

REASONS TO ATTEND OUR NEXT CONFERENCE IN ROME, ITALY

The EUROPEAN THERMOFORMING DIVISION remains a totally independent organisation that exists purely to support members of the thermoforming industry and to advance the technology. It has been run and managed by volunteers who work within the industry for over two decades and has gained an enviable reputation.

Obviously Board members of the ETD have been extolling the virtues of membership and also of the benefits of attending the biennial conferences, (organised specifically for their benefit), for many years and will often cite the technical seminars, topical debate and the opportunity of interactive networking with their peers as good reasons to attend.

However, the Thermoforming industry is a dynamic and constantly evolving work place where things change very rapidly. It is noticeable that there are an increasing number of reports of business failures over the last few years for various reasons and this affects some of the most innovative, focussed and established organisations. It proves that nobody is safe in today's volatile climate.

At this point in time, we are faced with numerous Global complexities. There exist political and industrial uncertainties and concerns over both regional and Cyber security. Our industry remains under constant bombardment by lobbyists declaring our products are the cause of Global warming and of turning our Oceans into refuse dumps.

So, to suggest we are in a sensitive and unstable period that endangers our industry as we know it, is by no means an understatement.

For many organisations, survival may become more of an objective over the next few years rather than sustained growth and as such, and without necessarily adopting a 'siege mentality', the need for closer co-operation and communication is both obvious and essential.

However, it is not all 'doom & gloom' as there are many progressive and innovative developments within our technology, and thankfully, those matters are openly discussed in the enterprising forum of our conferences.

So there we have it! The ETD Board is committed to maintain the very high standards of their conferences and will ensure that the content is both highly relevant and technically advanced. But the reasons and importance of industry members attending these events has somewhat changed.

There is now both a need and a responsibility for the thermoforming community to become more of a close knit unit and be more 'in-tune'. In future we will need to act in closer unison and have a stronger voice. There is now a subtle change of the reasons to attend – for our industry to plan the way forward!

Join us at our 11th European Thermoforming Conference in Rome, 14-16 March 2018!

Jeff Pitt - ETD Board member

Spring 2017

Advertising

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OMG p. 16



SPE EUROPEAN THERMOFORMING DIVISION

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11TH EUROPEAN “THERMOFORMING” CONFERENCE - 14 – 16 MARCH 2018, ROME, ITALY - 1ST ANNOUNCEMENT AND CALL FOR PAPERS

This event is the single most important event in the thermoforming calendar and is where Europe's leading exponents in thermoforming gravitate to network with their peers. It is an opportunity to learn of the latest technological developments within our industry through technical

presentations and evaluating products and services being displayed at the Tabletop exhibitions. The attendees will consist of a significant cross section of processors, end-users, material suppliers, tool makers, machine and allied equipment suppliers.

Who should attend?

- Thermoformers
- OEM's
- Machinery & Tooling Producers
- Film and Sheet Suppliers
- Resin Producers
- Recyclers

Conference Highlights

- Keynote Presentations
- Technical Sessions Thin & Heavy Gauge
- Workshops
- Exhibition
- Networking Events
- Parts Exhibition

What makes ETD Conference different to others?

This event is unique because it is run specifically for the thermoforming industry and is organised solely by members of the industry. Its main objective is to create a platform that encourages industry members to share and transfer technical knowledge and expertise. Technical speakers and presentations are carefully selected to provide the maximum value.

Workshops and Technical Sessions:

Our programme includes technical presentations by recognized industry experts, featuring new developments in our industry. It allows members of our industry to actively participate in those discussions.

Sponsors and Exhibitors:

A prime opportunity to market and sell your product or services to a 'captive audience' solely involved in the European Thermoforming Industry. This represents remarkable value on your marketing investment.

Parts Exhibition:

This is an increasingly popular event which allows participants to showcase their thermoformed parts. The winning entries will be judged on their originality, innovation, technical complexity, best use of materials etc. Parts will be on display during the conference and the winners will be announced with awards presented on the final day of the conference.

Call for Papers:

Intention to submit a paper should be communicated to the Conference Secretariat **before 15 July 2017**. Authors are invited to provide: Title of paper, Author/ Speaker's name and a general outline of the work (300 words max.) to **Yetty Pauwels** at spe.ETD@skynet.be



THERMOFORMED PARTS COMPETITION 2017

‘EACH ENTRY A FASCINATING SUCCESS STORY IN ITS OWN RIGHT’

European Thermoforming organisations will be invited to participate in the ‘Thermoformed Parts Competition’ which will be staged at the forthcoming ETD Conference to be held in Rome from 14th to 16th March, 2018.

