



PRODUCTION OF TECHNICAL ARTICLES

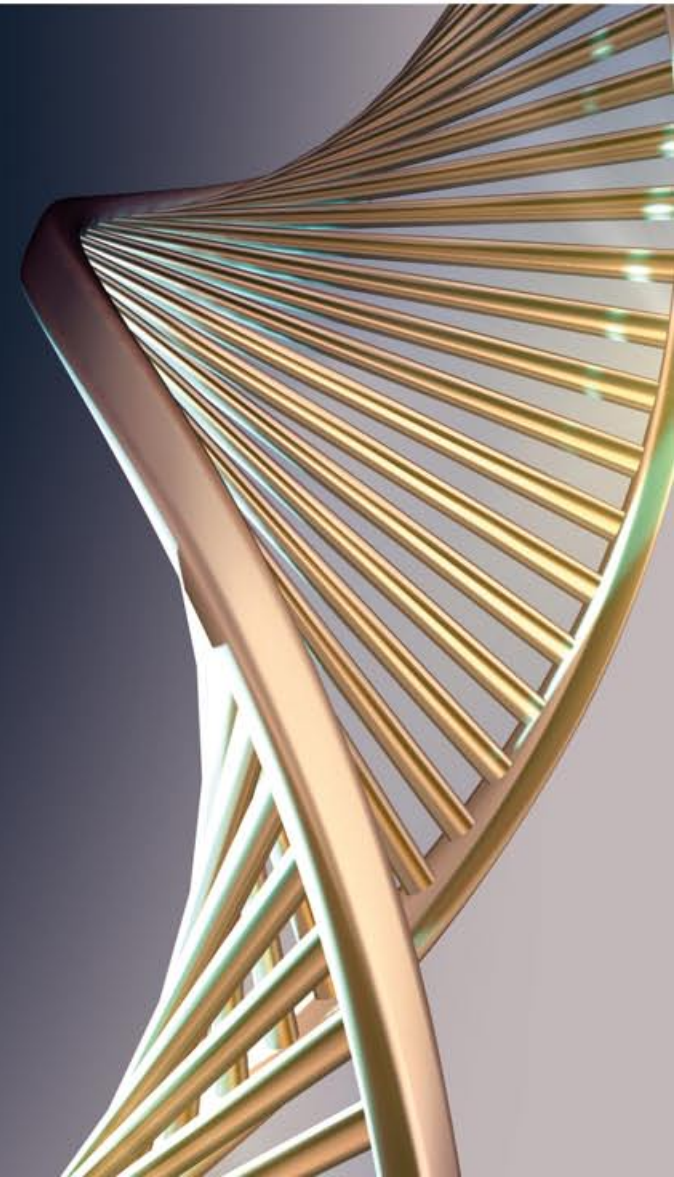
Technology, research, innovation.



PRODUCTION OF TECHNICAL ARTICLES

## Our DNA, expression of excellence

We were born and raised in the Food Valley, in the heart of Italy and of a region (Emilia) rich in values, determination and dedication, which turned its uniqueness into an added value. We've grown since then. Thanks to our daily commitment, we put all our passion to go further and beyond our expertise. We have learned the values of uniqueness, measuring ourselves against our "next-door" neighbors, which are among the leading producers worldwide of systems and equipment for food & wine products, allowing us to consolidate our experience in the food industry, but not only.





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## Our mission

Innovation and dynamism are the key points of our production. We believe in research and development of new materials and constantly strive to intensify and explore new solutions. Our character has allowed us to stand out and collaborate with important research authorities such as the University of Parma. We are ready and willing to do our utmost to produce quality products that are also competitive in terms of costs, meeting each and every need. AZ is always ready for new challenges.



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## How we work

### DESIGN:

AZ is organized in different specialized technical areas, able to design and simulate various applications, analyzing and screening various materials.

A complex and articulated type of operativeness that allows us to offer comprehensive service from A to Z. From the finite element structural analysis to mould cavity filling simulation to the development of the finished part. The relationship among the different areas of our departments is a synergy that allows us to control and accelerate the development of prototypes, optimizing timing.





