european thermoforming division

NEWSLETTER

A publication of SPE European Thermoforming Division - www.e-t-d.org

Autumn 2017

Advertising

Dear Business Colleagues,

It seems only a few months back we were saying our goodbyes to friends and business piers who had attended an enormously successful Thermoforming conference in Barcelona, and yet, in a very short period of time, we will all reconvene in the beautiful city of Rome for the 11th Biennial ETD Thermoforming Conference!

As with all our conferences in the past, we recommend that if you are planning to attend, early bookings for the trip tend to result in the most favourable deals.

They say that 'a week in politics is a very long time', but it appears that the same applies to the Thermoforming Industry.

In the last couple of years there have been seismic shifts in Europe, in Politics, in the way consumers view plastics and the ongoing debate regarding 'Plastic Oceans' and global warming. We also recognise this as a period where there have been many technical and processing improvements in our sector – quite a potential agenda!

The last 6 months have seen the ETD Conference team working hard to develop a topical and relevant program, many of these topics have been based around the constructive suggestions put forward by the attendees in Barcelona, an example of how the ETD want to focus on highly important and current matters.

High on the agenda will be the subject of waste and its disposal. Plastics waste and food waste will be reviewed, in particular how new packaging techniques can assist in reducing the food waste mountains – ludicrous when 800 million people suffer with food shortages.

We will also cover the ongoing rapid development of 3D printing, very much an industry favourite. Another important matter is the introduction of industry '4.0 procedures' which must be implemented by all OMS in a very short period of time – a must for all processors. The subject of "high added value applications" within our industry will also come under the microscope.

So, during this period of political and industrial complexity, of cyber and regional security threats coupled with global warming issues, Rome will be an opportunity to meet old friends and new contacts within the thermoforming industry and together, meet these issues 'head on', very much something to look forward to.

Meanwhile, we may have an opportunity to meet at the forthcoming Fakuma event in the Friedrichshafen Exhibition Centre from 17 to 21 October 2017, a great event.

Gabriel Bernar *- Chair ETD*

Jeff Pitt *- Board member ETD*

SPE®
SOCIETY OF PLASTICS ENGINEERS

SPE EUROPEAN THERMOFORMING DIVISION

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11TH EUROPEAN "THERMOFORMING" CONFERENCE
14 - 16 MARCH 2018 AT MARRIOTT PARK HOTEL, ROME, ITALY

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 30th September 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**

TRAINING SEMINAR: 'HANDS ON THERMOFORMING'
14 MARCH 2018 10H00-18H00 AT MARRIOTT PARK HOTEL, ROME

Morning: Heavy Gauge Thermoforming

- **General part**
  - Basics of Plastics
  - Extrusion technology
- **Thermoforming principles**
  - Vacuum forming
  - High Pressure forming
  - Twin sheet forming

Afternoon: Thin Gauge Thermoforming

- Feeding and Heating the sheet
- Forming the Part
- Fundamentals of TG Thermoforming
- Overview of Trimming and Stacking
- Importance of Design
- Presentation and discussion of Cases
- Workshop

THERMOFORMED PARTS COMPETITION 2018
'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.

WINNERS OF THE 6TH EUROPEAN THERMOFORMING PARTS COMPETITION IN 2016

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

Eric Sasselaan 51, B-2020 Antwerpen, Belgium

Tel.: +32 3 541 77 55

E-mail: **spe.etd@skynet.be**

www.e-t-d.org

FAKUMA 2017: FULL HOUSE FOR 25TH BIRTHDAY!

The exhibition centre in Friedrichshafen will once again be fully booked out for the 2017 edition of the world's second ranking event for industrial plastics technology and plastics processing. The more than 915,000 square feet of overall exhibition floor space will be occupied this year by roughly 1700 exhibitors from 35 countries (including Germany) – and the proportion of manufacturers and distributors from outside of Germany lies within a range of greater than 35%, thus resulting once more in growing internationalism!

The plastics industry is having to reinvent itself to a given extent!

