

## Accessories for Stand-Based Systems Facility Planning Guide

This document contains important information about the requirements that must be fulfilled in order to carry the accessories to the place of installation and to install it there.

Please make sure that the path from the place of delivery to the place of installation is of sufficient size and barrier-free, i.e. without steps and landings. Otherwise, you may need additional aids to transport the accessories to the place of installation.

### A-STD-TST-01 Stand will be mounted on an Optical Table

☞ If your system includes one of the two active vibration isolation tables, the stand is pre-assembled on this table on delivery.

The following information refer to the stand on the optical tables, including the measurement system:

	<b>A-STD-TST-01 Stand on A-TAB-AIR-01 Optical Table, Pneumatically Controlled</b>	<b>A-STD-TST-01 Stand on A-TAB-ELC-01 Optical Table, Electronically Controlled</b>
Equipment provided by customer	If the A-WST-001 workstation is not ordered, you will need a side table (minimum width of 1100 mm) for monitor, keyboard, mouse, joystick and maybe oscilloscope (UHF-120).	
Compressed air	<ul style="list-style-type: none"> <li>- Filtered, dry and oil-free</li> <li>- Minimum 6 bar</li> <li>- Flow rate insignificant</li> <li>- Compressed air hose Ø 6 mm</li> </ul>	
Electrical power	300 VA	350 VA
Humidity	max. 80%, non-condensing	
Vibrations	The place of installation must be free of vibrations that may be caused by other equipment or other environmental influences.	
Storage temperature	-10 °C... +65 °C	
Operating temperature	+18 °C... +25 °C The temperature response of the stand (the position stability of the measurement point during temperature change) is 2.5 µm/K. Therefore a constant ambient temperature is necessary, especially for long-term measurements and when there are small structures on the measurement object.	
System weight	660 kg	730 kg
Dimensions [W x H x D]	1000 mm x 1848 mm x 855 mm	1000 mm x 1848 mm x 855 mm MSA-500 and UHF-120 measurement systems: 1119 mm x 1848 mm x 855 mm (incl. lateral console)

The following information refer to the heaviest and most bulky package, i.e. without measurement system:

	<b>A-STD-TST-01 Stand on A-TAB-AIR-01 Optical Table, Pneumatically Controlled</b>	<b>A-STD-TST-01 Stand on A-TAB-ELC-01 Optical Table, Electronically Controlled</b>
Package weight	580 kg	650 kg
Transport dimensions [W x H x D]	1000 mm x 2130 mm x 1150 mm	
Aids for transport and installation	<ul style="list-style-type: none"> <li>- You will need an electric pallet truck or a forklift to lift off the components from the pallet.</li> <li>- You will need at least a hand pallet truck to transport and to mount the table.</li> </ul>	

### Dimensions and Minimum Distance to the Wall

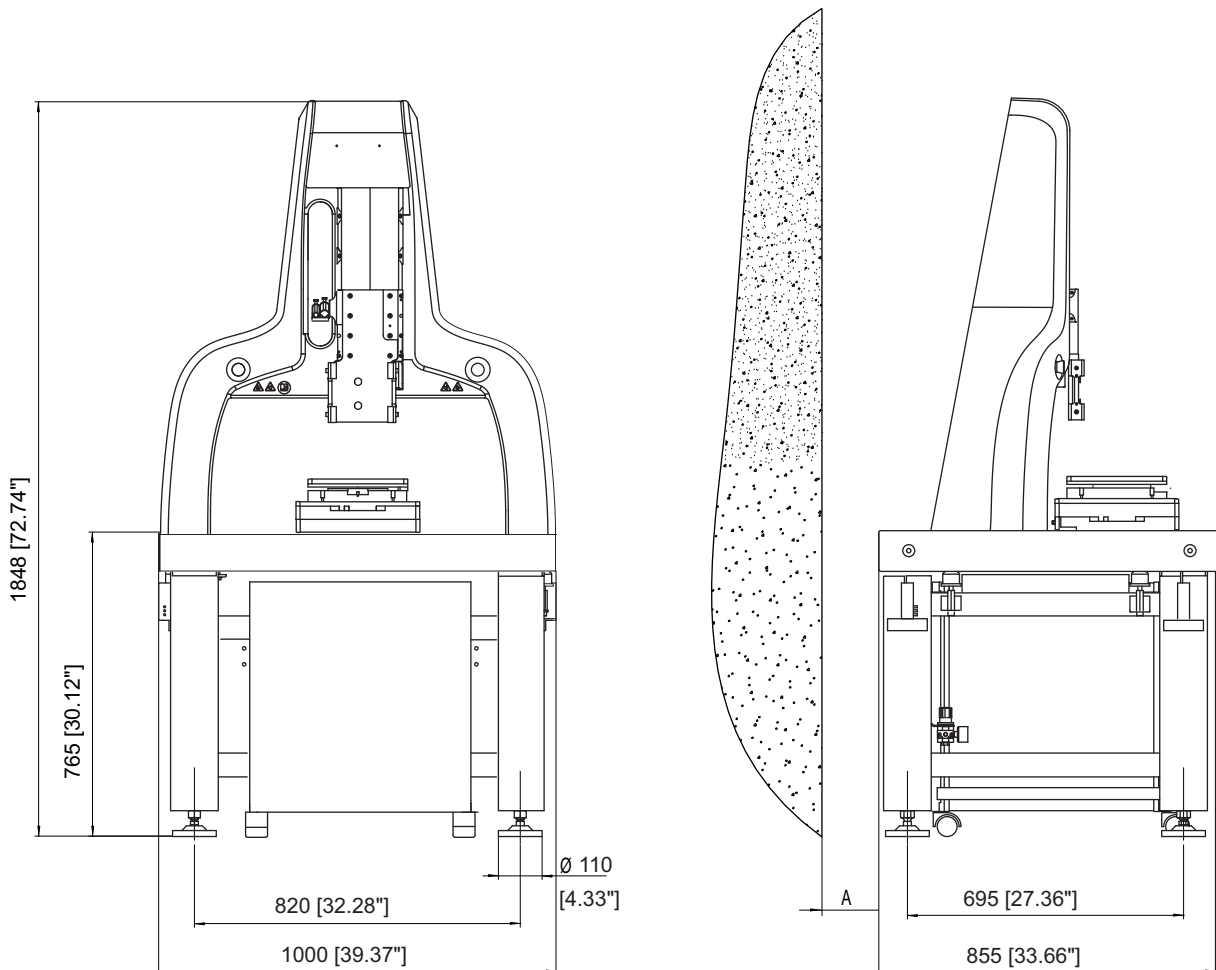


Figure 1: Front and side view of the stand on the A-TAB-AIR-01 optical table (Dimensions not specified are given in mm.)

