low height, low stiffness air spring isolator mount suitable for both passive and dynamic applications where a support natural frequency as low as 3-5Hz is required.

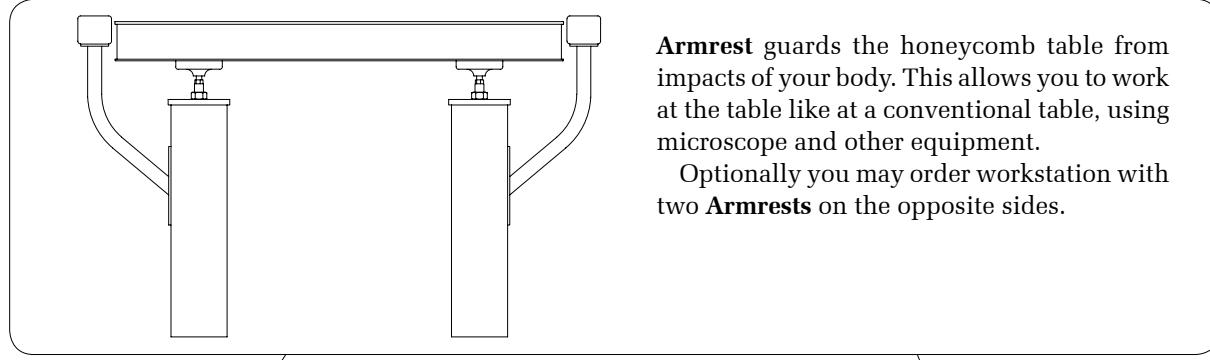
Typical passive applications include the protection of vibration sensitive equipment such as co-ordinate measuring machines, metrology inspection devices, isolation tables and electron microscopes.

**Load/Pressure diagram**

Model	Max. load, kg (for 4 isolators)	maxPressure, bar	D, mm	E, mm	C, mm	A, mm
1TS-AP-200	195	5	85	65	75	85
1TS-AP-500	540	5	115	65	75	85
1TS-AP-1000	840	6	140	90	100	120