The lasting trend towards participation at Fakuma, which is held in the technology region on Lake Constance where Germany, Austria and Switzerland meet, can also be explained by the fact that large segments of the plastics processing industry are changing – or are being forced to change – through the use of new materials, technologies and processes. 3D/4D printing technologies, as well as techniques and solutions for highly efficient processing of hybrid, composite and sandwich materials can be mentioned here as examples – above all and especially because the automobile industry and its suppliers are also making use of the opportunities offered by a broad-ranging portfolio of chemical solutions to a greater extent than ever before due to multifaceted requirements for affordable lightweight structures. The process sequence for material and resource-conserving processing of these new or alternative materials is based in turn on elementary building blocks such as new machines, adapted moulds and mould standards, integrated quality assurance systems and controllable hydraulic/pneumo-hydraulic/electric drives, as well as network-compatible and thus communication-capable controllers plus software – keyword: **Industry 4.0!**

"Plastics Meets Business"

Knowledge and Technology Transfer in Theory and in Practice

In actual practice, plastics processing at Fakuma includes injection moulding, extruding, thermoforming and 3D printing, as well as further processing right on up to integrated module assembly and sterile packaging under cleanroom conditions, for example of technical medical components ands assemblies. But plastics processing at Fakuma also includes beneficial theory in the form of presentations held at the exhibitor forum which is booked out every year. Top experts present new technologies, enhanced processes, product innovations and new solutions for improved economic efficiency in the production of plastic parts at the forum in brief talks. And thus by being a convincing, living example of its anniversary maxim, namely "Plastics Meets Business", and by presenting it in a practically oriented fashion, the Fakuma international trade fair for plastics processing sees itself as an innovation engine for the plastics industry once again on the occasion of the 25th edition of its successful existence.

International trade fair for plastics processing

17.–21. OCTOBER 2017 · FRIEDRICHSHAFEN

The Entire World of Plastics

25th Fakuma! More than 1700 exhibitors from all over the world will present global offerings for technologies, processes and products made of plastic, as well as equipment and tooling for plastics processing, in 12 exhibition halls. You'll be awaited by flexible, individualised solutions for current and future challenges faced by the automated, globalised economy.

- Injection moulding machines
- Thermal shaping technology
- Extrusion plants
- Tool systems
- Materials and components

www.fakuma-messe.com

SCHALL TRADE FAIRS FOR MARKETS **Organizer:** P. E. SCHALL GmbH & Co. KG +49 (0) 7025 9206-0 fakuma@schall-messen.de

ILLIG CLEANTIVITY® IN THE THERMOFORMING PROCESS: CLEAN PRODUCTION WITH HIGH AVAILABILITY

ILLIG consistently pursues the strategy of increased productivity in thermoforming and it is the intent to optimize the thermoformer's quality time, reduce planned standstill times and minimize scrap by clean production.

Cleantivity® – Cleanliness in machine manufacturing with high availability

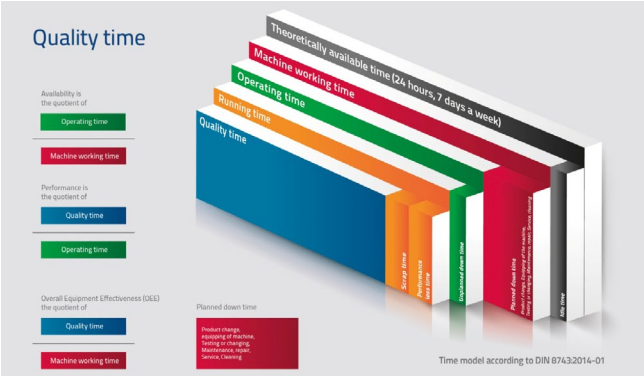
Derived from the comprehensive experience in hygiene in form, fill and seal lines (FFS lines) and partly with an integrated specifically designed IML unit, ILLIG transferred the technology of cleanliness in the production process to its thermoformers – this is accompanied by higher machine availability. ILLIG calls this concept Cleantivity® – derived from the terms „Cleanliness" and „Productivity". It is our intent to extend operating time, running time and, ultimately, the quality time of thermoforming machine, to achieve a high line output of high quality parts.