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## Moulds

Our strength is the awareness of having to keep going further. With regard to design, we use technologically advanced tools with dedicated CAD 3D, CAD 2D and CAD/CAM stations and mould cavity filling simulation in 2D and 3D - Mould Flow. The transition from the construction of the pilot moulds, to implement the pre-series, to the production of the final moulds for the final output is easily done. Our technical department has become one of AZ's cutting edges thanks to our technology, expertise and knowledge.





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## Fleet of machinery

A targeted and highly technological output that allows us to make all types of parts (both in weight and geometry), resulting in investments in machinery of different tonnage, hot plate welding equipment, ultrasounds, etc., to give best service and quality:

- Plastic injection moulding presses from 25 T to 750 T  
Weight of articles from 25 g to 12.5 kg.
- Rubber injection moulding presses from 120 T to 230 T  
Weight of articles from 1 gr to 11.5 kg.
- Rubber injection moulding presses from 190 T to 270 T  
Weight of articles from 500 gr to 960 gr.





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## Fleet of machinery

- Machine for ultrasonic soldering,
- Machine for hot blade soldering.
- Thermoset rubber profiles extrusion lines.
- Autoclave for rubber vulcanization.
- Mixers
- Machine/oven for conditioning plastic articles (e.g. polyamides).
- Screen printing and flaming lines.





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## Moulding

AZ provides all-around service and also offers the possibility of creating articles with various transformation systems present on the market:

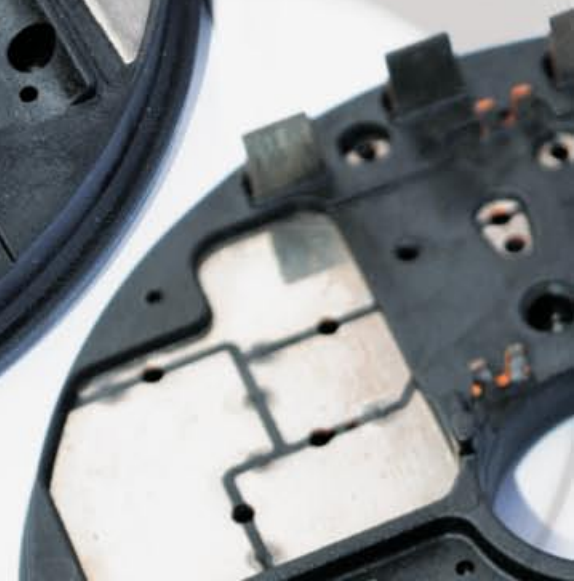
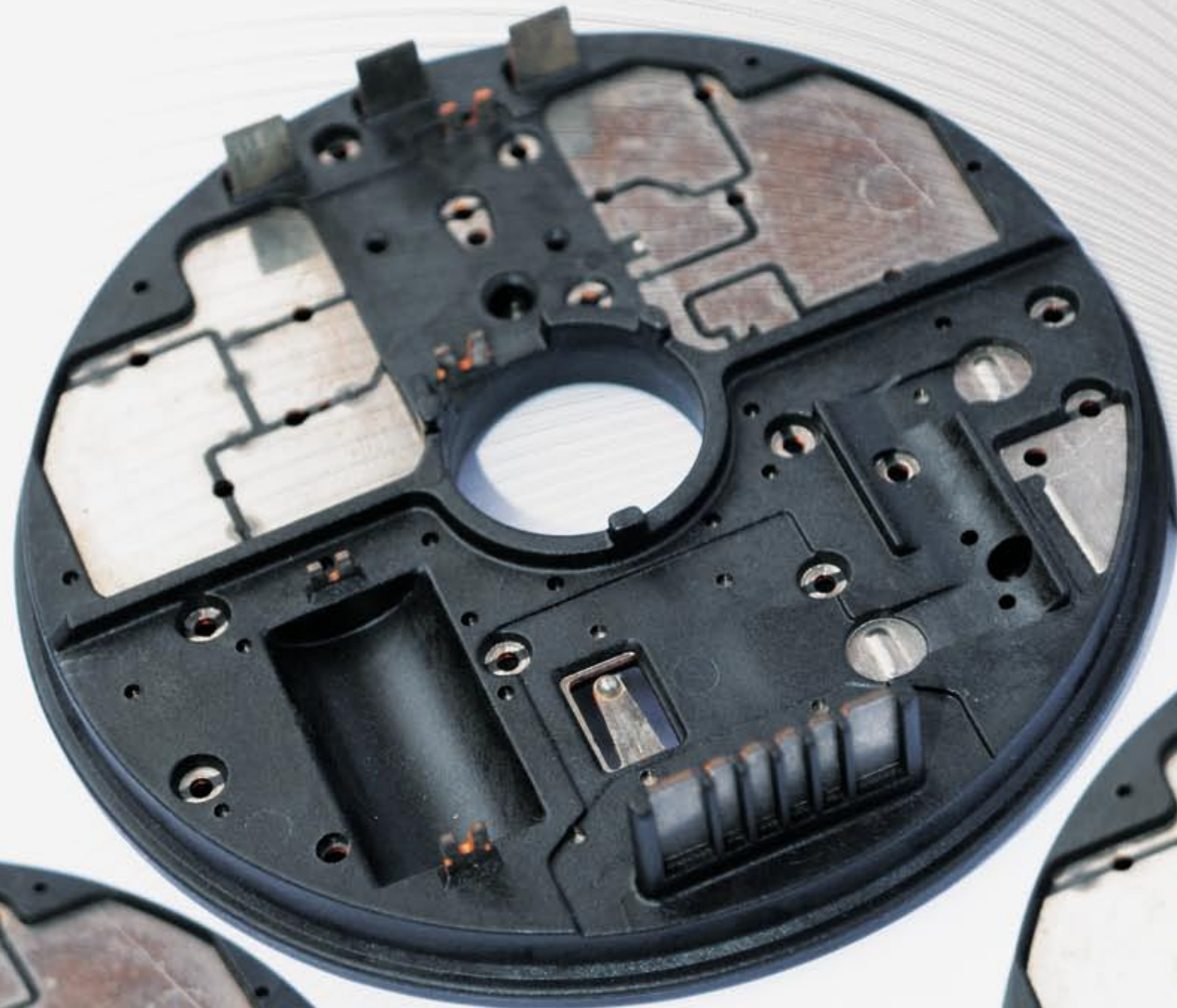
1. Rubber and plastic injection moulding
2. Rubber compression moulding
3. Rubber extrusion
4. Foam cutting





