



WHOLE VEGETABLE PROCESSING
increases yields



WHOLE FRUIT PROCESSING
increases nutrition



QUICK FACTS

Background

Green Cell Technologies® is a global bio-technology and Intellectual Property development company specialising in formulating and building advanced solutions to world sustainability problems, naturally.



With a growing population and shrinking agricultural footprint and earth resources, people are hungry and sick and are harming the ecosystem through usage. Green Cell Technologies (GCT®) overcomes the threat to food productivity through the use of its patented Disruptor machines and Dynamic Cellular Disruption™ (DCD™) processes, which it sells under license to manufacturers and processors around the world.

Disruptor Benefits

Dynamic Cellular Disruption (DCD) is a multi-stepped process that works through machinery known as ‘Disruptors’. The Disruptors are able to process *any* plant or natural material - this is beneficial to the following industries:-

- Functional Food & Beverage (humans and animals)
- Nutraceutical
- Pharmaceutical

Natural Solutions for:

Humans

Agriculture

Animals

- Cosmeceutical
- Green Energy
- Agriculture

The overall benefits of integrating DCD and the Disruptor technology into today's manufacturing processes - whatever that may be - are:

- Uses the whole plant/material - no waste - carbon credits
- Opens up 99.999998% of the cells which releases molecules of interest
- Increases yield and nutritive value
- Cost effective to produce
- Production time is significantly reduced
- Obviates unnecessary manufacturing steps, also contributing to cost reduction
- The benchmark for future processing leaving current methods behind

Example - Oranges

Standard manufacturing process:

1 kilo of oranges currently produces about 750ml of 'fresh' orange juice and a whole lot of waste material - skins, pips and pulp.

With Dynamic Cellular Disruption and the Disruptors:



1 kilo of oranges - no waste - **add 7 litres** of water to reach same consistency as the standard process.

Example - Butternut

Typically one of the most cost intensive materials to process, often requiring manual intervention with high wastage, DCD is able to process the entire vegetable - skin, seeds and flesh - and therefore add back to the bottom line while saving time and increasing the nutritional bio-availability and significantly reducing carbon footprints.

DCD Wine production leads a world revolution



Example - Wine

With DCD and the Disruptors, natural wine is produced using all of the grape including the stalks. The material is reduced to a molecular level and trials have shown that the emulsion processes through alcohol fermentation and malolactic fermentation without inoculation. The total acidity is naturally high, colour infusion is instant (in red wine). Tartaric extraction as a viable by-product from the remaining micronised insoluble fibres is far easier and more cost effective.

Disruptor machine specifications

Disruptor Series	Input (Lt/Hr)	Output (lt/Hr)	Power (Kw)	Dimensions (m)	Weight (Tons)
Disruptor 2000 D2	1270	1270	55	4160x1072x2116	2.3
Disruptor 4000 D4	2542	2542	110	4160X1252x2608	3.5
Disruptor 6000 D6	3811	3811	165	4160x1382x3100	4.8
Disruptor 8000 D8	5082	5082	220	4160x1532x3592	6.6

Food waste - minimised to maximum advantage

Green Cell Technologies through the use of its Disruptor technology, is changing the way the food processing industry looks at its manufacturing. With DCD, the industry can take charge of its wasteful ways by processing whole fruit and vegetables upfront. It can also take existing waste, such as peels and discards, re-process it and extract goodness and therefore contribute meaningfully to reducing global hunger and redressing the deficiency in nutrition. All the while, its cost effective methods are increasing bottom line value through the value chain.

Introducing Disruptor technology to your food factory/manufacturing plant is simple and extremely affordable. Installation is done by our team of professionals including on the job instruction.

See a recent Op-Ed: Weapons of Mass Disruption - waging war on food waste on our website.

To find out how you can be part of the new food revolution **contact:**

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