Quality is a matter of details and can be calculated

Manufacturers of packaging machines and lines work in accordance with the DIN 8743 machinery standard, in order to establish and optimize operating figures and behavior (performance) of their systems. System-inherent and not inherent loss times are considered for this; such as unused production time of the machine, planned and unplanned standstill times, as well as loss time due to reduced output and also scrap. The mentioned loss times must be optimized in order to extend the quality time and to achieve higher line output of high-quality parts faster. Factors which contribute to increased productivity of the systems are: a consistent mold change concept, preventive maintenance measures, test programs, central visualization of diagnosis functions and detection of service-relevant process parameters as well as the „ILLIG Intelligent Control Concept". The measures are completed by the fact that a production line can be integrated in the ILLIG NetService.

A further step towards more quality time

With the Cleantivity® know-how ILLIG transfers the requirements with respect to cleanliness to the thermoforming process. Clean formed parts reduce the amount of scrap and thus increase the machine's quality time.



The DIN 8743 standard describes a time and calculation model. This model deduces the quality time from the theoretically usable time of the machine (24 hours per day), the machine time, the operating time and the running time.

It is our intent to extend the operating time, the running time and, ultimately, the quality time of thermoforming machines by using Cleantivity®, so a high line output of high quality parts can be achieved.

ILLIG will present the UA 100g machine in **Hall A3, Booth 3208 at FAKUMA**

Further information: Georg Sposny, Marketing Communications, Public Relations

Phone: +49 7131 505-784, Fax: -1784, *georg.sposny@illig.de*

Tradition forms future

cleantivity®

ILLIG Cleantivity® in the thermoforming process: Clean production with high availability

Cleantivity® – Cleanliness in machine manufacturing with high availability

ILLIG again raises its thermoformers to a higher level. Derived from the comprehensive experience in hygiene in form, fill and seal lines (FFS lines), ILLIG transferred the technology of cleanliness in the production process to its thermoformers – this is accompanied by higher machine availability. It is our intent to extend operating time, running time and, ultimately, the quality time of thermoforming machine, to achieve a high line output of high quality parts.

ILLIG Maschinenbau GmbH & Co KG
Headquarters, Germany
www.illig.de

SENOPLAST IS LAUNCHING THREE NEW PRODUCTS AT FAKUMA 2017

Senoplast is presenting its latest product news at the international trade fair for plastics processing (FAKUMA).

An exciting innovation is the new product senotop® VP CM62HC, a film for automotive applications with a hard coating giving particularly high scratch and chemical resistance. A further innovation is a co-extruded sheet senosan® VP TPE made from thermoformable polyolefin with a TPE top layer, which is mainly used for car boot linings. The third innovative product is the stone grain emboss pattern senosan® 3000X sheet for sanitary applications keeping up with the latest trends in bathroom design and appearance.

“Our goal is to extend the business field of lacquer coating not only in the field of furniture but also in the automotive industry”, says Günter Klepsch, CEO of Senoplast Klepsch & Co. GmbH, who places great emphasis on constant product innovation and development.

Thermoformable hard coat material for the automotive market

The new senotop® VP CM62HC-film with a thermoformable hard coating created by a two-step hardening procedure makes products more resistant to scratches and chemicals. This new coating has also successfully passed the standard test procedure, the so-called “sun cream test”. Generally, sun cream residues are particularly hard to remove and can severely attack or destroy lacquers and films.

The results of the weathering tests as part of the “Xenon test“ were also positive. This means that no lacquer delamination occurs even under exposure to intense sunlight. The hard coat layer is applied in-line after the extrusion.

The market for this product is the automotive industry; roofs and sun-roofs in the car exterior from window height upwards. Interior decorative trims can be fitted with an innovative lacquer coating in piano black.

“The medium-term goal is to implement a serial production for the automotive area”, says CEO Günter Klepsch. “Additionally, we are working on a transparent hard coating for car interiors”.

Another new project is a lightweight roof with plastic film which will be jointly developed with the company Fehrer Advanced Development, a member of the Aunde-group.

Senotop® VP CM62HC

Slip-resistant car boot linings

The new sheet material senosan® VP TPE GL 15-03-15 (Co-extrusion thermoformable polyolefine/TPE) is used for car boot linings. With its matt, scratch resistant surface and its excellent haptics, this product has very good mechanical properties. The sheet is available in a thickness of 1.4 to 3 mm and has a slip-resistant grain ensuring that everything from beer crates to bikes stays in its place.