Note for the A-TAB-ELC-01 optical table: When using the UHF-120 or MSA-500 measurement system, the controller of the vibration isolation in the console is placed next to the table. It is arbitrary whether this console is mounted on the left or right of the table.

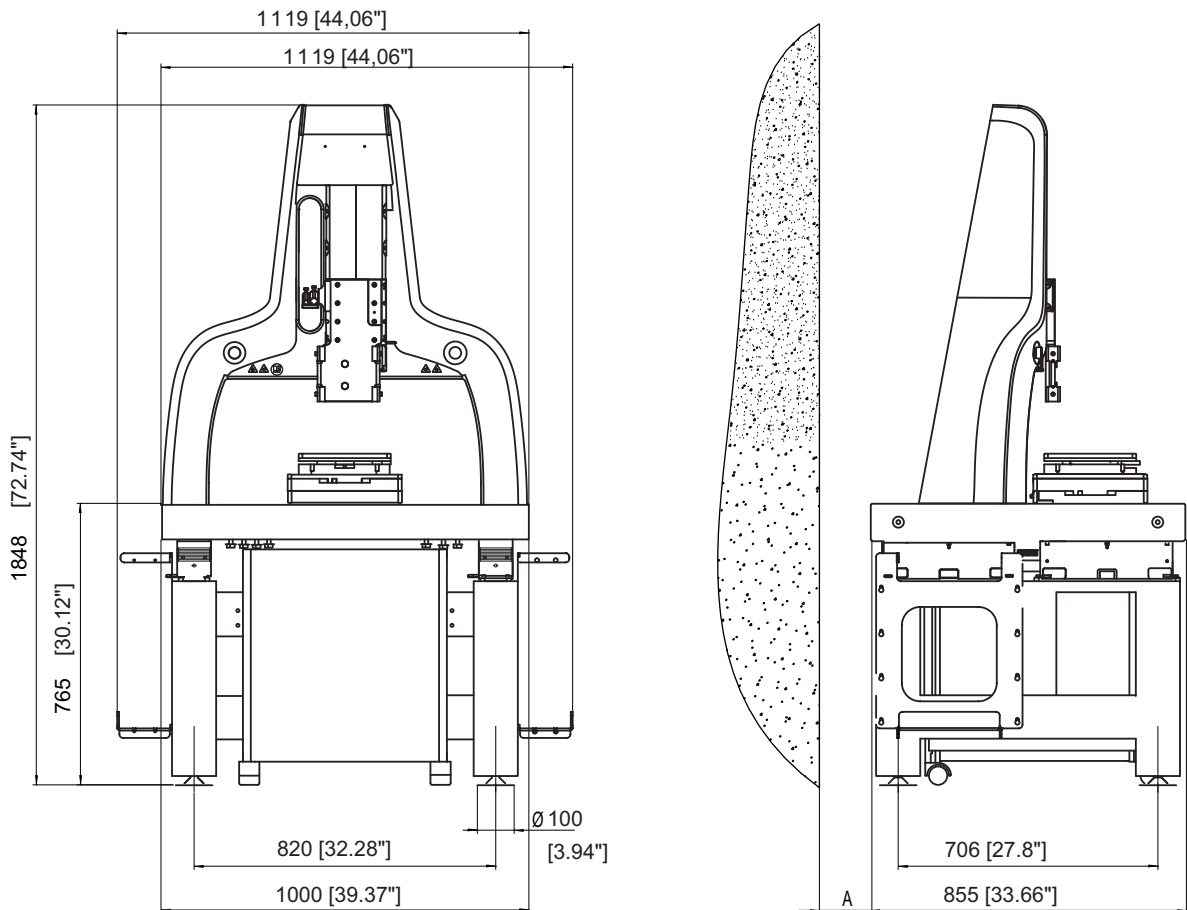


Figure 2: Front and side view of the stand on the A-TAB-ELC-01 optical table (Dimensions not specified are given in mm.)

### Notes for Figure 1 and 2

When you also order the A-WST-001 workplace, the minimum distance between the wall and the optical table [=A] must be larger than 161 mm.

When you do not order the A-WST-001 workplace, the minimum distance between the wall and the optical table [=A] must be larger than 100 mm.

## A-STD-TST-01 Stand will be Mounted on a Breadboard

The following information refer to the stand with the needed adapter plates, including the measurement system:

<b>A-STD-TST-01 Stand with Adapter Plates</b>	
Equipment provided by customer	- Breadboard with M6 thread, grid 25 mm or - Breadboard with 1/4-20UNC thread, grid: 1" - Side table for monitor, keyboard, mouse, joystick and maybe oscilloscope (UHF-120).
Electrical power	800 VA
Humidity	max. 80%, non-condensing
Vibrations	The place of installation must be free of vibrations that may be caused by other equipment or other environmental influences.
Storage temperature	-10 °C... +65 °C
Operating temperature	+18 °C... +25 °C The temperature response of the stand (the position stability of the measurement point during temperature change) is 2.5 µm/K. Therefore a constant ambient temperature is necessary, especially for long-term measurements and when there are small structures on the measurement object.
System weight	270 kg
Dimensions [W x H x D]	990 mm x 1103 mm x 775 mm Note: The system cabinet of the measurement system (555 mm x 640 mm x 600 mm) must be placed under the breadboard.

The following information refer to the heaviest and most bulky package, without measurement system:

<b>A-STD-TST-01 Stand with Adapter Plates</b>	
Package weight	180 kg
Transport dimensions [W x H x D]	1220 mm x 650 mm x 1320 mm
Aids for transport and installation	- You will need at least a hand pallet truck to transport the stand to installation location.  - You will need a jib crane and a appropriate chain sling (for 140 kg min.) to mount the stand on the breadboard.