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## Moulding

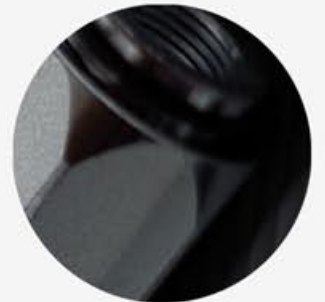




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## Fields of application:

- Bottling
- Packaging
- Labelling
- Paper-transformation
- Pharmaceutical
- Valves and fittings





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## A world of opportunities

Our rubber and plastic production is articulated and is mostly based on articles designed by us or manufactured on customer request. Pick-up heads, suckers, vibration-damping supports, joints seals, Garola fitting DN seals, filler seals, modular conveyor components, support elements, handles, sponge articles and sponge sheets. Just to name a few.



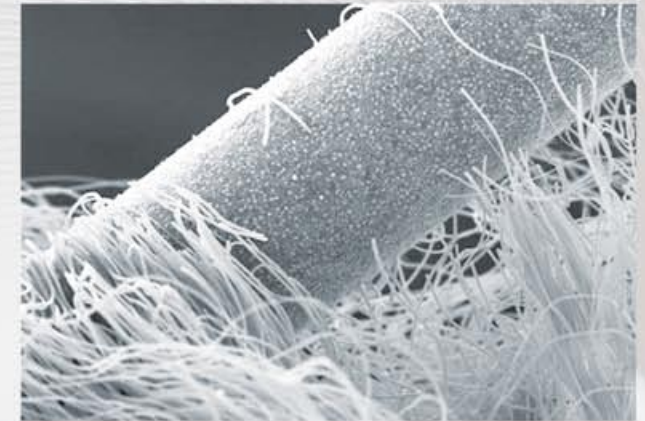


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## Materials

Evolution and research have taught us many things. In our applications, we can supply finished parts with the most suitable materials, ranging from technopolymers to thermoplastics, from elastomers to nanocomposites.

