



CONTINUOUS EXTRACTION PLANTS

CONTINUOUS EXTRACTION PLANTS — TECHNOLOGY

TEC Square engineers have extensive experience in continuous extraction technology. We have used these techniques for soy milk and cold brew plants. Our technology provides a quality solution, to get more out of the raw material. This technology is in general applicable to all kinds of milks from vegetable sources.



SOY MILK EXTRACTION PLANTS — KEY POINTS

A TEC Square soy bean milk plant has a high-yield extraction unit (>70% protein yield) combined with a neutral-taste polisher operation.

Typical products from soy:

- ◆ Tofu (soy bean curd).
- ◆ Plain, flavored or mixed soy milk.
- ◆ Soy yogurt, soy drinking yogurt or soy Ice cream.
- ◆ Sweet Condensed Creamer (SMP or Dairy substitute).
- ◆ Soy milk powders.

COLD BREW EXTRACTION PLANTS — KEY POINTS

A TEC Square Cold Brew Extraction Plant Has a high yield with a relative short residence time, guaranteeing low temperature operation at all times.

SPECIFICATIONS AND ADVANTAGES

	TEC Square Continuous Extraction Technology	Advantages
Operation	Continuous operation for more than 48 hours is possible.	<ul style="list-style-type: none"> ◆ Low operation cost. ◆ Low solids losses.
Aroma / Taste	Our technology provides solutions to remove the unwanted taste profile if needed. This so-called "Beany Taste", as it often presents itself in soy bean extraction, can be removed partially or in most cases almost totally.	<ul style="list-style-type: none"> ◆ Higher customer appreciation of the product. ◆ Wider customer segment.
Yield	Our extraction plant delivers high yield solutions as we apply washing techniques Also our plants can be equipped with high temperature operation if desired	<ul style="list-style-type: none"> ◆ High yield gives a better return on investment.
Time	Extraction times can be reduced as our extraction technology is not only based on time.	<ul style="list-style-type: none"> ◆ Less storage equipment ◆ Smaller footprint ◆ Less investment
Versatility	Our extraction plants can handle a variety of products. We are able to process other vegetable varieties, e.g. <ul style="list-style-type: none"> ◆ Oat, Barley, Flax ◆ Rice ◆ Nuts 	<ul style="list-style-type: none"> ◆ Having 1 plant for several Vegan milk varieties gives a higher investment efficiency.
Automation	The plant can be fully automatic.	<ul style="list-style-type: none"> ◆ Low cost options are available as well.
CIP	CIP can be fully integrated. Automatic solutions are possible as well.	<ul style="list-style-type: none"> ◆ Time saving.

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