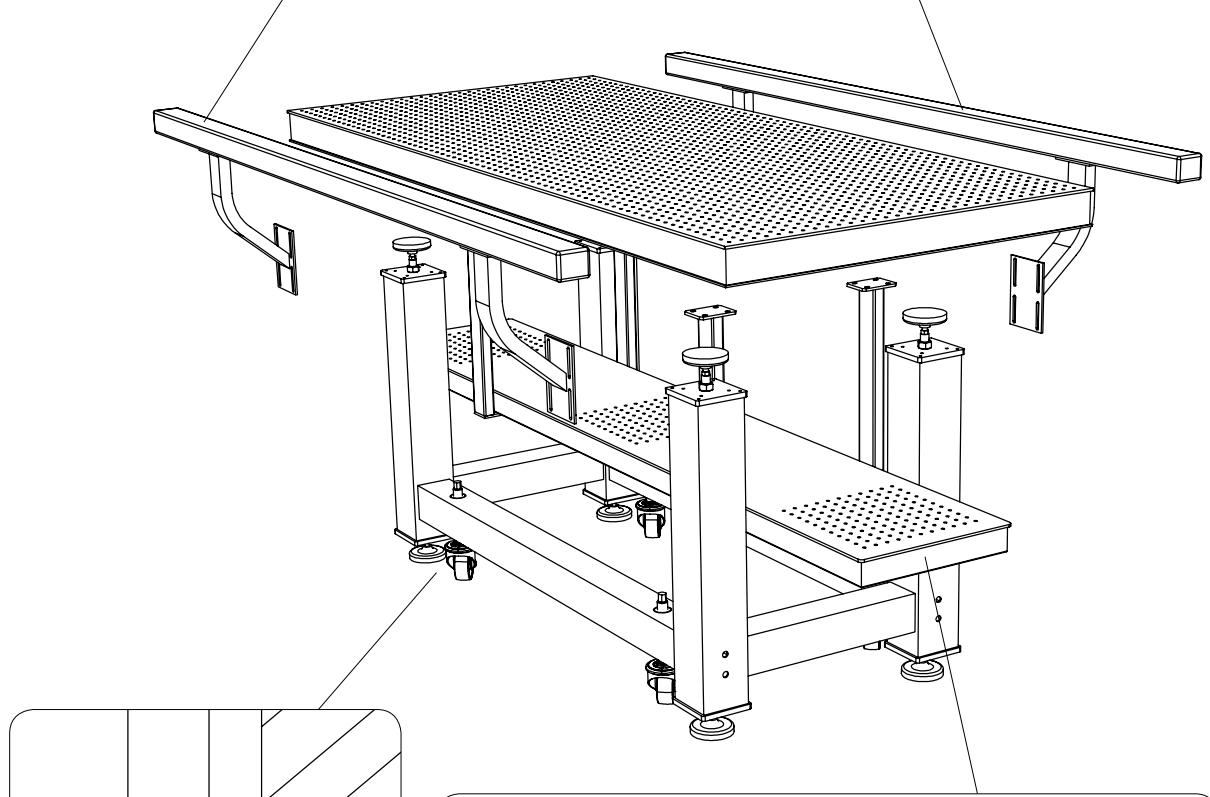
Optical Tables	1	Brackets & Rails	2	Base Mounts & Accessories	3	Optical Mounts	4	Optical Positioners	5	Base Positioners	6	Translation & Rotation Stages	7	Motorised Positioners & Controllers	8	Fine Adjustment Screws	9	Opto-Mechanics & Sets	10	Light Test & Measurement Instruments	11	Lasers & Laser Accessories	12
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Lasers & Laser Accessories	Light Test & Measurement Instruments	Opto-Mechanics & Sets	Fine Adjustment Screws	Motors & Controllers	Translation & Rotation Stages	Base Positioners	Optical Positioners	Optical Mounts	Base Mounts & Accessories	Brackets & Rails	Optical Tables	1
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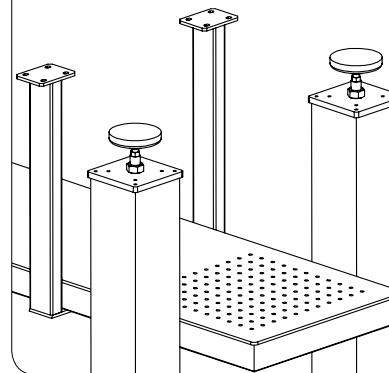


**Armrest** guards the honeycomb table from impacts of your body. This allows you to work at the table like at a conventional table, using microscope and other equipment.

Optionally you may order workstation with two **Armrests** on the opposite sides.



**Laser shelves** are optional breadboards. They save space when installing a laser and other equipment beneath the honeycomb table tops. A shelf stays mechanically coupled to the table top.



**Laser shelves sizes**  
are on page 1-20.

## ORDERING EXAMPLE

1TS065-12-06-AR-CA

Table support sized **650×1200×745 mm** (Width×Length×Height)

**4 pieces of 1TS-AR leveling elements on top**

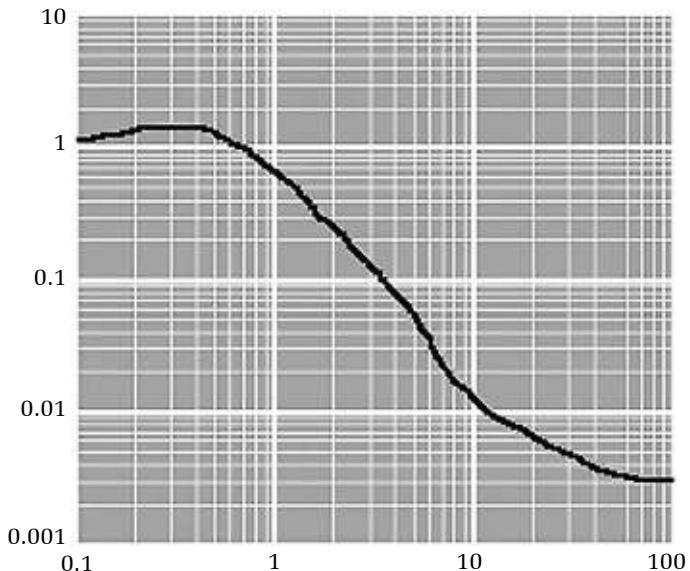
**4 pieces of 1TS-AR leveling elements on top,**  
**4 pieces of 1TS-AS leveling element at the bottom**

