

Information Regarding the Contract Brewery in Changsha

Brewhouse Size and Fermentation Capacity

Currently the brewery has batch capacity of 10,000 to 15,000-liters. The size of the batch depends on the fermentation vessel, the wort will go in to.

Presently, the brewhouse can run up to 8-batches per day. This depends on volume size and style. As some brews have more steps and involves a longer process.

The price of brewing on the large system starts at 30,000 RMB. The agreed price depends on beer style and volume. Included in this price is also keg filling. The price doesn't include raw materials, however.

Brewing, fermentation and processing time is 20 to 30-days, depending on style. If the maturation time is longer, extra tank residency time is priced at 200 to 500RMB per day, depending on vessel size.

Brewhouse vessels are:

- Cereal cooker
- Mash mixer
- Lauter tun
- Brew kettle
- Whirlpool

Fermentation vessels numbers and volumes are as follows:

Size of Fermentation Vessel (liters)	Number Of Vessels
10,000	8
20,000	4
40,000	1
80,000	3
120,000	4

Please note: 6 x 120,000-liter tanks will be added by the end of the year.

Packaging Lines

The brewery has a bottling and canning line. They are two dedicated filling lines for each pack type. However, they share the same post filling process line:

- Pasteurization tunnel (optional)
- Automatic rejection section
- Date coder
- Labeler
- Automatic packaging into carton (12 and 24-pack cartons)

Canning Line Sizes

There are 3 main sizes:

- 330ml (12,000 cans-per-hour)
- 500ml (9,000 cans-per-hour)



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- Sleek 270ml (12,000 cans-per-hour)

Actual cans which can be used depends on their dimensions and can be discussed with the brewery in more details, if discussions continue.

Bottling Line Sizes

The bottling line runs at an average of 6,000 bottles-per-hour. The main size is 330ml bottles. The bottles which can be used again depends on dimension mostly height. So, can be discussed with the brewery in more details, if discussion continue.

Please note: In August they are adding a new bottling line capable of 15,000 bottles-per-hour.

Cost of filling are:

- 330ml bottles (10,000-liters) – 7,500 RMB
- 500ml cans (10,000-liters) – 6,500 RMB
- 330ml cans (10,000-liters) – 6,500 RMB

*These costs are for normal production with mechanical depalletizing and processing costs without modification of equipment. If there's any accessories or conversion parts needed, this will be billed separately.

Kegging

The brewery can fill both steel and one-way kegs. Typically, the brewery fills 20 or 30-liter kegs. Clients can provide their own steel kegs for filling.

Likewise, clients can buy their own one-way kegs to fill. Assistance with keg buying can be offered by the brewery if needed.

The cost to fill the kegs is included in the price of brewing the beer. So, there's no additional cost to filling kegs.

Beer Processing

The brewery has a DE filter, centrifuge and flash pasteurizer. Price for using this equipment is on a case-by-case basis dependent on volume, style and outputs required.

The centrifuge can process 5,000 liters of beer per hour. The DE filter can process 6 to 8,000-liters of beer per hour. The flash pasteurizer runs at 2,500 liters-per-hour.

The brewery also has the ability to add fruits, purees and other adjuncts. There's also specialized tea making equipment, although this is new equipment and still in the trial phase.

Any extra additions or processes can be discussed. If viable, then pricing will be based on a case-by-case basis too.

Round-Up

That's about it, if you require any more information, please ask and I'll get the answer. To give you an idea of unit pricing. These prices are valid for one-month.

- 1 x 500ml can is 0.6 RMB.
- 1 x box for domestic sales is 1.6 RMB
- 1 x box for export is 2.8 yuan