

Agenda

What are artisan breads?

Upscaling to industry





Through the Eyes of the Consumer

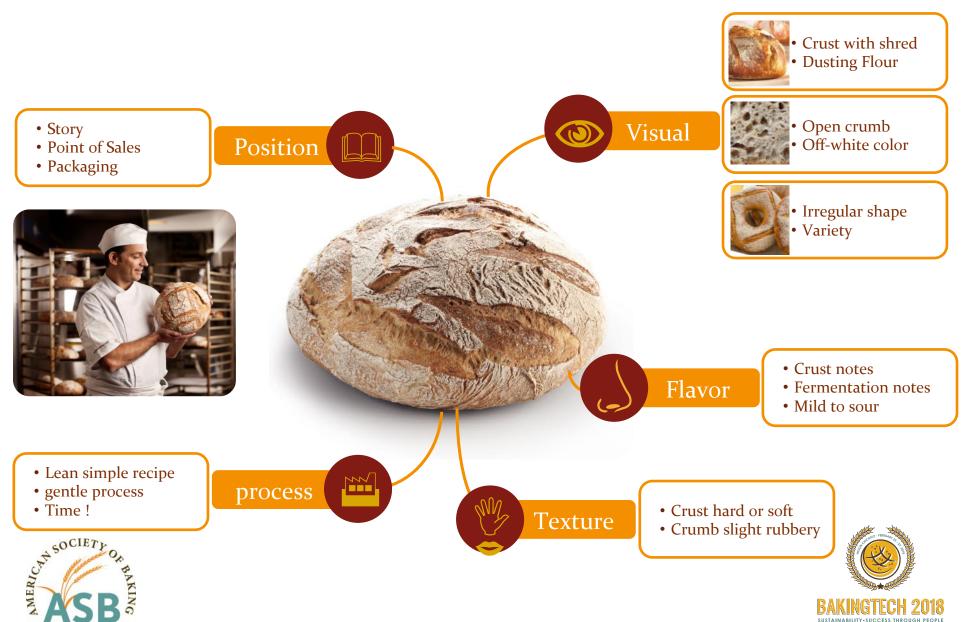






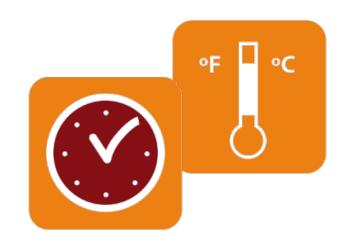


Artisan Breads for the Professional



PRODUCTS AND PRODUCTIVITY

Fundamentals of Artisan Baking













From Artisan to Industry?







Hurdles & Solutions





Hurdles to Overcome







High Speed Bread & Bun Line ⇔ Artisan

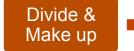






1h 30'







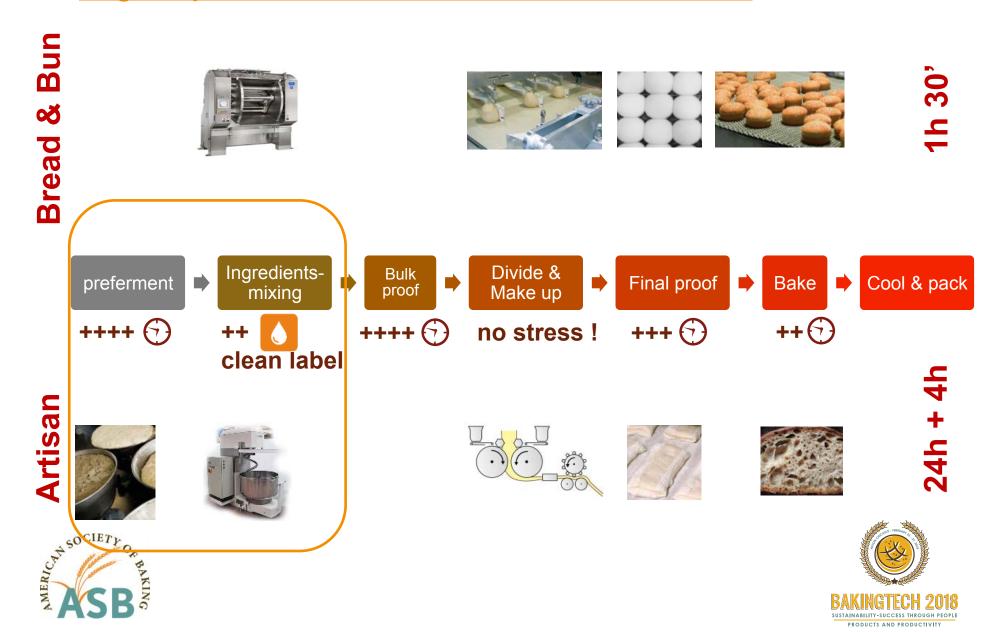








High Speed Bread & Bun Line Artisan



Why use Preferments?