4 pieces of T1  
CA = casters

# Active Vibration Isolation System



Transmissibility Curve (z)



## SPECIFICATIONS

Isolation	dynamic 0.7 Hz to 200 Hz, mainly passive at higher frequencies, although for good stability the feedback is active to at least 2 KHz
Transmissibility	See attached curve. Above 10 Hz transmissibility <0.01 (-40dB)
Maximum load	140 kg
Dimensions	500x600x80 mm
Self - weight	23 kg
<b>Electrical</b>	
Safety class	1
Power consumption	maximum 10 W when isolating, maximum 20W during load adjustment
Input voltage	90 – 120V AC, 47 – 63 Hz 200 – 240V AC, 47 – 63 Hz
Fuses	2x1.6A/250V slow, located in the power socket on the rear side of the unit

## Normal Environmental Conditions

Protection class	IP 20
Temperature range	5°C - 40°C
Relative Humidity	10 - 90% (5 - 30°C) 10 - 60% (30 - 40°C)
Application	Indoor
Altitude	up to 2000 m (6.500 ft)

## ORDERING INFORMATION

<b>1TS-140</b>	- solid board without holes
<b>1TS-140B</b>	- with breadboard <b>1HB05-06-025-001</b>
<b>1TS-140B-AL</b>	- with aluminium breadboard <b>1B-AL-50-60-015</b>

<b>1TS-140</b>
<b>1TS-140B</b>
<b>1TS-140B-AL</b>

- The isolation of the 1TS-140 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 1TS-140 imparts excellent directional + positional stability
- The outstanding isolation performance of the 1TS-140 includes all six translational and rotational vibration modes

**1TS-140** is **compact dynamic anti-vibration system**, which offers isolation against all six translational and rotational vibration modes.

These moderately priced dynamic vibration isolation systems achieve in a very small volume better isolation than is possible with the biggest and most expensive passive systems. Inertial feedback using piezoelectric force motors provides 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 systems, some 200 – 500 times greater than that of a 1 Hz resonance passive isolator, imparts excellent directional and positional stability.



Optical Tables
1
Brackets & Rails
2
Base Mounts & Accessories
3
Optical Mounts
4
Optical Positioners
5
Base Positioners
6
Translation & Rotation Stages
7
Motorised Positioners & Controllers
8
Fine Adjustment Screws
9
Opto-Mechanics & Sets
10
Light Test & Measurement Instruments
11
Lasers & Laser Accessories
12



