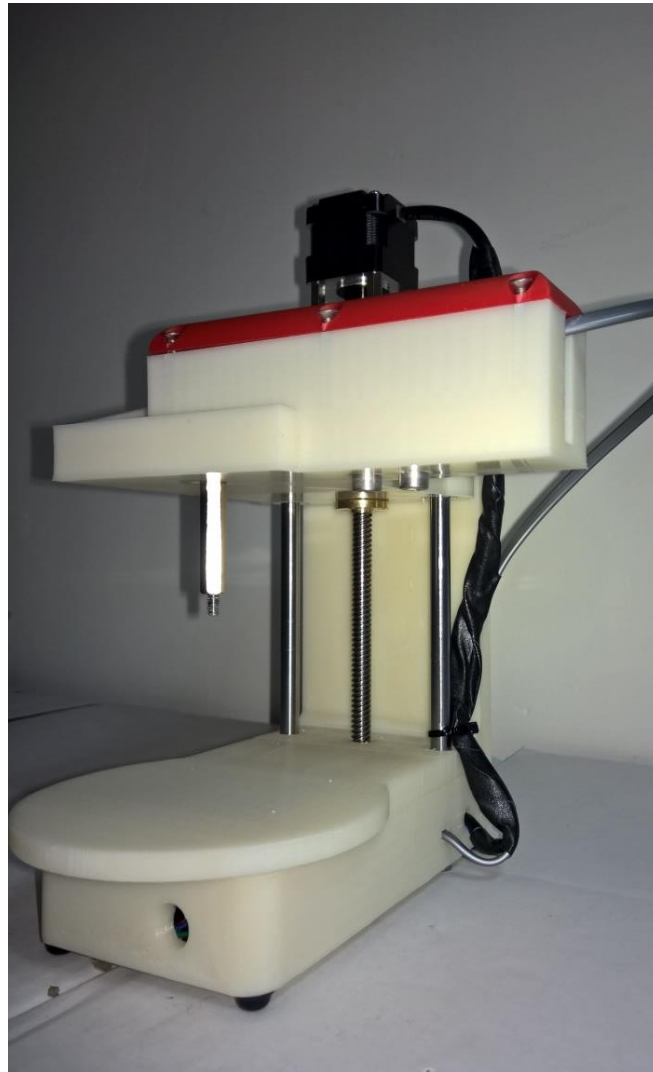


Agrosta®Mini Texturometer

Texturometer for soft materials and food

Agrosta

Our Mini Texturometer comes with all texture analyzers features, but its price is very affordable, and the pressure and strokes are limited
It is the ideal tool for people wanting to make precise and simple texture analysis on small samples. It can give the firmness as well as springiness, form memory calculation etc..
It can be used on individual samples or batches of soft materials, semi-solids, gels, liquids, glues, small fruits, berries..



Many thanks for having acquired an Agrosta instrument

Your package contains :

- The instrument itself
- 3 different tips
- A power supply & a USB cable
- The software for windows on USB stick
- A certificate of conformity
- A manual

13 RUE DU BASTRINGUE – 76440 SERQUEUX - FRANCE
lak@agrosta.org - www.agro-technology.co.uk – Tel +33 689494340

Agrosta®Mini Texturometer has been designed and produced in France by Agrosta

- The motor is a Nema 14 stepper motor
- There are 2 microprocessors, one is measuring and communicating with the PC, the other one is managing the movements and the motor (Both motherboards come from USA)

