



## ALPHATOWER

**Bench-top perforating tower.**



The **AlphaTower** is a bench-top perforating instrument. It has been designed to avoid the usage of expensive septum & needles. The **AlphaTower** can be connected to any instrument like leak detector or O<sub>2</sub> or CO<sub>2</sub> analyser.

**Consumables: costs & challenges:**

**The costs:** Currently, all methods to analyse O<sub>2</sub> or CO<sub>2</sub> or to leak test flexible packaging require that you use a septum, which you have to manually adhere to the packaging, and then manually perforate the septum with a hollow needle to perform the leak test.

- ◆ One test = one septum. A septum cannot be reused.
- ◆ A leak septum can be used to perform either a leak or a gas test.
- ◆ A gas septum can be used only to perform a gas test.



**Septum perforated by a hollow needle.**

Leak septum are much more expensive than a gas septum.

Some users are spending 25,000 to 35,000 USD per year on leak septum's alone.

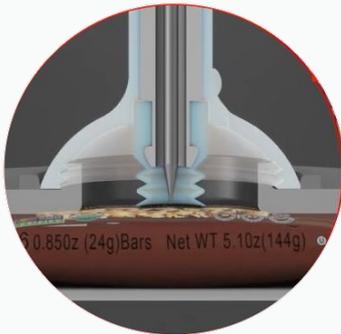
**The challenges:**



A septum takes the form of a sticker that is adhered to the flexible packaging to be tested. The septum's main function is to provide a leak-free seal to maintain the gas pressure inside the system. In other words, it helps to avoid creating an additional leak when the packaging is perforated with a needle.

When there is little space between the product and the packing (headspace), the hollow needle could pierce the food and partially block the needle. As a

consequence, the flow would become restricted, or even cease, which results in the gas test or leak test becoming compromised. This is entirely avoided with the **AlphaTower**, due to the use of a thin conical stainless-steel pointer, therefore avoiding any partial or total blockages.



**AlphaTower thin conical stainless-steel pointer.**

#### **AlphaTower main advantages:**

- ◆ Accurate testing.
- ◆ Cost savings.
- ◆ Versatility (the AlphaTower can connect to a leak tester or a gas analyser of any brand).

#### **Operating instructions:**

After connection of the leak tester or the gas analyser, place the sample under the tower, adjust it, manually downwards, perforation starts automatically. Perform the test and read the results on your instrument.

It is only possible to connect a single instrument at a time.

#### **Technical specification:**

##### **Stand:**

Large table stand with focusing arm holder.

Cantilever holder for free movement of the tower.

##### **Tower:**

Patented perforating device.

OLED display 1,5".

Touch buttons for adjustment of the perforating depth.

Servo driven perforating stainless-steel pointer.

Silicon bellows.

##### **Supply:**

9~12 VDC 1 A (adapter 100-250 Vac 12VDC provided).

Outputs: 2 dry contacts ready/start to control a leak tester or gas analyzer.

Foot print: 260 x 250 mm Weight: 6 Kg.

The **AlphaTower** is guaranteed 3 years.

WARRANTY TERMS AND CONDITIONS, other ASTAARA products, videos, dimensions, weights, drawings and further information @

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