The aim of this event is to allow an opportunity for thermoforming processors in all the industry sectors to exhibit their parts and to compete in various categories against their peers. It is one of the few opportunities for thermoforming companies to not only promote their technical processing capabilities but also to present other elements of the ‘team’ such as the Tool manufacturer, the Material supplier and of course the thermoforming machinery on which the parts were formed.

Originality, innovation and creativity, mould complexity and technical processing capability will be the judging criteria in an effort to promote advanced design and developments from a structural innovation perspective.

Categories for entry of ‘**Thick gauge**’ parts will include *Vehicle/Automotive, Industrial, Point of Purchase/Displays, Technical Applications and Sanitary sectors.*

Categories for entry of ‘**Thin gauge**’ parts will include *Food Applications, Medical Applications, Consumer Electronic Applications and General Packaging sectors.*

The aim of the *European Thermoforming Parts Competition* is to offer an industry Forum where examples of design-orientated applications exhibiting a successful combination of materials technology, technical innovation and creative design are recognised and rewarded

The successful entrants will be presented their awards at the 11th Biennial European Thermoforming Conference in Rome.

Take the opportunity for **your** Team to be recognised and rewarded – plan your entry and contact the ETD now. Contact details are below:



Information about the **Conference, Sponsorship, Tabletop display** and the Parts Exhibition may be obtained from Yetty Pauwels at **SPE European Thermoforming Division**,

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www.e-t-d.org

RECORD REGISTRATION FIGURES FOR INTERPACK 2017

New special show devoted to Industry 4.0 partnered by VDMA

Interpack 2017 has recorded the biggest exhibitor demand in its over 55-year history, companies have booked about 20 per cent more space than is available at the Düsseldorf exhibition centre with its 19 halls.

At interpack 2017, the VDMA Food Processing and Packaging Machinery Association is organizing a special exhibition on the topic of Industry 4.0. It will take the form of a Technology Lounge at the VDMA stand, featuring examples of solutions in packaging machinery and process engineering and opening up new opportunities for applications in security, traceability, copying and counterfeit protection as well as in customised packaging. More information under <http://nuv.vdma.org/interpack>.

Industry 4.0 – From Vision to Reality - Concrete Benefits for Industrial Value Chains

The digital transformation towards networked production environments in terms of Industry 4.0 (I4.0) and/or the Internet of Things (IoT) is gaining momentum. Numerous applications from the areas of product and process monitoring, labelling technology, packaging, logistics as well as maintenance and repair show already today the optimisation potential that this transformation to the Internet of Things holds.

These “things” are sensors, RFID chips (Radio Frequency Identification), devices, machines and plants. In future, these “things” are not only expected to deliver information on all important process and system conditions independently and continuously but they are also expected to communicate with each other via the Internet and intervene in manufacturing processes to correct and optimise them without human intervention.

- Paradigm Change in Maintenance
- Chatting with Machines
- Working in Virtual Worlds
- Standardised Interfaces a Must
- Even Old Systems can Handle 4.0



*Mixed Reality in smart operating concepts
 Photo: OPTIMA Packaging Group GmbH*



Condition monitoring delivers info on the individual machines or complete lines in real time. Based on pre-defined alarm and failure limits deviations can be detected and eliminated early on.

Photo: Bosch Packaging Technology

interpack[®]

PROCESSES AND PACKAGING
 LEADING TRADE FAIR

DÜSSELDORF, GERMANY
 04 ^{to} 10 MAY 2017
 INTERPACK.COM

MARBACH GROUP / RPC BEBO DIVISION UNIQUE: THE NEW SCREW TOP FOR PLASTIC CUPS

Marbach Tool Manufacturing, producer of thermoforming tools for the plastics industry, has developed a special eye-catcher: a screw top for thermoformed plastic packaging. Comparable to the familiar metal lid of a jam jar.

Marbach Sales Manager Hubert Kittelmann: "We wanted to create a very special packaging for K' show. An innovative one that would trigger ideas in visitors for products that have to be packed – also outside our focus sector: traditional food - in the area of dairy and lipids. As we have seen: this has been successful. The screw top of our Turner packaging received excellent feedback and visitors were fascinated by it. Its functionality totally convincing.

