Press Preview Interpack 2023

SIMPLY UNIQUE PACKAGING

New small and large Packaging Machines for Food & Beverage, Pharma, Consumer and Industrial Packaging

Berlin (D), February, 2023: At the exhibition Interpack (hall 13, booth B32), Bekum, machine builder and specialist for extrusion blow moulded packaging, will inform about 20 new machine models for small to large container volumes. With the presentation of the new 8-Series at K 2022 trade fair, Bekum convinces with more energy-efficiency, greater flexibility and shorter delivery times. The focus is on the presentation of many exclusive technical solutions, the expansion of digital service support and the processing of recycling materials and calcium carbonate (chalk) in a three layer technology.

20 new Machines for all Blow Moulding Applications and Industry Segments

With the market launch of the new 8-Series Bekum now also offers all-electric small blow moulding machines with 60/120 kN clamping force and 280-520 mm carriage stroke for small bottles. The new all-electric long-stroke machines with 500 kN clamping force and 1080/1280 mm carriage stroke for highest output complete the packaging machine line for bottles, canisters and containers, which starts with 150 kN clamping force and 520 mm carriage stroke. Another highlight are the newly developed large

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blow moulding machines with hybrid-electric clamping unit up to 3,000 kN clamping force (patent pending for large canisters, (L-ring) drums and IBCs named XBLOW, in a new industrial machine design.

The packaging and long-stroke machines are equipped with a new and exclusively Bekum available e-Twin-Toggle all-electric clamping drive via double toggle lever with a unique bearing system and with low wear. Globally standardized control platform Bekum Control 8.0 with Industry 4.0 package and AI Health Monitoring provides maximum system availability, also available as retrofits for proven Bekum machines. In the 8-Series highly efficient HiPEx 36D extruders in new sizes up to 720 kg/h throughput with high melt homogeneity and 20% energy savings are applied.

With the expansion of service support in Traismauer, Bekum customers profit from shorter response times, a digital technical support via smart glass (augmented reality), tablet and smartphone and a digital spare parts catalogue. Furthermore Bekum is pursuing a complete approach to customer consultations for extrusion-blown containers with “Contours and Containers”. On basis of customers concept, Bekum offers a feasibility study over the development and design phase, FEM and extrusion simulation and 3D prototyping of a container together with their partners.

Circular Economy – Material sayings with tri-extrusion technology

For a number of years now, Bekum has been committed to the circular economy and has been delivering solutions for the cost-effective use of correctly sorted PE or PP post-consumer recycled materials. By using Bekum’s simulation-based development of new 3-layer spiral mandrel heads for packaging and industrial lines called tri-extrusion technology, it is possible to create resource-efficient blow-moulded containers. During this three-layer process, the recycled material (PCR) is embedded in the middle regrind layer between thin-walled inner and outer layers, which are manufactured from virgin materials. Of particular ecological concern is the ability to achieve the highest possible PCR loading in the middle

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regrind layer, taking into account the geometry of the moulded part, in order to reduce the overall consumption of new plastics within the production cycle.
The ability to guarantee that the plastics have been correctly sorted is crucial for this. It is only possible to easily recycle the three-layer product at the end of its useful life and reintroduce it into the circular economy if the inner layer, the outer later and the regrind layer are all made of the same material.
In addition, the use of PCR in the middle layer can often bring about a reduction in the cost of manufacturing containers.

More efficient than Energy efficiency class 10

Bekum uses energy-saving drives that feed their braking energy back into a DC link, allowing it to be used in the extruder drive, a permanent consumer. This reduces the effective energy consumption for carriage and clamping plate movement to about 1 kWh per operating hour for small blow moulding machines.
In combination with the new energy-optimized HiPEx extruders, this makes a specific energy consumption of less than 0.26 kWh/kg (EBLOW 408D show demonstration value at K-2022) possible – and this exceeds to the most efficient Class 10 according to EUROMAP 46.1.

Bekum at Interpack 2020: Hall 13 B32

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Captions:

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Caption 1 (opening image): Newly designed electric blow moulding machine for packaging EBLOW 807D with many innovative features

Caption 2:Production possibilities: Clear PET handle cans and beverage packaging of HDPE & PP

Image sources: All images are from Bekum (unless otherwise indicated)

About Bekum ++++++++++++++++++++++++++++++++++++

Pioneer and Trendsetter in Blow Moulding Technology

Founded in Berlin in 1959, Bekum Maschinenfabriken GmbH is one of the world's leading manufacturers of extrusion blow moulding machines.

Founder Gottfried Mehnert conceived the name Bekum as the acronym (**Be**rliner **Ku**nststoff **M**aschinen).

The company began to flourish in its founding year with the development of the world's first neck-rim calibration. Numerous innovations and patents followed, confirming that Bekum, with its innovative and customer-oriented machinery solutions, has always been ahead of its time – and remains so to this day.

When innovative and economical machinery solutions with high productivity for individual packaging requirements of hollow packaging are in demand, then Bekum, with 60 years of experience in blow-moulding technology, is the first choice worldwide.

Product Range and Applications in Food and Non-food

With future-oriented and reliable production processes and fully electric, as well as hydraulic machinery for the commercial production of blow moulded containers ranging from 5 ml to 3000 l, Bekum offers everything for plastic packaging from one source.

Philosophy of the Company

Building and maintaining long-term relationships with market partners through future-oriented, predictable company policy determine the actions of the first and second generation of the

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family, represented by Michael Mehnert. This strategy ensures the jobs of dedicated and experienced staff. The preservation of traditional structures, an established network of partners and far-sighted adaptation to change form the basis for continuous development and inspiration for the company in the interest of partners, customers and employees.

Innovation and Technology

Process reliability, availability, efficiency and sophisticated design characterise the high standard of Bekum production lines for blow moulding. Bekum contributes the expertise that has grown based on these references, associated with various patents in blow moulding, to the fulfilment of every customer requirement.

The level of process design is key for process reliability, reproducibility, parts quality and cost-efficiency. A high-quality production line for extrusion blow moulding, consisting of machine, die and automation which is impressive in terms of speed, wear resistance, availability, process reliability and stability alike, is critical for return on investment (ROI) and the level of added value.

Facts and figures

With 18,000 machines delivered and installed worldwide - about half of them still in use - the Bekum Group has achieved by far the largest production of blow moulding machines of any brand.

The Bekum Group serves approximately 100 countries around the world directly or through representatives.

Today, 350 employees work for the Bekum group worldwide at three locations in Europe and in the US (Berlin (Germany), Traismauer (Austria) und Williamston (USA)).

Our Technology – Your Success

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