New stone emboss pattern for sanitary applications

The third innovation is the stone grain pattern of the senosan® 3000X sheet. This is a multi-layer co-extrusion with a base layer of ABS and a co-extruded, embossed top layer from shock-resistant modified acrylic and an easyglide® backside. The high-gloss stone version is currently available in white, the matt version also in grey. The sheet thickness range of 2 to 6 mm is available and has excellent thermoformability and its stone-like surface structure, which is in high demand and currently a new bathroom trend. This sheet is not only used for shower floors and trays, but also for wall panels.

Stone-Look senosan® 3000X sheet with new embossing

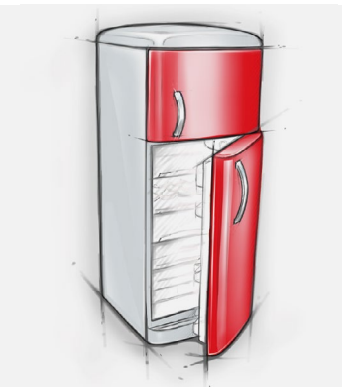
Senoplast at Fakuma, Hall B2, Booth B2-2115

Further Information: Senoplast, Klepsch & Co GmbH, Claudia Pichler

pichler_c@senoplast.com - www.senoplast.com



senosan®
high quality plastic sheets and films



Fakuma

Visit us at the Fakuma in Friedrichshafen, Germany
17th – 21th October 2017
hall B2, booth B2-2115

Quality. Innovation. Environmental consciousness.

Senoplast – globally successful with innovative and high quality plastics sheets and films.
Thermoformed senosan® products are used in various industries and applications - such as in the automotive, sanitary and furniture industries as well as for suitcases, roofboxes and refrigerators.


SENOPLAST
a member of klepsch group

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KIEFEL TECHNOLOGIES

KIEFEL – EXCEPTIONAL INCREASES IN INCOMING ORDERS AND TURNOVER

Kiefel GmbH, Freilassing, looks back on a successful year in 2016 and is delighted to report substantial growth increases again for 2017.

After incoming orders of 2016 developed very positively, the related turnover of 2017, including the turnover of the daughter companies, Bosch Sprang in the Netherlands, Mould & Matic Solutions in Austria and SWA in the Czech Republic has increased by 50% to approx. € 200 million. Incoming orders rose at the same rate in the first half of 2017. This stabilizes the positive business development and it is already clear: 2017 will be a new record year for Kiefel.

Incoming orders and turnover have increased in all Kiefel business areas. Even though the largest contribution to comprehensive income is made by the packaging sector, likewise, record results have been achieved in the automotive and medicine fields.

“The order intake of the last year and the resulting sharp increase in turnover this year far exceeded our expectations. Also in the current financial year we are expecting a significant increase of sales figures compared to the previous year”, emphasizes Kiefel CEO, Thomas J. Halletz. “This results, on the one hand, from the successful placement of our innovative technologies and systems. On the other hand, we have been able to round off our product portfolio with some acquisitions, thus opening up further customer bases. In addition, the Brückner Group, which is family-owned and we belong to for some years now, promotes the sustainable development of its companies. Thus, this has contributed significantly to the success of Kiefel.”

Global growth

In Europe, there is a clear improvement in the economic situation. Accordingly, the region continues to be the most important sales market for Kiefel.

Due to the favourable economic situation, a record order intake was also achieved in the US market. The Kiefel Technology Center in Detroit and the acquisition of the tool and mould manufacturer Paragon Molds opened up further growth opportunities in the automotive sector.

As a result of the intensification of market processing in Asia – particularly in Southeast Asia – the largest percentage increase in order intake and sales was achieved there.

Success creates jobs

“Without highly motivated and qualified employees, it would not be able to cope with the growth of Kiefel in Freilassing. This growth continuously creates new jobs” says Dr. Bernd Stein, CTO of Kiefel GmbH. “Our interesting product portfolio with innovative technologies combined with ideal working conditions offers the employees an attractive field of activity.”

At Kiefel in Freilassing, 500 employees currently are employed. Including the strategic acquisitions of recent years, some 1,000 people work for the Bavarian company.