The latter comprise a new class of materials characterized by dispersion of phases in the order of a few nanometers. The use of fillers of nanometric size (nanofillers) allows the achieving of a high degree of filler dispersion in the polymer, leading to a significant improvement of the compound's properties. The interesting feature of nanofillers is that you can reduce the amount to be added to the polymer, minimizing the undesirable effects caused by adding inorganic additives. For example, to ensure comparable stress performance, a charge of 5 to 6% in nanofiller weight is sufficient, against higher percentages of 20% in classic filler weight. Nanofillers also have another winning feature: they are recyclable and can be used in various areas of application, from automotive to lighting, from packaging to tanks, etc. With AZ, the technological evolution is at your fingertips.





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## Examples of applications





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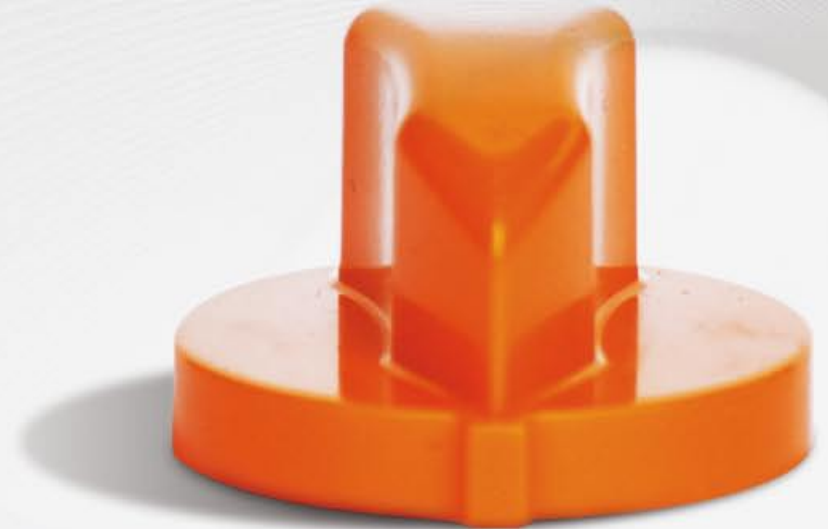
## Examples of applications