But not only the functionality of our innovation was convincing. But also the unobtrusiveness and simplicity of the Marbach system received much appreciation. Because until now, such kinds of seals could only be manufactured elaborately with complex tool technology – and required significant compromises in the product design. For that reason previous models couldn't be established on the market.

The Marbach solution is simpler. Far simpler. The packaging can be thermoformed by a standard tool with round cutting geometry. And the screw top works perfectly.

Head of R&D at RPC Bebo, Juergen Merbach; phrased it like that: **RPC Bebo Division** takes turn in the Turner, simply the best!

Inspired by the innovation power of MARBACH's "Turner" system RPC Bebo Division joins into finalization of development and introducing converting process. System will consist of Turner cup, Turner lid and lidding film, sealed on cup's seal flange, covering all of lid's surface. To open, consumer peels the lidding film and opens the Turner lid by a 45° counter-clockwise rotation of the lid.

RPC Bebo Divisions sales force has been introducing the Turner concept to a selection of customers, received encouraging feedback and is looking forward start presenting thermoformed samples at the interpack exhibition.

Applications can range from ice cream packaging to snacks or sweets consumed on-the-go or in car's cup holders, allowing easy opening and reliable reclosing, even protecting product under rough conditions in back packs and day travelers.

Turner cups and lids can be produced on conventional trim-in-place thermoformers. Optionally Turner cup and lidding film can be produced with premium barrier properties for Oxygen, Water Vapor, UV and light.



Turner™ cups can be decorated by a range of decoration technologies, from dry-offset post-printed, labeled up to RPC Bebo Divisions premium decoration technology IML-T. For Turner lids RPC Bebo Divisions' pre-print technology can provide full cover decoration, from edge-to-edge.

Hall 10 - Stand D21

Watch the video of Marbach Turner packaging through the link below:

www.marbach.com/turnerVid

Further Information:

Marbach Group, Karl Marbach GmbH & Co. KG, Tina Dost

tina.dost@marbach.com

www.marbach.com

RPC Bebo Division , RPC Bebo Plastik GmbH, Michael Janke, Business Unit Manager Fresh & Frozen Food

m.janke@rpc-beboplastik.de

www.rpc-group.com



Marbach Turner. The perfect turn.

A SCREW TOP FOR THERMOFORMED CUPS.
DESIGN MEETS FUNCTIONALITY.

Subtle. And simple. The new Marbach Turner can be thermoformed by a standard tool with round cutting geometry. And the screw top works perfectly.

www.marbach.com/turnerVid

WM THERMOFORMING MACHINES WILL EXHIBIT AT INTERPACK 2017

This is the event where all the producers of machineries and devices for the packaging industry meet the main players from the food, beverage, pharmaceuticals and consumer goods industries from all over the world. It is the main event of the packaging industry and give the possibility to pass through the providers of the entire supply chain.

The packaging sector has made great improvements, both concerning the variety of material used than in the tailor made solutions to protect against piracy, contamination, deterioration and packaging to have a proper handling.

It has been verified that by using plastic packaging the food waste has been reduced from 43% to 3% and the CO2 in the air has reduced, since plastic containers are lighter and so the transport need less fuel.

And in view of the future expectation the role of packaging will be even more important.

By 2050 it is previewed an increase of the world population of 2 billion people, many of them in the urban areas, and consequently the need of food will increase.

We already know that nowadays the resources are not equally distributed in the world, there are people who suffer of hunger and people who suffer of obesity for the quantity of not healthy food, rich of fats and salt. And beside this there is still 1/3 of the food produced that is wasted.

The actions that has to be taken to create a sustainable food system are, of course, to reduce the food waste, to encourage the farming in the urban areas, to promote a more healthy and sustainable diet, to diversify the supply resources.

Consumers are continuously more interested about limit food waste and minimize health risks to themselves and the environment. So there is a new interest for food packaging research, in which WM is completely involved, as producer of machines that use sustainable technology to produce food packaging. The latest innovations brought to produce sustainable packaging by using less material, less energy and more automated processes

It's right to critic the misuse of plastic, but it's not right to condemn plastic itself because of the misuse of someone, moreover if the material is not intrinsically risky.