## Active Vibration Isolation Workstation

1TS-140W

1TS-140WB

1TS-140WB-AL



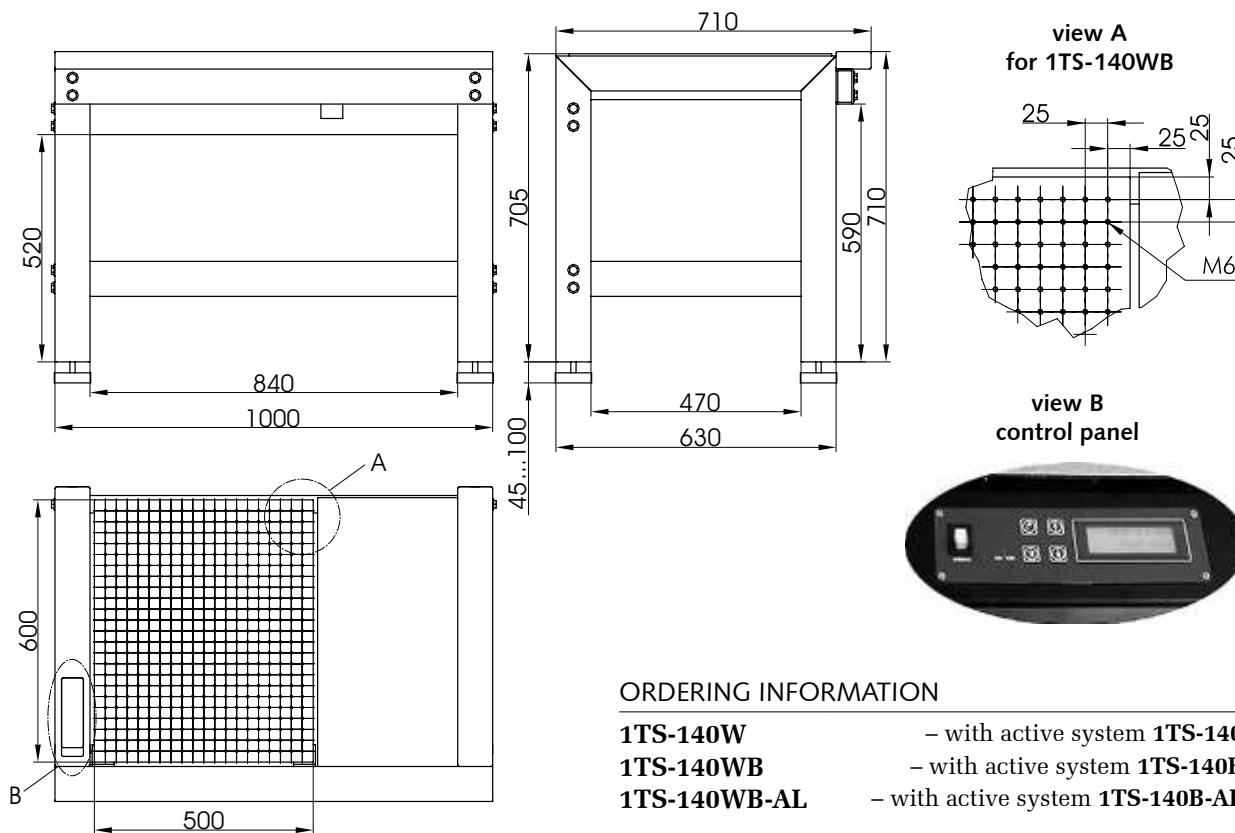
Active vibration isolation workstation comprises of ergonomic rigid frame, guarding armrest and supplied with three modifications of active vibration isolation system: 1TS-140 with solid surface, 1TS-140B with honeycomb breadboard 1HB05-06-025-001 and 1TS-140B-AL with aluminium breadboard 1B-AL-50-60-015. 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

## 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

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 x 450 mm (maximum load 150 kg) and 600 x 800 mm (maximum load 120 kg). For larger surfaces please see active vibration isolation system 1TS-200.



## ORDERING INFORMATION

1TS-140W

- with active system 1TS-140

1TS-140WB

- with active system 1TS-140B

1TS-140WB-AL

- with active system 1TS-140B-AL

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

## Active Vibration Isolation System

1TS-AVI200LP



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 force 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 500 times greater than that of a 1 Hz resonance passive isolator, imparts excellent directional and positional stability. The lack of any low frequency resonance, a resonance which plagues all passive systems, allows the systems to be stacked for super-isolation in severe environments.

The system is ideal for supporting delicate Fabry-Perot interferometers and tunnel-microscopes, allowing the ultimate performance to be achieved from these and other high resolution instruments. The tables have also proved to be extremely successful for supporting sensitive experiments, such as the troughs for liquids used in measurements on Langmuir-Blodgett films.