LOAD RANGE (LOAD CELLS TYPES AVAILABLE)	1 Kg
AVERAGE ACCURACY	0.1 Gram
POSITION RANGE	0 to 80 mm
TEMPERATURE MEASURING RANGE	0 to 90 °C
COMPATIBILITY	Windows 2000 XP Vista Windows 7 Windows 8 Windows 10
POSITION ACCURACY	0.03 mm (One direction)
SPEED	From 0,1 mm/s to 27 mm/s
SPEED ACCURACY	+/- 0.1% of set speed
CUSTOM DESIGN FIXTURE AND PROBE	YES (3D printing, immediate result)
DESIGN Generation	~ 2016
TEMPERATURE PROBE	No
CALIBRATION	Check using Lab scale
VARIETY OF BASE PLATES AND PROBES	More than 100
TEST PARAMETERS	10
MADE IN	FRANCE
DATA EXPORT FROM SOFTWARE	Excel, Word, Xml, Jpg
WORKS WITHOUT COMPUTER	NO
GUARANTEE	2 Years full guarantee
STATISTICS	Unlimited data

First Cycle :

The screenshot displays the software interface for the Agrosta Mini Texturometer. At the top, there are navigation buttons: 'Click on your device', 'Erase data', 'Export to Excel', and 'Erase (Production batch analysis)'. The main display area shows a pressure-time graph with a purple line representing the force profile. The y-axis ranges from 0 to 9000, and the x-axis represents time. A data table at the top right lists 20 data points. Below the graph, there are three numbered instructions: '1 - Select COM', '2 - Click on OK', and '3 - Select a pre-config program'. A 'Statistics' section shows Average, St Dev, Mini, and Maxi values, all currently set to 0. A '4 - Launch Cycle' section contains various timing parameters for the test cycle. At the bottom, there are buttons for 'FRUIT PENETROMETRY' and 'Export batch and Statistics to Excel'.

Inst Value	101	2 964	5 551	6 589	5 060	2 960	1 491	1 628	3 310	5 672	7 762	5 929	3 997	1 725	254	114	1 019	3 057	5 625	6 650	5 141	1 594	1 237	3 391	5 727	7 893	8 565	7 696	6 069	4 169	1 898
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1 - Select COM

2 - Click on OK

3 - Select a pre-config program

4 - Launch Cycle

High Speed
Time between
55
Backlash Compensation of machine
In 1/10e
10

Low Speed
Time between
55
Return stroke for second pressure
In
55

Stroke after contact
In
50
Pause time before second press
In Milliseconds
100

Contact detection when grams
In
100
Low Speed second pressure
In
70

Return Speed before second pressure
In
60
Stroke for second pressure
In
55

FRUIT PENETROMETRY

Export batch and Statistics to Excel

Parameters :

You can use the pre-configured programs, or apply your own parameters

Your last configuration is recorded by the software, and will be applied the next time you will start the soft

You can adjust and select the following parameters with the software :

- "a" + fast speed in 0.1mm / second
- "b" + slow speed after first contact with the sample, in 0.1mm / second
- "c" + stroke after first contact with sample in 1/10 of mm
- "d" + threshold in grams (For how many grams does the machine consider that the tip is in contact with sample), we recommend a minimum of 50 grams
- "e" + first return speed in 0.1mm / second
- "f" + backlash compensation in 1/10 of mm (Mechanical clearance compensation)
- "g" + second slow speed in 0.1mm / second, if not indicated, the machine does not make a second cycle (Second cycle is used to determine springiness)
- "h" + second stroke in 1/10 of mm
- "k" + return stroke between first and second pressure, in 1/10 of mm
- "t" + waiting time between the 2 cycles

The curve is displayed, and you have the choice between 3 buttons :