Bio-chemical

Leavening Acidification



Rheological

Extensibility Machinability



Nutrition

Eg GI lowering Starch digestibility



Finished Bread

Holistic health Diversity / tradition





Families of Preferments

Mixture of flour, water and commercial baker's yeast (Saccharomyces cerevisiae)

Fermented for **2-12 hours**

Sponge - flour brew – poolish - biga

Mixture of flour, water and Lactic Acid Bacteria (LAB) & wild yeasts

Fermented for >12 hours

Sourdough – starter – sour – levain – masa madre...





Make Your Own Sourdough?

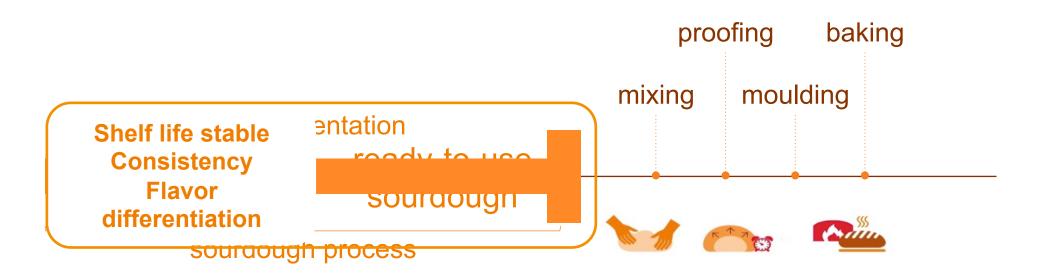








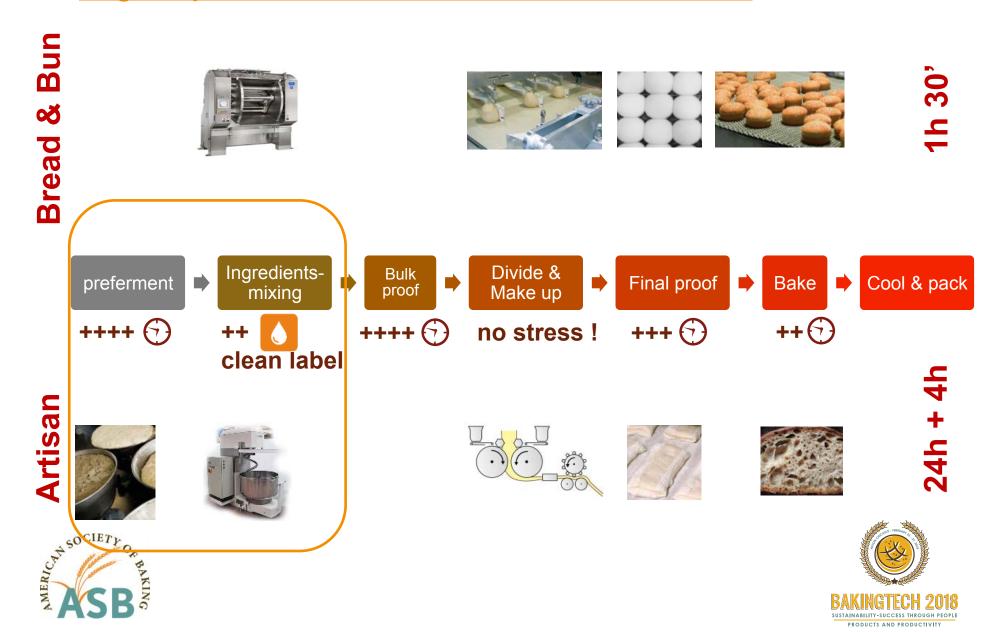
Or Buy as Ingredient?







High Speed Bread & Bun Line Artisan



Ingredients

Trends













Ingredients

Basic Ingredients









High hydration : > 65%



or

Ready-touse sourdough







Ingredients

Functional Ingredients



Tolerance

Freshness & Moistness

Mold Control

Clean label or organic dough conditioners

Freshness enzymes
Correct packaging

Fermented wheat Clean room Pasteurisation





Mixing

Critical: dough development with maximum water



- Mixer design to incorporate more water
 - High Hydration Mixers
 - Continuous Hydration
 Mixing Technology
 - ...