As said by the Nobel prize
 Paul John Flory:

***“Plastic is the material
 that nature forgot to
 invent”***

WM Thermoforming Machines will be present at interpack to show which are the latest technologies evolutions on packaging and, in the same days, will also have an **Open House at its company site in Stabio (Switzerland)**, where it will be possible to see machines in operation mode:

- **Intec FT 900/2 coex, with**

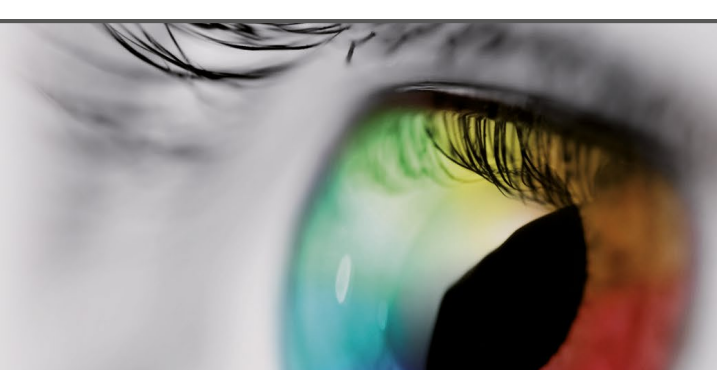
Rotostacker MSv9, for the production of lids, a fully automated system that transform the plastic pellets raw material into final product, with integrated sleeving and boxing process. WM is a specialist in this application and can count more than 100 In-line plants sold and operative all around the world.

- **FC 780 IM/2 Speedmaster Plus**, Mould 3 cavities for the production of rimmed PP Clamshell, a Steel rule cutting technology with in mould trimming and 3 axes robot stacker.

Hall 11 Swiss Pavilion – Stand C31

Further information:

sales@wm-thermoforming.com



Thermoforming Packaging Technology Molds



IML-T *Setting standards!*



RV 74 *TF made easy!*



RDM 75K *Simply the best!*



Complete turnkey solutions with superior performance!

VARIABLE AND ATTRACTIVE IML IN THERMOFORMING – PACKAGING DEVELOPMENT BY ILLIG

ILLIG will demonstrate their expertise by the great potential provided by in-mold labeling in thermoforming (IML-T) combined with clean and hygienic filling and packaging of dairy products.

Leading IML-T-technology – economic and decorative

In live demonstrations ILLIG will show the production of rectangular cups out of PP on

the IML-T production line IC-RDM 70K, forming area 680 mm x 300 mm, together with the compact IML unit RDML 70b. The 18-up mold produces cups with 3 different labels at the same time with an hourly output of 17,280 cups. Decoration is performed in brilliant photo quality on all four side walls of the pack and also on the bottom directly during forming.

IML thermoforming developed by ILLIG is more favorable with regard to cost aspects than IML injection molding, for example, which is also used for decoration of plastic packs. The IML-T system allows flexible decoration of most cup shapes with labels. Moreover, investment amounts for molds and maintenance costs are cheaper than in injection molding. Thermoformed articles can be manufactured with thinner walls and they are thus more lightweight than injection molded part. Lower energy consumption during processing is a benefit in addition to the substantially lower material consumption. Economic benefits are provided by IML thermoforming, particularly because multi-cavity molds can be employed.

FSL 48 combined with IML-T: Variable dairy packs

The FSL 48 form, fill and seal line developed by ILLIG is suitable for requirements by the food and especially the dairy industry. The filler with CIP (cleaning in place) and SIP (sterilization in place) functions can be equipped technically in such a way that it meets the different hygienic demands by the food industry, even through to hygiene class IV according to VDMA (hygienic filling machines).



All standard materials suitable for FFS lines can be processed on FSL 48, such as PS, PP, multilayer materials (e. g. PS/EVOH/PE), APET and even materials made of the biopolymer PLA (polylactic acid).

Packaging development by ILLIG

Every pack is unique. From the customer's first idea through to an excellent pack which meets all recent requirements. There are numerous development stages in between and many technical questions that must be answered. ILLIG can meet these requirements thanks to its expertise in mold making and machine manufacturing and its knowledge of the markets – worldwide. The Heilbronn company with its new sector of packaging development can offer practical solutions and designs for thermoforming. ILLIG shows the great potential of thermoforming.

