

## Instant Coffee Powder production Line

### **DESCRIPTION**

The purpose of this Instant Coffee Powder production Line (Instant coffee powder processing/production machine/equipment/ line) is to make coffee bean into soluble coffee powder through the process of roasting, grinding, extraction, concentrating, spraying drying and so on

### **Features**

Instant Coffee Powder production Line (Instant coffee powder processing/production machine/equipment/ line) is designed to utmost perfection. Excellent construction design and operational ease features of this plant are further enhanced with its smooth and hassle free operations. Now you can perk up your cup of coffee and enhance your enjoyment by preparing the coffee creamer. YIBU supplies total plant on turnkey basis that carries out complete processes ranging from Pre-Processing procures to package for production of instant coffee powder.

The Manufacturing Process Has The Following Steps

- ①Raw coffee beans are delivered to raw material tank by Roots fan after sorting and passing through the vibrating screen.
- ②Raw coffee beans from raw material tank are weighed and Then enter into baking furnace in order to become ripe coffee bean.
- ③Ripe coffee beans are delivered into ripe material vessel through cooling plate screen with hole.
- ④After breaking and weighing, the ripe coffee beans are delivered to extraction pot for extracting.
- ⑤Extraction liquid are conveyed to extraction liquid pot through filtering and cooling.
- ⑥To concentrate the extraction liquid through double efficiency concentrator and then to pump them to concentrated liquid storage pot.
- ⑦To add assistant material to make match material when the concentrated liquid enter into match material pot.
- ⑧After filtering, the well-matched concentrated liquid mixture are pumped into spray dryer fro spray drying by piston pump.(if want to process the soluble granule , it can use fluidizing granulator to do it )
- ⑨ After matching material, to make a inner packing for the Dry power. (For example: packed in small bags or bottles), after this, to pack the small bags or bottles in cartons and then to storage them in warehouse.

## The Whole System Produceduers

The whole production is divided into three procedures :

one is pre-processing procedure, the other is Extraction and Drying process,another is package.

### 1.Pre-processing procedure

Raw coffee bean

↓

Sorting election

↓ (hopper lifting machine)

Screening

↓ (Roots fan)

raw material vessel

↓

Roasting oven

↓

Cooling plate screen with hole

↓

small material vessel

↓

ripe material vessel

↓ (Roots fan)

small material vessel

↓

Breaking

↓

Weighing

↓

Extraction

Extraction and Drying process

Broken ripe coffee bean

↓

Discharge hydronium water→heat exchanger→Piston Pump→Extraction pot→discharge the dregs

↓

Double-line filter

↓

Cooling→cool water, intenerated water→cooler

↓

Storage pot of extraction liquid



Double efficiency film concentrator



Storage pot of concentrated liquid



Change pot



Match material pot



Piston pump



Spray drying

Cooling→cool water→cool air and ice water→↓

Collecting dry powder→ adding sugar and milk fine



Exterior packing



Exterior packing



Exterior packing and



Exterior packing and

Put them into warehouse

put them into warehouse