

**INSTINCTIVELY  
FAST**



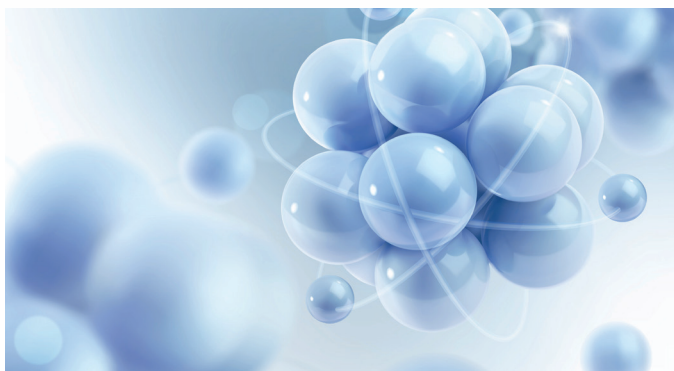
## FINITE ELEMENTS

THE FINITE ELEMENTS METHODS SIMULATE THE PHYSICAL BEHAVIOUR OF COMPONENTS.

The Finite Elements Method (FEM) is a computer-based simulation method which involves small areas of a component or a calculation area – the finite elements – that are taken as the basis in order to depict the physical behaviour of the component. The Finite Elements Method provides that the component that needs to be calculated is subdivided into finite elements – in other words small finite areas.

For each of these elements – in other words each small finite area – simply-structured approach functions are selected and implemented that suitably depict the physical behaviour. The elements are “finite”, in contrast to infinitesimal calculus.

There are different types of elements depending on which physics is supposed to be simulated or which design was selected for the simulation model.



Due to the connection between the neighbouring elements, a system of equations arises that needs to be solved in the simulation. The use of finite elements (the Finite Elements Method, FEM) covers the following after idealisation:

- discretisation
- solution and
- evaluation (presentation of results)

Usually, a technical statement is made in the evaluation, based on the results. EUROPLAST was a pioneer for using this technology for the injection-moulding of containers.

# LEAN PRODUCTION MANAGEMENT

EUROPLAST PRODUCES ACCORDING TO "LEAN PRODUCTION"-PRINCIPLES: EFFICIENT AND GENTLE ON RESOURCES.

"Lean Production Management" requires perfect organisation of all work procedures and the coordination of all capacities. With this approach, EUROPLAST aims to optimise the entire value-added chain over the long term, to continually improve the procedures and to avoid wastage. EUROPLAST strives to work in accordance with "World Class Manufacturing" principles. These include customer orientation, increase in value and a continuous improvement process that includes all employees.



## SUSTAINABLE CYCLE

High-quality produces and sustainable production need a strong basis. This basis is the raw material HDPE (High-Density Polyethylene). This raw material is, on the one hand, completely food-safe, and on the other hand, no substances that could be harmful to the environment or to health are produced during processing.

# THE JCO PLASTIC GROUP INTRODUCES ITSELF!

EUROPLAST IS PART OF A STRONG EUROPEAN NETWORK OF COMPANIES AND HAS ITS OWN SALES FACILITY IN ROMANIA.

The owning family fosters sustainable growth and makes the claim to be one of the best producers of large plastic parts throughout Europe.

In addition to the company's headquarters in Milan, the company has production facilities in Battipaglia (SA)/Italy, Fuentes de Ebro/Spain, Yannitsa/Greece and in Hendek(Sakarya)/Turkey.

EUROPLAST is proud of its own sales facility in Romania. 330 highly qualified employees generate a group turnover of approximately € 100 million.



# INDUSTRY & LOGISTICS

EUROPLAST COMBINES ROBUST LONGEVITY WITH LIGHT-WEIGHT CONSTRUCTION AND SO CREATES NEW APPLICATION POSSIBILITIES IN TRANSPORT AND STORAGE.