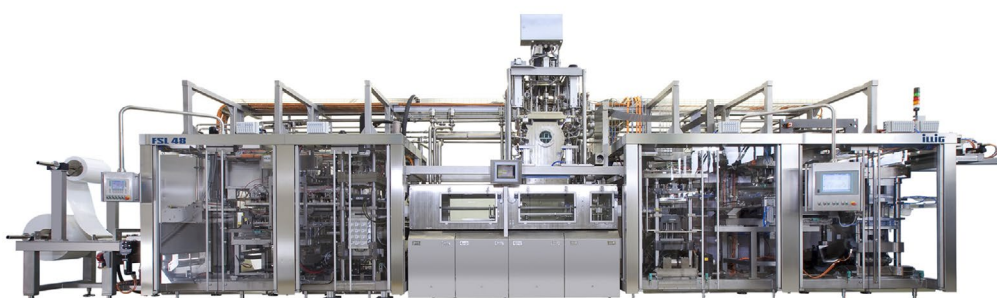
Hall 6 - Stand E02

Further information:

ILLIG Maschinenbau GmbH & Co. KG, Wolfgang Konrad, Head of Company Communications

Tel: +49 7131 505-236

Email: wolfgang.konrad@illig.de



GREINER PACKAGING ESTABLISHES JOINT VENTURE WITH INDIAN PACKAGING MANUFACTURER

Greiner Packaging is continuing to broaden its international market position by expanding in India.

This move will make Greiner Packaging India Pvt. Ltd a joint venture with the New Delhi-based Century Ultrapack, one of the leading providers of plastic

packaging in the Indian dairy industry.

Hall 10 – Stand C42

Further information:

Email: office@greiner-gpi.com

THERMOFORMING – SOLUTIONS FROM A SINGLE SOURCE KIEFEL – BOSCH SPRANG – MOULD & MATIC

KMD Speedformer series – flexible for all needs

Fast for high volumes, economic for smaller jobs. The KMD Speedformer are flexible in the production of food or non-food articles, versatile with all common thermoforming materials. The machines have a modular design, are configurable for customer's requirements and offer added functions such as notch-free punching solutions.

KTR Thermorunner series is more

The KTR Thermorunner offer more robustness and availability combined with high performance and precision. Users get advantage from more options in tooling with tools from Bosch Sprang or Mould & Matic or their preferred toolmaker.

Innovative solutions are also available for

downstream automation and T-IML.

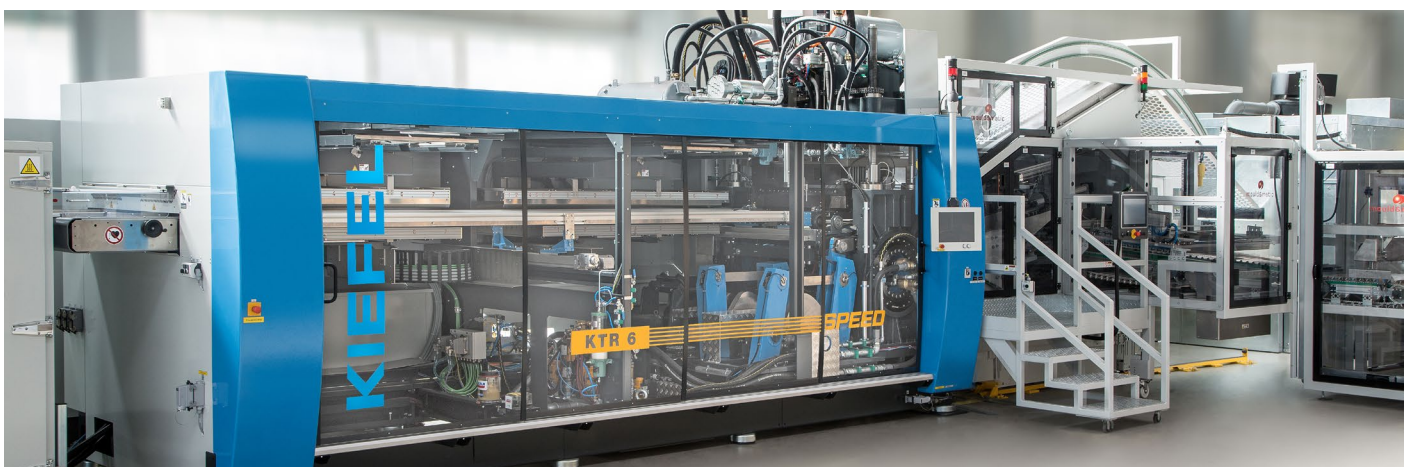
The Kiefel Technology Center brings customers a step ahead

Innovative and proven engineering: The Kiefel Technology Center is equipped with standard KMD and KTR production machines as well as numerous other lab-thermoform- and test equipment.

