

# Achieve perfect packing with Bonotto

Bonotto Packaging Srl, a specialist in the design and manufacture of machinery for packing fasteners, bolts, mechanical components, and small metal parts, presents the new BP-309 – a compact system that combines weighing and optical counting feed to achieve precise solutions.

The BP-309 is equipped with a bulk hopper and a vibratory linear feeder, which can be used for the fine feed of products – introducing the products one by one. This makes it the ideal solution for the packaging of small metal/solid material parts, such as nails, screws, bolts, nuts, rivets, washers and other hardware products.

The compact system also offers both manual and automatic feeding options, with easy format change, and can be used for multiple products sizes.

Bonotto has a wide range of packing solutions, including horizontal flow-pack machines, weighing machines, counting modules, vertical and tubular

machines, case packers, carton openers and closers, as well as complete packaging lines.

“Thanks to our Founder Antonio Bonotto, a true leader in the field of packaging small parts and mechanical components, the company has been able to achieve great success,” states the business. “Using his knowledge and experience within the field, we have been able to understand customers’ needs and provide tailor-made solutions.” +

[www.bonottopackaging.com](http://www.bonottopackaging.com)



# Feasibility studies and tool development with WAFIOS

WAFIOS Umformtechnik is ideally equipped to support users in machine selection, tool design and construction – whether that’s for machines from its own portfolio or for cold forming machines from other suppliers.

WAFIOS Umformtechnik GmbH has been developing and producing high-quality cold formers for more than 100 years. The forming specialist is also a partner to users in feasibility studies and tool development – with users benefiting from the company’s decades of experience and know-how.

This includes the design of forming processes (stage progress) where WAFIOS’ system can simulate volume, compression, reduction and cup ratios, as well as the approximate pressing force, which is particularly helpful for a general machine selection. The company can also simulate the transportation and feeding of pressed parts in order to determine the ideal gripper dimensions. The tools are also drawn in simplified form for this purpose.

As part of its capabilities, WAFIOS has special 2D material flow simulation software that can be used to precisely analyse the material flow in order to detect any wrinkles or other defects at an early stage. Different stresses, forces, etc, are calculated both on the product and on the tool. This is particularly useful for complex products and should always be carried out in advance.

In addition to the 2D software, the company is able to provide a 3D material flow simulation system, which means even the most unusual contours and geometries can be depicted in three dimensions. A 360 degree simulation can also be used to recognise possible buckling in the material, which can occur if the compression ratio is too high or the tool has not been ideally designed.

“By working with customers, we can support them in machine selection, tool design and construction to fit their requirements,” concludes WAFIOS Umformtechnik. “On request, fastener manufacturers will receive the finished design and are assisted in commissioning the process on-site.” +

