



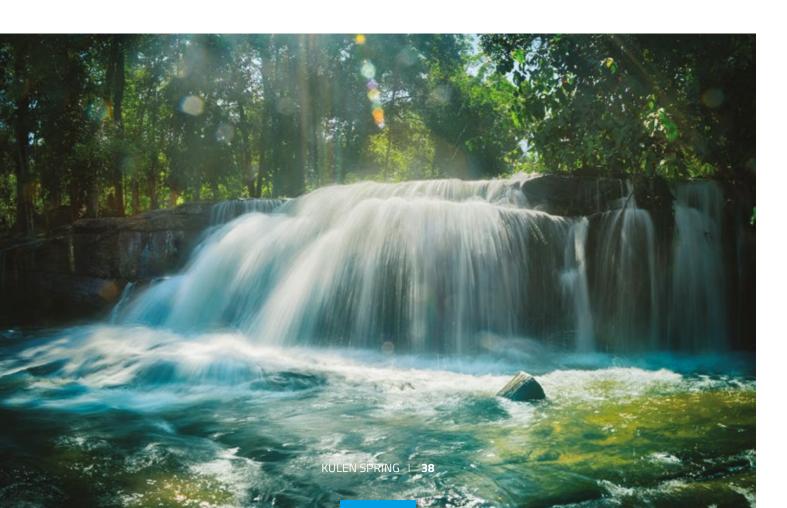
KULEN SPRING

AND ENVIRONMENTAL PROTECTION

TO MAINTAIN HIGH LEVELS OF HYGIENE, QUALITY AND PURITY, THE SIEM REAP COMPANY (THE SECOND, MOST POPULOUS, URBAN AREA IN CAMBODIA) ADOPTS STATE-OF-THE-ART PRODUCTION SYSTEMS. ABLE TO MATCH EUROPEAN QUALITY STANDARDS; AMONG THE MOST RECENT INVESTMENTS IN NEW TECHNOLOGIES IS THE NEW 31,800 BOTTLES/HOUR PLANT SUPPLIED BY SMI FOR BOTTLING AND PACKAGING ELAN WATER IN PET CONTAINERS, WHICH INCLUDES A BLOWING, FILLING AND CAPPING SYSTEM OF THE ECOBLOC® ERGON RANGE. A WRAP-AROUND CASE PACKER OF THE LWP ERGON RANGE, AN APS ERGON AUTOMATIC PALLETISING SYSTEM AND ALL THE CONVEYORS FOR HANDLING BOTTLES AND PACKAGES.

surrounding because preserving the planet is an act of respect for a precious and essential raw material such as water. The attention to the environment pushes the Cambodian company to continuous investments in

activities dedicated to the care of plants and forests and the territory from which the water, marketed under the Elan and Eragold brands, comes. In addition, the Kulen Springs' production facilities, use only energy from renewable sources, such as that produced by the recently installed solar panel system, that made the company the first industrial reality in the country powered by solar, green energy. As a further demonstration of the attention to quality, well-being and respect for the environment. within its production facilities Kulen Spring also uses sophisticated analysis equipment, that allows microbial tests to be performed to measure the exact pH level of the water and preserve the properties that are good



ELAN: THE PROPERTIES OF WATER THAT COMES FROM THE SACRED MOUNTAINS OF CAMBODIA

he human body has a pH between 7.2 and 7.3. When the pH level drops below 7.0, the body becomes acidic, especially in individuals who follow a poor diet. For these reasons, regularly drinking natural mineral water with a high pH level, such as Elan water (pH of 8.2), helps humans keep their body healthy and alkaline and reduce body acids.

Elan water, which originates from the springs of Mount Phnom Kulen at 496 meters above sea level, benefits from the healthy properties of the pristine land of Kulen National Park, a protected area with low population density and thriving agricultural activities.

The attention of Kulen Spring Co. Ltd. towards the surrounding environment ,has also led to the launch of a reforestation program of the area, in order to protect the source from any form of external pollution.

Water under the Elan brand is rich in natural minerals, thanks to its unique mineralisation

process, ensured by the slow filtration of rainwater, through several hundred meters of sandstone; This process enriches the water with valuable minerals such as potassium, magnesium, calcium and many other nutrients, which are good for bone growth, blood circulation and the heart of people of all ages.

Thanks to these characteristics, the consumption of Elan water has spread more and more in Cambodia, and has made it necessary to increase the production capacities of the Banteay Srei District plant, in the province of Siem Reap, which is located near the archaeological site of Angkor Wat and the Kulen National Park.

The new investment in advanced technologies provided by SMI, has enabled Kulen Spring to automate the entire bottling and packaging process of the 0.5 L and 1.5 L PET bottle line, which can now produce almost 32.000 bottles/hour.