### Dimensions and Minimum Distance to the Wall

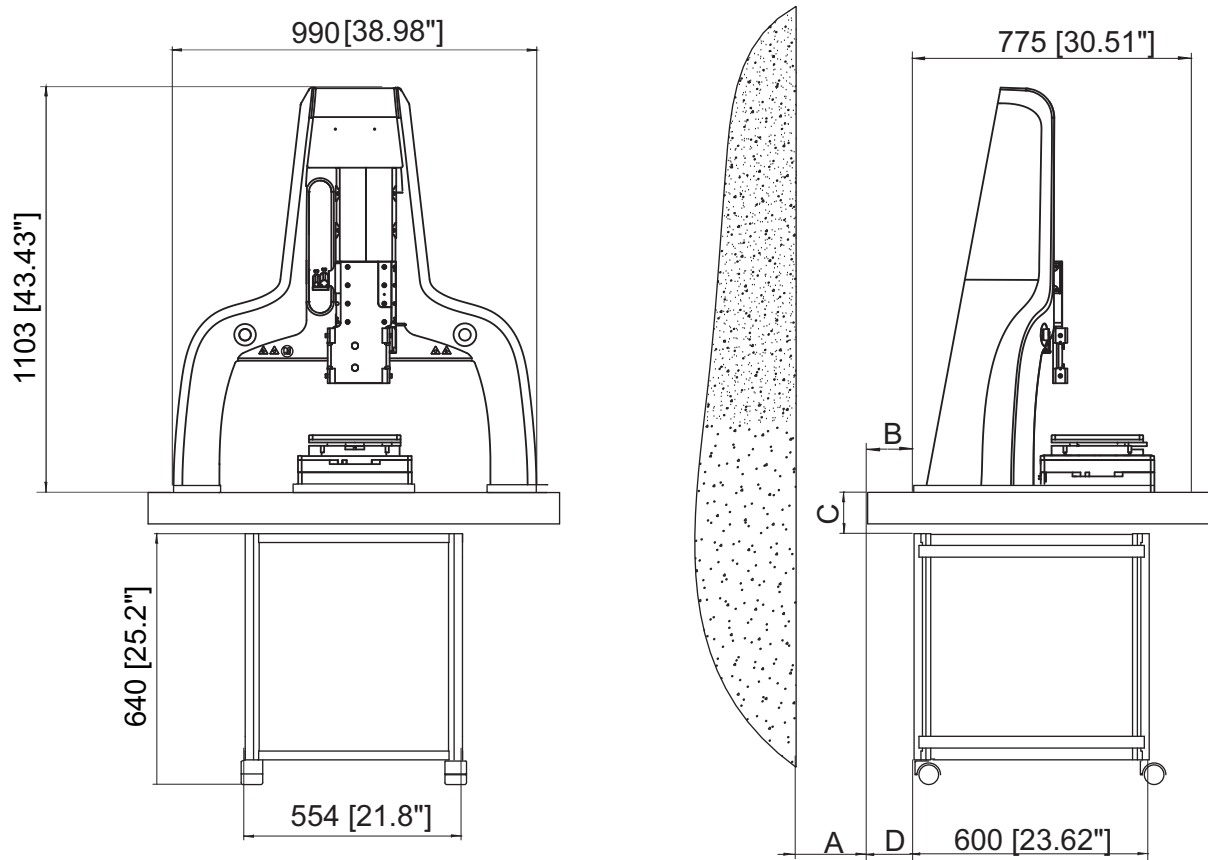


Figure 3: Front and side view of the stand on adapter plates, system cabinet under the breadboard (Dimensions not specified are given in mm.)

### Notes for Figure 3

The minimum distance between the wall and the breadboard [=A] must be larger than 100 mm.

Due to the limited length of the sensor head cables the sum of the distances [B] + [C] + [D] must not be larger than 370 mm.

## A-STD-BAS-02 Stand will be Mounted on an Optical Table

The following information refer to the stand on the optical tables, including the measurement system:

	<b>A-STD-BAS-02 Stand on the A-TAB-AIR-01 Optical Table, Pneumatically Controlled</b>	<b>A-STD-BAS-02 Stand on the A-TAB-ELC-01 Optical Table, Electronically Controlled</b>
Equipment provided by customer	If the A-WST-001 workstation is not ordered, you will need a side table (minimum width of 1100 mm) for monitor, keyboard, mouse, joystick and maybe oscilloscope (UHF-120).	
Compressed air	<ul style="list-style-type: none"> <li>- Filtered, dry and oil free</li> <li>- Minimum 6 bar</li> <li>- Flow rate insignificant</li> <li>- Compressed air hose Ø 6 mm</li> </ul>	
Electrical power	300 VA	350 VA
Humidity	max. 80%, non-condensing	
Vibrations	The place of installation must be free of vibrations that may be caused by other equipment or other environmental influences.	
Storage temperature	-10 °C...+65 °C	
Operating temperature	+18 °C...+25 °C The temperature response of the stand (the position stability of the measurement point during temperature change) is 2 µm/K. Therefore a constant ambient temperature is necessary, especially for long-term measurements and when there are small structures on the measurement object.	
System weight	595 kg	664 kg
Dimensions [W x H x D]	1000 mm x 1503 mm x 855 mm	1000 mm x 1503 mm x 855 mm Measurement systems MSA-500 and UHF-120: 1119 mm x 1503 mm x 855 mm (incl. lateral console)

The following information refer to the heaviest and most bulky package, without measurement system:

	<b>A-STD-BAS-02 Stand on the A-TAB-AIR-01 Optical Table, Pneumatically Controlled</b>	<b>A-STD-BAS-02 Stand on the A-TAB-ELC-01 Optical Table, Electronically Controlled</b>
Package weight	450 kg	520 kg
Transport dimensions [W x H x D]	1000 mm x 1150 mm x 1050 mm	
Aids for transport and installation	<ul style="list-style-type: none"> <li>- You will need an electric pallet truck or a forklift to lift off the components from the pallet.</li> <li>- You will need at least a hand pallet truck to transport and to mount the table.</li> </ul>	