- Process
 - Autolysis: 20-60 min
 - Bassinage









High Speed Bread & Bun Line ⇔ Artisan

Bun **Bread &** Divide & Ingredients-Bulk preferment Final proof Cool & pack Bake mixing proof Make up ++++ +++ ++(7) ++++ no stress! clean label Artisan WERI ON THE SOCIETY OF THE SOCIETY O

SUSTAINABILITY-SUCCESS THROUGH PEOPLE PRODUCTS AND PRODUCTIVITY

Bulk Fermentation

- Minimum 45 minutes (mostly 1-2h')
- Temperature control
- Why important?
 - Open crumb
 - Rubbery cohesive texture
 - Flavor





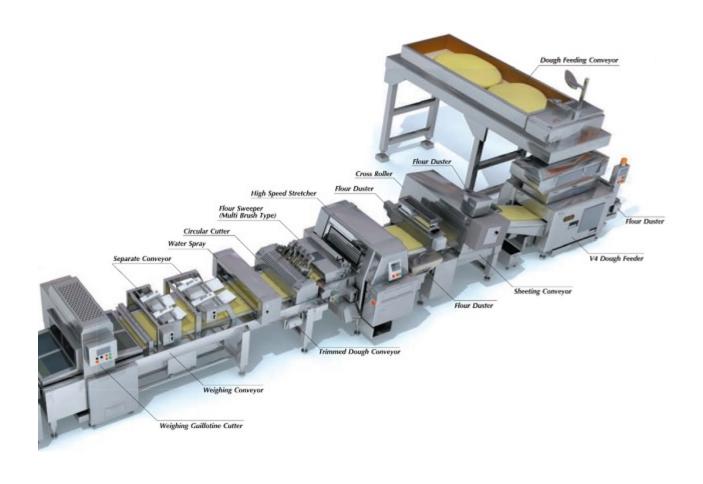




Dividing & Make-up



Solution: Stress-free Lamination Lines









Dough Extrusion



Multi Roller



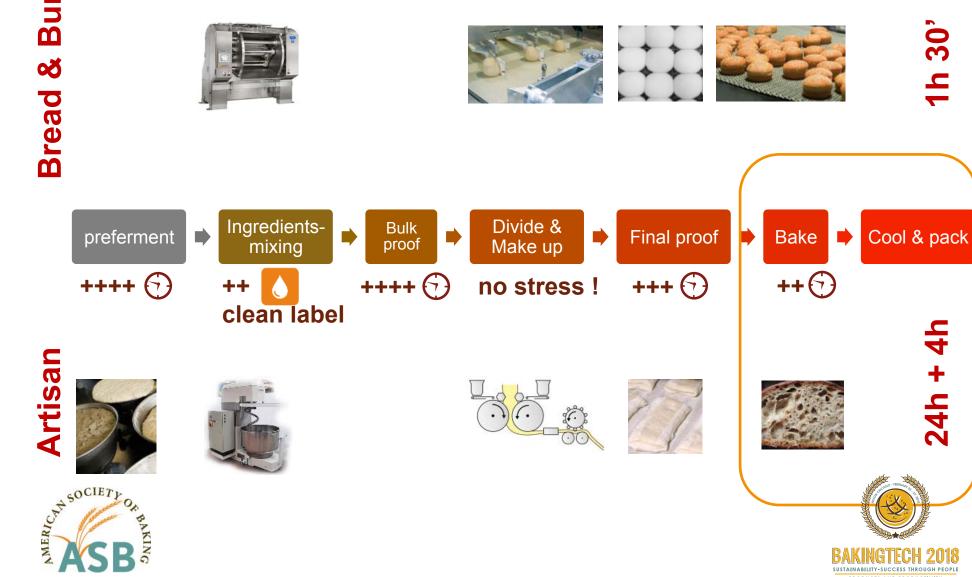
Cutting

Final Make-up





High Speed Bread & Bun Line ⇔ Artisan



PRODUCTS AND PRODUCTIVITY

Baking

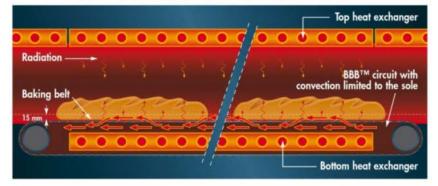
- Type
 - Crust: Thick or soft / thin
 - Parbaked: White or fully colored



- Create ideal heat transfer
 - Bottom heat



BAKING CONCEPT OF ONE OVEN DECK

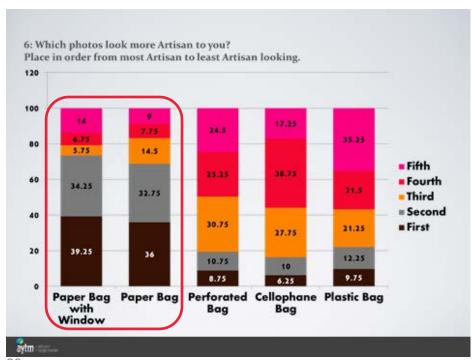






Selling & Road to Market – Many Options

- Fresh, Frozen or Packed Ambient
- Parbaked or Thaw & Serve
- Packaging
 - Paper (+window) prefered by consumers





Can artisan bread & industrial production go hand in hand?

