

RELIABILITY AND EFFICIENCY, KEY FACTORS FOR ZAMBELLI



Zambelli Srl was founded in 1969 as a company to manufacture packaging machines in the mechanical deep-rooted tradition of the city of Bologna, famous worldwide as “Packaging Valley”. In a few years the success of the technological solutions adopted has crossed the Italian borders and created a customer base of international renown.

Zambelli today range of machines is composed by:

- › shrinkwrapping machines
- › tray-packers
- › cartoners
- › case packers
- › pick & place and robotized palletizer .

The beverage industry has always

been the primary market for Zambelli.

Since the introduction of the PET bottles, beverage volumes have dramatically increased along with new designs of light weight bottles, with reliability and efficiency of the machines becoming a must for every successful bottler .

Zambelli took up eagerly this challenge since its machine design was developed to measure up to the expectations of operators and maintenance personnel who test reliability and efficiency every day and ultimately make the success of a piece of machinery and a manufacturer.

Zambelli have followed this efficiency-seeking approach with its

LFT series of Tray-Packers/Shrink-wrappers starting from the engineering of the frame, featuring a cantilever design that allows the operator total control of and accessibility to all areas of the machine. The frame is also designed so that all the parts that need lubrication are gathered in the back side of the machine. This hygienic design maintains separation between the lubricated parts and the parts in contact with the bottles.

In addition to these benefits built in the frame itself of the LFT series of Tray-packers/Shrink-wrapping machine, Zambelli has also given its machines features that allow following advantages:

- › reduced change over time



- › “user friendly” approach
- › reduced machine footprint
- › reduced maintenance costs
- › higher production efficiency
- › better quality of the shrunk packs

All these advantages have been obtained through up-to-date technological solutions to operate and control the machine cycle but also thanks to the Zambelli design with less moving parts hence less wear and adjustments, an extensive field testing and the standardization of functional groups on several machine models to extend to a wide range of machines the benefits in

terms of reliability and efficiency brought by every innovation. Examples of this development are:

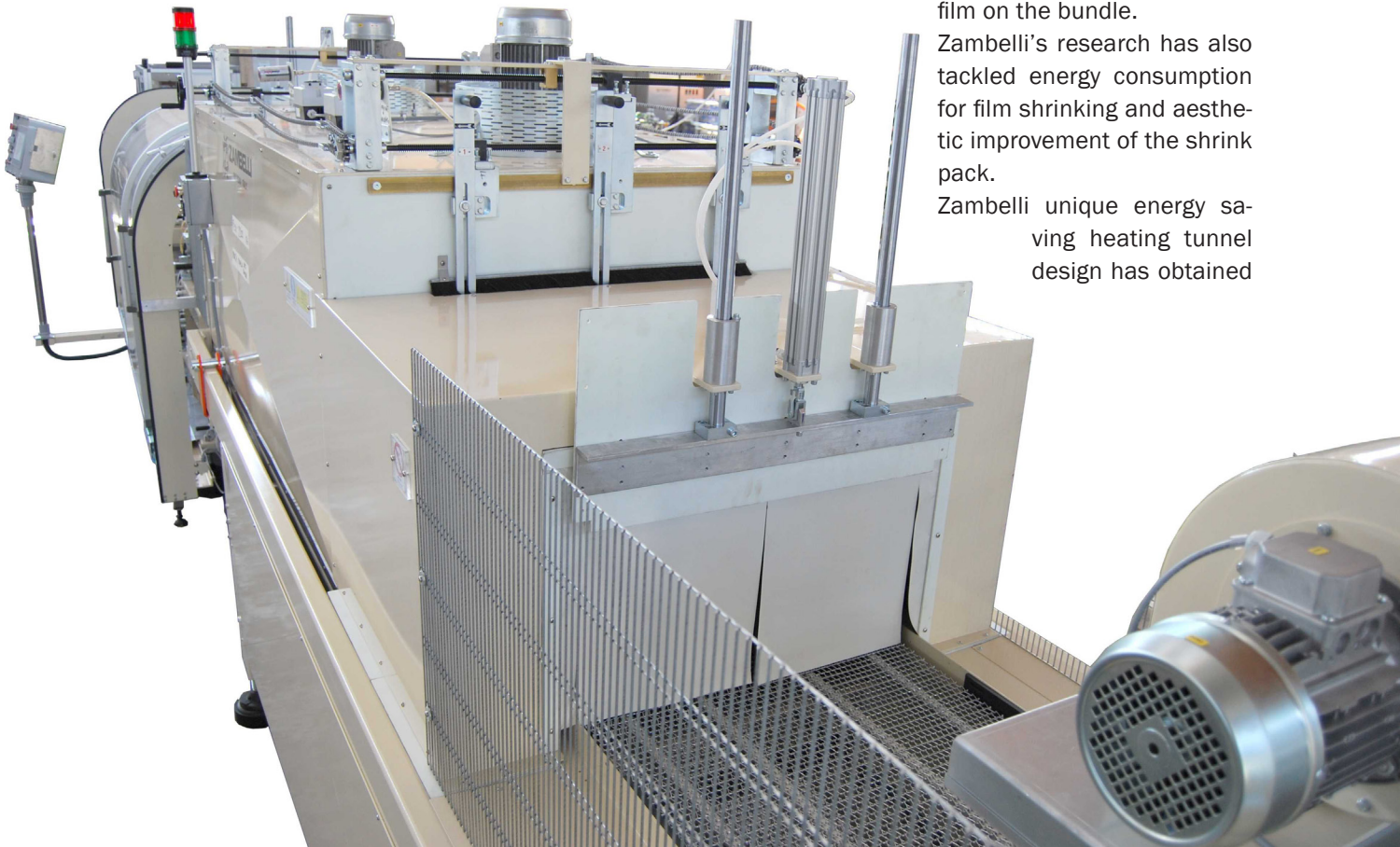
- › bottle separation system which allows to pack bottles of any format and diameter on the same machine while maintaining optimal performance conditions.
- › wrapping bar assembly without drive chains. This group has no part subject to lubrication or wear, total accessibility, operation with no resistance and can be immediately reset in case of an e-stop.
- › tunnel metal mesh belt without side drive chains; the removal of