## Dimensions and Minimum Distance to the Wall

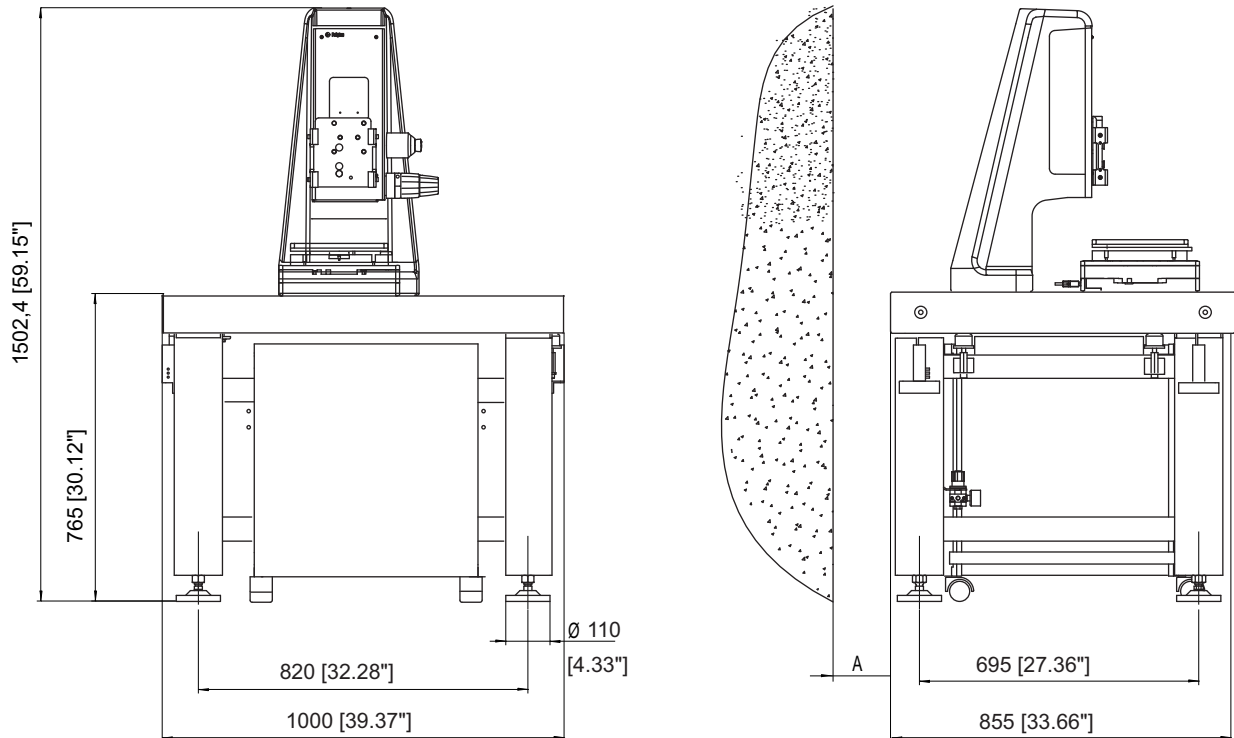


Figure 4: Front and side view of the stand on the pneumatically controlled A-TAB-AIR-01 optical table (Dimensions not specified are given in mm.)

### Notes for Figure 4

When you also order the A-WST-001 workplace, the minimum distance between the wall and the optical table [=A] must be larger than 161 mm.

When you do not order the A-WST-001 workplace, the minimum distance between the wall and the optical table [=A] must be larger than 100 mm.

Note for the A-TAB-ELC-01 optical table: When using the UHF-120 or MSA-500 measurement system, the controller of the vibration isolation in the console is placed next to the table. It is arbitrary whether this console is mounted on the left or right of the table.

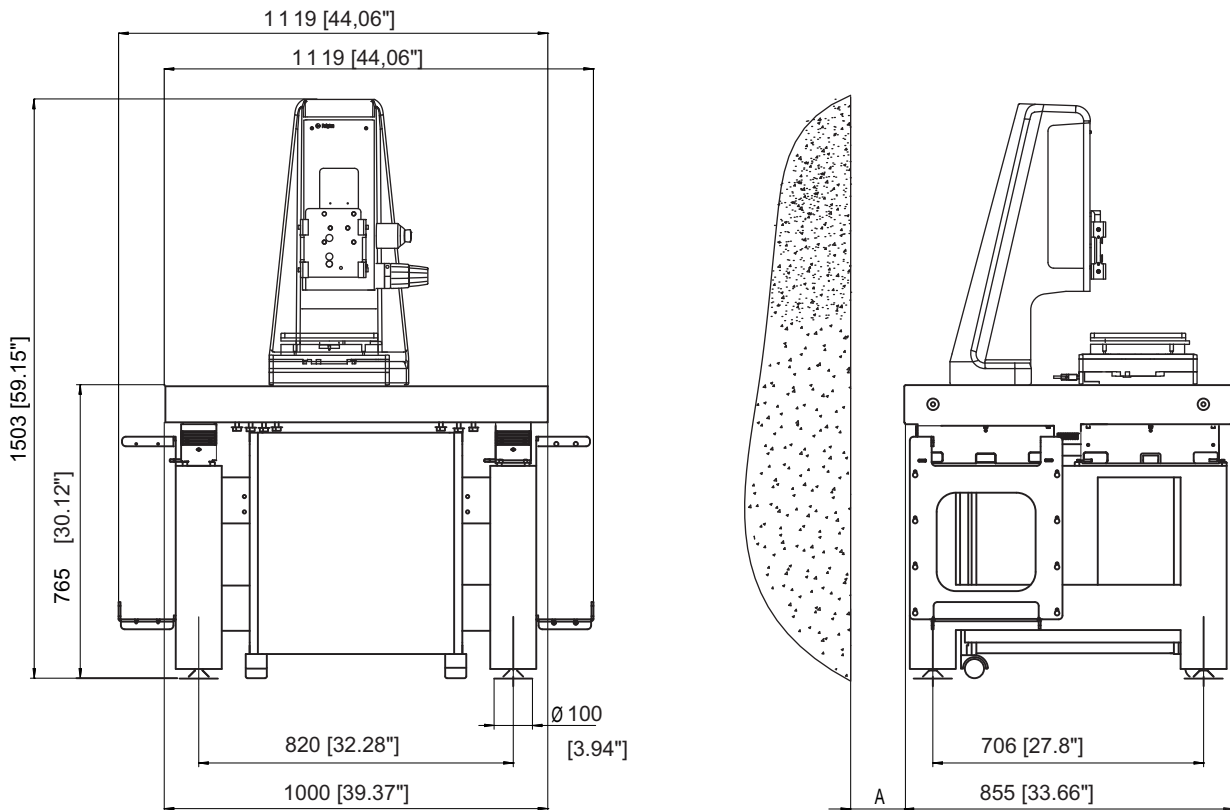


Figure 5: Front and side view of the stand on the A-TAB-ELC-01 optical table (Dimensions not specified are given in mm.)

### Notes for Figure 5

When you also order the A-WST-001 workplace, the minimum distance between the wall and the optical table [=A] must be larger than 161 mm.

When you do not order the A-WST-001 workplace, the minimum distance between the wall and the optical table [=A] must be larger than 100 mm.



