

Press Release

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Reliable and cost-effective production for Multi-Cavity PET bottles

WEI LI presented WL-MP02-Standard Model

Semi-Automatic PET Reheat Stretch Blow Moulding Machine



Fig1. WL-MP02 Reheat Stretch Blow Moulding Machine

Wei Li's WL-MP02 series is designed for Multi-Cavity medium speed bottle production in linear machine design. The WL-MP02 standard model showed in the exhibition is designed with hourly capacity up to 600~900pcs, capable of producing bottles with body diameter up to 90mm, neck diameter up to 45mm, and maximum bottle volume up to 1.5 litres.

ENERGY SAVING

WL-MP02 series. tailor-made heating lamps built inside the unique-arranged heating zones are catered to condition precise preform heating temperature with excellent heat penetration. This enables minimal energy consumption and significant saving in bottle production in the long-term compared with traditional reheat stretch blow moulding machines. With the open-top design, we can use the natural air flow to cool down and machine, as hot air raise and cool air will sneak in at the bottom of the machine. This design can save the power for ventilation fan and speed up the heating process.

LOW INVESTMENT

The WL-MP02 series is two-stage SBM machine in linear design with user-friendly PLC. Unlike one-stage injection stretch blow moulding machine, the WL-MP02 series is low in investment and flexible for new bottle design development. The productivity & new bottle development cycle are also very promising.

INNOVATIVE MOULD LOCKING SYSTEM

The thing most surprise visitors is the innovative mechanical mould locking system allows the WL-MP02 model to stand with blowing air pressure at 35 bars and still delivers PET bottles with almost seamless parting line. The dual moving platens also enables shorten cycle time and higher productivity, compared with traditional linear machines.

RELIABLE & SIMPLE OPERATION

Visitors on the booth are impressed that major reputable components are widely used in the PX04 model. WEI LI aims to minimize the initial machine investment, and also minimize the operation cost and downtime for bottle manufacturers. By using major German & Japanese pneumatic & electric parts, reliable and stable machine performance can be guaranteed.

HIGH FLEXIBILITY

Client can add additional part to make WL-MP02 series become Fully-Automatic Reheat Stretch Blow Mould Machine, depending on our unique requirement. Also it is capable to produce bottles in PET, PP, PC by just changing the blow mould and blowing parameters.

NEW FEATURES

It is not surprising that most people still can not associate a corn with a clear water bottle in our daily life. Using WEI LI's Two-Stage Reheat Stretch Blow Moulding (SBM) machines, PLA bottles can be blown from PLA performs with perfect neck finish and better strength & excellent transparency.

" We would never dream of packing our water in bottle made of corn! WEI LI was recommended by our business partner as a pioneer of new applications in their reheat stretch blow moulding machine manufacturing. We are very much excited to learn from WEI LI about the idea of packing our precious water in our island in a 100% bio-degradable bottle. We are in the middle of the Central Pacific where plastic waste will be our top priority of concern!" said the owner of a newly invested water factory.



Fig 2. Fresh corn

"WEI LI offers us a very flexible and compact blowing line which best fits our capacity. We had no experience at all in bottle production and packaging line before. Luckily we have found WEI LI as our reliable partner, who not only provides us the most cost-effective solution, but also comprehensive proposal for 100% bio-degradable process for used PLA bottles!" added the new client of WEI LI.

WEI LI also offers turnkey project upon request, from PLA preform design, bottle design, capping, filling to shrink wrap packaging.

PLA is mainly used for thermoforming and injection products, such as, cups, trays, food containers, straw, trash bags, etc. But WEI LI has successfully blown bottles with its reheat stretch blow mould technology using PLA resin. And the outlook & transparency of the PLA bottles are very promising (see enclosed photos) due to its stretching and blowing process.

The usage of PLA material for bottles production is especially raised. There are marketing researches clearly shows that consumers believe that beverages and products packaged in containers made from nature material are fresher and better for health. Brands which sell healthy foods and beverage can consider to change using PLA containers and bottles for their products packaging. It could make a strong point of differentiation with other brand and stand up its selling point.



Fig3. Wheat field

The Nature of PLA

PLA stands for Polylactide, it is mainly made from corn, this is the key why PLA is 100% annually renewable, biodegradable and compostable. PLA is made from lactic acid which is made from dextrose by fermentation. And dextrose is made from cornstarch which is made from carbon dioxide and water.

ENVIRONMENTAL SAVING

It offers more disposal options and showing a significant reduction in greenhouse gas emissions, is more environmentally friendly to manufacture than traditional petroleum based plastics.

PLA is fully compostable and biodegradable. Under common composting conditions, PLA will compost in approximately 30 to 45 days. Composting may take longer in a home composting bin.

PLA will react in landfills like other organic waste such as food, so it is fully compostable in a composting facility. Since PLA is made from a renewable resource (corn) instead of regular plastic that is made from oil.



Fig 4. Fresh corn

COST SAVING

PLA is now a price competitive material compared with PET. Most of the PLA model is less expensive than PET. Moreover, as PLA is not made from oil, its price will not be affected by the frequently fluctuated oil price.



WEI LI in profile

WEI LI has more than 12 years experience in the development of PET/PP reheat stretch blow moulding technology, manufacturing stretch blow moulding machines of the WEI LI brand for PLA, PET, PP, PC, PMMA, PS, SAN bottles with volume ranges from 15ml to 20L. Apart from standard machines for PET bottles, the company's range includes specialized machines for PLA, PP, PC, PMMA, PS, SAN bottles. With production establishments in Foshan, China and a marketing office in Hong Kong, WEI LI is maintaining an effective market presence across the world.

What's coming up

We will be participate in the Chinaplas 2009, the 23rd International Exhibition on Plastics and Rubber Industries which will be held in Guangzhou, China. It is a very historical, large scale and dominant plastics show in China, and we have been part of it for many years. Our booth number for this year is 6.1F21 in Hall 6, we are looking forward to meeting you in there!

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