



## VERTICAL SPINE MEASURING DEVICE

The Test person stand at the head and Heel fixation points. The test engineer must push all pins

Toward to the spine and backside of the test person to get in contact.

Description spine measuring:

Solid Aluminium profile frame system for wall installation height about 2.200mm

At the front frame of this system we install linear guiding systems that do not allow pivoting of the measuring pin shape. In total 36 measuring pins.

26 pc in a location from head started with 50mm distance to each pin (same like at MSZM) and further 10 pins in a distance of 100mm between each pin.

At the front of each pin we print with a 3D printer a special shape

At the 50mm Pins it will be smaller spine shape at the 100mm it will be e more in width shape to measure better the legs of a person.

Each measuring pin has at the end a target plate for a laser deflection measuring system (contactless).

Behind the Pin targets we install a linear axis with a precision laser deflection sensor. Over a 24V dc motor this laser sensor travels from

up to downside to record all pin deflection values over our measuring software.

The DASYLab Software control over a USB Measuring card the movements and the measuring

In case of order we need from customer side a Windows 10 Notebook PC with administration rights.

Measuring principle:

The Test person stand at the head and Heel fixation points. The test engineer must push all pins

Toward to the spine and backside of the test person to get in contact.

The he can start the measuring on a customer PC where we can install our DASYLab control Software.

As result you can get the measured points to an Excel sheet interface.

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**SKU:** VSMD-1

**Category:** [Mattresse / Bed](#)