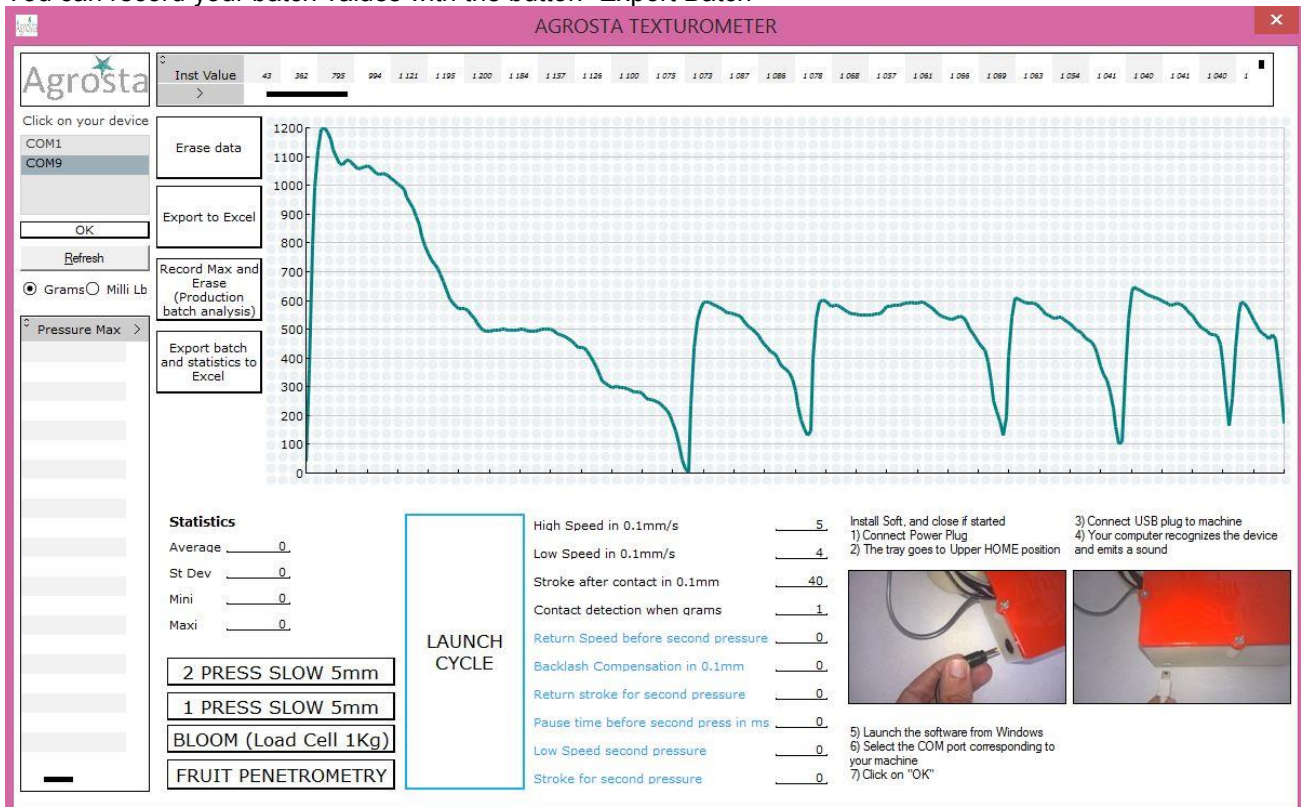
- Erase data
- Export to Excel the raw data
- Record maximum + Erase.
- You can click on the charts or graphs with the right button of your mouse to access to functions

This last button is very useful if you want to use the software for production issues

In this case, you want to manage batches of samples, and obtain statistics for a large number of samples.

This buttons records the maximum in the chart "Pressure Max" and statistics are automatically calculated for your batch

You can record your batch values with the button "Export Batch"

