

# FRUIT PROCESSING



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Cans

Enzymatic Treatment

High Pressure Processing

Hygienic Design

Market Price Report

Packaging Systems

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## The art of drainage and compaction



### HIGH PRESSURE PROCESSING

**HPP – A clean process, no heat, no chemicals = fresh products . . . . . 222**

The HPP process operates at a pressure of up to 6000 bar. This is equivalent to the weight of 7200 water boxes stacked on an apple, which equals the height of three times the highest building on earth. The process involves homogeneously surrounding the product, and its container, such as a plastic bottle or pouch, with water. There are no resultant shear forces, meaning that the plastic bottle and the product inside are not damaged, but are gently compressed from all sides. The process itself is simple: the juice is filled into a bottle, which is closed and sealed. The bottle is then placed in a process basket which is loaded into the high-pressure vessel. The vessel is filled with potable water and the pressure is increased to 6000 bar. This pressure is transferred from the water through the bottle into the product. With a dwell time of 180 seconds, such high pressure damages the cell membranes of bacteria and pathogens, inactivating the germs and resulting in a longer shelf life of the product. Parameters such as ...



### ENZYMATIC TREATMENT

**Exploring enzymes: meeting consumer needs in fruit juices and flavoured waters . . . . . 228**

With more and more people re-evaluating their dietary habits – particularly their consumption of excess sugar – healthy fruit and vegetable juices, such as apple and pear, remain a popular choice for today’s consumers. A diet essential, more than eight in ten European adults drink fruit juice, juice drinks, smoothies, coconut water or vegetable juice, according to Mintel research. Fruit and vegetable flavoured water is also gaining popularity among health-conscious consumers making the switch from sugary drinks and seeking vitamin-rich options that support health concerns such as immunity – a trend that has been accelerated by the global pandemic ...

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**CANS**

**Growing can market: Coca-Cola European Partners invests in two KHS lines . . . . . 232**

For years KHS has been a reliable partner for can filling and packaging to the biggest beverage factory in Europe, situated in Wakefield in Great Britain. At the start of the corona crisis the Coca-Cola bottler again benefitted from the quality of the companies' cooperation and KHS technology. At the end of the 19th century the city of Wakefield in the north of England developed into a hub of the British industrial revolution. Once one of the country's major suppliers of barley and malt, wool spinning mills, brickyards and engineering works with strong links to the rapidly growing mining industry now became established. Among the local businesses were several breweries, meaning that the city today can look back on a certain tradition in the production of beverages. This has now been revived ...



**PACKAGING SYSTEMS**

**Schütz Green Layer – UN-approved IBCs and plastic drums made with high quality recycle . . . . . 236**

As a pioneer of the circular economy in industrial packaging, Schütz has for decades been setting standards in the conservation of natural resources by saving, reusing and recycling materials and components. The company's Plastic drums offer the highest quality, safety and performance – while at the same time providing a low operating weight. The IBCs, which are developed in-house and manufactured around the world, owe their leading global position to the highly efficient and environmentally friendly combination of reusable and disposable systems. In the new Schütz Green Layer versions, the eco-balance of both types of packaging has been taken to a new level ...

**HYGIENIC DESIGN**

**New WEIMA presses for economical drainage and compaction with proven PÜHLER know-how. . . . . 238**



The WEIMA Group has been an internationally successful manufacturer of size reduction and compaction technology for over 40 years. More than 40,000 machines sold make WEIMA the world market leader. The machine program includes single-shaft and multi-shaft shredders, granulators as well as briquetting presses. With the integration of the traditional company PÜHLER, based out of Bergneustadt in Germany,

WEIMA now also offers robust packaging and drainage presses. The established and well-known PÜHLER technology underwent a consistent, contemporary update and now comes with the excellent WEIMA service ...

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