







Product Data Sheet Seedshaker

TeaL Agro Technologies combined the best of 20 years of development in seed treatment equipment. Fast and accurate processing is the key.



The TeaL Seedshaker is developed for processing samples for isolation of DNA/RNA extraction out of seed and leaf tissue. Major benefit of the Seedshaker is a durable solution with a high capacity.

Benefits of the TeaL Seedshaker

-  Uniform extraction between the wells
-  Extracting maximum DNA concentration
-  Very low temperature increase so limited DNA/protein fragmentation/ denaturation.
-  Extraction can also be used for the preparation of the analyte in quality and quantity and is appropriate for the analytical method used to quantify.

Capacity

The machine can utilize different types of extraction plates and tubes. 8 deep well plates or 16 shallow plates can be processed in one batch. With a maximum of 1400 gram per batch (including plates/ grinding media/ buffer/ tissue).

When it is likely to process tubes and plates, this can be done in the same machine. Special clamping plates and tube holders can be delivered. The machine can process a maximum of 32 50ml tubes in one batch.

Maximum speed of the machine is 1300rpm. Running time is not limited.

Use of the machine

The machine is developed by balancing the shaking positions. This means that the machine needs to be loaded accurately and the weight has to be spread proportionally to guarantee a good working of the machine.

Programming the machine is easily. The running time and the speed can be programmed in the menu. Running time of the machine is advised from 30 seconds up to 7 minutes depending on the tissue/ seed.

Advise

Protocols for grinding can be developed in cooperation with TeaL. We can advise in the use of ball Ø and material, plate or tube types. When the machine is delivered, TeaL will give a brief training in how to install and how to use the machine properly and safely.



 Durable machine
  High batch capacity
  Easy to operate
  User friendly
  Robust design
 

Maintenance

Maintenance of the machine depends on the intensity of the use of the machine. TealL advises preventive maintenance on a (semi) yearly basis. TealL does a thoroughly inspection, wear and tear parts will be replaced and a full inspection report (including running hours) will be sent to the user afterwards.

Accessories





Good use and results of the machine can be supported by the right accessories. TealL has a range of accessories which can be offered to use in the machine. Special parts can always be custom made in our own facility.

Installation

Be aware that the effect of vibration of the machine can be annoying in a silent surrounding such as a lab. It's important that the Seedshaker is installed properly and on a platform that absorbs most of the vibration. TealL can deliver a table for the Seedshaker to make sure that the vibrations will be reduced to a minimum.



Our equipment is always delivered with:

-  An instruction for the operator(s)
-  1 Year guarantee (by normal use)
-  CE-marking of equipment
-  User manual

	Seedshaker
Max. Height	610mm
Depth	470mm
Width	500mm
Max. Weight	69 kg

Recipe	Tomato*
Batch capacity	8 deepwell plates
Processing time	150sec
RPM	1300
Ø balls	Ø3.8
	* average

Connection Requirements	Seedshaker
Power Main Motor	0.25 kW
Voltage	230 V
Noise level	68dB

Loading specs	
Plates (lwxh)	86 x 128 x 165mm
Tubes 50ml (32x)	Height 115mm