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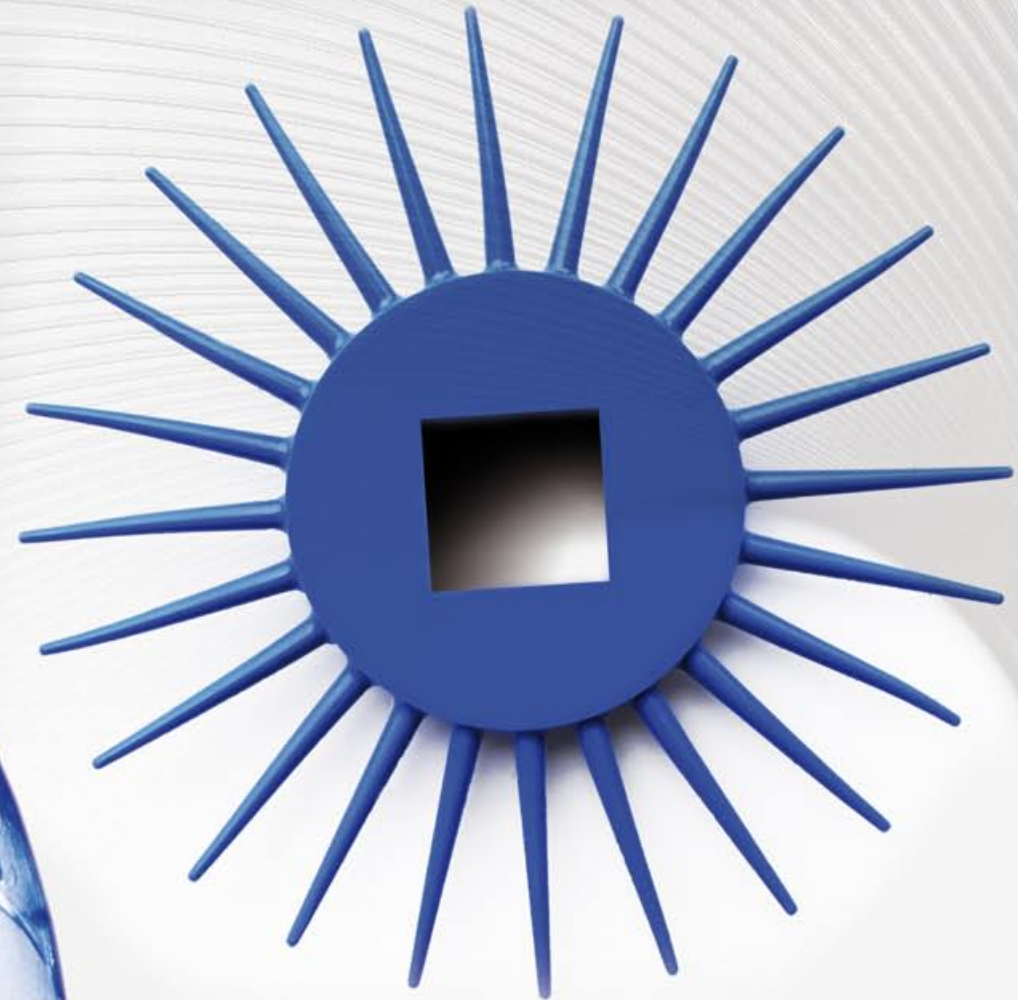
## Examples of applications





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## Examples of applications





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## Rubber products