### A-STD-BAS-02 Stand will be Mounted on the A-BBO-ME02 Metric Breadboard

The following information refer to the stand on the A-BBO-ME02 metric breadboard, including the measurement system:

<b>A-STD-BAS-02 Stand on the A-BBO-ME02 Metric Breadboard</b>	
Equipment provided by customer	- Table for breadboard - Side table for monitor, keyboard, mouse, joystick and maybe oscilloscope (UHF-120).
Electrical power	800 VA
Humidity	max. 80%, non-condensing
Vibrations	The place of installation must be free of vibrations that may be caused by other equipment or other environmental influences.
Storage temperature	-10 °C... +65 °C
Operating temperature	+18 °C... +25 °C The temperature response of the stand (the position stability of the measurement point during temperature change) is 2 µm/K. Therefore a constant ambient temperature is necessary, especially for long-term measurements and when there are small structures on the measurement object.
System weight	250 kg
Dimensions [W x H x D]	600 mm x 816 mm x 900 mm Note: The system cabinet of the measurement system (555 mm x 640 mm x 600 mm) must be placed under the breadboard.

The following information refer to the heaviest and most bulky package, without measurement system:

<b>A-STD-BAS-02 Stand on the A-BBO-ME02 Metric Breadboard</b>	
Package weight	165 kg
Transport dimensions [W x H x D]	820 mm x 855 mm x 1220 mm
Aids for transport and installation	- You will need at least a hand pallet truck to transport the stand to installation location. - You will need a jib crane and a appropriate chain sling to mount the stand on the breadboard.

## Dimensions and Minimum Distance to the Wall

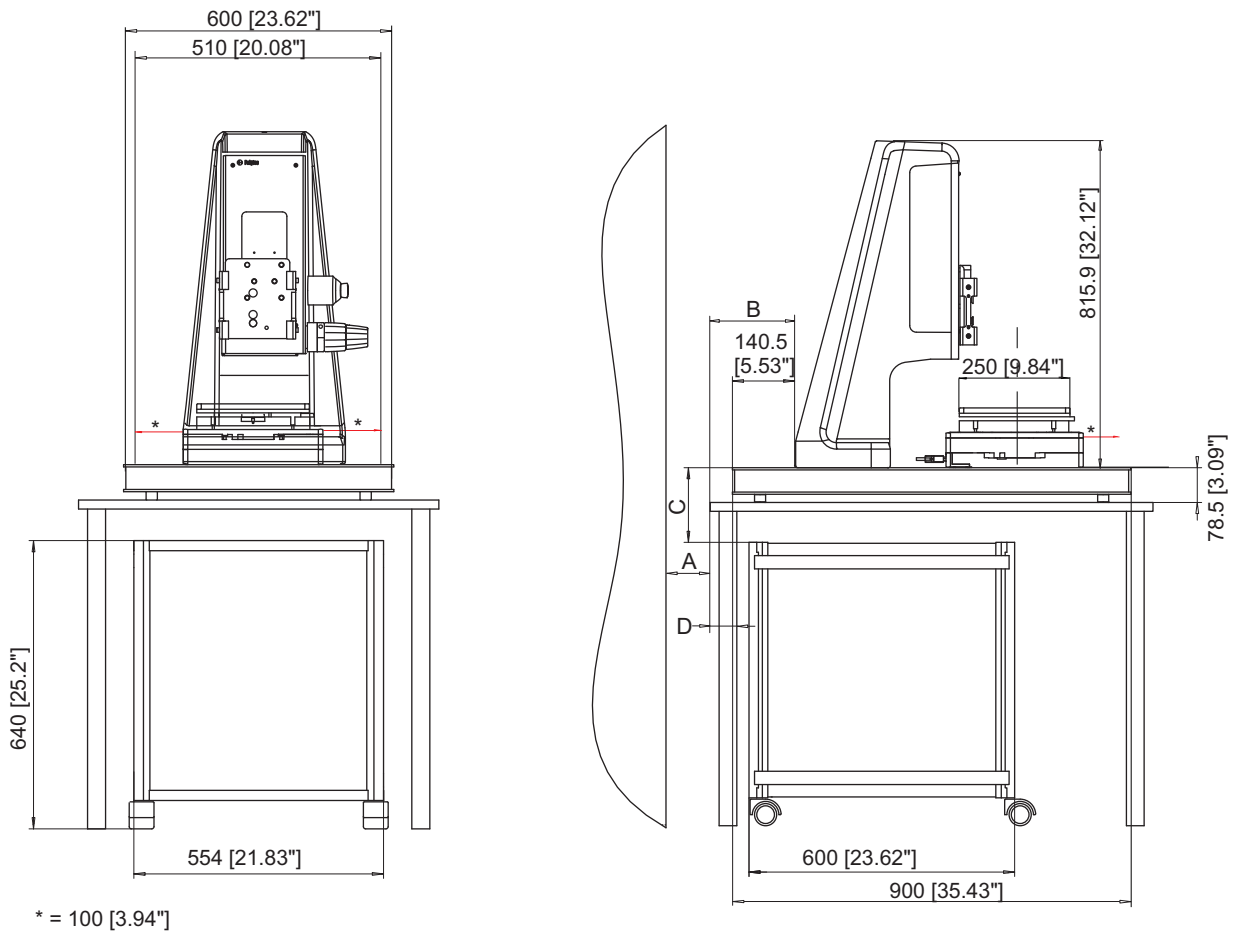


Figure 6: Front and side view of the stand, system cabinet under the breadboard (Dimensions not specified are given in mm.)

### Notes for Figure 6

The minimum distance between the wall and the table with the breadboard on it [=A] must be larger than 100 mm.

Due to the limited length of the sensor head cables the sum of the distances [B] + [C] + [D] must not be larger than 400 mm.

