

# TCA Zhucheng Xinxudong Machinery Co.,Ltd

*Professional food industry equipment supplier*

## Quotation for 100Kg/h Tunnel quick-freezing machine

*---John Guo*



合作区域  
Peration Areas  
FRONTECH BRAKE

## Company Profile

**TCA** Zhucheng Xinxudong Machinery CO.,Ltd is a professional global supplier of food industry equipment. We focus on manufacturing and sales of food industry equipment including equipment of **leisure food, French fries, potato chips, puffed food, meat food, cake baking, vegetable processing, corn processing.** We provide a complete production line to our customers. Our products have been certified by CE and ISO9000(1)

-2000 international quality management system certification, and in accordance with the QS standard food enterprises. After many years of efforts and

innovation, "TCA" brand food equipment has been exported to Russia, Canada, Australia, USA, Britain, France, Spain, Malaysia, Thailand, Indonesia, Vietnam, Saudi Arabia, Brazil, Philippines, Algeria, Egypt, South Africa and other 80 countries, enjoy a high reputation in the same industry.



# 1. Introduction

## 1.1 Purpose

This Technical Specification(TSC) refers to describe and define the **100Kg/h tunnel quick-freezing machine**

This document aims to describe the feature and conditions for above mentioned equipment in this documentation.This requirements will be tested at the supplier prior to delivery.

## 1.2 Scope

This technical specification includes the following Equipment:

- The body part of the fluidized quick-freezing machine
- Refrigeration system

# 2. Design Standard

This section describes the relevant requirements that have been setup for the French Fries Production Equipment

## 2.1 Norms and Standards

All equipment and work will be in compliance with the following norms and standards.



## Brief introduction of tunnel quick-freezing machine

Quick-freezing machine is a kind of tunnel structure is relatively simple and efficient quick-frozen device ,suitable for pastry,quick frozen food ,meat and other food.

Simple structure,convenient operation,long service life.

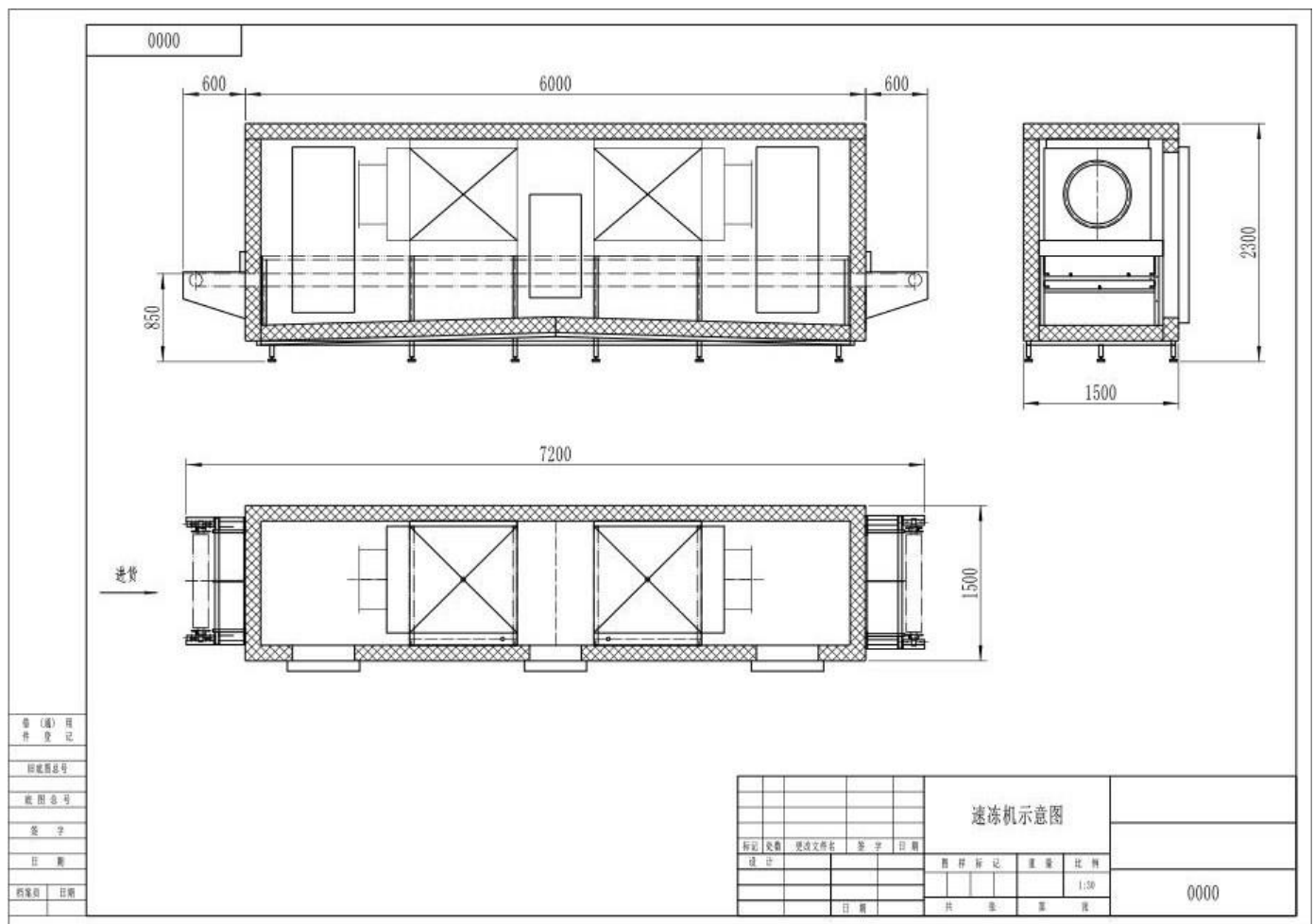
Library board adopts double stainless steel sandwich polyurethane insulation board,insulation performance is good,internal components using high-quality stainless steel SUS304,easy cleaning,HACCP requirements.