- direct production
- articles on request





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- direct production
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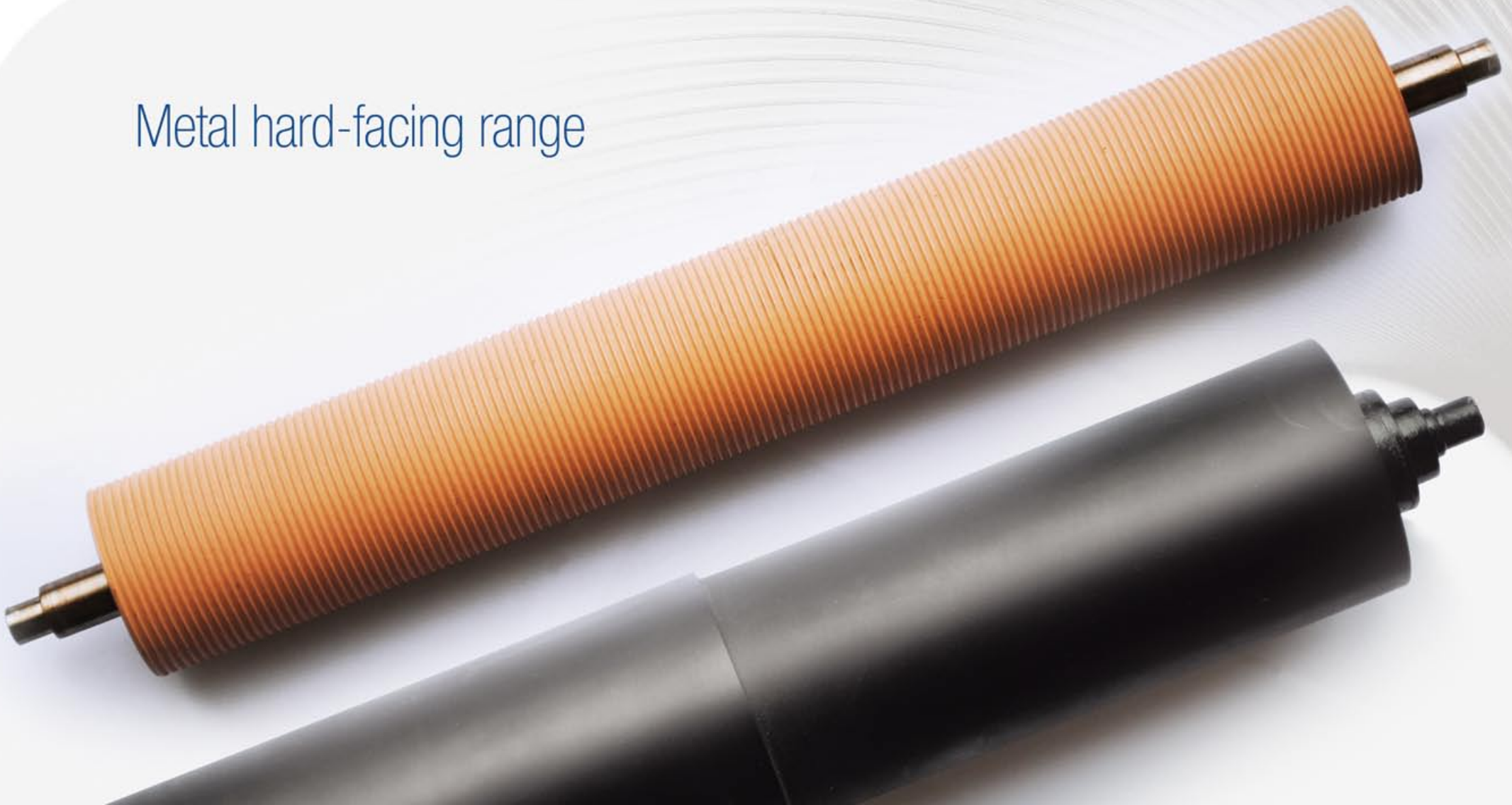
## Extruded range