Assembling of machines for the packaging industry

Fakuma 2017, Hall A1, Booth 1325

Further information: Kiefel GmbH, Reinhold Plot

R.Plot@kiefel.de

Pressure Forming Machines for the Packaging Industry

Visit us:
FAKUMA 2017
Hall: A1, Stand: 1325
Friedrichshafen
17.–21. Oktober 2017

Fakuma

Kiefel GmbH
Sudetenstr. 3, 83395 Freilassing
Germany
T +49 8654 78 0
kiefel@kiefel.de

MARBACH TOOL MANUFACTURING: INVESTING IN THE NEW THERMOFORMING MACHINE GABLER M 98 MAXX

Since a Speedperformer KMD85 from Kiefel was installed in 2016, Marbach will expand its machine park. The Gabler M98 MAXX is the fourth Gabler machine that has been purchased by Marbach during the last years. A close partnership links Marbach and Gabler already since the 1980s.

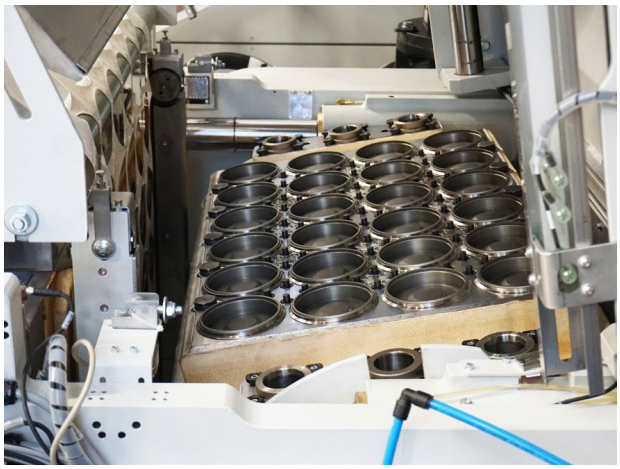
Marbach will use this for different applications. Area Sales Manager Sefa Bincan: “We will apply our new machine for production tools as well as testing tools.”

The M98 MAXX has the greatest possible tool mounting space at the moment. This makes it very flexible concerning tool size. Therefore tools for any leading thermoforming machines can be inserted: tools for machines of the Illig RDM series, the Kiefel KTR series, the WM FT series, the TSL FT4K, the Güven FT, and the Gabler M series.

Bincan continues: “We are highly flexible with our new machine and it delivers undreamt-of possibilities. We can, for example, perform extensive functionality and quality tests before delivering to the customer. Moreover, we can optimize the tools our customers order with regard to process safety and productivity on our Gabler M 98 MAXX. And all this without having to reduce our customers’ production capacity.”

In addition Marbach offers start-up production runs for customers. In the case of shortages in their production, customers can fall back on Marbach capacities.

Marbach will use the new machine intensively in the area of research and development. Because it also will be used to test recent proto-types innovations, to optimize processes with special sensor technology and to develop new functional packaging.



GablerM98Maxx tool

Further Information:

Marbach Group, Karl Marbach GmbH & Co. KG, Kristina Reichert
kristina.reichert@marbach.com
www.marbach.com

AMUT COMI: NEW ACF 820 SERIES OF STEEL RULE CUTTING MACHINES

The ACF 820 machine combines the characteristics of V and F series, thus creating an innovative model having:

- high level of standardization,
- exceptional repeatability,
- rugged durability,
- flexible production for a wide range of articles,
- increased high-speed performances.

This range of machines is suitable to handle different materials, such as PET, APET, RPET, CPET, OPS, HIPS, PS, EPS, PP, PLA, PVC and to produce many items: trays, lids, fruits and vegetables boxes, flowerpots, clamshells, nursery trays and plates.

The ACF series has a modular concept and can be supplied in different configurations such as:

- forming;
- forming and cutting in the same station;
- forming and cutting in two stations;
- forming, punching and cutting in three stations.

Up or down stackers, three-axis robot as well as customized special solutions are available to stack thermoformed parts with different nesting requirements.

The ACF 820 can be equipped with a wide range of options, including: servo driven plug assist on upper and lower mould platens, high performance mould clamping and cutting force, quick tools change devices, different heat ovens configuration with power saving heaters and many others.

The forming and cutting presses are equipped with counterbalanced platens to increase the machine performances at high speed.