With Bosch Sprang and Mould & Matic, Kiefel has access to further capabilities and devices within one group. Support is provided from basic material testing and/or product development for tuning up the thermoforming production.

Dedicated training for operators and maintenance staff and thermoforming courses are offered on request.

Hall 13 – Stand B76



Cup Forming Machine Thermorunner KTR 6.1 Speed with Pick-up Stacker

Further information:

Kiefel GmbH, Tel: +49 8654 78-182

Email: Reinhold Plot, r.plot@kiefel.de

GENERATIONAL CHANGE AT TECHNO TOOL A/S

Techno Tool A/S in Esbjerg has recently completed a generational change and has been taken over by the Aarhus company, BIIR ApS.

Techno Tool A/S is one of Europe's leading manufacturers of tools for the production of plastic products. The company is also sales agent for the reputable Kiefel processing machines for the medical, automotive and plastic packaging industries.

Techno Tool and its 33 employees are experiencing dramatic growth in the packaging industry, and with the recently completed generational change, the company is fully geared to manage the growth and the constantly increasing demand for the company's products.

BIIR ApS, which took over Techno Tool A/S on 1 December 2016, specialises in making engineers, project managers and technicians available to multinational companies. Thomas Sillesen, from Esbjerg, is the chairman of the board and co-owner of the company, and BIIR has, in addition to its office in Aarhus, a major engineering department in Ukraine, the competences of which Techno Tool will now also be able to take advantage of.

The taking over of Techno Tool ensures that technical and managerial competences at the highest level will continue to be added in the future, while investments

will continue to be made in relevant equipment. There are great expectations regarding growth in the years to come.

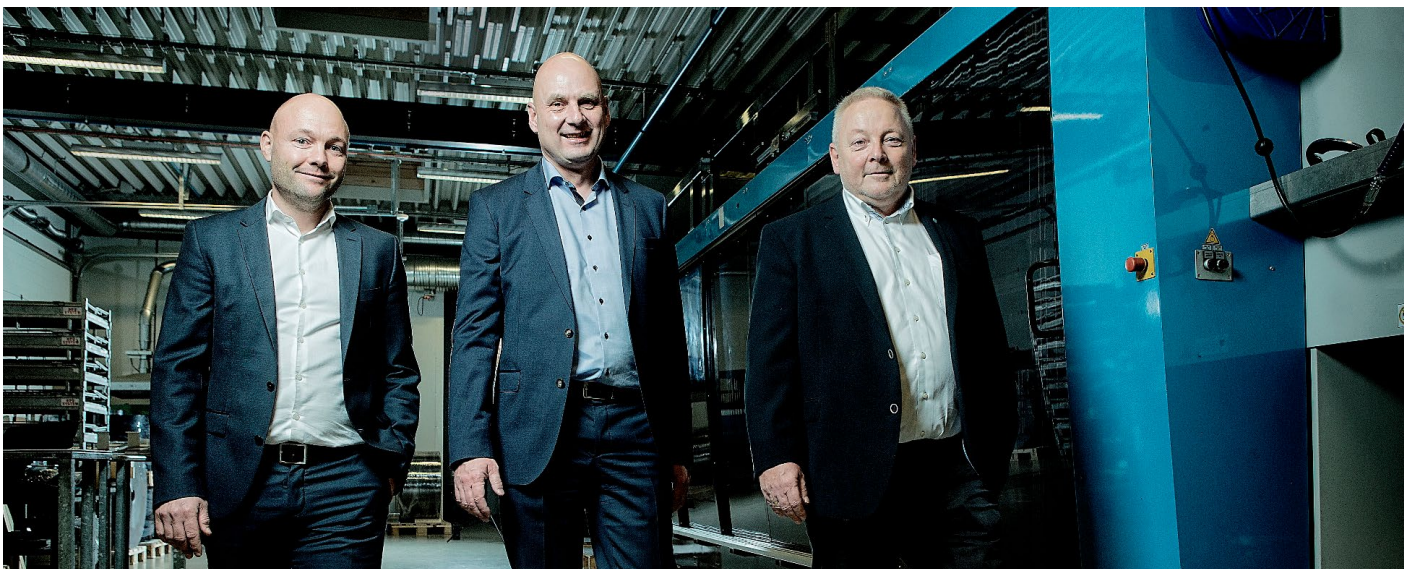
In connection with the takeover, Peter Mischorr has been named Managing Director. Peter lives in Esbjerg and comes from a position as senior consultant at BIIR ApS.