these chains that are highly sensitive to the cyclic heating and cooling through the tunnel has reduced to zero the maintenance of all the tunnel. The stretching of the mesh belt is in fact automatically compensated for by a counter weight assembly.

- › powered servo driven film unwinding system preventing any film stretching when pulled from the roll
- › allows a dramatic reduction of the film thickness with significant material savings for the end user. Furthermore the absence of stretching of the film increases the accuracy of the centering of the printed film on the bundle.

Zambelli’s research has also tackled energy consumption for film shrinking and aesthetic improvement of the shrink pack.

Zambelli unique energy saving heating tunnel design has obtained



perfectly shaped packs without wrinkles by a tunnel of reduced length hence reducing thermal waste and machine footprint.

Zambelli "user friendly" technology with less moving parts in the machine has a dramatic impact on reducing time needed for installation and commissioning, training customer's personnel and carry out scheduled maintenance. All together these features reduce the machine's total cost of ownership (TCO) that is the ultimate customer's goal.

These are only some of the innovative features shared by all the Zambelli LFT series Tray-packers and Shrink-wrapping machines, throughout the widest range of capacity available from 15 up to 150 cycles per minute and capable of running product in film only, pad + film or tray+film style. Zambelli certainly have the right machine to help you driving down your production costs!

An example of performance and good results of the LFT series is the recent Zambelli machines installed by Eko-Vit, Poland and by Drogheria & Alimentari Spa, Italy

Zambelli has installed at Eko-Vit Poland a perfect example of their design philosophy: the Zambelli LFT70/V Tray-packer/Shrink-wrapper running at 70 cycles per minute fed with cans -150ml, 250ml, 296ml, 330ml, 355ml, 500ml and glass bottles 275ml and 300ml.

Great flexibility with so different product formats handled on the same machine!

The Zambelli in-feed conveyor is purposely designed to allow quick change over just by sliding side guides with preset positions for the three different formats that can be fed to the machine (hi-cones, multipacks and loose cans).

The Zambelli LFT70/V Tray-packer/Shrink-wrapper is pre-arranged to produce also pad+film or film only,

a great feature to respond to future requests from the market.

The machine cycle is controlled by Siemens PLC and a 15" touch-screen PC allows the operator to easily monitor all the phases of the machine working cycle thanks to a graphic diagnostic system.

The Zambelli LFT 20s installed by Drogheria & Alimentari Spa, Italy, equipped with a Toshiba Scara robot is a further example of great flexibility offered by the LFT series. Plastic or glass jars ranging from round to bulge to taper are packed in 6 packs, with shrink film unsupported, tray+film or in a full wrap-around case. Three different packages available on the same machine with the robot loading the jars into the machine for packing with virtually no change over.

Zambelli is happy to welcome customers at the Drinktec Munich Stand no. 335-A6 and at the Las Vegas Pack Expo '13 stand S-6214. 🏠



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