

# SENTREX™

## SYSTEMS MANUFACTURING

### Sprouted Grain Activation Tank

**Opening the door to the future of sprouted seeds & grains,  
forever changing the Health, Wellness, & Nutrition Markets!**



## Trends in Sprouted Grains

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Sprouted grains are tapping into **consumers' desire for 'good' carbs and healthier snacks.**

**Alternative flours are on the rise** for some time now and are ripe to hit peak trend status, bakers are becoming increasingly adventurous in a world full of unique flour options.

The growing curiosity for healthy or allergy free substitutes has caused **a shift toward plant-based baking**, using butter and egg substitutes to create so-good-you-can't-tell-the-difference treats for even the most discerning bakers.

**Americans have continued to adopt chickpea-based products** in many forms. The experimentation happening now is the springboard for future chickpea-based trends



## Benefits of Sprouted Grains

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Sprouted grains may be better for people who are sensitive to digesting grains, as **the germinating process breaks down some the starch**, which also boosts nutrients.

Sprouted grain flours **undergo biochemical changes as a new plant starts to emerge from the seed**. Enzymes are released that break down components creating a powerful boost to nutrition.

Sprouting also **yields grains that are nutritionally superior than their non-germinated counterpart**. For example, nutrient-binding phytic acids, often found in bran, are reduced during sprouting, thus making nutrients available for absorption.

Breads typically made with whole wheat flour exhibited **a 50% increase in dough stability, a 10% decrease in proof time and an 8-to-12% increase in loaf volume**.

# The Sprouted Grain Industry



- Sprouted Grain Breads
- Functional Food
- Snack Foods
- Salad Toppers
- Sprouted Nuts



# Our equipment can sprout

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Grains that can be sprouted include **any viable seed, such as alfalfa, clover, corn, whole-grain wheat, barley, rye, millet, rice, and oats**. The plant starch, vitamins, and minerals become more available to the plant through the sprouting process.

## Examples of Sproutable Seeds

Wheat	Barley	Buckwheat
Quinoa	Chia	Flax
Spelt	Kamut	Pea's
Chickpea	Lentil	Pumpkin



# Sprouted Grain Activation Tank

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## Standard Features

- 304 stainless steel frame
- Available tank in 304 stainless steel or polyethylene plastic
- Water tempering
- Automatic addition of chemicals
- Versatile programmable controls
- Automatic skimmer to remove debris
- Easy access bottom release of seed

## Optional Features

- Stairs or conveyor belt to load seed into hopper.
- Automatic release of specified amounts of soaked seed, for even distribution into growing containers.
- CIP cleaning system
- Available in custom sizes, built to fit your operation.

**Large Sprouted Grain Activation Tank** has a 1,700 gallon (6400 liter) capacity, and will sanitize and soak up to 4,000 lbs. (1,818 kg) of seed.

**Small Sprouted Grain Activation Tank** has a 500 gallon (1892 liter) capacity, will sanitize and soak up to 1200 lbs. (545 kg) of seed.



**250**   
FACILITIES BUILT

**60**   
Countries  
using our technology

**46887**   
Liters of water we save  
per ton we grow vs traditional agriculture

 **150 to 300**  
times higher yield  
vs  
traditional agriculture

 **900%** Yield  
**Zero** waste

**2-7 Days**   
from seed to plate

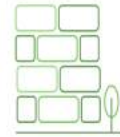
# Principles We Apply



EFFICIENCY



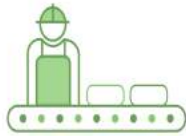
WATER SAVING



SPACE OPTIMIZATION



CLIMATE CONTROLLED



UNIFORMED PRODUCTION



RISK-FREE



900% YIELD



ZERO WASTE



GMO FREE



NO PESTICIDES NO HERBICIDES



CERTIFIED ORGANIC STANDARDS



Together, planting sprouts for a healthier future.



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