The previous group of owners at Techno Tool will continue in the company in various key positions so that both know-how and personal relationships can be retained.

Hans Lauridsen, previous co-owner and CEO at Techno Tool is pleased that the company's future is now secure, and he looks forward to cooperating with the new owners and Peter Mischorr until he retires in two or three years.

Peter Mischorr is also looking forward to the challenges and to being the head of the company. He is especially pleased by his reception by Techno Tool's employees

Thomas Sillesen from BIIR: - Techno Tool has a strong team of employees and some unique products, and together with BIIR's many competent engineers, quality specialists and project managers, we have every possibility to have an even stronger position than today.



Peter Mischorr, Thomas Sillesen and Hans Lauridsen

Further information:

Peter Mischorr , Managing Director, Tel: +45 20 89 42 21- Email: pm@techno-tool.dk

Hans Lauridsen, Sales Director Tel: +45 40 35 90 94 – Email: hans@techno-tool.dk

<http://www.techno-tool.dk> - <http://www.biir.dk>

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Techno Tool exports to more than 35 countries around the world



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KLÖCKNER PENTAPLAST TO ACQUIRE LINPAC GROUP

The Klöckner Pentaplast Group (“KP”), a global leader in rigid plastic film and packaging solutions, has signed a binding agreement to acquire LINPAC Senior Holdings Limited and its direct and indirect subsidiaries (“LINPAC”), an important film producer and converter for food packaging in Europe. Financial terms of the transaction were not disclosed.

The transaction will create a global leader in the rigid and flexible film market, with combined annual revenues exceeding \$2 billion.

Transformational acquisition will create a global leader in the rigid and flexible film market, with combined annual revenues exceeding \$2 billion

Together, with about 6,300 employees across 32 locations in 16 countries, the two companies will form a one-stop-shop providing complete packaging solutions to customers worldwide

Strategic Rationale

The combination of KP’s world class film production with LINPAC’s highly innovative film production and conversion capabilities will create a one-stop-shop providing complete packaging solutions to customers. The acquisition of LINPAC will further strengthen KP’s customer-centric business approach, a key pillar of the company’s strategy.

The acquisition will also enable KP to expand its technological capabilities further into the rigid and flexible film market. This market benefits heavily from megatrends including customers’ desire for healthy and safe food with an extended shelf life.

Further information:

Email: kpinfo@kpfilms.com

Hendrik Bender: hbender@heringshuppener.com

UPCOMING EVENTS

Interpack 2017

4 -10 May 2017
Düsseldorf, Germany
www.interpack.de

SPE ANTEC

8 -10 May 2017
Anaheim, California, USA
www.4spe.org/events

CHINAPLAS

16 -19 May 2017
Guangzhou, China
www.chinaplasonline.com

SPE Thermoforming Conference

11-14 September 2017
Orlando, Florida, USA
www.thermoformingdivision.com

Interplas 2017

26-28 September 2017
Birmingham, U.K.
www.interplasuk.com

Kunststoffen 2017

27 -28 September 2017
Veldhoven, Netherlands
www.kunststoffenbeurs.nl

Equiplast 2017

2-6 October 2017
Barcelona, Spain
www.equiplast.com

Fakuma 2017

17-21 October 2017
Friedrichshafen, Germany
www.fakuma-messe.de

Euromold / Airtec 2017

24-26 October 2017
Munich, Germany
www.euromold.com

11th European Thermoforming Conference

14-16 March 2018
Rome, Italy
www.e-t-d.org

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Mission Statement

It is the purpose of the European Thermoforming Division to stimulate and diffuse knowledge of all aspects of the Thermoforming industry.