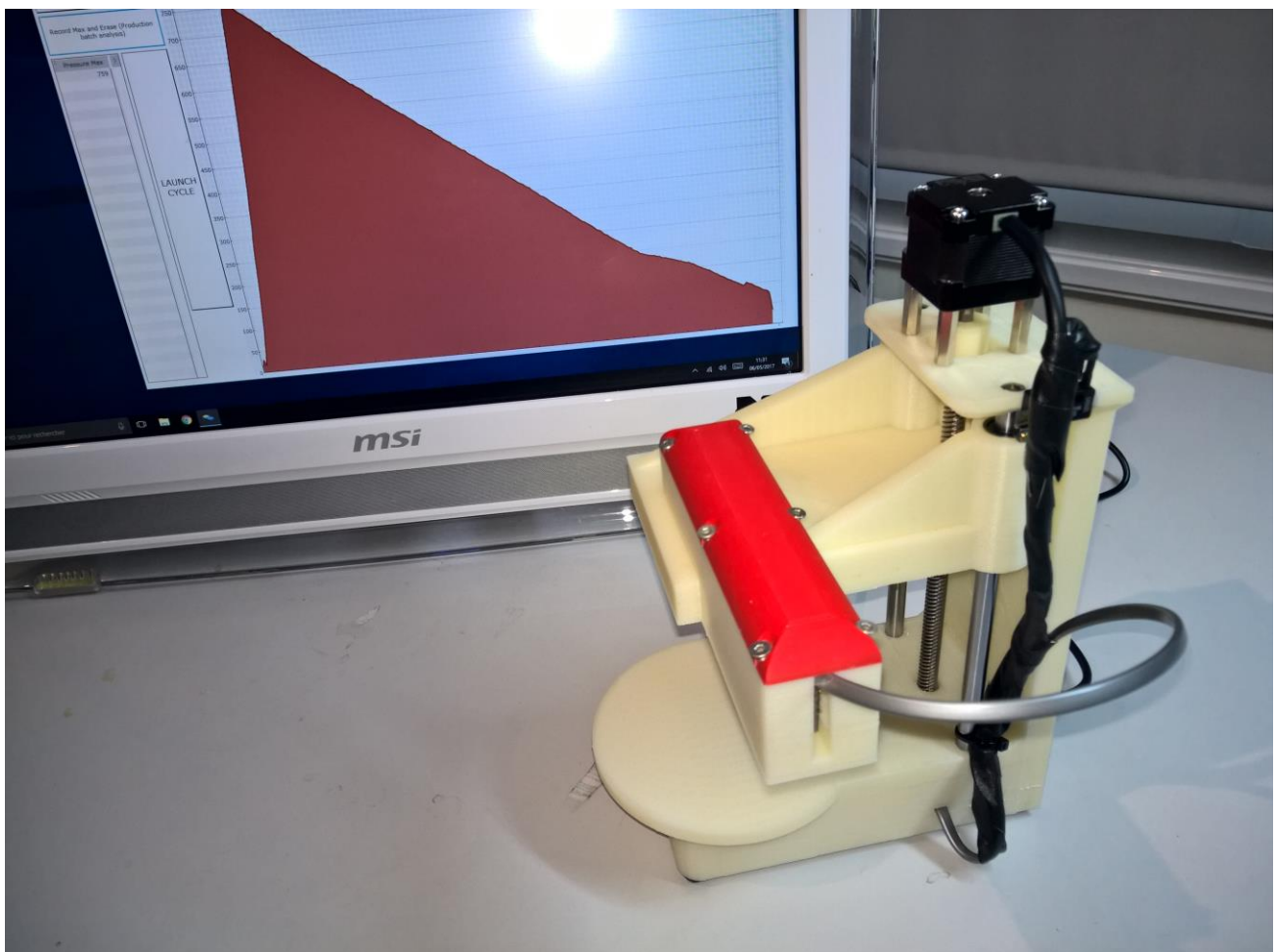


Using your own software to communicate with the machine (Advanced configuration) :

The machine communicates on a very simple way with the computer
Just write on the COM (Serial port) corresponding to the machine the parameters as follows :

```
a60b400c55d150j1
```

This example is for only one stroke of 5.5 mm length after contact. Contact is detected at 150 grams
The instruction j1 is to start the cycle



Examples of uses :

- Texture of gels for batteries
- Crispiness of chips
- Tenderness and springiness of bread
- Small springs linearity testing
- Texture measurement of cooked food components
- Global texture of a small beaker of peas
- Cooked beans firmness
- Pharmaceutical paste viscosity testing