## A-STD-BAS-02 Stand will be Mounted on a Breadboard which is Provided by the Customer

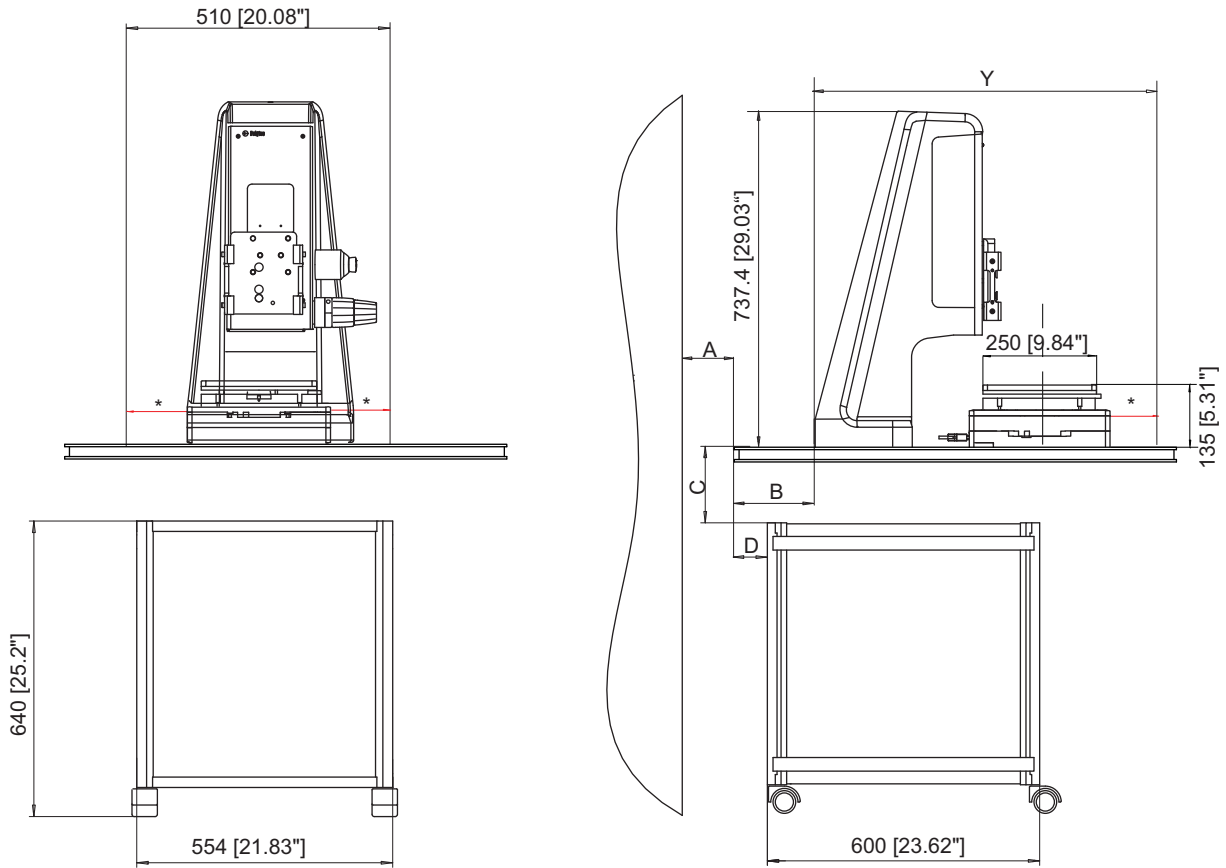
The following information refer to the stand on a breadboard provided by a customer, including the measurement system:

	<b>A-STD-BAS-02 Stand on a Metric Breadboard</b>	<b>A-STD-BAS-02 Stand on a Breadboard with Inch Thread, incl. Adapter Plates</b>
Equipment provided by customer	- Breadboard with M6 thread, grid 25 mm or - Breadboard with 1/4-20UNC thread, grid: 1" - Side table for monitor, keyboard, mouse, joystick and maybe oscilloscope (UHF-120).	
Electrical power	800 VA	
Humidity	max. 80%, non-condensing	
Vibrations	The place of installation must be free of vibrations that may be caused by other equipment or other environmental influences.	
Storage temperature	-10 °C ... +65 °C	
Operating temperature	+18 °C ... +25 °C The temperature response of the stand (the position stability of the measurement point during temperature change) is 2.5 µm/K. Therefore a constant ambient temperature is necessary, especially for long-term measurements and when there are small structures on the measurement object.	
System weight	210 kg	
Dimensions [W x H x D]	510 mm x 737.4 mm x 752 mm For measurement system MSA-500: 510 mm x 737.4 mm x 777 mm	510 mm x 757.4 mm x 771 mm For measurement system MSA-500: 510 mm x 757.4 mm x 796,4 mm
	Note: The system cabinet of the measurement system (555 mm x 640 mm x 600 mm) must be placed under the breadboard.	

The following information refer to the heaviest and most bulky package, i.e. without measurement system:

	<b>A-STD-BAS-02 Stand</b>
Package weight	115 kg
Transport dimensions [W x H x D]	820 mm x 855 mm x 1220 mm
Aids for transport and installation	- You will need at least a hand pallet truck to transport the stand to installation location.  - You will need a jib crane and a appropriate chain sling to mount the stand on the breadboard.

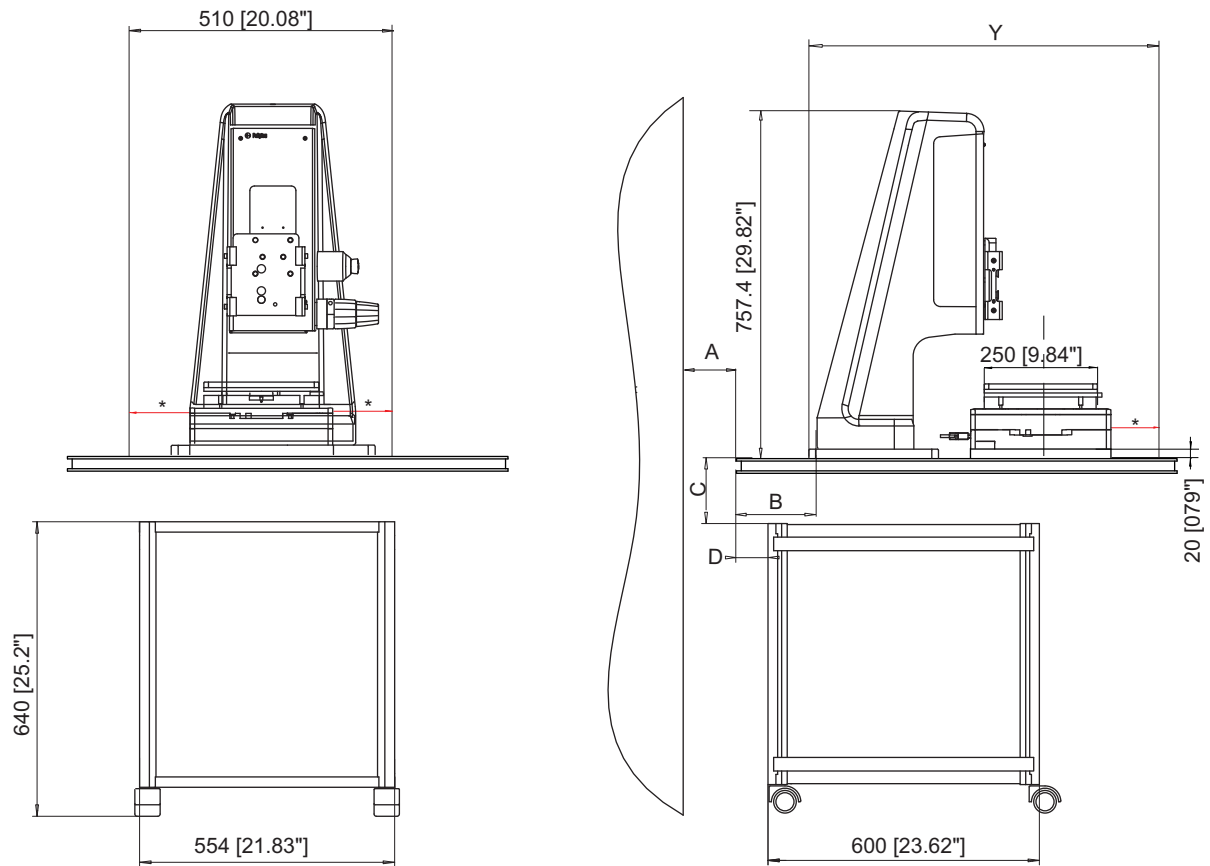
### Dimensions and Minimum Distance to the Wall