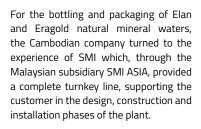


SMI SOLUTIONS



FOR KULEN SPRING









The proposed solution includes an integrated system of the ECOBLOC® ERGON range for stretch-blow moulding, filling and capping operations of PET bottles combined with a wrap-around case packer for secondary packaging of the LWP ERGON range and an APS ERGON palletiser.

















> INTEGRATED SYSTEM ECOBLOC® ERGON 16-48-18 E EV

Functions: stretch-blowing, filling and capping of 0.5 L and 1.5 L PET bottles of flat water with a production capacity of up to 31,800 bottles/hour (0.5L format)

Key benefits

- The operations of stretch-blow moulding, filling and capping of PET bottles are grouped in a single block and therefore does not require the rinsing machine and the airveyors between the blow moulding machine and the filler.
- Compact and flexible solution.
- Reduced energy consumption of the blow moulding machine, thanks to the preform heating
 module that mounts energy-efficient IR lamps and the stretch-blow moulding module equipped
 with a two-stage air recovery system, which reduces energy costs related to the production of
 compressed air at high pressure.

LWP 30 ERGON CASE PACKER

Containers worked: 0.5 L and 1.5 L bottles in PET.

Packs created: the loose 0.5 L bottles are packed in corrugated cardboard wrap-around boxes in 4x6 formats, while 1.5 L bottles in boxes in a 3x4 format.

Kev henefits

- Packaging process with wrap-around system equipped with a mechanical product grouping device, which offers the advantage of forming the cardboard box around the bottles in transit without making machine stops.
- Ideal solution to obtain impact-resistant packaging, able to protect the product during transport.
- Possibility to graphically customize the cardboard box to capture the attention of the consumer,
 offering the user of the plant more opportunities for marketing and product promotion.

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AUTOMATIC PALLETISING SYSTEM APS 1570 ERGON

Packs worked: wrap-around boxes of 0.5 L bottles in the 4x6 format and 1.5 L bottles in the 3x4 format, coming from the LWP 30 case packer.

Pallets created: 1100X1180 mm

Key benefits

- Single-column system with two Cartesian axes, extremely flexible and easily adaptable to the logistical conditions of the end-of-line area.
- System suitable for palletising boxes, bundles, trays and packs in general, consisting of different modules that can be configured individually according to palletizing needs.
- Reduced maintenance costs and low energy consumption, thanks to the mechanical simplicity of the machine and the use of robotics.
- Extremely simple automation and management control; Thanks to the intuitive human-machine interface, even the novice operator can efficiently manage all end-of-line palletizing operations.

CONVEYORS

Function: transport of blown PET bottles leaving the ECOBLOC® ERGON integrated system; incoming and outgoing handling to/from the LWP ERGON case packer; handling boxes at the entrance to the APS ERGON palletiser.

- The loose product conveyors installed at the Kulen Spring plant, ensure smooth and constant handling of the loose containers at the infeed of the LWP 30 and of the packs on the outfeed.
- Easy to use by the operator during the production cycle.
- Semplified maintenance operations.
- The modular structure and the high compatibility with other systems allow installation, start-up and testing operations to be carried out in an extremely simple way.
- Use of high-quality components and wear-resistant materials, which reduce friction and noise, preserving the quality of the transported
- Reduced format changeover times for quick switching from one
- High reliability of the system, thanks to the AISI 304 stainless steel structure and components.









and objects of all kinds. Siem Reap is the starting point for sightseeing excursions to the archaeological site of ancient Angkor and the natural beauty of Phnom Kulen National Park, which tourists can easily reach by landing at the city's international airport. **→** DID YOU KNOW THAT... • The country's tradition is that Cambodia

THE CITY OF SIEM REAP

- changes its name every time a new government takes office; this is why today we speak of the "Kingdom of Cambodia".
- The Temple of Angkor Wat is the largest religious complex ever built.
- Cambodian is a figurative language and is expressed through concepts; For example, there is no term "milk", but it speaks of "liquid that comes out of cows".
- A lot of watches are sold in the markets; this is related to the psychological torture

- of the cancelling of time, practiced during the more than three years of dictatorship of the Pol Pot regime (1976-1979).
- The head is the most important part of the body, while the feet the most impure; It is disrespectful to touch an adult's head or turn your feet towards another person.
- The Phnom Kulen waterfall makes a brief appearance in the film "Lara Croft: Tomb Raider", in which the protagonist, after escaping from the living statues of the Ta Prohm temple, runs to the top of the waterfall (which is actually more than 40 km away) and throws herself into the mirror of water below.





ARE ONLY THE RUINS OF ITS WONDERFUL TEMPLES, TRUE MASTERPIECES OF KHMER ARCHITECTURE, EMBELLISHED WITH BEAUTIFUL BAS-RELIEFS CARVED WITH TRADITIONAL HINDU SCENES.

DURING MEDIEVAL TIMES, ANGKOR WAS THE LARGEST CITY IN THE WORLD, ALTHOUGH TODAY WHAT REMAINS