Stainless steel mesh belt,the surface smooth,easy to clean.

Using water frost,ensure clean sanitation.

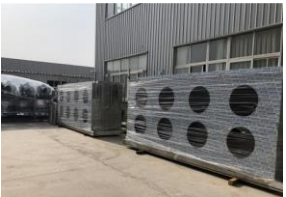

Inverter control to realize infinitely adjustable-speed,frozen goods frozen time is adjustable,can be applied to a variety of processing of frozen goods.

## Design layout(for reference)



### 3. Equipment Unit Specification

ID	Name	Specification	Image for reference
3.1	The body part of the fluidized quick-freezing machine	<ul style="list-style-type: none"> <li>-Model:SD-100</li> <li>-Power:3kw</li> <li>-Incoming/Outgoing temperature:+15/-18°C</li> <li>-Freezing room temperature:-35°C</li> <li>-In/out time:10-50min</li> <li>-Defrost pipeline:φ42×2mm</li> <li>-Belt width:1000mm</li> <li>-Refrigeration:R404A</li> <li>-Inlet water pressure:≥2.5kg/m<sup>2</sup></li> <li>-Cargo height:≤100mm</li> <li>-Import/Export Column Length:600/600mm</li> <li>-Capacity: about 100kg/h</li> <li>-Size:7200×1500×2300mm</li> <li>-Material:SUS304</li> </ul>	
		<p><b>Door Board Material</b></p> <ul style="list-style-type: none"> <li>-Double-sided stainless steel polyurethane insulation board has a bulk density of ≥40kg/m<sup>3</sup>, a thickness of 150mm, and the thickness of the 304 stainless steel outer plate is 0.8mm and more than 0.5mm</li> <li>-The warehouse door is double-sealed;</li> <li>-Equipped with a 36V safety electric heater.</li> </ul>	
		<p><b>Belt</b></p> <ul style="list-style-type: none"> <li>-Food grade 304 stainless steel large roller chain conveyor belt.</li> <li>-Belt speed adjustable.</li> <li>-Stainless steel mesh belt center distance 1100mm, mesh wire diameter 1.5mm, pitch 4mm, string wire is 2 mm, string rod is 8 mm, material is SUS304.</li> </ul>	
		<p><b>The evaporator and fan</b></p> <ul style="list-style-type: none"> <li>-Big size aluminum tubes and aluminum fin to ensure defrost evenly and pre long the defrost time.</li> <li>-With high efficiently fans to blow the evaporator to supply the cold source for food.</li> <li>-The fan is Moisture proof waterproof type for long time using in quick freezer.</li> </ul>	

			
		<p><b>Control system</b>                  -Main electrical element brands: SCHNEIDER,SIEMENS,OMRON.....                  -Motor:ABB or other famous brand.</p>	
<p>3.2</p>	<p>Refrigeration system</p>	<p><b>Function:</b>Used together with the quick freezer to provide the cold source for the quick freezer, the unit is the German BITZER unit.</p> <ul style="list-style-type: none"> <li>-Compressor information: <b>BSFHBS-30</b></li> <li>-Compressor brand: Bitzer (Germany)</li> <li>-Quick-freezing starting power 34.5kw</li> <li>-Quick-freezing operating power 20.5kw</li> <li>-Complete set of chiller, effective 15m connecting pipe, chilled water system valve and quick freezer connection.</li> <li>-Refrigeration valve: Danfoss, Castel, ALCO, FSK...</li> <li>-Excludes defrost piping and valves which need to be confirmed according to local location.</li> <li>-Does not contain refrigerant and refrigeration oil that are prohibited from exporting. (chemical liquid).</li> <li>-Acceptable refrigerant for refrigeration system: Freon (R404A).</li> </ul>	