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Metal hard-facing range





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## Plastic products

- direct production
- articles on request





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## Plastic products

- direct production
- articles on request



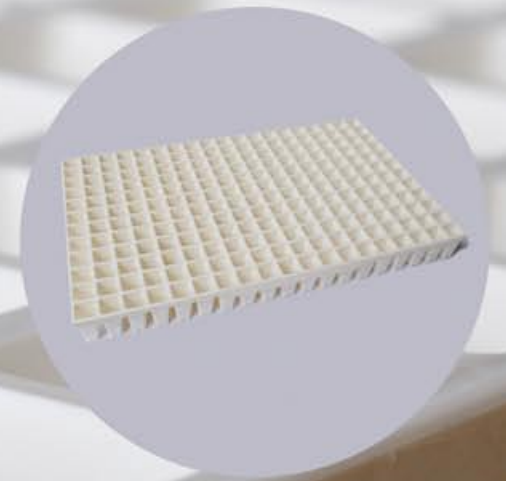
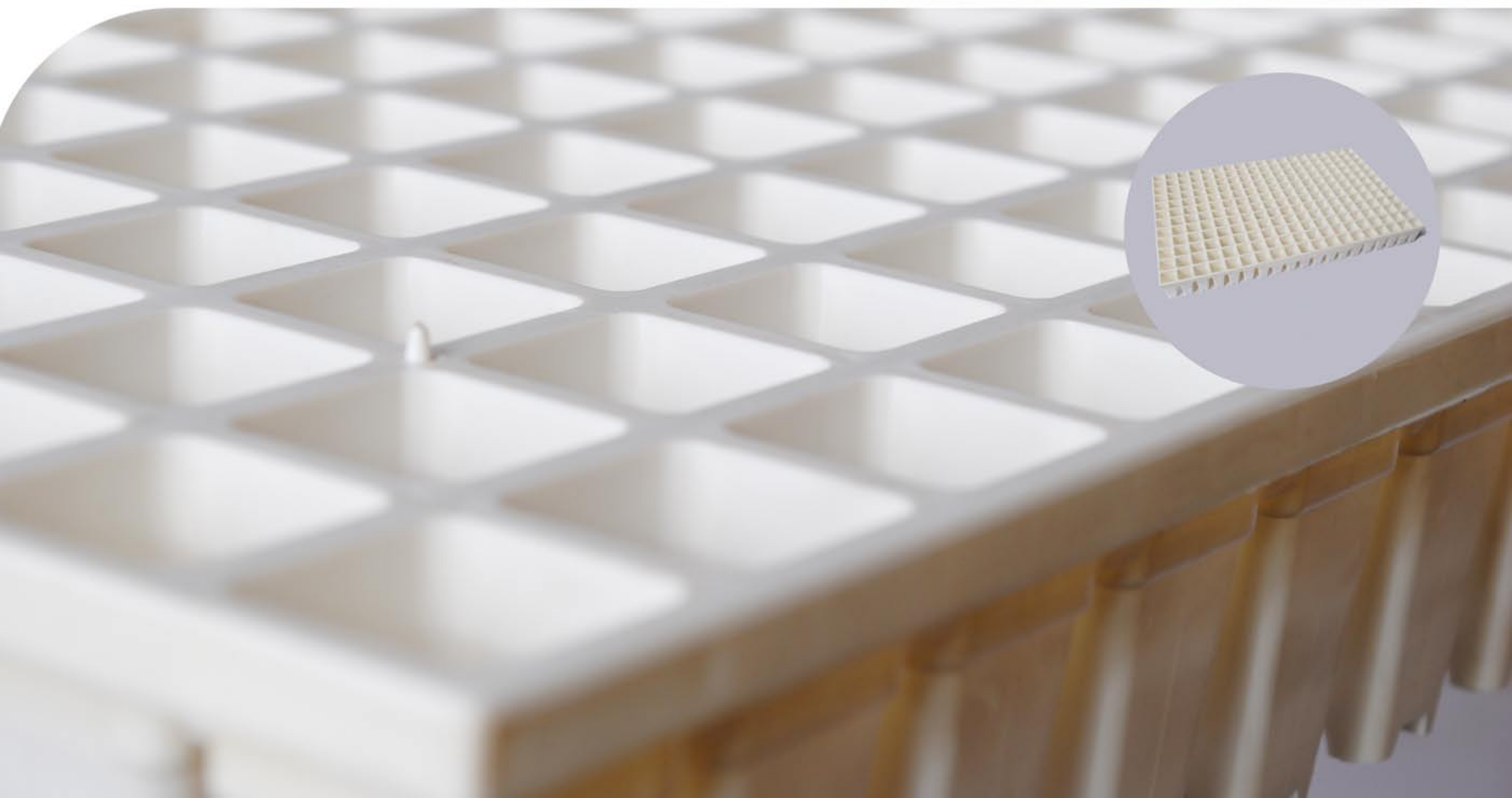