The ACF machines can be integrated with a T-IML system, based on a side entry robot to load labels inside the forming mould in order to decorate the articles.

Further Information: AMUT spa, Pamela Provera

p.provera@amut.it - www.amut.it

INCREASED EFFICIENCY AND PRODUCTIVITY FROM SWITZERLAND

New tilting machine model Twist 700

This thermoforming machine is a new development of tilting machine with the combination of Hi-TEC and functional innovations to increase efficiency and productivity. The air pressure forming machine with trim-function in the tilting mould works without mechanical cam shafts. This technological step ahead enables medium to large-scale production of bowls, yoghurt cups, disposable cups and lids with deep draw forming and the highest cutting tolerance and product quality in a fully automated production process. The mould table construction was designed to use most existing customer tools.

The heating system of the machine is equipped in its basic version with the energy-saving black ceramic Elstein heaters and covers a total of 7 times the index of the forming mould. The machine is able to cover an extreme wide range of variants from PP products without the use of a preheating oven.

Steel chain guides for the foil transport as well as sliding elements made from hardened steel considerably reduce the lubricant contamination and allow the chain system a significantly longer lifetime than conventional systems with aluminium profiles.

With a maximum tool surface area of 705 x 400 mm, the machine is able to accommodate external tools from already existing tool systems which are already an integral part of the customers equipment.

Further Information: WM Thermoforming Machines, Ivonne Ghislandi

ivonne.ghislandi@wm-thermoforming.com - www.wm-thermoforming.com

VERSATILE AND EFFICIENT SOLUTIONS WITH PROCESS RELIABILITY FOR PACKING MEDICAL PRODUCTS

At this year's Compamed in Düsseldorf, the focus on the MULTIVAC stand is on flexible solutions for packing medical products in small to medium sized batches, as well as on the automated in-feed of products of all types. The thermoforming packaging machines, tray sealers and chamber machines, which will be exhibited, are highly efficient and suitable for producing a very wide range of pack formats.

The exhibits will include a versatile thermoforming packaging machine in the MULTIVAC Clean Design for GMP-compliant packing of sterile medical products. The web advance for the lower web is performed by means of a chain guide on one side, and this ensures that a monitored packaging procedure and simple line clearance are achieved. The monitored web advance also contributes to a low level of start-up loss after batch changes for example. The packaging machine has great flexibility for packing products in a wide range of formats and materials. Fast and reproducible conversion of the machine is achieved through simple quick-change systems for the dies and complete cutting tool.

The thermoforming packaging machine is equipped with an innovative infeed system for the automated loading of syringes. This means that up to 300 prefilled glass or plastic syringes per minute can be loaded into the pack cavities and monitored with a high level of process reliability. The in-feed system consists of a shaft infeed system, a separating wheel, a transport conveyor, a 3-axis robot and a H 242 handling module. All the components of the infeed system are synchronised with the thermoforming packaging machine, and they can be operated via its control terminal in a convenient and reliable way.

Further Information: Multivac Sepp Haggenmuller SE & Co. KG, Valeska Haux

www.multivac-group.com

UPCOMING EVENTS

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

SPE ANTEC 2018
7-10 May 2018
Orlando, Florida, USA
www.4spe.org

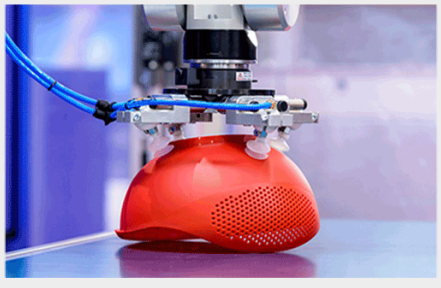
Fakuma

International trade fair for plastics processing

17.–21. OCT. 2017

The Entire World of Plastics

- Injection moulding machines
- Thermal shaping technology
- Extrusion plants
- Tool systems
- Materials and components



www.fakuma-messe.com

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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OMG
THERMOFORMING

kreativitylab.it

Since 1965, our mission:
The design and manufacture of the most advanced and energy efficient thermoforming machines in the world, for the processing of thermoplastic materials.

O.M.G. srl currently offers a wide variety of standard series machines for both thin and heavy gauge applications, as well as highly customized complete packaging lines, and custom thermoforming systems.

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