**1TS-AVI200LP** is an adaptable system consisting of two modules. Each module by itself isolates against vertical and horizontal translations and against rotations about one horizontal axis. The combination of two modules isolates against all six possible translational and rotational vibrations. The modules cannot be used separately.

Isolation of the standard **1TS-AVI200LP** system begins at about 1 Hz, increasing rapidly to at least 35 dB beyond 10 Hz. This system offers excellent isolation in the typical laboratory environment.

**1TS-AVI200LP**, a compact modular dynamic antivibration system offering isolation against all six translational and rotational vibrations.

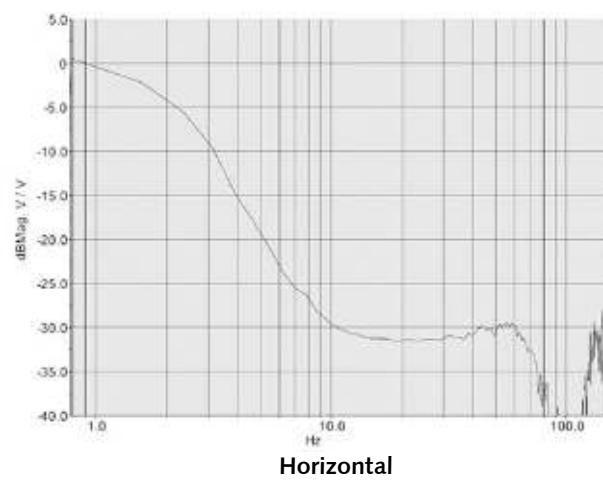
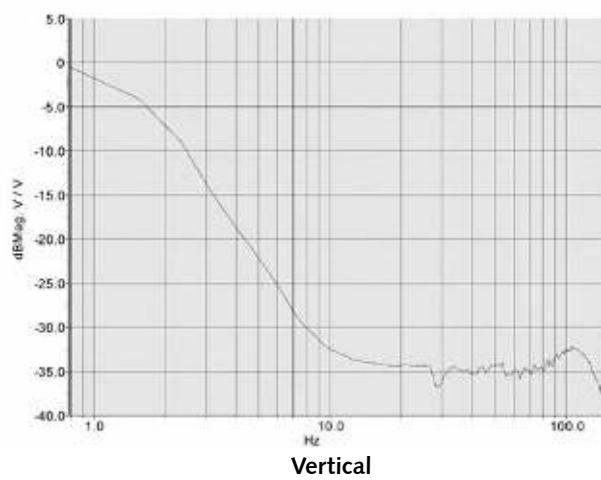
**SPECIFICATIONS****1TS-AVI200LPS-LP****1TS-AVI200LPM-LP**

Isolation	dynamic 1.2 Hz to 200 Hz passive beyond 200 Hz
Transmissibility	See transmission curve. Above 10 Hz transmissibility <0.017 (-35 dB)
Correction forces	max. horizontal 4 N vertical 8 N
Static Compliance	approx. 3,5 $\mu\text{m}/\text{N}$ vertical and 7 $\mu\text{m}/\text{N}$ horizontal
Maximum Load	400 kg (single unit: 200 kg)
Size (single unit)	350×90×115 mm
Weight	600×90×115 mm 10 kg – (single unit)

**Control Unit**

Safety class	1
Power consumption	typically 9 W
Input voltage	90–125 VAC / 200–250 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
Overload Indication	8 LEDs
Monitor Signal	A multiplexed signal for display on oscilloscope shows vibration levels with and without isolation – for diagnostic purpose only

## TRANSMISSIBILITY



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**standa**

**1TS-AVI200LP** with a standard honeycomb board for loads 0–400 kg.  
(Loads up to 200 kg per unit)



**1TS-AVI200LP** with a standard **Honeycomb Breadboard** and with **1TS Table Support**