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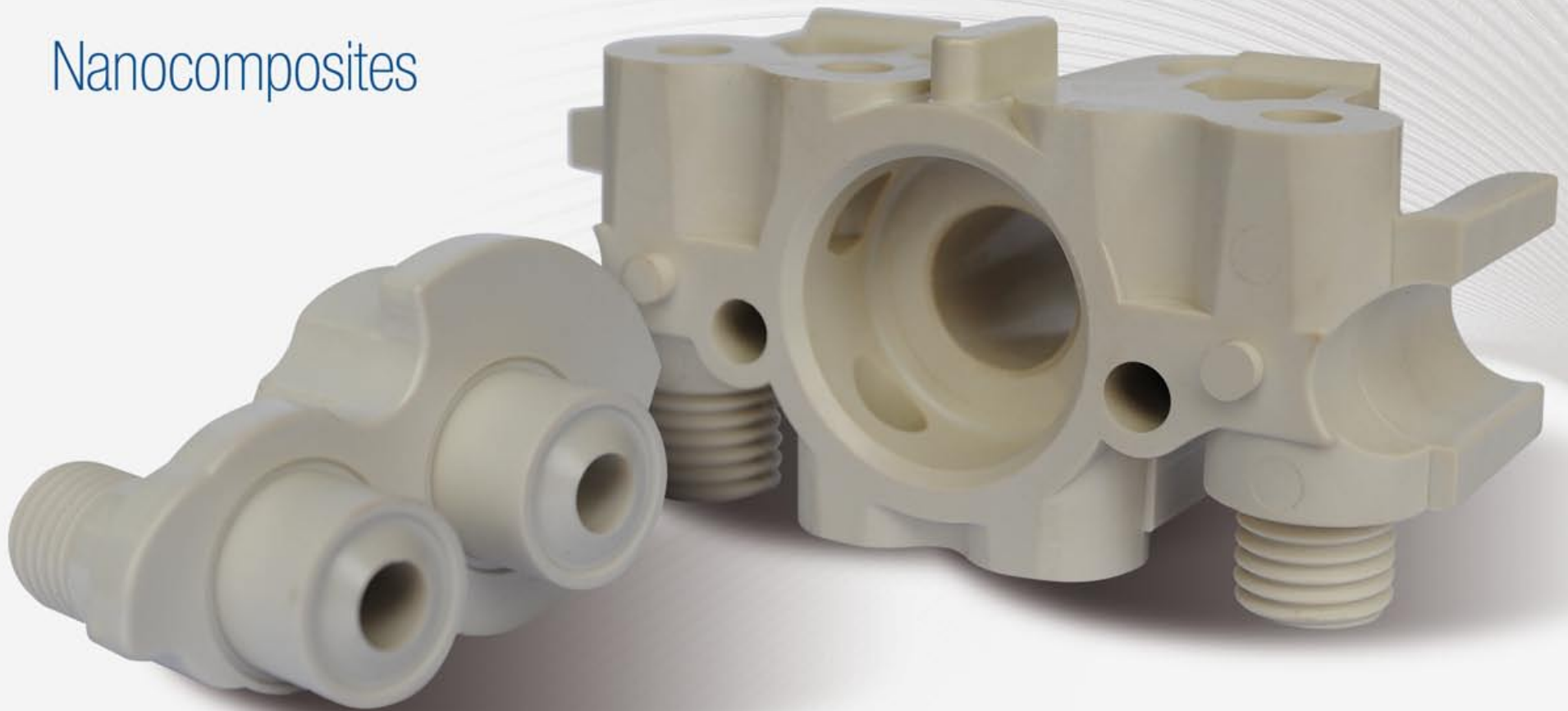
## Plastic products - co-moulding





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## Nanocomposites





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Engineering





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## Special manufactured articles:

Our applications have no limits; directly tackling specific issues with our customers has enabled us to develop a number of special projects based on drawings. Responding flexibly, and as quickly as possible, to our partners' requests.





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# Certificates

In 2003, AZ achieved the important milestone from DNV, the quality system certificate in accordance with management system standard UNI EN ISO 9001:2008. Of fundamental importance was the acquisition, in 2004, of the "Research laboratory for industry" trademark, issued by the Ministry of Education, University and Research. A source of pride for our constant commitment to research and innovation.



DNV-GL

## CERTIFICATO SISTEMA DI GESTIONE

Certificato n.: 102095-0011-AQ-ITA-ACCREDIA      Data Prima Emissione: 27 settembre 2011      Validità: 28 settembre 2020 - 27 settembre 2023

Si certifica che il sistema di gestione di

### A-Z GOMMA S.r.l. - Sede Legale e Operativa

Strada Provinciale per Busseto, 21 - 43010 Pontetaro (PR) - Italia e i siti come elencati nell'Appendix che accompagna questo certificato

È conforme allo Standard: **ISO 9001:2015**

Questa certificazione è valida per il seguente campo applicativo: **Progettazione, produzione e vendita di articoli tecnici in materiale termoplastico e tecnopolimero. Progettazione, gestione della produzione e vendita di articoli in elastomero (IAF: 14, 17)**

Lungo e Data: Vimercate (MB), 07 ottobre 2020



Per: DNV GL - Business Assurance Via Energy Park, 14 - 20871 Vimercate (MB) - Italy



Nome e Cognome di chi ha autorizzato il certificato: Zeno Baltrami

Zeno Baltrami Management Representative



PRODUZIONE ARTICOLI TECNICI

## Contacts:

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Via della Pace, 1 - 43019 Soragna (PR)  
Sede Operativa Div. Stampi :  
Corso Italia, 1-B - 24049 Verdello (BG)  
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