

Efficiency & Flexibility

Innovative technological solutions
for the baked goods industry



Automation solutions which set new standards

The industrial baked goods industry unlike any other requires the highest degree of efficiency, processing safety and precision. All of this needs to come whilst maintaining the highest hygiene standards and ensure constant high quality products. Here at PWR Pack we are continuously setting new standards and in the area of progress we are always one step ahead.

Based on your individual requirements we create new optimum automated solutions which set new standards. Here you benefit from the decades of experience we have gained as a system developer who combine innovative

With our trail-blazing Pick & Place robots for highly complex handling tasks and our perfectly attuned software and hardware components as well as revolutionary sensor technology we occupy a prime

With PWR Pack you are optimally set up for current and future challenges in the bakery industry.

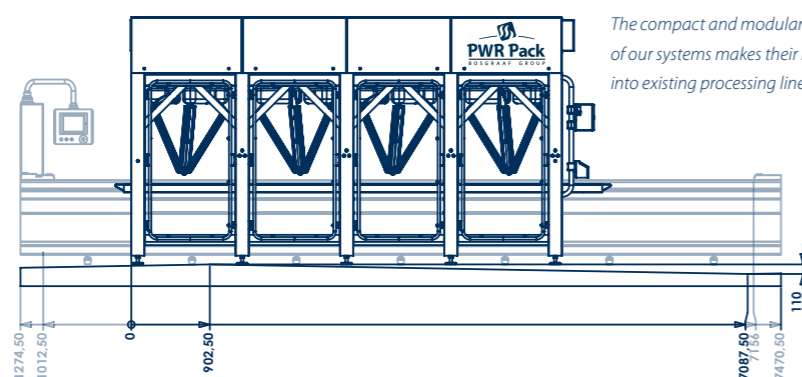
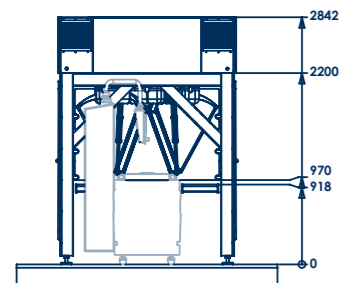
Secure a prime position for yourself in the industry with your baked goods, produced with efficient and safe production processes, at the highest cycle rates and under the strictest hygienic requirements. You will immediately see the benefits of our comprehensive range of services which includes everything from the planning of your production line to long-term after-sales service - many satisfied and repeat customers from the bakery industry with whom we have been working with very successfully for a long time, speaks volumes.



Example of high performance: Sensitive brezels are picked and placed precisely and very carefully.

machine construction and system integration with high-performance systems in the bakery industry.

position among suppliers of robotic solutions.



The compact and modular construction of our systems makes their integration into existing processing lines very easy.

Products sensitive to pressure such as baked goods made from puff pastry are processed with special care.

High demand for quality with high speed production

For many years the trend of consumers has been moving towards consumption of higher quality products - with the trend increasing. The demand of your customers is for an ever wider range of traditional freshly baked goods of high quality.

Snack-type baked products are booming, with specialty products such as bagels, doughnuts, croissants being especially popular. This has rapidly changed the demands made on you the producer: Only those who offer a large variety of products with high quality and the utmost in freshness can maintain their position in the market.

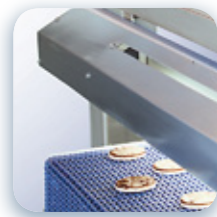
In the bakery sector, producers with a wide range of products who supply a large number of customers with par-baked products or fresh bakery goods are finding a growing demand for their products. This means the use of new technology and flexible, automated processes is required. Producers who invest in automation give themselves a better chance to create a variety of products at a lower cost whilst ensuring hygienic standards remains a high priority.

Par baked dough products as well fully baked goods run through our Pick & Place systems without damage or deformation.

Thanks to our highly sensitive gripping technology even the handling of baked goods with loose toppings is possible.

PWR Pack Pick & Place systems

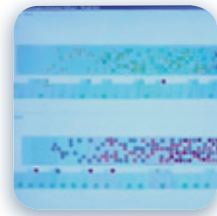
Discover the possibilities of profitable manufacturing technology for the production of your baked goods. With PWR Pack Pick & Place robotic systems you are ideally equipped for highly complex handling tasks for existing and for future requirements.



Complex procedures, clear structure

The latest generation of our comprehensive, platform-independent distribution software simplifies the entire complexity of logistics:

- TCP/IP-based, web-supported communication
- Optimum speed control for all Pick & Place modules
- Adjustment of speed to prevent wear and tear
- Scalability
- Safe in-feed of the products also during fluctuation of product supply
- Real-time representation with direct visualization in the display



Precise placement, safe transport

PWR Pack is an expert in the successful combination of machine construction and system integration:

- Robots designed and manufactured in house
- Precise point-to-point activation, reliable design for the most varied handling tasks
- Faster movement through the most modern servo technology
- Low maintenance costs due to optimum internal motion control and dynamic low-wear loads on the robotic system



Baked goods in detail

High-performance components guarantee safe handling of baked goods:

- Mechanical-pneumatic gripper technology
- Fully automatic high-performance precision cutting with ultrasonics
- Zero product damage and exact placement of the most sensitive baked goods or products with uneven contours



High-tech quality control

Our innovative Vision Control systems detect position and contour of the passing baked goods with the utmost precision and detail:

- Detection via the most-modern BLOB analysis or SBM
- Identification software which works with changing sizes, twisting and overlapping
- Automatic quality control by means of optional 3-D product measurement
- Innovative colour camera technology with colour differentiation
- Determining of deviations in real-time
- Reliable rejection of defective products
- User-friendly icon touch screen with 3D-HMI

Proven reliable robotics in continuous running:

For the application shown here our own Unigrabber UG-D4 is the perfect performer:

Unigrabber UG-D4	Specifications	Performance	
▶ We have over 500 robots already in use in the most demanding environments!	Kinematic structure	Parallel type	
	Degrees of freedom	3+1 (rotation optional)	
	Noise level	< 68db(A)	
	Weight	65 kg	
		Rotation	Angle unlimited
		Payload	1 kg
		Pick & Place actions	up to 150 p/min
		Workingarea	up to 1.300 mm



Example of high performance: A Pick & Place system by PWR Pack during processing of pretzels for bulk consumer packages.



Progress opens new perspectives

Whatever your concern – look to our technological solutions with a multitude of applications that can be individually developed for you.

Experience how innovative technology opens new possibilities for fast and precise production processes with the utmost in reliability.

In short: More precise, efficient handling.

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