This will be achieved by providing conferences, training seminars and regular topical news bulletins. It will provide a dynamic network platform and encourage and promote technical and scientific participation by its members

ETD BOARD MEMBERS 2016-2018

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<i>Jeff Pitt</i>	Programme Committee
<i>Reinhold Plot</i>	PR / Website Committee Chair
<i>Hubert Kittelmann</i>	Sponsors Committee Chair

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SEPTEMBER 11-13, 2017

SPE Thermoforming Conference®

Renaissance Orlando at SeaWorld® - Orlando, Florida

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Tuesday, September 12

Ryan Avery

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Wednesday, September 13

John Register

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Advance Registration Ends August 25

Questions / Information:

Lesley Kyle, CMP

Conference Coordinator

P: +1 914-671-9524 | thermoformingdivision@gmail.com

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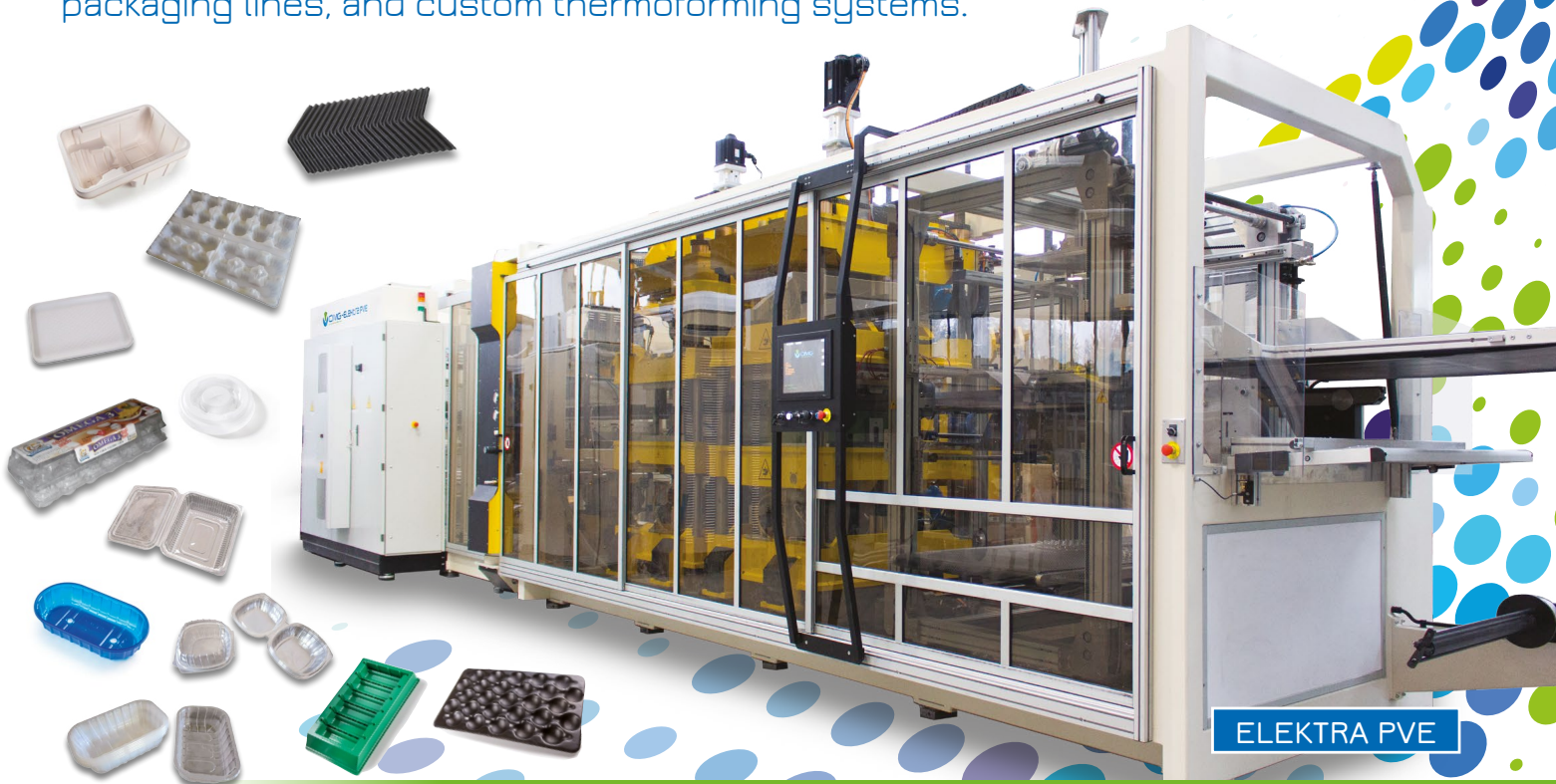
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