Sensor Head	Y
MSA-500	777 mm [30.59"]
MSA-100-3D, UHF-120, TMS-300, TMS-1200	752 mm [29.60"]

\* = 100 [3.94"]

Figure 7: Front and side view of the stand, mounted on a metric breadboard, system cabinet under the breadboard (Dimensions not specified are given in mm.)



Sensor Head	Y
MSA-500	796.4 mm [31.35"]
MSA-100-3D, UHF-120, TMS-300, TMS-1200	771 mm [30.35"]

\* = 100 [3.94"]

Figure 8: Front and side view of the stand, mounted on a breadboard with inch thread, system cabinet under the breadboard (Dimensions not specified are given in mm.)

**Note for Figure 7 and 8:**

The minimum distance between the wall and the breadboard [=A] must be larger than 100 mm.

Due to the limited length of the sensor head cables the sum of the distances [B] + [C] + [D] must not be larger than 400 mm.

## A-WST-001 Workstation

The following information refer to the A-WST-001 Workstation:

A-WST-001 Workstation	
Weight	80 kg
Dimensions [W x H x D]	2200 mm x 1100 mm x 730 mm
Transport weight	130 kg
Transport dimensions [W x H x D]	2250 mm x 1500 mm x 120 mm

### Dimensions

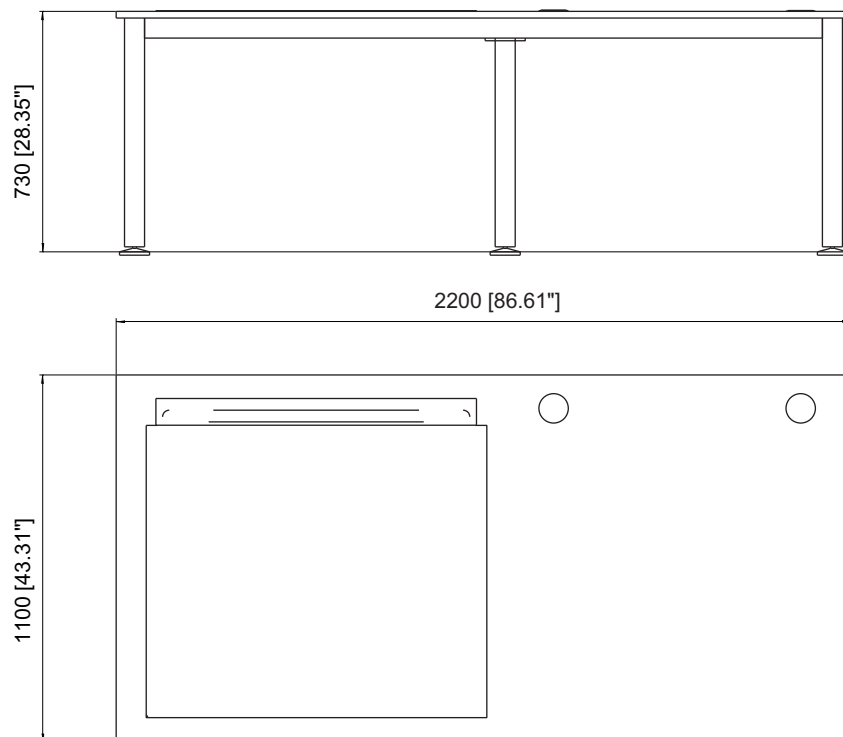


Figure 9: Side and top view of the workstation (Dimensions not specified are given in mm.)

## Optical Tables

The following information refer to the active vibration isolation table, including the TMS-500 measurement system each (for TMS-500-R, see figures in brackets):

	<b>A-TAB-AIR-01 Optical Table, Pneumatically Controlled</b>	<b>A-TAB-ELC-01 Optical Table, Electronically Controlled</b>
Equipment provided by customer	If the A-WST-001 workstation is not ordered, you will need a side table (minimum width of 1100 mm) for monitor, keyboard, mouse, joystick and maybe oscilloscope (UHF-120)..	
Compressed air	<ul style="list-style-type: none"> <li>- Filtered, dry and oil-free</li> <li>- Minimum 6 bar</li> <li>- Flow rate insignificant</li> <li>- Compressed air hose Ø 6 mm</li> </ul>	
Electrical power	120 VA	170 VA
Humidity	max. 80%, non-condensing	
Vibrations	The place of installation must be free of vibrations that may be caused by other equipment or other environmental influences.	
Storage temperature	-10 °C ... +65 °C	
Operating temperature	+10 °C ... +33 °C (during the measurement a constant ambient temperature is necessary)	
System weight	550 kg (TMS-500-R: 565 kg)	610 kg (TMS-500-R: 625 kg)
Dimensions [W x H x D]	1000 mm x 855 mm x 770 mm	1000 mm x 855 mm x 770 mm (TMS-500-R (incl. lateral console): 1119 mm x 1848 mm x 855 mm)

The following information refer exclusively to the accessories, i.e. without measurement system:

	<b>A-TAB-AIR-01 Optical Table, Pneumatically Controlled</b>	<b>A-TAB-ELC-01 Optical Table, Electronically Controlled</b>
Package weight	450 kg	520 kg
Transport dimensions [W x H x D]	1000 mm x 1150 mm x 1050 mm	
Aids for transport and installation	<ul style="list-style-type: none"> <li>- You will need an electric pallet truck or a forklift to lift off the components from the pallet.</li> <li>- You will need at least a hand pallet truck to transport and to mount the table.</li> </ul>	

## Dimensions

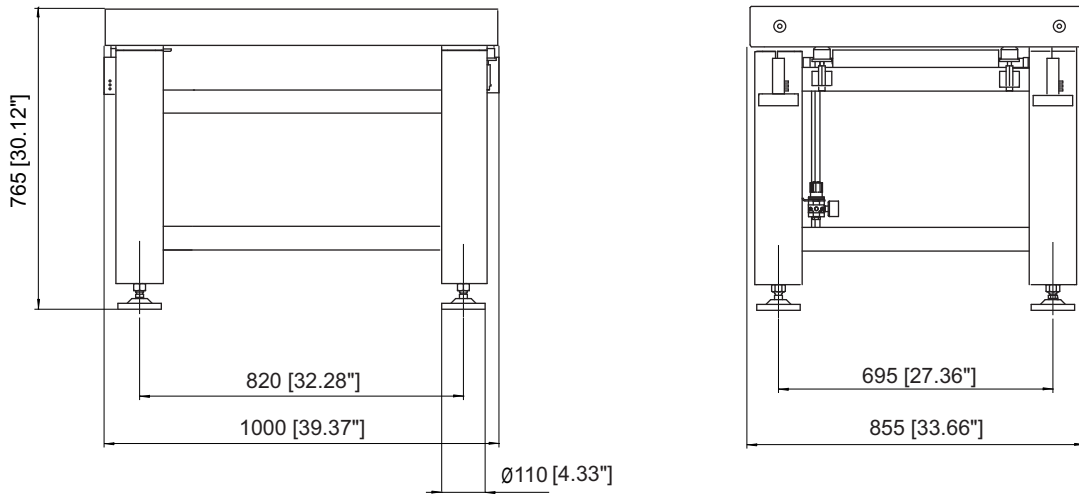


Figure 10: Front and side view of the optical table A-TAB-AIR-01 (Dimensions not specified are given in mm.)

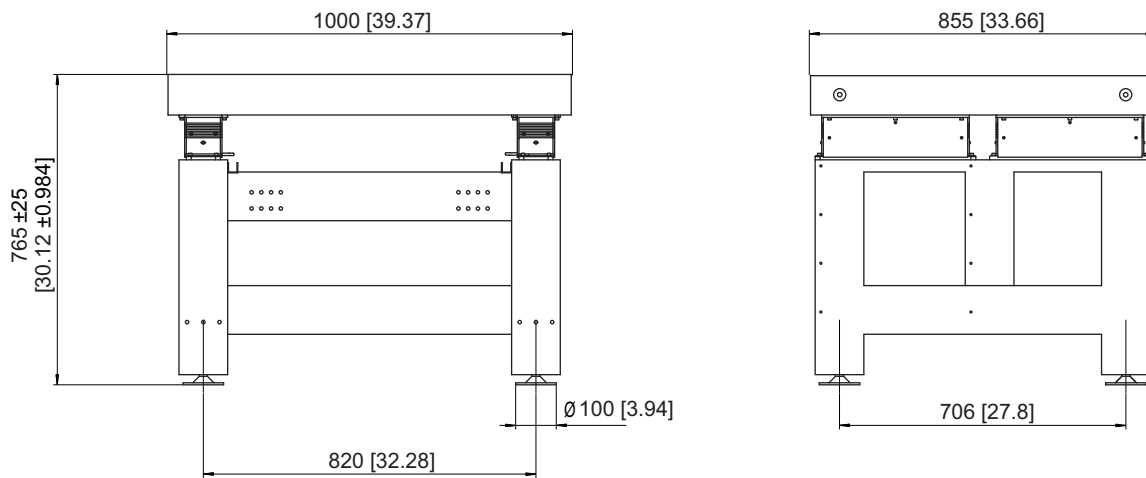


Figure 11: Front and side view of the optical table A-TAB-ELC-01 (Dimensions not specified are given in mm.)



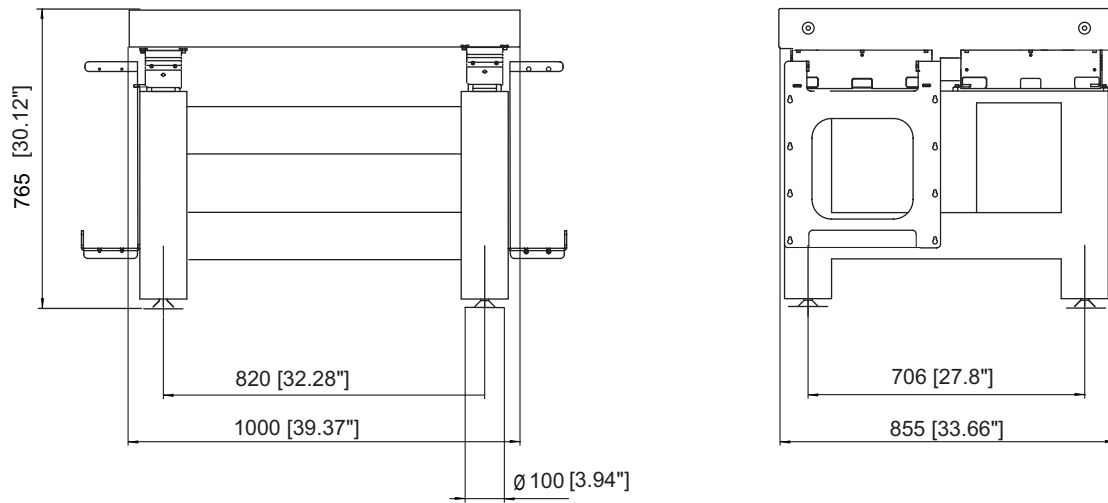


Figure 12: Front and side view of the optical table A-TAB-ELC-01 incl. lateral console (Dimensions not specified are given in mm.)

Note for the A-TAB-ELC-01 optical table: When using the TMS-500-R, the controller of the vibration isolation in the console is placed next to the table. It is arbitrary whether this console is mounted on the left or right of the table.