EUROPLAST develops products for industry and logistics that hold up to even the toughest conditions on a daily basis. The light construction method meets the modern demands when it comes to the transport and storage of goods. The pioneer in the development and new and resource-saving production processes has established itself on the international market with excellent solution-finding expertise and ground-breaking products such as thin-wall containers.



## NEW PRODUCT



## THE 40-L-TROLLEY

DUE TO ITS OUTSTANDING ROBUSTNESS, THIS CONTAINER IS USED IN THE MOST VARIED OF AREAS.

The new 40-litre-trolley is predominantly in use as a pre-sorting container for organic waste. In the Netherlands, the 40-litre-trolley has become an absolute mainstay in the vast majority of households. Thanks to the material characteristics, it is suitable for collecting coffee capsules or small batteries in trade, as a sorting container for metal shavings in industry or as a container for fruit and vegetables in agriculture. The containers can also be used as a separating system because the lid is available in 6 different colours.

## DID YOU KNOW, THAT ...

... **polyethylene was discovered by the chemist Hans von Pechmann in 1898 already?**

Polyethelene was first industrially produced in Britain in 1933 by Reginald Gibson and Eric Fawcett.

Depending on the production methods and the respective linking of molecules caused by this, various types of PE with very different properties can be produced. We differentiate between PE-HD (HDPE), PE-LD (LDPE), PE-LLD (LLDPE), PE-HMW, PE-UHMW.

PE is resistant against almost all polar solvents (temp. < 60 °C), acids, alkalis, water, alcohols, oils etc. HDPE is also resistant to petrol. It is approved for the packaging of foods and pharmaceuticals.

PE is particularly environmentally friendly because it can be recycled or is non-toxic when incinerated, and also doesn't leave behind any residues. No dangers to health caused by PE are known.



# PEOPLE AT EUROPLAST

**QUALITY IS THEIR PASSION.** IN EACH EDITION OF THE NEWSLETTER WE INTRODUCE A MEMBER OF THE EUROPLAST-TEAM.



"What I like about my profession is the variety of different tasks that it entails. You get to see the entire operation and you work together with the management directly."

**That's quality for me:** "The constantly ongoing improvement of processes and products in order to be the best possible partner for our customers and suppliers."

## MARIO KORENJAK

born in 1983, resident in Kötschach-Mauthen, married, 3 children

**Hobbies:** ice stock sport, tennis, football, handicrafts, very family orientated person  
**at Europlast since:** 02. 11. 2005

**Q-Qualifications:** International environmental auditor, international quality auditor, legal compliance including 82b examination  
**current Q-tasks:** Monitoring and maintenance of the international management system ISO 9001 and ISO 14001, accompanied by internal, external and supplier audits, involvement in the introduction of new KVP systems, monitoring the compliance with laws, notification documents, present at construction and commercial negotiations, establishment of new processes



## SOCIAL RESPONSIBILITY

COMMUNITY IS IMPORTANT TO US, THAT'S WHY WE INVEST IN SPORTING, CULTURAL AND REGIONAL EVENTS



## 70 YEAR SV ASKÖ RAIKA DELLACH

EUROPLAST generously supported the 3-day anniversary celebrations that featured a football festival, as well as a fantastic frame-

work programme. A football camp with famous coaches catering for more than 60 teenagers, as well as a celebrity football match between the team featuring former Austrian international Walter "Schoko" Schachner and a "KRONE" representative team with Ewald Türmer ensured lots of fun and entertainment. The football club can look back on a successful anniversary year. The senior team stayed up in the Unterliga, and there were plenty of underage successes and fantastic tournaments as well!



## CARMEN THALMANN

The successful Alpine skier managed to elevate herself to the world slalom elite over the course of the 2015/2016 season. Carmen is currently training on the Mölltaler Glacier. Her goal is to make a good comeback from her cruciate ligament rupture and be part of the Austrian Olympic team. The most important thing for Carmen at the moment is to get back to full fitness, so she can give 100 % once again.

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